

Program

**Room S1**

4th Bldg., Section B J11

**CSJ Award Presentation**

**Sunday, March 25, AM**

Chair: KOBAYASHI, Hayao (11:00~12:00)

- 1S1-01 CSJ Award Presentation** Edge State of Nanographene and its Electronic and Magnetic Properties (Tokyo Institute of Technology) ENOKI, Toshiaki (11:00~12:00)

**Monday, March 26, AM**

Chair: TATSUMI, Kazuyuki (10:00~11:00)

- 2S1-01 CSJ Award Presentation** Pioneering and Developing Studies on Structural Chemistry of Fluctuations (Grad. Sch. Adv. Integration Sci., Chiba Univ.) NISHIKAWA, Keiko (10:00~11:00)

Chair: TANAKA, Kenichiro (11:10~12:10)

- 2S1-02 CSJ Award Presentation** Development of Photocatalysts for Overall Water Splitting (The Univ. of Tokyo) DOMEN, Kazunari (11:10~12:10)

**New Challenges in Bioinorganic Chemistry - Towards New Development of Bio-Related Chemistry**

**Monday, March 26, PM**

Chair: ITOH, Shinobu (13:30~14:50)

- 2S1-03 Special Lecture** Artificial Photosynthesis for Production of Chemical Fuels (Grad. Sch. Eng., Osaka Univ.) FUKUZUMI, Shunichi (13:30~14:10)

- 2S1-04 Special Lecture** Development of Functional Models for Non-heme Oxidases (Kanazawa Univ.) SUZUKI, Masatatsu (14:10~14:50)

Chair: ISHIMORI, Koichiro (14:50~16:10)

- 2S1-05 Special Lecture** Functional Conversion of Respiratory Enzymes in Molecular Evolution (RIKEN) SHIRO, Yoshitsugu (14:50~15:30)

- 2S1-06 Special Lecture** Novel small molecule-based fluorescence probes for intraoperative in vivo imaging of tiny tumors (Grad. Sch. Med., The Univ. of Tokyo) URANO, Yasuteru (15:30~16:10)

Chair: AONO, Shigetosh (16:10~17:30)

- 2S1-07 Special Lecture** Beyond the Double Helix: Effect of Molecular Environments on the Structure and Function of Nucleic Acids (FIBER & FIRST, Konan Univ.) SUGIMOTO, Naoki (16:10~16:50)

- 2S1-08 Special Lecture** In-cell Chemistry on the basis of protein selective labeling (Grad. Sch. Eng., Kyoto Univ.) HAMACHI, Itaru (16:50~17:30)

**CSJ Award Presentation**

**Tuesday, March 27, AM**

Chair: KATSUKI, Tsutomu (11:00~12:00)

- 3S1-01 CSJ Award Presentation** Research of the Origins of Chirality and Homochirality of Chiral Organic Compounds (Fac. Sci., Tokyo Univ. of Science) SOAI, Kenso (11:00~12:00)

**Tuesday, March 27, PM**

Chair: SHIMOMURA, Masatsugu (13:00~14:00)

- 3S1-02 CSJ Award Presentation** Genome Manipulation and Engineering via Chemical Tools (RCAST, The Univ. of Tokyo) KOMIYAMA, Makoto (13:00~14:00)

Chair: SUZUKI, Keisuke (14:10~16:20)

- 3S1-03 CSJ Award Presentation** Studies on Effective Methods for the Synthesis of Bio-related Nucleic Acid Derivatives (Grad. Sch. Biosci. Biotech., Tokyo Tech) SEKINE, Mitsuo (14:10~15:10)

- 3S1-04 CSJ Award Presentation** Development of a Method for Pro-

tein Synthesis Using Peptide Thioesters as Building Blocks (IPR, Osaka Univ.) AIMOTO, Saburo (15:20~16:20)

**Room S2**

4th Bldg., Section B J21

**CSJ Award Presentation**

**Monday, March 26, AM**

Chair: SHIROTA, Yasuhiko (10:00~11:00)

- 2S2-01 CSJ Award Presentation** Creation of Functional Supramolecular Polymers through Molecular Recognition (Grad. Sch. Sci., Osaka Univ.) HARADA, Akira (10:00~11:00)

Chair: HIYAMA, Tamejiro (11:10~12:10)

- 2S2-02 CSJ Award Presentation** Studies on the Chemistry of Low-Coordinate Organosilicon and Heavier Group 14 Element Compounds (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) SEKIGUCHI, Akira (11:10~12:10)

**Frontier of Plasmonic Photochemistry**

**Monday, March 26, PM**

Chair: MURAKOSHI, Kei (13:30~14:50)

- 2S2-03 Special Lecture** Opening Remarks (RIES, Hokkaido Univ.) MISAWA, Hiroaki (13:30~13:40)

- 2S2-04 Special Lecture** Tuning of surface plasmon resonance wavelengths by structural control of inorganic nano particles (ICR, Kyoto Univ.) TERANISHI, Toshiharu (13:40~14:15)

- 2S2-05 Special Lecture** Fabrication of Metal-Semiconductor Nanocomposites and Their Application to Plasmonic Photocatalysts (Grad. Sch. Eng., Nagoya Univ.) TORIMOTO, Tsukasa (14:15~14:50)

Chair: MISAWA, Hiroaki (14:50~16:10)

- 2S2-06 Special Lecture** Anisotropic polarization of molecules in localized electromagnetic field (Grad. Sch. Sci., Hokkaido Univ.) KOMEDA, Keiichiro; NAGASAWA, Fumika; TAKASE, Mai; YASUDA, Satoshi; MURAKOSHI, Kei (14:50~15:25)

- 2S2-07 Special Lecture** New Development of Plasmonic Solar Cells (IMCE, Kyushu Univ.) OKAMOTO, Koichi (15:35~16:10)

Chair: TORIMOTO, Tsukasa (16:10~17:30)

- 2S2-08 Special Lecture** Nano-optical imaging of photo-reaction fields in metal nanostructures (IMS) OKAMOTO, Hiromi (16:10~16:45)

- 2S2-09 Special Lecture** Plasmonic Solar Energy Conversion System (RIES, Hokkaido Univ.) MISAWA, Hiroaki (16:45~17:20)

- 2S2-10 Special Lecture** What's next (Grad. Sch. Sci., Hokkaido Univ.) MURAKOSHI, Kei (17:20~17:30)

**CSJ Award Presentation**

**Tuesday, March 27, AM**

Chair: TERAZIMA, Masahide (11:00~12:00)

- 3S2-01 CSJ Award Presentation** Observatio of molecular structural change during chemical reaction (Univ. of Electro-Communication) KOBAYASHI, Takayoshi (11:00~12:00)

**Tuesday, March 27, PM**

Chair: TATSUMI, Takashi (13:00~14:00)

- 3S2-02 CSJ Award Presentation** Studies on Energy and Environmental Chemistry Based on Photochemistry (Sch. Eng., The Univ. of Tokyo) HASHIMOTO, Kazuhito (13:00~14:00)

Chair: TATSUMI, Kazuyuki (14:10~15:10)

- 3S2-03 CSJ Award Presentation** Reaction Chemistry of Transition Metal Polyhydrido Clusters (Grad. Sch. Sci., Eng., Tokyo Tech) SUZUKI, Hiroharu (14:10~15:10)

## Room S3

4th Bldg. Independence Wing DB201

### Chemical Biology Using Naturally Occurring Ligands

Sunday, March 25, AM

(9:00 ~ 9:05)

**1S3-01 Special Program Lecture** drift of this symposium (Grad. Sch. Sci., Tohoku Univ.) UEDA, Minoru (09:00~09:05)

Chair: NAGASAWA, Kazuo (9:05 ~ 9:30)

**1S3-02 Special Program Lecture** Chemical Biology of Iron Transporter in Gramineous Plants (Grad. Sch. Sci., Hokkaido Univ.) NANBA, Kosuke (09:05~09:30)

Chair: YAMADA, Hidetoshi (9:30 ~ 9:55)

**1S3-03 Special Program Lecture** Ultra high throughput in-silico predictions for protein-chemical interactions (Fac. Sci. Tech., Keio Univ.) SAKAKIBARA, Yasufumi (09:30~09:55)

Chair: TACHIBANA, Kazuo (9:55 ~ 10:20)

**1S3-04 Special Program Lecture** Chemical Biology on Antitumor Marine Natural Product Ligands (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) KIGOSHI, Hideo (09:55~10:20)

Chair: TAKAHASHI, Takashi (10:20 ~ 10:45)

**1S3-05 Special Program Lecture** Application of natural products for high-throughput random screening (AIST) SHIN-YA, Kazuo (10:20~10:45)

Chair: UEMURA, Daisuke (10:45~11:10)

**1S3-06 Special Program Lecture** Chemical biology on a glycoside-type naturally occurring ligand (Grad. Sch. Sci., Tohoku Univ.) UEDA, Minoru (10:45~11:10)

Chair: KAJIHARA, Yasuhiro (11:10~11:35)

**1S3-07 Special Program Lecture** Chemical biology of glycoconjugate ligands (Grad. Sch. Sci., Osaka Univ.) FUKASE, Koichi (11:10~11:35)

Chair: MURATA, Michio (11:35~12:00)

**1S3-08 Special Program Lecture** Chemical Biology on Cell Death Control Ligand (RIKEN) SODEOKA, Mikiko (11:35~12:00)

### SPring-8 Symposium on X-ray Powder Diffraction Analysis—Fundamental Guidance

Wednesday, March 28, AM

Chair: TAKAYA, Hikaru (9:30 ~ 10:50)

**4S3-01 Special Program Lecture** Introduction to advanced structural studies by SR powder diffraction (JASRI) SAKATA, Makoto (09:30~10:00)

**4S3-02 Special Program Lecture** Advanced Applications of the SPring-8 Powder Diffractometry to Materials Science (RIKEN/SPring-8) KATO, Kenichi (10:00~10:50)

Chair: MATSUO, Yutaka (11:00~12:30)

**4S3-03 Special Program Lecture** Ab initio Crystal Structure Analysis Based on Powder Diffraction Data Obtained from Organic Compounds (Rigaku Corporation) SASAKI, Akito (11:00~11:30)

**4S3-04 Special Program Lecture** Powder X-Ray Structure Analysis of Organic Supramolecular Materials (ICR, Kyoto Univ.) TAKAYA, Hikaru; TAKAHASHI, Eiji; NAOTA, Takeshi; ISOZAKI, Katsuhiko; OGATA, Kazuki; OGAWA, Tetsuya; NAKAMURA, Masaharu (11:30~12:00)

**4S3-05 Special Program Lecture** Single-crystal diffractometry for the structure determination of very small crystals at SPring-8 (JASRI/SPring-8) KIMURA, Shigeru (12:00~12:30)

### SPring-8 Symposium on X-ray Powder Diffraction Analysis—Application Guidance

Wednesday, March 28, PM

Chair: UEMURA, Takashi (13:30~14:50)

**4S3-06 Special Program Lecture** Development, upgrade, application of synchrotron powder structural study for molecular materials (Grad. Sch. Eng., Nagoya Univ.) NISHIBORI, Eiji (13:30~14:20)

**4S3-07 Special Program Lecture** Novel properties of advanced ma-

terials visualized by powder X-ray diffraction at SPring-8 (JASRI) KIM, Jungeun (14:20~14:50)

Chair: TAKEUCHI, Masayuki (15:00~16:35)

**4S3-08 Special Program Lecture** X-ray Crystal Structure Analysis of Poly-Phase Stacking Alloy for Nickel/Metal Hydride Battery (GS Yuasa International Ltd.) OZAKI, Tetsuya (15:00~15:30)

**4S3-09 Special Program Lecture** Crystal Structure Analysis of Luminescent Organic Salts by Synchrotron Radiation (Grad. Sch. Eng., Osaka Univ.) TOHNAI, Norimitsu (15:30~16:00)

**4S3-10 Special Program Lecture** Structural Analysis of Flexible Porous Coordination Polymers and Their Applications for Polymer Chemistry (Grad. Sch. Eng., Kyoto Univ.) UEMURA, Takashi (16:00~16:30)

**4S3-11 Special Program Lecture** Closing Remark (JASRI) YAMAKAWA, Noboru (16:30~16:35)

## Room S4

4th Bldg. Independence Wing DB202

### Special Lecture

Monday, March 26, PM

Chair: MORIYAMA, Hiroshi (14:00~14:50)

**2S4-01\* Special Lecture** Fascinating Insights in Chemistry, Biology and Medicine by NMR (ETH Zurich, Switzerland) Richard R. Ernst (14:00~14:50)

## Room S5

4th Bldg. Independence Wing DB203

### CSJ Public Lecture

Sunday, March 25, PM

Chair: KANO, Naokazu (13:20~14:10)

**1S5-01** Multiverse - New view of the universe drawn by theoretical physics - (NINS) SATO, Katsuhiko (13:20~14:10)

Chair: YOKOYAMA, Hiromi (14:10~15:00)

**1S5-02** Great Tsunami from the off Miyagi Earthquake (Center for Integrated Disaster Information Research, The Univ. of Tokyo) FURUMURA, Takashi (14:10~15:00)

Chair: INOUE, Masayuki (15:20~16:10)

**1S5-03** Biologically Intriguing Phenomenon in Plant Kingdom, Nyctinastic and Insectivorous plants (Tohoku Univ.) UEDA, Minoru (15:20~16:10)

Chair: KONDOH, Hiroshi (16:10~17:00)

**1S5-04** Photocatalysts for hydrogen production from water with solar energy (Department of Chemical System Engineering, The Univ. of Tokyo) DOMEN, Kazunari (16:10~17:00)

## Room S6

4th Bldg. Independence Wing D101

### Chemistry in high-energy density nanoscale reaction fields in liquids

Sunday, March 25, AM

Chair: ASAHI, Tsuyoshi (9:30 ~ 10:35)

**1S6-01 Special Program Lecture** Recent development of laser ablation in liquid (Sch. Arts and Sci., The Univ. of Tokyo) MAFUNE, Fumitaka (09:30~09:45)

**1S6-02 Special Program Lecture** Shape modification of citrate-stabilized gold and silver nanoparticles using laser ablation in liquids (IMCE, Kyushu Univ.; Tokushima Univ.; AIST; Kagawa Univ.) TSUJI, Takeshi; TSUJI, Masaharu; HASHIMOTO, Shuichi; KOSHIZAKI, Naoto; ISHIKAWA, Yoshie (09:45~10:10)

**1S6-03 Special Program Lecture** Preparation of inorganic nanoparticles by laser ablation in liquid (Grad. Sch. Sci. and Eng., Tokyo Tech) WADA, Hiroyuki (10:10~10:35)

Chair: TSUJI, Takeshi (10 : 35~12 : 20)

- 1S6-04 Special Program Lecture** Applications of metal nanocolloids prepared by laser ablation (Toyota Central R&D Labs., Inc.) NISHI, Tepei; SUZUKI, Noritomo; SUGIYAMA, Hidehiko; YANO, Kazuhisa; ITOH, Akio; HIOKI, Tatsumi; AZUMA, Hirozumi (10:35~11:00)
- 1S6-05 Special Program Lecture** Submicrometer spherical particle fabrication by laser melting in liquid (NRI, AIST) KOSHIZAKI, Naoto; Alexander Pyatenko; ISHIKAWA, Yoshie (11:00~11:25)
- 1S6-06 Special Program Lecture** Fabrication of pure aqueous colloids of organic nanoparticle and its potential applications (Grad. Sch. Sci., Eng., Ehime Univ.) ASAHII, Tsuyoshi (11:25~11:50)
- 1S6-07 Special Program Lecture** New turns in solution photochemistry: ultrafast time-resolved x-ray scattering and chemical reactions in phase separating solvents (Grad. Sch. Sci., Tohoku Univ.) FUKUMURA, Hiroshi (11:50~12:20)

## Can Tectonics for Materials Chemistry Solve the Energy and Environmental Issues?

Sunday, March 25, PM

Chair: NAKAHIRA, Atsushi (13 : 30~14 : 00)

- 1S6-08 Special Lecture** Creation of Thermoelectric Materials through Chemical Nanostructuring (Grad. Sch. Eng., Nagoya Univ.) KOUMOTO, Kunihito (13:30~14:00)

Chair: MATSUDA, Atsunori (14 : 00~15 : 00)

- 1S6-09 Special Lecture** Post Lithium Ion Battery Based on Hybrid Electrolyte (ETRI, AIST) ZHOU, Haoshen (14:00~14:30)
- 1S6-10 Special Lecture** SOFC materials design based on the micro-analysis of analytical TEM (NIMS) MORI, Toshiyuki; DRENNAN John (14:30~15:00)

Chair: OHTSUKI, Chikara (15 : 00~16 : 00)

- 1S6-11 Special Lecture** All-Solid-State Lithium Secondary Batteries Using Inorganic Solid Electrolytes (Grad. Sch. Eng., Osaka Pref. Univ.) TATSUMISAGO, Masahiro (15:00~15:30)
- 1S6-12 Special Lecture** TiO<sub>2</sub>-Related Nanomaterials for Solar Energy Applications (Facul. Pure Appl. Sci., Univ. of Tsukuba) SUZUKI, Yoshikazu (15:30~16:00)

Chair: TANAKA, Katsuhisa (16 : 00~17 : 00)

- 1S6-13 Special Lecture** Electrochemical preparation of oxide semiconductor films and the photovoltaic devices (Toyohashi Univ. of Technology) IZAKI, Masanobu (16:00~16:30)
- 1S6-14 Special Lecture** Band structure engineering of nitride semiconductors for photovoltaics applications (Kyoto Institute of Technology) SONODA, Saki (16:30~17:00)

## Paradigm Shift from structures to functions in nanospaces

Wednesday, March 28, AM

Chair: USAMI, Hisanao (9 : 30 ~11 : 00)

- 4S6-01 Special Program Lecture** Paradigm shift from structures to functions in nanospace (Grad. Sch. Med., Yamaguchi Univ.) KAWAMATA, Jun (09:30~09:45)
- 4S6-02 Special Program Lecture** Anisotropic soft structure and photofunctions of inorganic nanosheets (Kyushu Inst. Technol.) NAKATO, Teruyuki (09:45~10:10)
- 4S6-03 Special Program Lecture** Active control of photochemical processes by manipulation of intermolecular distances (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.; JST-PRESTO) TAKAGI, Shinsuke (10:10~10:35)
- 4S6-04 Special Program Lecture** Polymer Chemistry in Low-dimensional Coordination Nanospaces (Grad. Sch. Eng., Kyoto Univ.) UEMURA, Takashi (10:35~11:00)

Chair: SASAI, Ryo (11 : 15~12 : 30)

- 4S6-05 Special Program Lecture** Supramolecular Engineering of Exotic Dye Assemblies (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki (11:15~11:40)
- 4S6-06 Special Program Lecture** Fabrications of Molecular Mechanical Devices (IMRAM, Tohoku Univ.) AKUTAGAWA, Tomuyuki (11:40~12:05)
- 4S6-07 Special Program Lecture** Color Painting with Black and White Particles (Grad. Sch. Eng., Nagoya Univ.) TAKEOKA, Yukikazu (12:05~12:30)

## Molecular Devices and Low Dimensional Structures

Wednesday, March 28, PM

Chair: IE, Yutaka (13 : 30~15 : 00)

- 4S6-08 Special Program Lecture** Molecular Devices and Low Dimensional Structures (ISIR, Osaka Univ.) TANIGUCHI, Masateru (13:30~13:45)
- 4S6-09 Special Program Lecture** Electron transport through the one-dimensional single molecule wire (Tokyo Institute of Technology) KIGUCHI, Manabu (13:45~14:10)
- 4S6-10 Special Program Lecture** 2D self-organization of metal complex on Au electrode surface (Kumamoto Univ.) YOSHIMOTO, Soichiro (14:10~14:35)
- 4S6-11 Special Program Lecture** Exploring Innovative Material for Organic Electronics through New Reactions (Sch. Sci., The Univ. of Tokyo) TSUJI, Hayato (14:35~15:00)

Chair: YAMADA, Ryo (15 : 15~16 : 30)

- 4S6-12 Special Program Lecture** Study on the interaction of pulsed lasers with gold nano particles toward nanofabrication (The Univ. of Tokushima) HASHIMOTO, Shuichi (15:15~15:40)
- 4S6-13 Special Program Lecture** Theory of Electron Transport and First Principles Calculations on Real Molecular Nano-contact (NRI, AIST) NAKAMURA, Hisao (15:40~16:05)
- 4S6-14 Special Program Lecture** Synthesis of Nano-scaled Wiring Molecular Device and Its Application to Molecular Electronics (Grad. Sch. Eng., Kyoto Univ.) TERAOKA, Jun (16:05~16:30)

## Room S7

4th Bldg. Independence Wing D201

## Marriage of transition metal and main group elements

Sunday, March 25, AM

Chair: SAITO, Masaichi (9 : 30 ~10 : 30)

- 1S7-01 Special Program Lecture** Introduction (Sch. Sci., The Univ. of Tokyo) KANO, Naokazu (09:30~09:35)
- 1S7-02 Special Program Lecture** Formation of a Bond between a Highly Coordinated Main Group Element and a Transition Metal Element (Sch. Sci., The Univ. of Tokyo) KANO, Naokazu (09:35~10:00)
- 1S7-03 Special Program Lecture** Exploration of transition metal complexes with stable low-coordinated compounds of main group elements as ligands (Grad. Sch. Sci., Tohoku Univ.) IWAMOTO, Takeaki (10:00~10:25)
- 1S7-04 Special Program Lecture** Synthesis, Structures, and Reactions of 3d Metal Complexes Bearing a Low-coordinate Phosphorus Ligand (BPEP) (ICR, Kyoto Univ.; JST PRESTO) NAKAJIMA, Yumiko; OZAWA, Fumiyouki (10:25~10:50)

Chair: IWAMOTO, Takeaki (10 : 50~12 : 30)

- 1S7-05 Special Program Lecture** Synthesis of Novel Aromatic Compounds Containing Main Group and Transition Metal Elements (Grad. Sch. Sci., Eng., Saitama Univ.) SAITO, Masaichi (10:50~11:15)
- 1S7-06 Special Program Lecture** Thiolate-Bridged Iron-Nickel Complexes Modeling the Structure and the Properties of the Active site of [NiFe] Hydrogenase (Grad. Sch. Sci., Nagoya Univ.) OHKI, Yasuhiro (11:15~11:40)
- 1S7-07 Special Program Lecture** Organoboron Synthesis through B-B Bond Activation with Cooper(I) Catalyst (Grad. Sch. Sci., Hokkaido Univ.) ITO, Hajime (11:40~12:05)
- 1S7-08 Special Program Lecture** Advanced elements chemistry research opening organic synthesis, materials science, and biology (Dept. of Pharmaceutical Sciences, The Univ. of Tokyo; RIKEN) UCHIYAMA, Masanobu (12:05~12:30)

## Frontiers in research on photofunctions of organic-inorganic complex systems

Sunday, March 25, PM

Chair: TSUBOMURA, Taro (13 : 30~14 : 30)

- 1S7-09 Special Program Lecture** Opening Remarks (Grad. Sch. Sci., Eng., Univ. of Toyama) NOZAKI, Koichi (13:30~13:35)
- 1S7-10 Special Program Lecture** New developments of luminescent metal complexes having sensing functionalities (Grad. Sch. Sci., Hokkaido Univ.) KATO, Masako (13:35~14:00)

- 1S7-11 Special Program Lecture** Control of Emissive Properties of Copper(I) and Silver(I) Coordination Polymers by Isomorphous Substitution (Grad. Sch. Sci. Eng., Univ. of Toyama) TSUGE, Kiyoshi (14:00~14:25)
- 1S7-12 Special Program Lecture** Synthesis and photo-functional properties of lanthanide coordination networks (Grad. Sch. Eng., Hokkaido Univ.) HASEGAWA, Yasuchika (14:25~14:50)

Chair: HAYAMI, Shinya (14:50~15:40)

- 1S7-13 Special Program Lecture** Inorganic - organic hybrid mechano-luminescent material and its applications (AIST) Chao-Nan, Xu; TERASAKI, Nao (14:50~15:15)
- 1S7-14 Special Program Lecture** Synthesis of tunable molecular magnets (IMCE, Kyushu Univ.) SATO, Osamu (15:15~15:40)

Chair: ISHITANI, Osamu (15:40~16:30)

- 1S7-15 Special Program Lecture** Photo-functional Ruthenium = Peptide Complexes: from Photo-induced Electron Transfer to CO<sub>2</sub> Reduction (Grad. Sch. Sci., Kitasato Univ.; PRESTO, JST) ISHIDA, Hitoshi (15:40~16:05)
- 1S7-16 Special Program Lecture** Selective CO<sub>2</sub> reduction conjugated with H<sub>2</sub>O oxidation utilizing semiconductor/complex hybrid photocatalysts (Toyota Central R&D Labs., Inc.) SATO, Shunsuke; ARAI, Takeo; MORIKAWA, Takeshi; UEMURA, Keiko; SUZUKI, Tomiko; TANAKA, Hiromitsu; KAJINO, Tsutomu (16:05~16:30)

## Room S8

4th Bldg. Independence Wing D202

### A New Paradigm for "MONODUKURI": Initiated with Innovative Synthetic Transformations

Sunday, March 25, AM

(9:30~9:40)

- 1S8-01 Special Program Lecture** A New Paradigm for "MONODUKURI": Initiated with Innovative Synthetic Transformations: Introduction for Symposium (Grad. Sch. Sci., Osaka Univ.) TANAKA, Katsunori (09:30~09:40)

Chair: TANAKA, Katsunori (9:40~10:30)

- 1S8-02 Special Program Lecture** What do you make? How do you make it? (IMCE, Kyushu Univ.) TOMOOKA, Katsuhiko (09:40~10:05)
- 1S8-03 Special Program Lecture** Precise design and application of novel photo-functional molecules for living cells (Grad. Sch. Med., The Univ. of Tokyo) URANO, Yasuteru (10:05~10:30)

Chair: NAKAO, Yoshiaki (10:30~11:20)

- 1S8-04 Special Program Lecture** Precision Polymer Synthesis Based on Organic Synthesis (ICR, Kyoto Univ.) YAMAGO, Shigeru (10:30~10:55)
- 1S8-05 Special Program Lecture** Design and Synthesis of Low-pH Responsive DNA Cleaving Molecules Based on Small Ring Chemistry (Grad. Sch. Pharm. Sci., Kyoto Univ.) TAKASU, Kiyosei (10:55~11:20)

Chair: IGAWA, Kazunobu (11:20~12:05)

- 1S8-06 Special Program Lecture** Synthetic Studies on Natural Products aiming construction of highly fused ring systems (Grad. Sch. Pharm. Sci., The Univ. of Tokyo) YOKOSHIMA, Satoshi (11:20~11:40)
- 1S8-07 Special Program Lecture** Design of New Optoelectronic Organic Materials (Grad. Sch. Sci., Nagoya Univ.) YAMAGUCHI, Shigehiro (11:40~12:05)

Chair: HIRAI, Go (12:05~12:30)

- 1S8-08 Special Program Lecture** Organic Synthesis and Glycobiology (RIKEN Advanced Science Institute) ITO, Yukishige (12:05~12:30)

### Elements and Functions: Materials Science Approach to World-wide Problems

Sunday, March 25, PM

Chair: NOZAKI, Kyoko (13:30~15:00)

- 1S8-09 Special Lecture** Element Strategy Initiative: Science with Historical Perspective (Sch. Sci., The Univ. of Tokyo) NAKAMURA, Eiichi (13:30~14:15)
- 1S8-10 Special Lecture** Element Strategy—A New Aspect for Sustainable Society (NAIST) MURAI, Shinji (14:15~15:00)

Chair: KITAGAWA, Hiroshi (15:00~16:30)

- 1S8-11 Special Lecture** Ubiquitous element strategy for innovative materials (MSL, Tokyo Tech) HOSONO, Hideo (15:00~15:45)

- 1S8-12 Special Lecture** materials science providing against resource risk (NIMS) HALADA, Kohmei (15:45~16:30)

Chair: TAMAO, Kohei (16:30~17:15)

- 1S8-13 Special Lecture** Element Strategy Tomorrow through Overview of S&T in Japan on the basis of evidences (Jspan Science and Technology Agency) NAKAYAMA, Tomohiro (16:30~17:15)

## Room SA

4th Bldg. Independence Wing D205

### Frontier Life Chemistry Opens the Next Era of Small Molecular Drugs

Sunday, March 25, AM

(9:30~9:35)

- 1SA-01 Special Program Lecture** Introduction (Inst. Med. Sci., The Univ. of Tokyo) TSUMOTO, Kouhei (09:30~09:35)

Chair: TSUJI, Takashi (9:35~10:15)

- 1SA-02 Special Program Lecture** From systematic analysis of protein interaction networks to drug discovery (AIST) NATSUME, Toru (09:35~10:15)

Chair: FUJII, Ikuo (10:15~10:55)

- 1SA-03 Special Program Lecture** Drug Discovery on Protein/Protein Interaction Modulation by Helix Mimetic Compounds (PRISM BioLab Corp.) KOUJI, Hiroyuki (10:15~10:55)

Chair: MIHARA, Hisakazu (11:05~11:45)

- 1SA-04 Special Program Lecture** Orally-available small molecules with antibody activity (Drug Design Advisor/Interprotein Corp.) MATSUZAKI, Takao; MORISHIMA, Hajime; KOEZUKA, Yasuhiko; TAKASHIMA, Tohru; KOMATSU, Hirotsugu; HOSODA, Masato (11:05~11:45)

Chair: FUTAKI, Shiroh (11:45~12:25)

- 1SA-05 Special Program Lecture** Lead Generation based on Fragment-based Drug Design (Astellas Pharma Inc.) NIIMI, Tatsuya (11:45~12:25)

(12:25~12:30)

- 1SA-06 Special Program Lecture** Closing Remarks (Ajinomoto Pharmaceuticals Co., Ltd.) TSUJI, Takashi (12:25~12:30)

### Flexible Electronic Devices Using Molecular Assembly

Sunday, March 25, PM

(13:30~13:35)

- 1SA-07 Special Program Lecture** Opening remarks (NIMS) HIGUCHI, Masayoshi (13:30~13:35)

Chair: HIGUCHI, Masayoshi (13:35~15:15)

- 1SA-08 Special Program Lecture** Organic electronics (Sch. Eng., The Univ. of Tokyo) SEKITANI, Tsuyoshi; SOMEYA, Takao (13:35~14:00)

- 1SA-09 Special Program Lecture** Enzyme Electrode Films for Miniature Biofuel Cells (Grad. Sch. Eng., Tohoku Univ.) NISHIZAWA, Matsuhiko; MIYAKE, Takeo; NAGAMINE, Kuniaki; YOSHINO, Syuhei; YAMADA, Takeo; HATA, Kenji (14:00~14:25)

- 1SA-10 Special Program Lecture** Organic Photovoltaic Cells Using New Fullerene Derivatives (Sch. Sci., The Univ. of Tokyo) MATSUO, Yutaka (14:25~14:50)

- 1SA-11 Special Program Lecture** A Carbon Nanotube Strain Sensor for human motion detection (NTRC, AIST) YAMADA, Takeo; HATA, Kenji (14:50~15:15)

Chair: MATSUO, Yutaka (15:15~16:30)

- 1SA-12 Special Program Lecture** Bottom-up Approach to Molecular Functional Devices By Coordination Programming (Chuo Univ.) HAGA, Masaaki (15:15~15:40)

- 1SA-13 Special Program Lecture** The Latest Trend of Transparent Conductive Films (TEIJIN CHEMICALS LTD.) ITOH, Haruhiko (15:40~16:05)

- 1SA-14 Special Program Lecture** Electrochromic Display Devices (NIMS) HIGUCHI, Masayoshi (16:05~16:30)

## Chemical Biology of Drug Leads

Tuesday, March 27, AM

(9:00 ~ 9:05)

**3SA-01 Special Lecture** Opening Remark (Fac. Sci. Tech., Keio Univ.) TOSHIMA, Kazunobu (09:00~09:05)

Chair: TOSHIMA, Kazunobu (9:05 ~ 9:45)

**3SA-02 Special Lecture** Research and Development of a Novel Anticancer Drug Halaven (Eisai Co., Ltd.; Eisai Inc.) TAGAMI, Katsuya (09:05~09:45)

Chair: IMOTO, Masaya (9:45 ~ 10:25)

**3SA-03 Special Lecture** Defying Difficult Diseases: Medicinal Science on the basis of Peptide Chemistry (Nagahama Institute of Bio-Science and Technology) KISO, Yoshiaki (09:45~10:25)

Chair: ARIMOTO, Hirokazu (10:25~11:05)

**3SA-04 Special Lecture** Endothelin receptor antagonist derived from southern bayberry: Discovery, lead optimization and process development (Shionogi & Co., Ltd.) KONOIKE, Toshiro (10:25~11:05)

Chair: SODEOKA, Mikiko (11:05~11:45)

**3SA-05 Special Lecture** Chemical Biology and R&D of Antibacterial Agents (Meiji Seika Pharma Co., Ltd.) AJITO, Keichi (11:05~11:45)

Chair: UEMURA, Daisuke (11:45~12:25)

**3SA-06 Special Lecture** Medicinal Chemistry from Natural Products (Ajinomoto Pharmaceuticals Co., Ltd.) TSUJI, Takashi (11:45~12:25)

(12:25~12:30)

**3SA-07 Special Lecture** Closing Remark (Kanagawa Univ.) UEMURA, Daisuke (12:25~12:30)

## Artificial Photosynthesis for Solar Fuel Production

Wednesday, March 28, AM

(9:30 ~ 9:40)

**4SA-01 Special Program Lecture** Introduction (OCARINA, Osaka City Univ.; Fac. Eng., Oita Univ.; JST-PRESTO) NANGO, Mamoru; AMAO, Yutaka (09:30~09:40)

Chair: FUJII, Ritsuko (9:40 ~ 10:50)

**4SA-02 Special Program Lecture** Recent Artificial Phototynthesis for Fuels from Solar Energy (OCARINA, Osaka City Univ.; Fac. Eng., Oita Univ.; JST-PRESTO) NANGO, Mamoru; AMAO, Yutaka (09:40~10:10)

**4SA-03 Special Program Lecture** Construction of New Hydrogenase Model Using an Artificial Metalloprotein as a Motif (Grad. Sch. Eng., Osaka Univ.) HAYASHI, Takashi (10:10~10:50)

Chair: NANGO, Mamoru (10:50~12:10)

**4SA-04 Special Program Lecture** Development of Metal Complexes for Water Oxidation and Challenges to Artificial Photosynthesis (IMS; JST-PRESTO) MASAOKA, Shigeyuki (10:50~11:30)

**4SA-05 Special Program Lecture** Development of efficient photocatalytic systems for CO<sub>2</sub> reduction (Grad. Sch. Sci., Eng., Tokyo Tech) ISHITANI, Osamu (11:30~12:10)

(12:10~12:20)

**4SA-06 Special Program Lecture** Closing Remarks (OCARINA, Osaka City Univ.) NANGO, Mamoru (12:10~12:20)

## Novel development in Organic spintronics

Wednesday, March 28, PM

Chair: YAMASHITA, Masahiro (13:30~15:05)

**4SA-07 Special Program Lecture** Introduction (ISSP, The Univ. of Tokyo) TAJIMA, Hiroyuki (13:30~13:40)

**4SA-08 Special Program Lecture** Spin-dependent transport in molecules and observation of gigantic magnetoresistance (Grad. Sch. Eng. Sci., Osaka Univ.) SHIRAIISHI, Masashi (13:40~14:15)

**4SA-09 Special Program Lecture** Recent Topics of Photoexcited States of Organic Spin Systems and Organic Spin Chemistry (Grad. Sch. Sci., Osaka City Univ.) TEKI, Yoshio (14:15~14:40)

**4SA-10 Special Program Lecture** Spin Chemistry in Optoelectronic Organic Semiconductors (Grad. Fac. Sci. and Technol., Niigata Univ.) IKOMA, Tadaaki (14:40~15:05)

Chair: SHIRAIISHI, Masashi (15:05~16:45)

**4SA-11 Special Program Lecture** Optoelectronic conversion and

non-linear optical properties of organic radicals (RCMS, Nagoya Univ.) AWAGA, Kunio (15:05~15:30)

**4SA-12 Special Program Lecture** Magnetic field effects of photocurrent in organic thin films (ISSP, The Univ. of Tokyo) TAJIMA, Hiroyuki (15:30~15:55)

**4SA-13 Special Program Lecture** Charge Transport in Organic Semiconductor Films Probed by Electronic Spins (AIST) HASEGAWA, Tatsuo; MATSUI, Hiroyuki (15:55~16:20)

**4SA-14 Special Program Lecture** Frontier of Quantum Molecular Spintronics Based on Single-Molecule Quantum Magnets (Grad. Sch. Sci., Tohoku Univ.) YAMASHITA, Masahiro (16:20~16:45)

## Room SB

4th Bldg. Independence Wing D307

## Advanced Chemistry based on the soft-interface

Wednesday, March 28, AM

Chair: SATO, Yukari (9:30 ~ 10:25)

**4SB-01 Special Program Lecture** Advanced Chemistry of Soft-Interface (Grad. Sch. Eng., Kyushu Univ.) MIURA, Yoshiko (09:30~09:35)

**4SB-02 Special Program Lecture** Functional Ferromagnetic Nanoparticles (Fac. Sci. Tech., Keio Univ.) EINAGA, Yasuaki (09:35~10:00)

**4SB-03 Special Program Lecture** High sensitivity immunoassay of the surface plasmon-enhanced fluorescence spectroscopy (SPFS) by soft matrix interface design (KONICA MINOLTA TECHNOLOGY CENTER, INC.) KAYA, Takatoshi (10:00~10:25)

Chair: AOKI, Hiroshi (10:25~11:15)

**4SB-04 Special Program Lecture** Stabilization of air-water dispersed system by adsorption of particles to soft interface (OIT) FUJII, Syuji; NAKAMURA, Yoshinobu (10:25~10:50)

**4SB-05 Special Program Lecture** Structural Chemistry of Ultrathin Organized Molecular Films Formed on softinterface (Grad. Sch. Sci., Eng., Saitama Univ.) FUJIMORI, Atsuhiko (10:50~11:15)

Chair: KIKKAWA, Yoshihiro (11:15~12:30)

**4SB-06 Special Program Lecture** Simulation study of polymer chain at the soft nano-interface between polymer and liquid (NRI, AIST) MORITA, Hiroshi (11:15~11:40)

**4SB-07 Special Program Lecture** Fabrication of Biocompatible Materials based on Regulation of Structural and Physical Properties at the Polymer Interfaces (Grad. Sch. Eng., Kyushu Univ.) MATSUNO, Hisao; HIRATA, Toyooki; SHIMOMURA, Shinichiro; TANAKA, Masaru; TANAKA, Keiji (11:40~12:05)

**4SB-08 Special Program Lecture** Manipulation of Cell Behaviors and Functions with the Micro/Nano-Structured Biointerfaces Fabricated by Electron Beam Lithography (Fac. Sci. and Eng., Waseda Univ.) TAKEDA, Naoya (12:05~12:30)

## Exotic Self-organized Materials: Construction and Analysis of Uncommon Morphologies and Functions

Wednesday, March 28, PM

(13:30~13:35)

**4SB-09 Special Program Lecture** Introduction (Grad. Sch. Eng., Kyushu Univ.) MATSUURA, Kazunori (13:30~13:35)

Chair: MATSUURA, Kazunori (13:35~14:20)

**4SB-10 Special Program Lecture** Organization of microtubules through an energy dissipative process (Grad. Sch. Life Sci., Hokkaido Univ.) KAKUGO, Akira (13:35~13:55)

**4SB-11 Special Program Lecture** Motif design for DNA nanostructure (Grad. Sch. Eng., Tohoku Univ.) MURATA, Satoshi (13:55~14:20)

Chair: KISHIMURA, Akihiro (14:20~15:20)

**4SB-12 Special Program Lecture** Functionalization of liquid-crystalline organic semiconductors through (Fac. Eng., Kagawa Univ.) FUNAHASHI, Masahiro (14:20~14:40)

**4SB-13 Special Program Lecture** Nanometer-Scale Charge Carrier Mobility in Organic Photovoltaic Cell (Grad. Sch. Eng., Osaka Univ.) SAEKI, Akinori (14:40~15:00)

**4SB-14 Special Program Lecture** Sigma conjugated Polysilane; Surface, Chiral, and Exotic Selfassembly (Grad. Sch. Mat. Sci., NAIIST) NAITO, Masanobu (15:00~15:20)

Chair: NAKANISHI, Takashi (15:20~16:30)

**4SB-15 Special Program Lecture** Analysis of soft-materials' proper-

ties by nano-palpatation technique (WPI-AIMR, Tohoku Univ.) NAKAJIMA, Ken (15:20~15:45)

**4SB-16 Special Program Lecture** Development of Self-organized Materials Learning from a Variety of Biominerals (Fac. Sci. Tech., Keio Univ.) OAKI, Yuya (15:45~16:10)

**4SB-17 Special Program Lecture** What is necessary for commercialization of Exotic Self-Organized Materials? (FUJIFILM Corp. Frontier Core-Technology Lab.) NISHIMI, Taisei (16:10~16:30)

## Room SC

4th Bldg. Independence Wing D310

### Chemistry and Chemical Technology for Sustainable Society

Sunday, March 25, AM

Chair: HARA, Shigeki (9:30~12:30)

**1SC-01 Special Program Lecture** Promotion Activities of Green Sustainable Chemistry (GSC) (AIST) HARA, Shigeki (09:30~09:45)

**1SC-02 Special Program Lecture** Environmentally-friendly process for production of adamantane using a new solid acid catalyst (Idemitsu Kosan Co., Ltd.) SAITO, Masao; KOJIMA, Akio; HOSOTANI, Noriaki; KUSABA, Toshiaki; MASE, Jun (09:45~10:15)

**1SC-03 Special Program Lecture** Research & Development of Organic Radical Battery with Environmental Friendliness (NEC Corporation) IWASA, Shigeyuki (10:15~10:45)

**1SC-04 Special Program Lecture** Development of powder photocatalysts to produce solar hydrogen from water (Fac. Sci., Tokyo Univ. of Science) KUDO, Akihiko (10:45~11:15)

**1SC-05 Special Program Lecture** Development of New Environmentally Benign Process of Perfume Compound (Ube Industries, Ltd.) SUGISE, Ryoji; DOI, Takashi; SHIRAI, Masashi; YOSHIDA, Yoshihiro; SAJIKI, Eiji (11:15~11:45)

**1SC-06 Special Program Lecture** Development of block copolymers of polylactide and poly(propylene succinate) as bio-based hard and soft segments (Kyoto Institute of Technology) NISHIWAKI, Yasumasa; KIMURA, Yoshiharu (11:45~12:00)

**1SC-07 Special Program Lecture** AFM Observation of Poly lactides and Poly lactide Stereocomplex Crystals in thin Films (The Univ. of Tokyo) NOBUOKA, Toshihiro; IWATA, Tadahisa (12:00~12:15)

**1SC-08 Special Program Lecture** Structure Control and Acid Catalysis of Protonated Titanate Nanotube (MSL, Tokyo Tech) SAITO, Tatsuya; KITANO, Masaaki; NAKAJIMA, Kiyotaka; HARA, Michikazu (12:15~12:30)

## Room SJ

6th Bldg. 623

### JST-PRESTO International Joint Symposium on Photo-Science Leading to a Sustainable Society: Environment, Energy, Functional Materials

Monday, March 26, AM

(9:45~12:45)

**2SJ-01** Introductory Talk (JST) KITAZAWA, Koichi (09:45~10:00)

**2SJ-02 Plenary Lecture** How to encourage young scientists (Tokyo Univ. of Sci.) FUJISHIMA, Akira (10:00~10:40)

**2SJ-03<sup>#</sup>** Invitation to JST PRESTO Projects (Tokyo Univ. of Agri. and Technol.) MATSUNAGA, Tadashi (10:40~11:00)

**2SJ-04<sup>#</sup> Special Lecture** Genomics-Enabled Exploration of the Metabolic Secrets of Marine Diatoms (Ecole Normale Supérieure, FRANCE) Chris Bowler (11:00~11:40)

**2SJ-05<sup>#</sup>** Perspectives of research on increasing photosynthesis in cyanobacteria by overcoming the limitations of CO<sub>2</sub>-fixing enzyme, RuBisCO (Grad. Sch. of Biol. Sci., NAIST) ASHIDA, Hiroki (11:45~12:05)

**2SJ-06<sup>#</sup>** Photosystem reaction by using near infrared light (Tokyo Univ. of Sci.) TOMO, Tatsuya (12:05~12:25)

**2SJ-07<sup>#</sup>** Biofuel production in CO<sub>2</sub>-absorbing microalgae *Euglena gracilis* (Osaka Pref. Univ.) NAKAZAWA, Masami (12:25~12:45)

Monday, March 26, PM

(14:00~16:35)

**2SJ-08** Invitation to JST "PRESTO" and "CREST" Projects (14:00~14:15)

**2SJ-09<sup>#</sup>** Invitation to JST PRESTO Projects (NAIST) MASUHARA, Hiroshi (14:30~14:50)

**2SJ-10<sup>#</sup> Special Lecture** Multiscale, Superresolved, Ultrasensitive Optical Molecular Imaging (CNSI, UCLA) Shimon Weiss (14:50~15:35)

**2SJ-11<sup>#</sup>** In-situ Optical Observation for Elucidating Antifreeze Mechanism of Water by Proteins (Hokkaido Univ.) SAZAKI, Gen (15:35~15:55)

**2SJ-12<sup>#</sup>** Cell and micro-organism manipulations with photo-functional and photo-controllable proteins (NAGOYA Univ.) SUDO, Yuki (15:55~16:15)

**2SJ-13<sup>#</sup>** Time-dependent molecular orbital imaging with an soft-Xray laser pulse (WASEDA Univ.) NIKURA, Hiromichi (16:15~16:35)

Tuesday, March 27, AM

(10:00~12:05)

**3SJ-01<sup>#</sup>** Invitation to JST PRESTO Projects (Kyutech) HAYASE, Shuji (10:00~10:20)

**3SJ-02<sup>#</sup> Special Lecture** Novel Materials and Techniques for Producing Flexible Dye Sensitized Solar Cells on Plastic Substrates (Monash Univ.) Yi-Bing Cheng (10:20~11:05)

**3SJ-03<sup>#</sup>** Near-IR Dye Sensitization of Polymer Solar Cells (Kyoto Univ.) OHKITA, Hideo (11:05~11:25)

**3SJ-04<sup>#</sup>** Dynamics of Multiple Exciton Generation in PbS Quantum Dots (The Univ. of Electro-Communications) SHEN, Qing (11:25~11:45)

**3SJ-05<sup>#</sup>** Creation of new type solar cells using chalcopyrite phosphide semiconductors (Kyoto Univ.) NOSE, Yoshitaro (11:45~12:05)

Tuesday, March 27, PM

(13:30~16:10)

**3SJ-06<sup>#</sup>** Special Message "Tandem ZACA-Pd-Catalyzed Cross-Coupling as Widely Applicable and Selective Routes to Chiral Organic Compounds" (Purdue Univ.) NEGISHI, Eiichi (13:30~14:00)

**3SJ-07<sup>#</sup>** Invitation to JST PRESTO Projects (Tokyo Metropolitan Univ.) INOUE, Haruo (14:00~14:20)

**3SJ-08<sup>#</sup> Special Lecture** Bio-inspired Solar Energy Conversion (Arizona State Univ.) Devens Gust (14:20~15:05)

**3SJ-09<sup>#</sup>** Development of Large Photofunctional Porphyrin Arrays (Kyoto Univ.) ARATANI, Naoki (15:05~15:25)

**3SJ-10<sup>#</sup>** Biological methane production and anaerobic oxidation of methane (Max Planck Institute for Terrestrial Microbiology) SHIMA, Seigo (15:25~15:45)

**3SJ-11<sup>#</sup>** Development of visible-light-responsive photocatalyst systems toward solar hydrogen production (Hokkaido Univ.) ABE, Ryu (15:45~16:05)

**3SJ-12** Closing Remarks (The Univ. of Electro-Communications) IWASAWA, Yasuhiro (16:05~16:10)

## Room SK

11th Bldg. 11-31

### New Strategies to Green Chemistry

Sunday, March 25, PM

Chair: ONAKA, Makoto (13:30~16:30)

**1SK-01 Special Program Lecture** commentary on the project purpose (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ONAKA, Makoto (13:30~13:35)

**1SK-02 Special Program Lecture** Green Synthesis of Chemicals by Use of Zeolite Catalysts (Chem. Res. Lab., Tokyo Tech) TATSUMI, Takashi (13:35~14:30)

**1SK-03 Special Program Lecture** Development of Catalyst Technologies That Save Material Resources, Energy, and the Environment (Mitsui Chemicals Singapore R&D Centre, Pte. Ltd.) FUJITA, Terunori (14:30~15:25)

**1SK-04 Special Program Lecture** Immobilized Metal Catalysts for Green Chemistry (Sch. Sci., The Univ. of Tokyo) KOBAYASHI, Shu (15:35~16:30)

### Activation of Organic Molecules Directed Toward Straightforward Synthesis

Monday, March 26, PM

(13:30~13:40)

**2SK-01 Special Lecture** Introduction (Grad. Sch. Eng., Osaka Univ.) CHATANI, Naoto (13:30~13:40)

Chair: MASHIMA, Kazushi (13:40~14:40)

**2SK-02 Special Lecture** Transformation Reaction of Triazoles Triggered by Release of Molecular Dinitrogen (Grad. Sch. Eng., Kyoto Univ.)

MIURA, Tomoya (13:40~14:10)  
**2SK-03 Special Lecture** C-F Bond Activation of Tetrafluoroethylene on Group 10 Transition Metal and Application to Cross-Coupling Reactions (Grad. Sch. Eng., Osaka Univ.) OHASHI, Masato (14:10~14:40)

Chair: IWASAWA, Nobuharu (14 : 40~15 : 40)

**2SK-04 Special Lecture** Development of direct C-H bond functionalization reactions to achieve straightforward syntheses of highly functionalized molecules (Fac. Eng., Gifu Univ.) SHIBAHARA, Fumitoshi (14:40~15:10)

**2SK-05 Special Lecture** Hydroxylation of gaseous alkanes induced by the substrate misrecognition of Cytochrome P450BM3 (Grad. Sch. Sci., Nagoya Univ.) SHOJI, Osami (15:10~15:40)

Chair: MURAKAMI, Masahiro (15 : 40~16 : 40)

**2SK-06 Special Lecture** Development of carboxylation reactions via nucleophilic incorporation of a CO<sub>2</sub> unit (Grad. Sch. Sci., Eng., Tokyo Tech) KAYAKI, Yoshihito (15:40~16:10)

**2SK-07 Special Lecture** Catalytic direct transformations of C-O bonds in unreactive phenol derivatives (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru (16:10~16:40)

## Room B1

4th Bldg., Section B J14

New Energy Technologies towards the realization of more efficient and distributed Energy System

Tuesday, March 27, AM

Future Energy Storage Devices, and Systems

(9 : 20 ~ 9 : 30)

**3B1-03** Opening Remarks (Grad. Sch. Eng., Kyoto Univ.) ABE, Takeshi (09:20~09:30)

Chair: ABE, Takeshi (9 : 30 ~ 10 : 20)

**3B1-04 ATP Keynote Lecture** Lithium ion battery technology and the future society (Asahi Kasei Corporation) YOSHINO, Akira (09:30~10:20)

Chair: KATAYAMA, Yasushi (10 : 20~11 : 10)

**3B1-09 ATP Invited Lecture** Electrochemical Property of Carbon Single-Particle for Anode in Lithium Batteries (Grad. Sch. Eng., Yokohama Natl. Univ.) DOKKO, Kaoru (10:20~10:50)

**3B1-12<sup>o</sup> Oral C** Effect of heat treatment in recovering the capacity of frams-dellite-type lithium titanium oxide anode (Nippon Telegraph and Telephone Corporation) SETIAWATI, Elly; HAYASHI, Masahiko; HAYASHI, Katsuya; KOBAYASHI, Ryuichi (10:50~11:10)

Chair: DOKKO, Kaoru (11 : 10~11 : 40)

**3B1-14 ATP Invited Lecture** Dream to realize all solid-state battery - Development of lithium superionic conductor (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) KANNO, Ryoji (11:10~11:40)

Tuesday, March 27, PM

Chair: HAGIWARA, Rika (13 : 20~14 : 10)

**3B1-27 ATP Invited Lecture** Electrode reactions of rechargeable lithium batteries using ionic liquid electrolytes (Fac. Sci. Tech., Keio Univ.) KATAYAMA, Yasushi; ISHII, Mika; HORI, Yuki; MIURA, Takashi (13:20~13:50)

**3B1-30 Oral C** Large-scale Backup System with Nickel Metal Hydride Batteries (Nippon Telegraph and Telephone Corporation) TAKAHASHI, Keita; MIYASAKA, Akihiro; HAYASHI, Katsuya; KOBAYASHI, Ryuichi; SAITO, Keiichi; SHODAI, Takahisa (13:50~14:10)

Chair: KANNO, Ryoji (14 : 10~15 : 00)

**3B1-32 Oral C** Improvements of Electrochemical Properties of Air-Electrode Materials for Lithium-Air Batteries (NTT) HAYASHI, Masahiko; MINOWA, Hironobu; HAYASHI, Katsuya; KOBAYASHI, Ryuichi (14:10~14:30)

**3B1-34 ATP Invited Lecture** Rechargeable batteries using molten salts with low melting temperatures (Grad. Sch. Energy Sci., Kyoto Univ.; Sumitomo Electric Industry, Ltd.) HAGIWARA, Rika; NOHIRA, Toshiyuki; FUKUNAGA, Atsushi; SAKAI, Shoichiro; NITTA, Koji; INAZAWA, Shinji (14:30~15:00)

## Room B2

4th Bldg., Section B J24

Frontier Materials

Tuesday, March 27, AM

Photonics Materials for Next Generation

(9 : 20 ~ 9 : 30)

**3B2-03** Opening Remarks KOIKE, Yasuhiro (09:20~09:30)

Chair: MUROFUSHI, Hidenobu (9 : 30 ~ 10 : 20)

**3B2-04 ATP Keynote Lecture** Photonics Polymer for Face-to-Face Communication (Fac. Sci. Tech., Keio Univ.) KOIKE, Yasuhiro (09:30~10:20)

Chair: KOIKE, Yasuhiro (10 : 20~12 : 00)

**3B2-09 ATP Special Invited Lecture** Photonic Polymers for Next Generation Optical Interconnect Technology (IMRAM, Tohoku Univ.) SUGIHARA, Okihiro (10:20~11:00)

**3B2-13 ATP Invited Lecture** The World's Fastest Plastic Optical Fiber and Applications (ASAHI GLASS CO., LTD.) MUROFUSHI, Hidenobu (11:00~11:30)

**3B2-16 ATP Invited Lecture** Development of Graded Index Type Plastic Optical Fiber with Partially Chlorinated Polymer (Urban Infrastructure & Environmental Products Company, SEKISUI CHEMICAL CO., LTD; Science and Technology Keio Univ.) NAKAO, Ryosuke (11:30~12:00)

Tuesday, March 27, PM

Chair: SUGIHARA, Okihiro (13 : 00~14 : 20)

**3B2-25 ATP Special Invited Lecture** Liquid Crystalline Optical Film (JX Nippon Oil & Energy Corporation) MAZAKI, Hitoshi (13:00~13:40)

**3B2-29 ATP Special Invited Lecture** Optical Compensation Films for LCDs : Material Design and Latest trends (KANEKA TECHNO RESEARCH CO., LTD.) FUJII, Sadao; KAWABATA, Hirotsuke (13:40~14:20)

Chair: TAGAYA, Akihiro (14 : 20~15 : 30)

**3B2-33 ATP Special Invited Lecture** Development of ArF lithography and nanoimprint materials by using living ROMP catalysts (Mitsui Chemicals, Inc. New Materials Development Center) SUNAGA, Tadahiyo (14:20~15:00)

**3B2-37 ATP Invited Lecture** Vector wave recording and a polarization sensitive material (AIST; Utsunomiya Univ.) FUKUDA, Takashi; BARADA, Daisuke (15:00~15:30)

Chair: KOIKE, Yasuhiro (15 : 30~15 : 50)

**3B2-40 Oral C** Specific Optical Properties of Skewed Dinaphthothiophene Derivatives (Kanagawa Univ.; Sugai Chemical Industry Co.Ltd) NAMBU, Yoko; TADA, Yukihiro; NISHIKUBO, Tadatomio; HONDA, Junya; OKADA, Kosuke; TACHIBANA, Satoshi (15:30~15:50)

## Room C1

4th Bldg. Independence Wing DB201

Advanced Electronic Materials

Monday, March 26, AM

Printed Electronics

(9 : 50 ~ 10 : 00)

**2C1-06** Opening Remarks (ISIR, Osaka Univ.) SUGANUMA, Katsuaki (09:50~10:00)

Chair: SUGANUMA, Katsuaki (10 : 00~12 : 00)

**2C1-07 ATP Special Invited Lecture** Organic Electronics Material and CEREBAs (CEREBAs) TOMIYASU, Hiroshi (10:00~10:40)

**2C1-11 Oral C** Preparation of PEDOT-SiO<sub>2</sub> Composites and Their Application to Transparent Conductive Films with High Mechanical Strength (Hiroshima Univ.; Kuraray Co., Ltd.) IMAE, Ichiro; NAKAMURA, Yuto; KOMAGUCHI, Kenji; OOSHITA, Joji; MORIHARA, Yasushi; SUGIOKA, Takashi; HARIMA, Yutaka (10:40~11:00)

- 2C1-13 Oral C** Formation of Conductive Thin Film through Laser Annealing of Sumanene Derivative (Osaka Univ.) AMAYA, Toru; INADA, Yuhi; SAEKI, Akinori; SEKI, Shuhei; HIRAO, Toshikazu (11:00~11:20)
- 2C1-15 ATP Special Invited Lecture** Production Technology of Organic Photovoltaics (RCAST, The Univ. of Tokyo) SEGAWA, Hiroshi (11:20~12:00)

### Monday, March 26, PM

Chair: NAKAJIMA, Atsushi (14:30~16:30)

- 2C1-34 ATP Special Invited Lecture** Materials and transistors of solution-processed organic semiconductor thin films (ISIR, Osaka Univ.) TAKEAYA, Jun-Ichi (14:30~15:10)
- 2C1-38 ATP Special Invited Lecture** Low-temperature fabrication technology for solution-processed organic transistors (Yamagata Univ.) TOKITO, Shizuo (15:10~15:50)
- 2C1-42 Oral C** Screen printing for sub-10 micron feature size Ag circuit (Department of Applied Chemistry, Osaka Prefecture Univ.) OKAMURA, Haruyuki; MURAMATSU, Keiko; NAKAJIRI, Hideyuki; SHIRAI, Masamitsu (15:50~16:10)
- 2C1-44 Oral C** Simple, Low-cost, High-yield, and Low-carbon Synthesis of Room-temperature Sintering Silver Nanoparticles via the Thermal Decomposition of the Oxalate-bridging Silver Alkylamine Complexes (Yamagata Univ.) KURIHARA, Masato (16:10~16:30)

Chair: SUGANUMA, Katsuaki (16:30~17:10)

- 2C1-46 Oral C** Fabrication of Conductive Wiring Pattern Using Copper Nanoparticles Inkjet Ink and Plasma Sintering Process (Dai Nippon Printing Co., Ltd; Nano Science Research Center) YOSHI, Naonobu; MATSUMOTO, Kisei; OMORI, Yoshinobu; HOJO, Mikiko (16:30~16:50)
- 2C1-48 Oral C** TEM observation of sintering behavior Cu particles (Hokkaido Univ.) YONEZAWA, Tetsu; NARUSHIMA, Takashi (16:50~17:10)

### Tuesday, March 27, AM

#### Plain Paper Electronic Paper

(9:00~9:10)

- 3C1-01** Opening Remarks (Sch. Eng., Tokai Univ.) MAEDA, Shuichi (09:00~09:10)

Chair: OZAWA, Shinji (9:10~10:20)

- 3C1-02 ATP Special Invited Lecture** Potentials of Paper Media as viewed from Human Interface (The Univ. of Tokyo) ONABE, Fumihiko (09:10~09:50)
- 3C1-06 ATP Invited Lecture** Paper vs. electronic media: Work efficiency and environmental impact in reading (Fuji Xerox Co., Ltd.) SHIBATA, Hirohito (09:50~10:20)

#### Colorization of Electronic Paper

Chair: HIGUCHI, Masayoshi (10:20~12:00)

- 3C1-09 ATP Invited Lecture** Color perception on images (Grad. Sch. Adv. Integration Sci., Chiba Univ.) MIZOKAMI, Yoko (10:20~10:50)
- 3C1-12 ATP Invited Lecture** Full-Color Electrochromic Display (RICOH, Ltd.) HIRANO, Shigenobu; YASHIRO, Tooru; NAIJOH, Yoshihisa; OKADA, Yoshinori; TSUJI, Kazuaki; KIM, Sukchan; TAKAHASHI, Hiroyuki; FUJIMURA, Koh; KONDOH, Hitoshi (10:50~11:20)
- 3C1-15 Oral C** Electrochemically Driven Reflective-Emissive Dual-mode Display Device by Using Electrochromic Material Modified Electrode (Graduate School of Advanced Integration Science, Chiba Univ.) IBATA, Yuki; WATANABE, Yuichi; NAKAMURA, Kazuki; KOBAYASHI, Norihisa (11:20~11:40)
- 3C1-17 Oral C** Novel display media with dual emission and coloration by using thermochromic molecule and luminescent lanthanide(III) complex. (Graduate School of Advanced Integration Science, Chiba Univ.) KOBAYASHI, Yukino; KANAZAWA, Kenji; NAKAMURA, Kazuki; KOBAYASHI, Norihisa (11:40~12:00)

### Tuesday, March 27, PM

#### Application of Electronic Paper (Digital Signage for Disaster Prevention)

Chair: MAEDA, Shuichi (13:30~15:00)

- 3C1-28 ATP Invited Lecture** Proposal for "On Site Visualization" and expectation for new materials and technologies (Grad. Sch. Eng., Kobe Univ.) AKUTAGAWA, Shinichi (13:30~14:00)
- 3C1-31 ATP Invited Lecture** Use of the electronic paper for civil signs (CTI Engineering Co., Ltd.) NOMURA, Mitsugu; AKUTAGAWA, Shinichi (14:00~14:30)
- 3C1-34 ATP Invited Lecture** E-paper Signage (Dai Nippon Printing Co., Ltd.) KOBAYASHI, Hironori (14:30~15:00)

## Room C2

### 4th Bldg. Independence Wing DB202

### Advanced Electronic Materials

#### Tuesday, March 27, AM

##### Display

(9:10~9:20)

- 3C2-02** Opening Remarks (Grad. Sch. Eng., Nagoya Univ.) MORI, Tatsuo (09:10~09:20)

Chair: MORI, Tatsuo (9:20~11:50)

- 3C2-03 ATP Special Invited Lecture** Development and Application of Large size Tiled Display with OLED (Mitsubishi Electric Corporation.) HARA, Zenichiro; TERASAKI, Nobuo (09:20~10:00)
- 3C2-07** Incubation Time (10:00~10:10)
- 3C2-08 ATP Special Invited Lecture** National Project "Development of Basic Technology for Next Generation Large Screen Size OLED Display" (NEDO Project) URABE, Tetsuo (10:10~10:50)
- 3C2-12** Incubation Time (10:50~11:00)

##### Materials

- 3C2-13 ATP Special Invited Lecture** Recent progress on polymer-OLED materials (Sumitomo Chemical Co., Ltd.) YAMADA, Takeshi (11:00~11:40)
- 3C2-17** Incubation Time (11:40~11:50)

#### Tuesday, March 27, PM

##### Analysis

Chair: TAKADA, Noriyuki (13:00~14:20)

- 3C2-25 ATP Invited Lecture** Application of Fluorinated Self-Assembled Monolayer to Organic Light-Emitting Diodes (Grad. Sch. Eng., Nagoya Univ.) MORI, Tatsuo (13:00~13:30)
- 3C2-28** Incubation Time (13:30~13:40)
- 3C2-29 ATP Invited Lecture** Organic LEDs: The amorphous aggregated structure and the device performance (ICR, Kyoto Univ.) KAJI, Hironori; FUKUSHIMA, Tatsuya; FUKUCHI, Masashi; KOMINO, Tsuyoshi; ADACHI, Chihaya (13:40~14:10)
- 3C2-32** Incubation Time (14:10~14:20)

Chair: YOKOYAMA, Daisuke (14:20~15:40)

- 3C2-33 ATP Invited Lecture** Nondestructive Interface Evaluation by Optical Simulation (AIST) TAKADA, Noriyuki (14:20~14:50)
- 3C2-36** Incubation Time (14:50~15:00)
- 3C2-37 ATP Invited Lecture** Direct measurement of back energy transfer in blue phosphorescent system (CBP/FIrpic) by time-resolved optical waveguide spectroscopy (FUJIFILM Corp.; Tohoku Univ.) HIRAYAMA, Heijiro; SUGAWARA, Yoshihiro; FUJIMURA, Hidetoshi; MIYASHITA, Yosuke; MITSUISHI, Masaya; MIYASHITA, Tokuji (15:00~15:30)
- 3C2-40** Incubation Time (15:30~15:40)

### Wednesday, March 28, AM

Chair: KAJI, Hironori (9:30~11:50)

- 4C2-04 ATP Keynote Lecture** Novel Organic Semiconductors for OLEDs (OPERA, Kyushu Univ.) ADACHI, Chihaya (09:30~10:20)
- 4C2-09** Incubation Time (10:20~10:30)

##### Materials

- 4C2-10 ATP Invited Lecture** Molecular orientation in OLEDs-Beyond the simple discussion on single molecules- (Grad. Sch. Sci., Eng., Yamagata Univ.) YOKOYAMA, Daisuke (10:30~11:00)
- 4C2-13** Incubation Time (11:00~11:10)
- 4C2-14 ATP Invited Lecture** Deposition of High quality ITO Thin Films on Plastic Substrates (Sanyo Vacuum Industries Co., Ltd.) OGAWA, Soh-ichi (11:10~11:40)
- 4C2-17** Incubation Time (11:40~11:50)

### Wednesday, March 28, PM

##### Lighting

Chair: ADACHI, Chihaya (13:00~15:00)

- 4C2-25 ATP Invited Lecture** Organic EL for general lighting~Current State of Development of Organic EL Lighting~ (NEC Lighting, Ltd.)



- KAWASHIMA, Yasuki (13:00~13:30)  
**4C2-28** Incubation Time (13:30~13:40)  
**4C2-29** ATP Invited Lecture Development of All Phosphorescent OLED Product for Lighting Application (Konica Minolta Technology Center, Inc.) FURUKAWA, Keiichi; TSUJIMURA, Takatoshi (13:40~14:10)  
**4C2-32** Incubation Time (14:10~14:20)  
**4C2-33** ATP Invited Lecture OLED Lighting panel with wet processed active layers (Showa Denko K.K.) KONDO, Kunio (14:20~14:50)  
**4C2-36** Incubation Time (14:50~15:00)

**Room C3**  
 4th Bldg. Independence Wing DB203

**New Energy Technologies towards the realization of more efficient and distributed Energy System**

Monday, March 26, AM

**Fuel Cells Hydrogen Energy Technology**

- Chair: MITSUSHIMA, Shigenori (10:00~11:50)
- 2C3-07** Opening Remarks (Kyushu Univ.) SASAKI, Kazunari (10:00~10:10)  
**2C3-08** ATP Keynote Lecture Progress and Challenges for TOYOTA's Fuel Cell Vehicle Development (TOYOTA MOTOR CORPORATION) KAWAI, Taiyo (10:10~11:00)  
**2C3-13** ATP Special Invited Lecture Toward FCV/H2 Infrastructure Deployment (The Research Association of Hydrogen Supply/Utilization Technology) YOSHIDA, masahiro (11:00~11:40)  
**2C3-17** Incubation Time (11:40~11:50)

Monday, March 26, PM

- Chair: MIYATAKE, Kenji (15:00~17:30)
- 2C3-37** ATP Special Invited Lecture Development of photocatalysts for water splitting using solar energy (Sch. Eng., The Univ. of Tokyo) DOMEN, Kazunari (15:00~15:40)  
**2C3-41** ATP Invited Lecture Water electrolysis technology for renewable energies (Grad. Sch. Eng., Yokohama Natl. Univ.) MITSUSHIMA, Shigenori; TAKAHASHI, Ken-ichi; ICHIKAWA, Hiroki; MATSUZAWA, Koichi (15:40~16:10)  
**2C3-44** ATP Invited Lecture Solid Oxide Fuel Cells and Steam Electrolysis Using Nano Structure Controlled Materials (Fac. Eng., Kyushu Univ.) ISHIIHARA, Tatsumi (16:10~16:40)  
**2C3-47** Incubation Time (16:40~16:50)  
**2C3-48** Oral C Synthesis of Novel Anion Conductive Membranes by Radiation-Induced Grafting: Basicity Effect (Japan Atomic Energy Agency; Daihatsu Motor Co., Ltd) YOSHIMURA, Kimio; SINANANWANICH, Warapon; KOSHIKAWA, Hiroshi; YAMAKI, Tetsuya; MAEKAWA, Yasunari; YAMAMOTO, Kazuya; SHISHITANI, Hideyuki; ASAZAWA, Koichiro; YAMAGUCHI, Susumu; TANAKA, Hirohisa (16:50~17:10)  
**2C3-50<sup>#</sup>** Oral C Hierarchical structure-property analysis of ETFE-based graft-type polymer electrolyte membranes (Japan Atomic Energy Agency) TRAN, Tap; SAWADA, Shin-ichi; HASEGAWA, Shin; YOSHIMURA, Kimio; OBA, Yojiro; ONUMA, Masato; KATSUMURA, Yosuke; MAEKAWA, Yasunari (17:10~17:30)

Tuesday, March 27, AM

**Fuel Cells Hydrogen Energy Technology**

- Chair: ISHIIHARA, Tatsumi (9:20~11:00)
- 3C3-03** ATP Keynote Lecture Latest Trends in the "Ene-Farm" Residential Fuel Cell Industry and Latest Status of its Development (Panasonic Corporation) SHIMIZU, Toshiki (09:20~10:10)  
**3C3-08** ATP Special Invited Lecture Development of Highly Active Platinum Catalysts for Polymer Electrolyte Fuel Cells (Fac. Sci. Eng., Doshisha Univ.) INABA, Minoru; DAIMON, Hideo; SAITO, Morihiro; TASAKA, Akimasa (10:10~10:50)  
**3C3-12** Incubation Time (10:50~11:00)
- Chair: INABA, Minoru (11:00~12:00)
- 3C3-13** ATP Invited Lecture R&D of Perfluorinated ionomer material for PEFC without humidifiers (Asahi Kasei E-materials Corporation) MIYAKE, Naoto (11:00~11:30)  
**3C3-16** ATP Invited Lecture Challenge to Novel Polymer Electrolyte Membranes for High Performance Fuel Cells (Clean Energy Research Center Univ. of Yamanashi) MIYATAKE, Kenji (11:30~12:00)

Tuesday, March 27, PM

- Chair: MIYAKE, Naoto (13:00~15:40)
- 3C3-25** ATP Special Invited Lecture Development of Solid Oxide Fuel Cell System at 「JX」 Nippon Oil & Energy Corporation (JX Nippon Oil & Energy Corporation) NANJOU, Atsushi (13:00~13:40)  
**3C3-29** ATP Special Invited Lecture Future Concept and Current Status for SOFC Triple Combined Cycle System (Mitsubishi Heavy Industries, Ltd.) KOBAYASHI, Yoshinori (13:40~14:20)  
**3C3-33** Incubation Time (14:20~14:30)  
**3C3-34** ATP Invited Lecture Duability of SOFCs and Evaluation Methods (ETRI, AIST) HORITA, Teruhisa (14:30~15:00)  
**3C3-37** Oral C kW-class SOFC Stack with Anode Supported Cells (NTT Energy and Environment Systems Laboratories) HAYASHI, Katsuya; YOKOO, Masayuki; YOSHIDA, Yoshiteru; MIYASAKA, Akihiro; KOBAYASHI, Ryuichi (15:00~15:20)  
**3C3-39** Oral C Discharge property of Fe-air rechargeable battery using LaGaO<sub>3</sub> based oxide for solid electrolyte (Kyushu Univ.) ATSUSHI, Inoishi; IDA, Shintaro; ISHIIHARA, Tatsumi; URATANI, Shoichi; OKANO, Takayuki (15:20~15:40)

**Room C4**  
 4th Bldg. Independence Wing D101

**ATP Special Panel Discussion**

Monday, March 26, PM

- (13:00~14:30)
- 2C4-25** Panel Discussion Contribution of Chemistry to New Energies : Panelist: IHARA, Masaru; OKAZAKI, Hajime; SASAKI, Kazunari; SEGAWA, Hiroshi; YUKAWA, Hideaki, Cordinator: KITAZAWA, Koichi (13:00~14:30)

**New Energy Technologies towards the realization of more efficient and distributed Energy System**

**Next Generation Photovoltaic Technologies**

- (14:40~14:50)
- 2C4-35** Opening Remarks (RCAST, The Univ. of Tokyo) SEGAWA, Hiroshi (14:40~14:50)
- Chair: MIYASAKA, Tsutomu (14:50~15:30)
- 2C4-36** ATP Special Invited Lecture Approach to high efficiency-dye-sensitized solar cells (Kyutech) HAYASE, Shuji (14:50~15:30)

- Chair: TOYODA, Taro (15:30~16:30)
- 2C4-40** ATP Invited Lecture Development of Near-IR absorbing Dyes for Dye-sensitized Solar Cells (Shinshu Univ.) KIMURA, Mutsumi (15:30~16:00)  
**2C4-43** ATP Invited Lecture R&D on dyes toward highly efficient solar cells (AIST) SUGIHARA, Hideki (16:00~16:30)

- Chair: SUGIHARA, Hideki (16:30~17:30)
- 2C4-46** ATP Invited Lecture Improvement of the Performance of Dye-sensitized Solar Cells by using Organosilicon Dyes (Gunma Univ.) KAKIAGE, Kenji; KYOMEN, Toru; UNNO, Masafumi; HANAYA, Minoru (16:30~17:00)  
**2C4-49** ATP Invited Lecture Photosensitization and photovoltaic properties of CdSe quantum dots adsorbed on inverse opal TiO<sub>2</sub> electrodes (Univ. of Electro-Communications) TOYODA, Taro; SHEN, Qing (17:00~17:30)

Tuesday, March 27, AM

**Next Generation Photovoltaic Technologies**

- Chair: KATOH, Ryuzi (9:00~10:00)
- 3C4-01** ATP Invited Lecture Design of Organic Polymers and Devices for Power Generation and Storage (Waseda Univ.) OYAIZU, Kenichi; NISHIDA, Hiroyuki (09:00~09:30)  
**3C4-04** ATP Invited Lecture Development of Photo-rechargeable Cell "Photocapacitor" ; HighPerformance of Ionic Liquid-based Cells (Grad. Sch. Eng., Toin Univ. of Yokohama) MIYASAKA, Tsutomu; INA, Hayato; IKEGAMI, Masashi (09:30~10:00)

- Chair: BENTEN, Hiroaki (10:00~11:10)
- 3C4-07** Oral C Miscibility and carrier mobility of a binary system of

columnar liquid crystals (AIST-Kansai) SHIMIZU, Yo; MATSUDA, Yukimasa; NEKELSON, Fabien; MONOBE, Hiroso; YOSHIDA, Hiroyuki; FUJII, Akihiko; OZAKI, Masanori (10:00~10:20)

**3C4-09 Oral C** Thermal and Electronic Properties of non-peripheral Octahexylphthalocyanine/PCBM Binary Mixtures for Efficient Solar Cell (AIST-Kansai) NEKELSON, Fabien; MIYAMOTO, Kouji; MIYAKE, Yasuo; MONOBE, Hiroso; HORI, Tetsuro; YOSHIDA, Hiroyuki; FUJII, Akihiko; OZAKI, Masanori; SHIMIZU, Yo (10:20~10:40)

**3C4-11 ATP Invited Lecture** Conjugated Polymers Based on Quinoxaline for Polymer Solar Cells (TORAY INDUSTRIES, INC.) KITAZAWA, Daisuke; WATANABE, Nobuhiro; YAMAMOTO, Shuhei; TSUKAMOTO, Jun (10:40~11:10)

Chair: HASHIMOTO, Kazuhito (11:10~11:50)

**3C4-14 ATP Special Invited Lecture** New Developments in Thin-film Organic OPV Research (Grad. Sch. Sci., The Univ. of Tokyo) NAKAMURA, Eiichi (11:10~11:50)

## Tuesday, March 27, PM

Chair: SEGAWA, Hiroshi (12:50~13:40)

**3C4-24 ATP Keynote Lecture** Strategic Approach toward Global Energy Solution by Photovoltaic Technology (SSR, Tokyo Tech) KUROKAWA, Kosuke (12:50~13:40)

Chair: MORI, Shogo (13:40~14:30)

**3C4-29 ATP Invited Lecture** Energy Harvesting System with Dye Sensitized Solar Cell (LAPIS Semiconductor Co., Ltd.) WATANABE, Minoru (13:40~14:10)

**3C4-32 Oral C** Photovoltaic performances of bottom electrode for tandem dye-sensitized solar cells (Kyushu Institute of Technology) SADAMASU, Kengo; PARK, Byung wook; OGOMI, Yuhei; PANDEY, Syam Sudhir; MIYAMOTO, Akari; FUJITA, Shinsuke; HAYASE, Shuzi (14:10~14:30)

Chair: UCHIDA, Satoshi (14:30~15:40)

**3C4-34 Oral C** Improvement in Performance of Plastic Dye-sensitized Solar Cells with Wet Coating TiO<sub>x</sub> Buffer Layer on ITO-PEN film (Pecell Technologies, Inc.; Toin Univ. of Yokohama) KOJIMA, Akihiro; KOGURE, Hideo; IKEGAMI, Masashi; MIYASAKA, Tsutomu (14:30~14:50)

**3C4-36 Oral C** Design of Bi-facial Plastic Film Type Dye-sensitized Solar Cell Modules (Pecell Technologies, Inc; Toin Univ. of Yokohama) IKEGAMI, Masashi; TESHIMA, Kenjiro; MIYASAKA, Tsutomu (14:50~15:10)

**3C4-38 ATP Invited Lecture** New proposal for photovoltaic technology from plastic Dye-sensitized Solar Cells research (NTT Facilities Research Institute) OHTA, Kenichi; HIRAOKA, Masami (15:10~15:40)

## Wednesday, March 28, AM

### Next Generation Photovoltaic Technologies

Chair: IKEGAMI, Masashi (9:00~10:30)

**4C4-01 ATP Invited Lecture** Organic Photovoltaic Cells Based on Surface Complexes Formed of Titanium Dioxide and Dicyanomethylene Compounds (Univ. of Tokyo) FUJISAWA, Jun-ichi; TANI, Shigeyuki; NAGATA, Morio; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi (09:00~09:30)

**4C4-04 ATP Invited Lecture** Time-resolved spectroscopic study on primary processes in dye-sensitized solar cells (Nihon Univ.) KATOH, Ryuzi (09:30~10:00)

**4C4-07 ATP Invited Lecture** Methods to retard charge recombination in dye-sensitized solar cells (Shinshu Univ.) MORI, Shogo (10:00~10:30)

Chair: TESHIMA, Kenjiro (10:30~12:00)

**4C4-10 ATP Invited Lecture** Electron Transport Mechanism of High Performance Nano-Clay Electrolyte for Dye-Sensitized Solar Cells (Univ. of Tokyo) UCHIDA, Satoshi; ITO, Bruno Ieiri; KUBO, Takaya; SEGAWA, Hiroshi (10:30~11:00)

**4C4-13 ATP Invited Lecture** Improvement of Linear Sulfone Electrolytic Solution for Dye-sensitized Solar Cells (Japan Carlit) YANADA, Kazato; CHIBA, Kazumi (11:00~11:30)

**4C4-16 ATP Invited Lecture** Electrolyte Development for the Dye-Sensitized Solar Cell (Merck Ltd.) KAWATA, Kentaro; YOSHIZAKI, Hiroki; GOTO, Tomohisa; KATO, Kazuhiro; RENKER, Sabine (11:30~12:00)

## Wednesday, March 28, PM

Chair: HAYASE, Shuji (13:00~14:20)

**4C4-25 ATP Keynote Lecture** Super High Efficiency Solar Cells for Large-Scale Power Generation Systems (Toyota Tech. Inst.) YAMAGUCHI, Masafumi (13:00~13:50)

**4C4-30 ATP Invited Lecture** Development of Panchromatic Dye-sensitized Solar Cells (RCAST, The Univ. of Tokyo) SEGAWA, Hiroshi (13:50

~14:20)

Chair: KUBO, Takaya (14:20~15:20)

**4C4-33 ATP Invited Lecture** Bandgap Science for Organic Thin-film Solar Cells (IMS) HIRAMOTO, Masahiro (14:20~14:50)

**4C4-36 ATP Invited Lecture** Near-IR Dye Sensitization of Polymer/Fullerene Solar Cells (Grad. Sch. Eng., Kyoto Univ.) OHKITA, Hideo; HONDA, Satoshi; YOKOYA, Seiichiro; BENTEN, Hiroaki; ITO, Shinzaburo (14:50~15:20)

(15:30~17:00)

**4C4-40 Panel Discussion** Present Status and Next Challenge of Organic Photovoltaics: Panelist: YAMAGUCHI, Masafumi; HAYASE, Shuji; MIYASAKA, Tsutomu; HIRAMOTO, Masahiro, Coordinator: SEGAWA, Hiroshi (15:30~17:00)

# Room C5

## 4th Bldg. Independence Wing D201

### Innovative Technologies for Environment and Natural Resources

Monday, March 26, AM

### Innovative Technologies for Energy and Resource Conservation

(9:30~9:40)

**2C5-04** Opening Remarks (Chem. Res. Lab., Tokyo Tech) TATSUMI, Takashi (09:30~09:40)

Chair: TATSUMI, Takashi (9:40~10:30)

**2C5-05 ATP Keynote Lecture** Chemical Technologies to Improve the Sustainability of Human Society and Earth (The KAITEKI Institute) TANAKA, Eiji (09:40~10:30)

Chair: TANAKA, Eiji (10:30~11:10)

**2C5-10 ATP Special Invited Lecture** Application of particle bonding for energy-saving and material recycling (JWRI, Osaka Univ.) NAITO, Makio; ABE, Hiroya; KONDO, Akira (10:30~11:10)

Chair: SEKO, Shinzo (11:10~11:50)

**2C5-14 Oral C** Homogeneous Hydration Catalysts for the Production of Acrylamide (Okayama Univ.) OSHIKI, Toshiyuki; KAWAKAMI, Yukiko; MURANAKA, Makoto (11:10~11:30)

**2C5-16 Oral C** Development of CO<sub>2</sub> adsorbent based on metal oxide (Hitachi, Ltd. Hitachi Research Laboratory) YOSHIKAWA, Kohei; SATO, Hiroki; KANEEDA, Masato; KANNO, Shuichi; NOMURA, Junko (11:30~11:50)

## Monday, March 26, PM

Chair: KITANO, Akihiko (14:50~15:30)

**2C5-36 ATP Special Invited Lecture** The high-clear and high-heat shield window film with the wavelength selectivity (Sumitomo 3M Limited) IGARASHI, Maya; HASHIMOTO, Kazuhiro; TSUJI, Hiroshi (14:50~15:30)

Chair: IGARASHI, Maya (15:30~16:10)

**2C5-40 ATP Special Invited Lecture** R&D of Carbon Composites for Aerospace and Automotive Applications (Toray Industries, Inc.) KITANO, Akihiko (15:30~16:10)

Chair: INOUE, Kenji (16:10~17:00)

**2C5-44 ATP Invited Lecture** Development of Chlor-Alkali Electrolysis Using a Gas Diffusion Electrode (KANEKA CORPORATION) SUGIYAMA, Mikihiro (16:10~16:40)

**2C5-47 Oral C** Fluorine storage properties of Single Wall Carbon Nanohorns - 1 (Shinshu Univ.; Daikin; Meijo Univ.; Nagoya Univ.; Taiyounissan) HATTORI, Yoshiyuki; YAMAMOTO, Koudai; YANAGISAWA, Shinji; ETOU, Yuusuke; ISOGAI, Tomohiro; ITANO, Mitsushi; BANDOW, Shunji; YAMAGUCHI, Takashi; IJIMA, Sumio; SATOU, Takayuki; KOBAYASHI, Yoshihiko; TADA, Masuo; TOUHARA, Hidekazu (16:40~17:00)

## Tuesday, March 27, AM

### Strategy of Materials Developments under a Limitation of Mineral Resources

(9:30~9:40)

**3C5-04** Opening Remarks (IIS, The Univ. of Tokyo) OKABE, Toru (09:30~09:40)

Chair: TADA, Keishi (9:40~11:00)

- 3C5-05 ATP Special Invited Lecture** Development of the Recycling Technologies for Rare Metals (AIST) TANAKA, Mikiya (09:40~10:20)  
**3C5-09 ATP Special Invited Lecture** The energy and the material strategy considered from Nd magnet (Shin-Etsu Chemical Co., Ltd. Magnetic Materials Research Center) MINOWA, Takehisa (10:20~11:00)

Chair: OKABE, Tohru (11:00~11:50)

- 3C5-13 ATP Keynote Lecture** NdFeB magnets and environmental and natural resources technology (Intermetallics Co., Ltd.) SAGAWA, Masato (11:00~11:50)

## Tuesday, March 27, PM

(12:50~13:50)

- 3C5-24 Panel Discussion** Strategy of Materials Developments under a Limitation of Mineral Resources: Panelist: SAGAWA, Masato; TANAKA, Mikiya; MINOWA, Takehisa; TAKEDA, Osamu, Coordinator: OKABE, Toru H. (12:50~13:50)

Chair: HORI, Hisao (13:50~15:50)

- 3C5-30 ATP Special Invited Lecture** Materials processing on rare earth halides (Grad. Sch. Eng., Kyoto Univ.) UDA, Tetsuya (13:50~14:30)  
**3C5-34 ATP Special Invited Lecture** Recycling of rare earth magnet alloy by refining with molten fluoride (Tohoku Univ.) TAKEDA, Osamu; NAKANO, Kiyotaka; SATO, Yuzuru (14:30~15:10)  
**3C5-38 Oral C** Arsenic Detoxification by TiO<sub>2</sub> Photo-catalyst and Rare-metal Recycling (Nippon Sheet Glass Co.Ltd) NAKAMURA, Koichiro; YAMAUCHI, Hiroshi (15:10~15:30)  
**3C5-40 Oral C** Bacteria-associated inorganic/organic hybrid materials (Graduate School of Natural Science and Technology, Okayama Univ.) HASHIMOTO, Hideki; ASAOKA, Hiroshi; KUSANO, Yoshihiro; KUNOH, Hitoshi; IKEDA, Yasunori; SENO, Masaharu; NAKANISHI, Makoto; FUJII, Tatsuo; TAKADA, Jun (15:30~15:50)

# Room C6

4th Bldg. Independence Wing D202

## Diversity and Permanency of Fine Patterning Technology

Monday, March 26, AM

### Nanoimprint

(9:30~9:40)

- 2C6-04** Opening Remarks (Univ. of Hyogo) MATSUI, Shinji (09:30~09:40)

Chair: MATSUI, Shinji (9:40~11:50)

- 2C6-05 ATP Keynote Lecture** New Developments of Nanoimprint (LASTI, Univ. of Hyogo) MATSUI, Shinji (09:40~10:30)  
**2C6-10 ATP Special Invited Lecture** Nanoimprint Process for High Brightness LED (TOSHIBA MACHINE CO., LTD.) GOTO, Hiroshi (10:30~11:10)  
**2C6-14 ATP Special Invited Lecture** Roll photo-nanoimprinting of moth-eye none-reflectionfilms (MITSUBISHI RAYON CO., LTD.) UOZU, Yoshihiro (11:10~11:50)

Monday, March 26, PM

Chair: NAKAGAWA, Masaru (13:10~14:40)

- 2C6-26 ATP Special Invited Lecture** Progress of Imprint Lithography for Semiconductor Device Manufacturing (Molecular Imprints, Inc.) WADA, Hideyuki (13:10~13:50)  
**2C6-30 ATP Special Invited Lecture** Process kinetics and simulation in nanoimprint (Grad. Sch. Eng., Osaka Pref. Univ.) HIRAI, Yoshihiko (13:50~14:30)  
**2C6-34** Incubation Time (14:30~14:40)

Chair: HIRAI, Yoshihiko (14:40~16:30)

- 2C6-35 ATP Special Invited Lecture** Control of interfacial functions by molecules in UV nanoimprinting (IMRAM, Tohoku Univ.) NAKAGAWA, Masaru (14:40~15:20)  
**2C6-39 ATP Invited Lecture** Nanoimprint Materials (Daicel Corporation.) YUKAWA, Takao; MIYAKE, Hiroto (15:20~15:50)  
**2C6-42 ATP Special Invited Lecture** UV Nanoimprint (MEMSME, AIST; JST-CREST) HIROSHIMA, Hiroshi (15:50~16:30)

## A leap ahead with Challenging Biochemicals

Tuesday, March 27, PM

Chair: SUGAI, Takeshi (13:00~13:40)

- 3C6-25 Oral C** Ultra-sensitive detection of microbial cellulolytic activity using nanofibrous cellulose (JAMSTEC) TSUDOME, Mikiko; DEGUCHI, Shigeru; NABATA, Ryusuke; ITO, Susumu; HORIKOSHI, Koki (13:00~13:20)  
**3C6-27<sup>#</sup> Oral C** Innate immune modulators in fermented foods (Grad. Sch. of Sci., Osaka Univ.; Grad. Sch. of Sci. & Eng., Kagoshima Univ.; Fukuyama Bussan Co., Ltd.; Taste & Aroma Strategic Research Institute Co., Ltd.) PRADIPTA, Ambara Rachmat; FUJIMOTO, Yukari; HASHIMOTO, Masahito; KAN, Shintaro; SHIGEHISA, Hiroshi; FUKASE, Koichi (13:20~13:40)

Chair: KONOIKE, Toshiro (13:40~15:20)

- 3C6-29 ATP Keynote Lecture** Integrated Medicinal Science Based on Biomolecules (Nagahama Institute of Bio-Science and Technology) KISO, Yoshiaki (13:40~14:30)  
**3C6-34** Incubation Time (14:30~14:40)  
**3C6-35 ATP Invited Lecture** Bio-chemicals Development in DAISO (Daiso Co., Ltd.) SUZUKI, Toshio (14:40~15:10)  
**3C6-38** Incubation Time (15:10~15:20)

Chair: SUGAI, Takeshi (15:20~15:50)

- 3C6-39 ATP Invited Lecture** Elucidation and control of innate immune response by synthetic microbe associated molecular patterns (Grad. Sch. Sci., Osaka Univ.) FUKASE, Koichi (15:20~15:50)

Wednesday, March 28, AM

Chair: SUGAI, Takeshi (9:30~10:10)

- 4C6-04 ATP Invited Lecture** Opening a new frontier to novel technology and the industry with Evolutional Theory-Technologies and Trackrecords of Neo-Morgan laboratory Inc. - (Neo-Morgan Lab. Incorporated.) FUJITA, Tomohiro (09:30~10:00)  
**4C6-07** Incubation Time (10:00~10:10)

Chair: AKIYOSHI, Kazunari (10:10~11:10)

- 4C6-08 ATP Keynote Lecture** The Future Medicine Pioneered by Consumer Electronics Technologies (Advanced Materials Laboratories, Sony Corp.) YASUDA, Akio (10:10~11:00)  
**4C6-13** Incubation Time (11:00~11:10)

Chair: SUGA, Hiroaki (11:10~12:00)

- 4C6-14 ATP Special Invited Lecture** Production of useful materials from microalgae Euglena (Euglena Co., Ltd.) IZUMO, Mitsuru (11:10~11:50)  
**4C6-18** Incubation Time (11:50~12:00)

Wednesday, March 28, PM

Chair: WATANABE, Eiichi (13:00~13:50)

- 4C6-25 ATP Special Invited Lecture** Biofuel production using sake-brewing technology (Gekkeikan Sake Company, Ltd.) HATA, Yoji (13:00~13:40)  
**4C6-29** Incubation Time (13:40~13:50)

Chair: SUGA, Hiroaki (13:50~14:40)

- 4C6-30 ATP Special Invited Lecture** Research and Development of Next Generation of Biorefinery by a Cellulosome-Producing Anaerobic Bacterium, *Clostridium cellulovorans* (Grad. Sch. Bioresources., Mie Univ.) TAMARU, Yutaka (13:50~14:30)  
**4C6-34** Incubation Time (14:30~14:40)

Chair: ATOMI, Haruyuki (14:40~15:40)

- 4C6-35 ATP Keynote Lecture** Nature-inspired materials (AIST Kansai) TAGUCHI, Takahisa (14:40~15:30)  
**4C6-40** Incubation Time (15:30~15:40)

Chair: WATANABE, Eiichi (15:40~16:30)

- 4C6-41 ATP Special Invited Lecture** Fungal biosurfactant proteins functional in degradation of biopolymers (Natl Inst. Brewing; Grad. Sch. Agric. Sci., Tohoku Univ.; NICHe Tohoku Univ.) TAKAHASHI Toru; ABE, Keietsu (15:40~16:20)  
**4C6-45** Incubation Time (16:20~16:30)

Chair: KONOIKE, Toshiro (16:30~17:00)

- 4C6-46 ATP Invited Lecture** Development of Saccharifying Cellulosic Biomass process (Mitsubishi Heavy Industries, Ltd.) GENTA, Minoru; KONDO, Gaku; UEHARA, Ryosuke; SUZUKI, Hideo; TERAKURA, Seiichi (16:30~17:00)

## Room C7

4th Bldg. Independence Wing D203

### Diversity and Permanency of Fine Patterning Technology

Monday, March 26, AM

#### Nano- and Micropatterning via Self-assembly

(9:50 ~ 10:00)

**2C7-06** Opening Remarks (Grad. Sch. Eng., Nagoya Univ.) SEKI, Takahiro (09:50~10:00)

Chair: SEKI, Takahiro (10:00~12:00)

**2C7-07** ATP Keynote Lecture Preparation of micropatterns by dewetting and their photonics applications (CIST) KARTHAUS, Olaf; KIYONO, Yuji (10:00~10:50)

**2C7-12** ATP Special Invited Lecture  $\mu$  m order precise patterning by Super-inkjet printing (FLEC, AIST) MURATA, Kazuhiro (10:50~11:30)

**2C7-16** ATP Invited Lecture Morphological Control of Self-Organized Pattern Structures on Organic/Inorganic Hybrids (Sch. Eng., The Univ. of Tokyo) NISHIMURA, Tatsuya; SAKAMOTO, Takeshi; KATO, Takashi (11:30~12:00)

Monday, March 26, PM

Chair: HAYAKAWA, Teruaki (13:00~15:10)

**2C7-25** ATP Special Invited Lecture Structure and control arrangement of nanoparticles (Faculty Eng., Hokkaido Univ.) YONEZAWA, Tetsu (13:00~13:40)

**2C7-29** ATP Invited Lecture Directed self-assembly materials for semiconductor manufacturing process (JSR) SHIMOKAWA, Tsutomu; NAGAI, Tomoki; MINEGISHI, Shin-ya; NAMIE, Yuji (13:40~14:10)

**2C7-32** ATP Invited Lecture Phototriggered Relief Formation by Control of Molecular Diffusion (Grad. Sch. Eng., Yokohama Natl. Univ.) UBUKATA, Takashi (14:10~14:40)

**2C7-35** Oral C Effects of surface properties on order in spherical domain diblock copolymer thin films (Toshiba Corporation, R&D Center) YUZAWA, Akiko; KIHARA, Naoko; YAMAMOTO, Ryosuke; KAMATA, Yoshiyuki (14:40~15:00)

**2C7-37** Incubation Time (15:00~15:10)

Chair: KARTHAUS, Olaf (15:10~16:30)

**2C7-38** ATP Special Invited Lecture Development and Precision Nanopatterning of Silsesquioxane-containing Block Copolymers (Grad. Sch. Sci., Eng., Tokyo Tech) HAYAKAWA, Teruaki (15:10~15:50)

**2C7-42** ATP Invited Lecture Fabrication of Hierarchic Structures by Self-Organization and Application for Optical and Interfacial Functions (IMRAM, Tohoku Univ.) YABU, Hiroshi (15:50~16:20)

**2C7-45** ATP Invited Lecture Surface alignment and photoinduced relief formation of organic-inorganic hybrid materials (Grad. Sch. Eng., Nagoya Univ.) SEKI, Takahiro (16:20~16:50)

Tuesday, March 27, PM

Chair: OONISHI, Yasunobu (13:00~14:30)

**3C7-25** Panel Discussion Diversity and Permanency of Fine Patterning Technology: Panelist: NAGAHARA, Seiji; KOZAWA, Takahiro; MATSUI, Shinji; HIRAI, Yoshihiko; Olaf KARTHAUS; SEKI, Takahiro, Cordinator: OHNISHI, Yasunobu (13:00~14:30)

Wednesday, March 28, AM

### The Next Generation Lithography

(9:40 ~ 9:50)

**4C7-05** Opening Remarks (ISIR, Osaka Univ.) KOZAWA, Takahiro (09:40~09:50)

Chair: KOZAWA, Takahiro (9:50~11:50)

**4C7-06** ATP Keynote Lecture EUV lithography: Status and Challenges (EIDEC) MORI, Ichiro (09:50~10:40)

**4C7-11** ATP Special Invited Lecture EUV lithography is in use at customer sites (ASML Japan Co., Ltd.) MIYAZAKI, Junji (10:40~11:20)

**4C7-15** ATP Invited Lecture Development status of next generation lithography materials (TOKYO OHKA KOGYO CO., LTD.) SATO, Kazufumi (11:20~11:50)

Wednesday, March 28, PM

Chair: TARUTANI, Shinji (13:00~14:50)

**4C7-25** ATP Special Invited Lecture Development of novel molecular resist materials for extreme ultraviolet laser (Kanagawa Univ.) KUDO, Hiroto; NISHIKUBO, Tadatoshi (13:00~13:40)

**4C7-29** ATP Invited Lecture EUV lithography material Development in JSR (JSR) SHIMIZU, Makoto (13:40~14:10)

**4C7-32** ATP Special Invited Lecture Radiation chemistry of resist polymers (Grad. Sch. Eng., Hokkaido Univ.) OKAMOTO, Kazumasa; SUMIYOSHI, Takashi (14:10~14:50)

(14:50~15:00)

**4C7-36** Incubation Time (14:50~15:00)

Chair: KUDO, Hiroto (15:00~16:30)

**4C7-37** ATP Invited Lecture Development of resist Under Layer (UL) materials for EUVL (Nissan Chemical Industries, Ltd.) SAKAMOTO Rikimaru; HO, Bang-Ching; FUJITANI, Noriaki; ENDO, Takafumi; Oonishi, Ryuji (15:00~15:30)

**4C7-40** ATP Invited Lecture Wavelength dependence of resolution and material design in extreme ultraviolet region (ISIR, Osaka Univ.; EIDEC) KOZAWA, Takahiro; ITANI, Toshiro (15:30~16:00)

**4C7-43** ATP Invited Lecture EUV resist materials for 20 nm and below half pitch applications (FUJIFILM Corporation) TARUTANI, Shinji (16:00~16:30)

## Room C8

4th Bldg. Independence Wing D205

### Innovative Technologies for Environment and Natural Resources

Monday, March 26, AM

#### Coping with Diversification of Carbon Resources

Chair: HARA, Michikazu (9:00~10:50)

**2C8-01** Opening Remarks (MSL, Tokyo Tech) HARA, Michikazu (09:00~09:10)

**2C8-02** ATP Keynote Lecture Future Development of Biorefinery: Biofuels and Green Chemicals (RITE) YUKAWA, Hideaki (09:10~10:00)

**2C8-07** ATP Special Invited Lecture Present and Future Prospects of the Next Generation Liquid Biofuels (Grad. Sch. Energy Sci., Kyoto Univ.) SAKA, Shiro (10:00~10:40)

**2C8-11** Incubation Time (10:40~10:50)

Chair: SAKA, Shiro (10:50~12:10)

**2C8-12** ATP Invited Lecture Possibilities and the past, today and the future; sucrose as raw materials for the chemical industry (Japan Sugar Refiners' Association) SAITO, Shoji (10:50~11:20)

**2C8-15** ATP Invited Lecture Development of an integrated system for a cellulose bioethanol production from energy crops cultivation to ethanol conversion process (Research Association of Innovative Bioethanol Technology) SUGIHARA, Masaki (11:20~11:50)

**2C8-18** Oral C Metal oxide-catalyzed chemical depolymerization of PET (Sojo Univ.) IKENAGA, Kazutoshi; MAEHARA, Kohei; YAMAMOTO, Masahiro; DEKURA, Tsuyoshi; KAMEYAMA, Takehiko (11:50~12:10)

Monday, March 26, PM

Chair: KOBORI, Yoshihiro (14:50~16:20)

**2C8-36** ATP Special Invited Lecture Recent Research Activities on Utilization of Low Rank Carbon Resources in Kyushu University (Research and Education Center of Carbon Resources, Kyushu Univ.) HAYASHI, Jun-ichiro; HIRAJIMA, Tsuyoshi; MATSUSHITA, Yohsuke; TERAOKA, Yasutake (14:50~15:30)

**2C8-40** ATP Special Invited Lecture The status quo of unconventional oil and natural gas resources (JOGMEC) IHARA, Masaru (15:30~16:10)

**2C8-44** Incubation Time (16:10~16:20)

Chair: HAYASHI, Jun-ichiro (16:20~17:30)

**2C8-45** ATP Special Invited Lecture Hydrogen production and CO<sub>2</sub> fixation using photocatalysts and water as a hydrogen source (Tokyo Univ. of Sci.) KUDO, Akihiko (16:20~17:00)

**2C8-49** ATP Invited Lecture Recent Studies of Carbon Dioxide-Derived Aliphatic Polycarbonates (Fac. Eng., Tokyo Univ. of Sci.) SUGIMOTO, Hiroshi (17:00~17:30)

**Room D5**  
4th Bldg. Independence Wing D307

**Frontier Materials**

**Sunday, March 25, AM**

**Biomimetic Materials and Nature Technology**

Chair: SHIMOMURA, Masatsugu (9:00~10:30)

**1D5-01 ATP Keynote Lecture** Engineering Biomimetics: a new game changer for sustainability (WPI-AIMR, Tohoku Univ.; IMRAM, Tohoku Univ.) SHIMOMURA, Masatsugu (09:00~09:50)

**1D5-06 ATP Special Invited Lecture** Biomimetic optical materials: jewel on a forest (Hamamatsu Univ. Sch. Med.) HARIYAMA, Takahiko (09:50~10:30)

Chair: HARIYAMA, Takahiko (10:30~12:00)

**1D5-10 ATP Invited Lecture** On the inverse problem for the moth-eye structure (Grad. Sch. Info. Sci., Tohoku Univ.) KUBO, Hideo (10:30~11:00)

**1D5-13 ATP Invited Lecture** Design and fabrication of antifouling materials learnt from marine creatures (Grad. Sch. Adv. Life Sci., Hokkaido Univ.) MUROSAKI Takayuki; KUROKAWA Takayuki; GONG, Jian Ping (11:00~11:30)

**1D5-16 ATP Invited Lecture** Biomimetic Bonding technology (NIMS) HOSODA, Naoe (11:30~12:00)

**Sunday, March 25, PM**

Chair: HOSODA, Naoe (13:00~14:40)

**1D5-25 ATP Invited Lecture** Stem cell mechanobiomimetics: Inducing frustrated differentiation of stem cell on the well-engineered micromechanical millieu. (IMCE, Kyushu Univ.) KIDOAKI, Satoru; JINNOUCHI, Shuhei (13:00~13:30)

**1D5-28<sup>#</sup> ATP Special Invited Lecture** Biomimetic sensing system: Chemical sensing in insects (Grad. Sch. Sci., Kobe Univ.) OZAKI, Mamiko (13:30~14:10)

**1D5-32 ATP Invited Lecture** Dry-preservation technology inspired by anhydrobiotic African chironomid (NIAS) OKUDA, Takashi (14:10~14:40)

Chair: KIDOAKI, Satoru (14:40~16:10)

**1D5-35 ATP Invited Lecture** Single Crystal of Cyclodextrin-Porphyrin Supramolecular Complexes (ISIT) TSUCHIYA, Youichi; SHIRAKI, Tomohiro; MATSUMOTO, Takashi; SUGIKAWA, Kouta; SADA, Kazuki; YAMANO, Akihito; SHINKAI, Seiji (14:40~15:10)

**1D5-38 ATP Invited Lecture** Thin film opal photonic crystals with tunable structural color (NIMS) FUDOZI, Hiroshi (15:10~15:40)

**1D5-41 ATP Invited Lecture** Surface Fine Structure Formation by Nanoimprint (HRL, Hitachi Ltd.) MIYAUCHI, Akihiro (15:40~16:10)

Chair: GONG, Jian Ping (16:10~17:10)

**1D5-44 ATP Invited Lecture** Design of Surfaces Exhibiting Excellent Dynamic Dewetting toward Polar/Nonpolar Liquids Using Common Elements (MRISD, AIST) URATA, Chihiro; Dalton F. Cheng; HOZUMI, Atsushi (16:10~16:40)

**1D5-47 ATP Invited Lecture** Biologically inspired hydrophilic material (LIXIL Corp. Kitchen and Bathroom Technology Research Institute) ISU, Norifumi (16:40~17:10)

**Monday, March 26, AM**

**Biomimetic Materials and Nature Technology**

Chair: HOZUMI, Atsushi (9:00~10:40)

**2D5-01 ATP Special Invited Lecture** Biomimetics for Plant Protection (Kyoto Univ.; FFPRI; RCAST, The Univ. of Tokyo) MORI, Naoki; OKUMOTO, Yutaka; MISE, Kazuyuki; TAKANASHI, Takuma; MITSUNO, Hidefumi; KANZAKI, Ryouhei (09:00~09:40)

**2D5-05 ATP Invited Lecture** An innovative project of biomimetic database building based on insect inventory (National Museum of Nature and Science) NOMURA, Shuhei (09:40~10:10)

**2D5-08 ATP Invited Lecture** Fish specimens and biomimetic database (National Museum of Nature and Science) SHINOHARA, Gento (10:10~10:40)

Chair: MORI, Naoki (10:40~12:00)

**2D5-11 ATP Invited Lecture** Biomimetics Database and Ontology (ISIR, Osaka Univ.) KOZAKI, Kouji (10:40~11:10)

**2D5-14 ATP Keynote Lecture** Channeling the Forces of Nature -Nat-

ure Technology- (Grad. Sch. Environmental Studies, Tohoku Univ.)  
ISHIDA, Hideki (11:10~12:00)

**Monday, March 26, PM**

Chair: OHZONO, Takuya (13:00~14:40)

**2D5-25 ATP Special Invited Lecture** Innovations Inspired by Nature and upcoming Company Action (Sekisui Integrated Research Inc.) SANO, Kenzo (13:00~13:40)

**2D5-29 ATP Invited Lecture** Toward the Comprehensive Technology Governance in Bio-mimetic Field, Lessons from Nanotechnology (Nanosystem Research Institute, AIST) ATA, Masafumi; SEKIYA, Mizuki; AN, Soonhwa (13:40~14:10)

**2D5-32 ATP Invited Lecture** Design of new functional materials by bio-TRIZ (Fac. Eng., Niigata Univ.) YAMAUCHI, Takeshi (14:10~14:40)

Chair: KOBAYASHI, Motoyasu (14:40~16:20)

**2D5-35 ATP Invited Lecture** Developmental genetics of self-organization process in insect cuticle formation (Hokkaido Univ. of Educ.) KIMURA, Ken-ichi (14:40~15:10)

**2D5-38 ATP Special Invited Lecture** Bio-inspired flight system (Grad. Sch. Eng., Chiba Univ.) Hao LIU (15:10~15:50)

**2D5-42 ATP Invited Lecture** Shape-tunable microwrinkles (NRI, AIST) OHZONO, Takuya (15:50~16:20)

Chair: FUDOZI, Hiroshi (16:20~17:20)

**2D5-45 ATP Invited Lecture** Low Friction Surface of Polymer Brushes Designed Based on Biomimetic Water Lubrication (JST, ERATO; IMCE, Kyushu Univ.) KOBAYASHI, Motoyasu; TAKAHARA, Atsushi (16:20~16:50)

**2D5-48 ATP Invited Lecture** Formation of moth-eye surfaces with anodic porous (MITSUBISHI RAYON CO., LTD.) UOZU, Yoshihiro (16:50~17:20)

**Tuesday, March 27, AM**

**The challenge towards development of the super-molecular devices**

(9:50~10:00)

**3D5-06** Opening Remarks (Tokyo Tech) YAMAMOTO, Kimihisa (09:50~10:00)

Chair: YAMAMOTO, Kimihisa (10:00~12:00)

**3D5-07 ATP Keynote Lecture** Construction of Molecular Networks Using Coordination Programming Approaching to Chemical Devices (Grad. Sch. Sci., The Univ. of Tokyo) NISHIHARA, Hiroshi (10:00~10:50)

**3D5-12 ATP Invited Lecture** Programmed Hierarchical Assemblies of Hemoproteins toward Functional Biodevices (Grad. Sch. Eng., Osaka Univ.) ONODA, Akira; HAYASHI, Takashi (10:50~11:20)

**3D5-15 ATP Special Invited Lecture** Supramolecular hydrogels toward semi-wet biodevices (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) HAMACHI, Itaru (11:20~12:00)

**Tuesday, March 27, PM**

Chair: ONODA, Akira (14:20~15:30)

**3D5-33 ATP Special Invited Lecture** Integrated Chemical Device - Integration of Molecular System in Semiconductor (Grad. Sch. Eng., Nagoya Univ.) NAKAZATO, Kazuo (14:20~15:00)

**3D5-37 ATP Invited Lecture** Self-assembling nanofiber formation of conducting polymer and its application to molecular electronics (BASE, Tokyo Univ. of Agri. and Technol.) SHIMOMURA, Takeshi (15:00~15:30)

Chair: TANIGUCHI, Masateru (15:30~16:40)

**3D5-40 ATP Special Invited Lecture** Self-organization of single crystal for high-performance organic transistors (NIMS WPI-MANA; JST-CREST) TSUKAGOSHI, Kazuhito; LI, Yun; LIU, Chuan; MINARI, Takeo (15:30~16:10)

**3D5-44 ATP Invited Lecture** Preparation of 2D superstructural platform for the bottom-up construction of nanoarchitecture (Kumamoto Univ.) YOSHIMOTO, Soichiro (16:10~16:40)

Chair: YOSHIMOTO, Soichiro (16:40~17:50)

**3D5-47 ATP Invited Lecture** Single Molecular Science and Single Molecular Technologies (ISIR, Osaka Univ.) TANIGUCHI, Masateru (16:40~17:10)

**3D5-50 ATP Special Invited Lecture** Bottom-up Chemical Assembly of Single-Electron Transistors (MSL, Tokyo Tech) MAJIMA, Yutaka (17:10~17:50)

## Room P

### Hiyoshi Commemorative Hall

Tuesday, March 27, PM

(16 : 00~17 : 30)

### Diversity and Permanency of Fine Patterning Technology

#### The Next Generation Lithography

- 3PD-001** Deprotection Reaction and Dissolution Kinetics in Chemically Amplified EUV Resists (ISIR, Osaka Univ.) YAMAMOTO, Hiroki; KOZAWA, Takahiro; TAGAWA, Seiichi; MIMURA, Takayoshi; IWAI, Takeshi; ONODERA, Junichi
- 3PD-002** Energy deposition in Resist Polymers after Exposure to the EUV Free-Electron Laser Light (RIKEN HARIMA INSTITUTE; Faculty of Engineering Hokkaido Univ.; ISIR, Osaka Univ.) OIKAWA, Keita; OKAMOTO, Kazumasa; KOZAWA, Takahiro; HATSUI, Takaki; NAGASONO, Mitsuru; KAMESHIMA, Takashi; TOGASHI, Tadashi; TONO, Kensuke; YABASHI, Makina; KIMURA, Hiroaki; SENBA, Yasunori; OHASHI, Haruhiko; ISHIKAWA, Tetsuya; FUJIYOSHI, Ryoko; SUMIYOSHI, Takashi

#### Nanoimprint

- 3PD-003** Non-destructive and Precise Characterization of 'Buried' Nano-imprinted Structure by Ultra-Small Angle X-ray Scattering (Graduate School of Engineering, Kyushu Univ.) SHINOHARA, Takamichi; MURAKAMI, Daiki; HOSHINO, Taiki; KOIKE, Jun-ichiro; HORIZOME, Misao; TAKAHARA, Atsushi
- 3PD-004** Change in Young's modulus of imprinted pillarafter reactive ion etching (Univ. of Hyogo) KANG, Yuji; OKADA, Makoto; HARUYAMA, Yuichi; MATSUI, Shinji

#### Nano- and Micropatterning via Self-assembly

- 3PD-005** Contact Hole Shrink Process using Directed Self-Assembly (DSA) (Toshiba Corporation; Tokyo Electron Ltd.; Tokyo Electron Kyushu Ltd.) KAWANISHI, Ayako; SEINO, Yuriko; KANNO, Masahiro; SATO, Hironobu; KOBAYASHI, Katsutoshi; AZUMA, Tsukasa; NAGAHARA, Seiji; MURAMATSU, Makoto; KITANO, Takahiro; TOSHIMA, Takayuki
- 3PD-006** Novel method of forming random pattern by polystyrene phase deposition (Chitose Institute of Science and Technology) KIYONO, Yuji; KARTHAUS, Olaf
- 3PD-007** Development of POSS containing Block copolymer Lithographic Materials and Creation of Precision Nanopatterned Structures (Tokyo Institute of Technology; Materials Research Laboratory, Hitachi Ltd; Kyoto Univ.) HIRANO, Chiharu; MIKAMI, Haruka; SATO, Mizuki; ISHIDA, Yoshihito; TADA, Yasuhiko; YOSHIDA, Hiroshi; TAKENAKA, Mikihito; HASEGAWA, Hirokazu; HAYAKAWA, Teruaki
- 3PD-008** Development of Multifunctional Film with Biomimetic Wrinkle Processing (Department of Industrial Chemistry, Tokyo Univ. of Science) ENDO, Hiroshi; TAMURA, Masahiro; MAEDA, Izumi; IJIMA, Takayuki; KAWAI, Takeshi

### Advanced Electronic Materials

#### OLED

- 3PD-009** Microwave synthesis of phosphorescent good-quality complexes and their analysis with LC-TOFMASS (Minerva Light Laboratory L.L.C.) MATSUMURA, Takeko; MASUDA, Yoshitaka; NAKAJIMA, Riichiro; YAMASHITA, Ayako; SIMIZU, Naoto

#### Electronic Paper

- 3PD-010** Study of Novel Ag Nanoparticle Films as Rewritable Imaging Media (Course of Electro Photo Optics, Graduate School of engineering, Tokai Univ.) SUZUKI, Takayasu; FUJII, Yoshimasa; ONAKA, Yoko; MAEDA, Shuichi
- 3PD-011** Application of Twisting Electronic Paper as Digital Signage in Disasters (Tokai Univ. Department of Optical and Imaging Science & Technology) ITO, Daisuke; MAEDA, Shuichi
- 3PD-012** Design of Particles for Electric Paper by using I/O Value (Tokai Univ. Department of Optical and Imaging Science & Technology) SUNAGA, Hiroki; KURODA, Akihiro; MAEDA, Shuichi

### Printed Electronics

- 3PD-013** High-Mobility Hole-Transporting Polymers of Aryl Amine Derivatives with Wet Process Property (Fuji Xerox Co., Ltd) HORIBA, Koji; HIROSE, Hidekazu; IMAI, Akira; AGATA, Takeshi; SEKI, Mieko; YONEYAMA, Hirohito; SATO, Katsuhiro; MASHIMO, Kiyokazu
- 3PD-014** Aryl Amine derivatives possessing Bipolar Charge transport Property (Fuji Xerox Co.Ltd: YAMAGATA Univ.) HIROSE, Hidekazu; AGATA, Takeshi; SATO, Katsuhiro; SATO, Kazuaki; OHBA, Yoshihiro
- 3PD-015** Size-Controlled Synthesis and Thermal Properties of Gold Nanoparticles by Using Alkylamines (Osaka Municipal Tech. Res. Inst.) YAMAMOTO, Mari; KASHIWAGI, Yukiyasu; SAITOH, Masashi; OHNO, Toshinobu; KAKIUCHI, Hiroshi; YOSHIDA, Yukio; NAKAMOTO, Masami
- 3PD-016** Fabrication of the Conductive Ink Composed of Ag-Cu Bimetallic Nanoparticle (Osaka Municipal Tech. Res. Inst.; Daiken Chemical Co., Ltd.) SAITOH, Masashi; YAMAMOTO, Mari; KASHIWAGI, Yukiyasu; OHNO, Toshinobu; KAKIUCHI, Hiroshi; YOSHIDA, Yukio; NAKAMOTO, Masami
- 3PD-017** Syntheses and Size Control of Nickel Sulfide Nanoparticles by Controlled Thermolysis (Osaka Municipal Tech. Res. Inst.) KASHIWAGI, Yukiyasu; YAMAMOTO, Mari; SAITOH, Masashi; OHNO, Toshinobu; NAKAMOTO, Masami
- 3PD-018** Preparation of Copper Particles by Microwave-induced Plasma in Liquid Process and Their *In-situ* Heating TEM Observation (Suga Co.Ltd; ARIOS Co.Ltd; Hokkaido Univ.) NARUSHIMA, Takashi; OBATA, Masanori; YOSHIOKA, Takayuki; MIYAZAKI, Hideki; SUGA, Ikumasa; SATO, Susumu; YONEZAWA, Tetsu
- 3PD-019** Room temperature fabricated organic device using metal nanoink (Okayama Univ. RCIS) KANEHARA, Masayuki; TAKEYA, Jun; UEMURA, Takafumi; MURATA, Hideyuki; TAKIMIYA, Kazuo; TERANISHI, Toshiharu
- 3PD-020** Development of Functional Group-Containing Polymer-Coated Silica Fillers for Electronic Materials (Tokuyama Corporation) FUJIOKA, Hiromasa; MIKAMI, Naoki; YAMASHITA, Hiroya; SAKATA, Kenji
- 3PD-021** Synthesis and Properties of EDOT-containing Polythiophene (Hiroshima Univ.) IMAE, Ichiro; MASHIMA, Takahiro; KOMAGUCHI, Kenji; OYAMA, Yousuke; HARIMA, Yutaka
- 3PD-022** Preparation of PEDOT-SiO<sub>2</sub> Composites and Their Application to Transparent Conductive Films with High Mechanical Strength (Hiroshima Univ.; Kuraray Co., Ltd.) IMAE, Ichiro; NAKAMURA, Yuto; KOMAGUCHI, Kenji; OOSHITA, Joji; MORIHARA, Yasushi; SUGIOKA, Takashi; HARIMA, Yutaka
- 3PD-023** Development of Silver Nanoparticles for Printed Electronics and Fine Patterning by Screen Printing (Osaka Municipal Tech. Res. Inst.; Daiken Chemical Co., Ltd.) NAKAMOTO, Masami; KASHIWAGI, Yukiyasu; YAMAMOTO, Mari; SAITOH, Masashi; OHNO, Toshinobu; KAKIUCHI, Hiroshi; YOSHIDA, Yukio
- 3PD-024** Sub-100 nm pattern formation by Roll-to-Roll nanoimprint (Corporate Research & Development Center, Toshiba Corp.) INANAMI, Ryoichi; OJIMA, Tomoko; MATSUKI, Kazuto; KONO, Takuya; NAKASUGI, Tetsuro

### Innovative Technologies for Environment and Natural Resources Innovative Technologies for Energy and Resource Conservation

- 3PD-025** Development and Applications of the Ionic Semiconductor and Relation Technologies Toward Reduction of Environmental Loading (Ion-Kagaku, Ltd.; Tokyo Metr. Coll. Ind. Tech.) KARINO, Hitoshi; TAMURA, Kenji
- 3PD-026** Management of Hygienic Status and Prevention of Epidemics Countermeasure Based on the Aqueous of Stabilization Hypochlorous Acid (Tokyo Metr. Coll. Ind. Tech.) TAMURA, Kenji
- 3PD-027** Examination of the Roof Replanting with Regeneration Charcoal Derived from the Automatic Carbonization System (Tokyo Metr. Coll. Ind. Tech.) TAMURA, Kenji
- 3PD-028** Synthesis and properties of monolithic ion exchange resins (Organo Corporation) NAKAMURA, Akira; TAKADA, Hitoshi; YAMANAKA, Koji; INOUE, Hiroshi
- 3PD-029** Homogeneous Catalysts for the Production of High Purity Acrylamide (Okayama Univ.) OSHIKI, Toshiyuki; KAWAKAMI, Yukiko; MURANAKA, Makoto
- 3PD-030** Fluorine storage properties of Single Wall Carbon Nanohorns - 2 (Shinshu Univ.; Daikin; Meijo Univ.; Nagoya Univ.; Taiyounissan) HATTORI, Yoshiyuki; YAMAMOTO, Koudai; YANAGISAWA, Shinji; ETOU, Yuusuke; ISOGAI, Tomohiro; ITANO, Mitsushi; BANDOW, Shunji; YAMAGUCHI, Takashi; IJIMA, Sumio; SATOU, Takayuki; KOBAYASHI, Yoshihiko; TADA, Masuo; TOUHARA, Hidekazu
- 3PD-031** Highly Efficient Synthesis of the Spiroketal Structure by Cascade Cyclization using Transition metal-catalyst (Univ. of Toyama) MIYAZAWA, Masahiro; SANGA, Takao; NAKAMURA, Syo; YOSHIHARA, Syoko; YOKOYAMA, Hajime; HIRAI, Yoshiro

## Strategy of Materials Developments under a Limitation of Mineral Resources

- 3PD-032** Bacteria-associated manganese oxide (1) -Morphological and Structural Features (Graduate School of Natural Science and Technology, Okayama Univ.) KIMURA, Noriyasu; HASHIMOTO, Hideki; MIYATA, Naoyuki; FURUTANI, Mitsuki; NISHINA, Yuta; NAKANISHI, Makoto; FUJII, Tatsuo; TAKADA, Jun
- 3PD-033** Bacteria-associated manganese oxide (1) -Application for Halogenation Catalyst (Okayama Univ.) NISHINA, Yuta; HASHIMOTO, Hideki; KIMURA, Noriyasu; MIYATA, Naoyuki; OHTANI, Bunsho; TAKADA, Jun
- 3PD-034** Iron-oxidizing bacteria-associated inorganic/organic hybrid materials (1) -Application to immobilized catalysts (Okayama Univ.) EMA, Tadashi; MIYAZAKI, Yuki; TANIGUCHI, Tomoya; MANDAI, Kyoko; KORENAGA, Toshinobu; SAKAI, Takashi; HASHIMOTO, Hideki; TAKADA, Jun
- 3PD-035** Iron-oxidizing bacteria-associated inorganic/organic hybrid materials (2) -Preparation, microstructure and color tone of hematite (red pigment) from the hybrid material (Graduate School of Natural Science and Technology, Okayama Univ.) HASHIMOTO, Hideki; ASAOKA, Hiroshi; NAKANO, Takuya; KUSANO, Yoshihiro; ISHIHARA, Hiromichi; IKEDA, Yasunori; NAKANISHI, Makoto; FUJII, Tatsuo; NANBA, Tokuro; TAKADA, Jun
- 3PD-036** Iron-oxidizing bacteria-associated inorganic/organic hybrid materials (3) -Preparation and characterization of biogenous silica from the hybrid material (Okayama Univ.) ITADANI, Atsushi; HASHIMOTO, Hideki; KUDOH, Takayuki; SENO, Masaharu; KURODA, Yasushige; TAKADA, Jun
- 3PD-037** Revolutionary Core-Shell Technology for curable polymer materials. (Kaneka Corporation) MIYAMOTO, Masahiro
- 3PD-038** Abrasion Resistance of Poly(a-methylene-g-butylrolactone) High Density Brush Thin Films Prepared through Surface-initiated Polymerization (Kyushu Univ., Institute for Materials Chemistry and Engineering) HIGAKI, Yuji; OKAZAKI, Ryosuke; TAKAHARA, Atsushi
- 3PD-039** Effect of Catalyst Poisons on Catalytic Activity of Pt-free Catalysts (TIRI) HAGIWARA, Toshiya; SOMEKAWA, Shouichi; KOJIMA, Masayuki; FUJII, Kyouko; SHINODA, Tsutomu
- 3PD-040** Preparation of pellet and honeycomb-type Co,Ce oxides catalysts and application for odor control (Tokyo Metropolitan Industrial Technology Research Institute(TIRI)) SOMEKAWA, Shouichi; HAGIWARA, Toshiya; HUIJI, Kyoko; KOJIMA, Masayuki; SHINODA, Tsutomu; DOMEN, Kazunari
- 3PD-041** Arsenic Detoxification by TiO<sub>2</sub> Photo-catalyst and Rare-metal Recycling (Nippon Sheet Glass Co.Ltd) NAKAMURA, Koichiro; YAMAUCHI, Hiroshi

## Coping with Diversification of Carbon Resources

- 3PD-042** Utilization of whole lignocellulosics with both fractionation and functionality control under room temperature. (Graduate School of Bioresources Mie Univ.) FUNAOKA, Masamitsu; AOYAGI, Mitsuru; NONAKA, Hiroshi; MIKAME, Keigo
- 3PD-043** Metal oxide-catalyzed chemical depolymerization of PET (Sojo Univ.) IKENAGA, Kazutoshi; MAEHARA, Kohei; YAMAMOTO, Masahiro; DEKURA, Tsuyoshi; KAMEYAMA, Takehiko
- 3PD-044** Development of clear and high-heat resistant biomass polymer film (Fujifilm Corporation; Synthetic organic chemistry laboratories) UEHIRA, Shigeki; YOSHITANI, Toshihide; SAKUMA, Toshimitsu; TSUKADA, Yoshihisa

## New Energy Technologies towards the realization of more efficient and distributed Energy System

### Fuel Cells Hydrogen Energy Technology

- 3PD-045** Nanostructured electrocatalysts for PEFC-PtM/mesoporous carbon (Kyushu Univ.) HAYASHI, Akari; REINHARD, Patrick; SASAKI, Kazunari
- 3PD-046** Electrocatalysts Supported on SnO<sub>2</sub> for Polymer Electrolyte Fuel Cells (Kyushu Univ.) TSUKATSUNE, Takuya; TAKABATAKE, Yuma; KANDA, Kohei; HAYASHI, Shingo; TAKASAKI, Humiaki; NODA, Zhiyun; TANIGUCHI, Shunsuke; SHIRATORI, Yusuke; HAYASHI, Akari; SASAKI, Kazunari
- 3PD-047** Evaluation on Pt/C catalysts made by various carbon materials with different nanostructures (Kyushu Univ.) ZHAO, Xiaojing; NODA, Shiun; HAYASHI, Akari; SASAKI, Kazunari
- 3PD-048** Analysis of Sulfur-Containing Impurity Gas Poisoning for Solid Oxide Fuel Cells (Kyushu Univ.; Hydrogen Utilization Process Lab.) TACHIKAWA, Yuya; YOSHIZUMI, Tomoo; HOSOI, Takami; SHIRATORI, Yusuke; SASAKI, Kazunari
- 3PD-049** Synthesis and characterization of novel sulfonated poly(arylene ether) block copolymer membranes (Univ. of Yamanashi; Clean Ener. Res. Ctr., Fuel Cells Nanomater. Ctr.) HOSHI, Takayuki; BAE, Byungchan; MIYATAKE, Kenji; WATANABE, Masahiro

- 3PD-050** Synthesis and characterization of anion conductive block copolymer membranes containing fluorine groups in the main chains. (Univ. of Yamanashi; Clean Ener. Res. Ctr., Fuel Cells Nanomater. Ctr.) ONO, Hideaki; BAE, Byungchan; MIYATAKE, Kenji; WATANABE, Masahiro

### Next Generation Photovoltaic Technologies

- 3PD-051** High Performance Dye-sensitized Solar Cells for Indoor Applications (Fujikura Ltd., Environment and Energy Laboratory) ENDO, Katsuyoshi; OKADA, Kenichi; MATSUI, Hiroshi; TANABE, Nobuo

## A leap ahead with Challenging Biochemicals

### Green Biotechnology

- 3PD-052** Ultra-sensitive detection of microbial cellulolytic activity using nanofibrous cellulose (JAMSTEC) TSUDOME, Mikiko; DEGUCHI, Shigeru; NABATA, Ryusuke; ITO, Susumu; HORIKOSHI, Koki
- 3PD-053** Environmentally friendly process for the production of 12-Aminododecanoic acid with Biocatalysis (Organic Chemistry Reserch Laboratory, Ube Industries, LTD.Biotechnology Research Center and Department ofBiotechnology, Toyama Prefectural Univ.) YOSHIDA, Youichi; ASANO, Yasuhisa

### Frontier Biotechnology

- 3PD-054** Sensitive observation of neuron dendrites cultured on the plasmonic chip with fluorescence microscope (AIST; Kansai Univ.;RIES, Hokkaido Univ.) YASUI, Chikara; TAWA, Keiko; HOSOKAWA, Chie; NISII, Junji; AOTA, Hiroyuki; MATSUMOTO, Akira
- 3PD-055** Rapid and sensitive detection of BDNF on the ZnO-coated plasmonic chip (AIST; Kansai Univ.;Tohoku Univ.) SATOH, Mari; TAWA, Keiko; UEGAKI, Koichi; HARA, Tomoko; UMETSU, Mitsuo; NAKAZAWA, Hikaru; KUMAGAI, Izumi; AOTA, Hiroyuki; MATSUMOTO, Akira; KOJIMA, Masami
- 3PD-056** Structural Pattern Analysis of Chiral Pharmaceuticals and Proteins Using Conformational Code (AIST) IZUMI, Hiroshi
- 3PD-057** Organic Nanotube Having Different Inner and Outer Surface: Nanocapsules to capture, stabilize and release biomaterials and drugs (NTRC-AIST) MASUDA, Mitsutoshi; DING, Wuxiao; KAMETA, Naohiro; MINNAMIKAWA, Hiroyuki; SHIMIZU, Toshimi
- 3PD-058** High speed and high accuracy detection of disease marker using functionalized fluorescent magnetic beads (Grad. School of Biosci. and Biotechnol., Tokyo Tech.; Solutions Res. Lab.; Tokyo Tech.) SAKAMOTO, Satoshi; NAITO, Yasuyuki; KAWATA, Shintaro; MOCHIZUKI, Yuusuke; KISHI, Hiroshi; HATAKEYAMA, Mamoru; HANDA, Hiroshi
- 3PD-059** Development of hepatocyte growth factor receptor c-Met binding peptide using RaPID system and evaluation (Grad. School of Science, Univ. of Tokyo) ITO, Kenichiro; SUGA, Hiroaki
- 3PD-060** Posttranslational heterocyclase: a highly versatile synthetic tool for azoline-containing molecules (Grad. School of Science, Univ. of Tokyo; PRESTO, JST; Grad. School of Engineering, Univ. of Tokyo) GOTO, Yuki; ITO, Yumi; SUGA, Hiroaki
- 3PD-061** Application of non-standard peptide screening technology, RaPID system, for development of sirtuin inhibitors (Univ. of Tokyo, Engineering) MORIMOTO, Jumpei; HAYASHI, Yuuki; SUGA, Hiroaki
- 3PD-062** Superluminescent variants of marine luciferases for bioassays (National institute of Advanced Industrial Science and Technology (AIST)) KIM, sung bae; TORIMURA, Masaki; TAO, Hiroaki
- 3PD-063** Development of blood cell separation device (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevice, Nagoya Univ.) ITO, Satoru; YASUI, Takao; OKAMOTO, Yukihiro; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu
- 3PD-064** Withdrawn
- 3PD-065** Development of single cell analysis using combination of micro-device and ICP-MS (School of Engineering, Nagoya Univ.) MIYAZAKI, Yoshiyuki; YASUI, Takao; INAGAKI, Kazumi; OKAMOTO, Yukihiro; KAJI, Noritada; UMEMURA, Tomonari; TOKESHI, Manabu; BABA, Yoshinobu
- 3PD-066** Biomolecular separation by using nanowire device (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) WU, Qiong; MOTOYAMA, Koki; YASUI, Takao; SAKON, Rahong; YANAGIDA, Takeshi; KANAI, Masaki; OKAMOTO, Yukihiro; KAJI, Noritada; TOKESHI, Manabu; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu
- 3PD-067** Development of gold nanospheres conjugated with cell penetrating  $\alpha$ -helical peptides (Tokyo Institute of Technology) PARK, Hyejin; TAKAHASHI, Tsuyoshi; TSUTSUMI, Hiroshi; MIHARA, Hisakazu
- 3PD-068** Generation of monoclonal antibody for sandwich ELISA detection of Pacific ciguatoxins (Osaka Prefecture Univ. ; Tohoku Univ.) TSUMURAYA, Takeshi; YAMASHITA, Shuji; HIRAMA, Masahiro; FUJII, Ikuo
- 3PD-069** Development of a simple diagnosis device for oral cancer based on telomerase activity (Kyushu Inst. Tech.) SATO, Shinobu; MORI, Kumiko;

KODAMA, Masaaki; HABU, Manabu; NISHIHARA, Tatsuji; TOMINAGA, Kazuhiro; TAKENAKA, Shigeori

**3PD-070** Adsorption of Proteins and Bacterium on Glyco-dendrimer (Dept of Chemical Eng., Kyushu Univ.) SUGIMOTO, Masashi; TAKEI, Takayuki; HOSHINO, Yu; MIURA, Yoshiko

**3PD-071** Analysis of molecular recognition property of thermoresponsive polymer nanoparticle: Acceleration of association rate around the phase transition temperature (Kyushu Univ.) NAKAMOTO, Masahiko; HOSHINO, Yu; MIURA, Yoshiko

## Room A1

### 4th Bldg., Section A J441

### Physical Chemistry -Structure-

Sunday, March 25, AM

#### Magnetic Resonance

Chair: FUJII, Shintaro (9 : 40 ~ 10 : 20)

\* 9:30-9:40: interval for laptop PC connection.(1A1-05, 1A1-06, 1A1-08)

**1A1-05** Local structure and dynamics of aluminium alginate gel (Kanazawa Univ.) KUMAGAI, Yoshihide; NISHIKAWA, Keita; OHASHI, Ryutarō; MIZUNO, Motohiro

**1A1-06\*** Dynamical analysis of hydrated water in hen egg white lysozyme crystal using solid-state deuterium NMR (Kanazawa Univ., Science) OHASHI, Ryutarō; MIYATOU, Tatsuya; TAKAHATA, Hiroaki; KANEKO, Ryo; KAZIKAWA, Takao; MIZUNO, Motohiro

**1A1-08** An electronic ground state of nitroxide-substituted iminonitroxide and the double quantum transitions as studied by CW/pulse ESR. (Osaka City Univ.) KAWAMORI, Moeko; NAKAZAWA, Shigeaki; SUGISAKI, Kenji; TOYOTA, Kazuo; SHIOMI, Daisuke; SATOU, Kazunobu; FURUI, Takanori; KURATSU, Masato; SUZUKI, Syuichi; KOZAKI, Masatoshi; OKADA, Keiji; TAKUI, Takeji

Chair: OHASHI, Ryutarō (10 : 30 ~ 11 : 10)

\* 10:20-10:30: interval for laptop PC connection.(1A1-10, 1A1-11, 1A1-12, 1A1-13)

**1A1-10** Clarification of dynamic behavior of molecular cluster batteries during charge/discharge by *In operando* solid state NMR (Nagoya Univ.) YAMADA, Tetsuya; YAMAMURA, Takuma; KAWASAKI, Naoya; WANG, Heng; YOSHIKAWA, Hirohumi; AWAGA, Kunio

**1A1-11** Electronic structures of TEMPOL dimers as studied by CW and pulsed ESR spectroscopy (Graduate School of Science, Osaka City Univ.; Graduate School of Science, Osaka Univ.; Graduate School of Engineering Science, Osaka Univ.; FIRST) AYABE, Kazuki; SATO, Kazunobu; ISE, Tomoaki; NISHIDA, Shinsuke; SUGISAKI, Kenji; NAKAZAWA, Shigeaki; MORITA, Yasushi; TOYOTA, Kazuo; SHIOMI, Daisuke; KITAGAWA, Masahiro; TAKUI, Takeji

**1A1-12** Pulsed ELDOR-NMR spectra of isotope labeled diphenylnitroxides in a single crystal as models for molecular-spin bus quantum computing (Graduate School of Science, Osaka City Univ.) TANAKA, Ayaka; SATO, Kazunobu; YOSHINO, Tomohiro; NISHIDA, Shinsuke; NAKAZAWA, Shigeaki; RAHIMO, Robabeh; TOYOTA, Kazuo; SHIOMI, Daisuke; MORITA, Yasushi; KITAGAWA, Masahiro; TAKUI, Takeji

**1A1-13** Soliton CW/pulsed ENDOR and spin relaxation of  $\pi$ -conjugated nitroxide radicals based on the quinoline skeleton (Graduate School of Science, Osaka City Univ.; Faculty of Science and Technology, Keio Univ.; FIRST) TANJII, Yusuke; YOSHINO, Tomohiro; NAKAZAWA, Shigeaki; TOYOTA, Kazuo; SHIOMI, Daisuke; SATO, Kazunobu; YOSHIOKA, Naoki; TAKUI, Takeji

#### Crystal Structure

Chair: AOKI, Masaru (11 : 20 ~ 12 : 00)

\* 11:10-11:20: interval for laptop PC connection.(1A1-15, 1A1-17, 1A1-18)

**1A1-15\*** Thermal behavior and crystal structures of alkali metal bis(fluoro-sulfonyl)amides (Kyoto Univ.) MATSUMOTO, Kazuhiko; OKA, Takaaki; NOHIRA, Toshiyuki; HAGIWARA, Rika

**1A1-17** Dehydration/hydration transformations of chelidamic acid investigated by ab initio powder X-ray diffraction analysis (Tokyo Inst. of Tech.) TOYOSHIMA, Ryosuke; FUJII, Kotaro; UEKUSA, Hidehiro

**1A1-18** Crystal structure and photochromism of indenone oxide (Tokyo Institute of Technology) YAMAZAKI, Yuta; SEKINE, Akiko; UEKUSA, Hidehiro

Sunday, March 25, PM

### Surfaces

Chair: WATANABE, Kazuya (13 : 30 ~ 14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(1A1-28, 1A1-29, 1A1-30, 1A1-31, 1A1-32)

**1A1-28** Local Structure and Electronic Structure on Nitrogen Doped Graphite (Pure and Applied Sci., Univ. of Tsukuba) USHIGOME, Daiki; SAKURAI, Masataka; SHIKANO, Taishi; SUZUKI, Testuya; CASOLO, Simone; TRIONI, Mario I.; TANTARDINI, Gian F.; KONDO, Takahiro; NAKAMURA, Junji

**1A1-29** STS observation of Landau levels on the nitrogen-doped graphite surface without external magnetic fields (Pure and Applied Sci., Univ. of Tsukuba) SHIKANO, Taishi; SAKURAI, Masataka; USHIGOME, Daiki; SUZUKI, Testuya; KONDO, Takahiro; NAKAMURA, Junji

**1A1-30** Valence electronic states of Au clusters supported on graphite (Univ. of Tokyo) SANO, Hikari; USHIYAMA, Shota; AOKI, Masaru; INOUE, Masahiro; SHUDO, Ken-ichi; EDAMOTO, Kazuyuki; MASUDA, Sigeru

**1A1-31** Electron Excitation Mechanism of Rubrene on Graphite Studied by Two-Photon Photoemission Spectroscopy (Graduate School of Science, Osaka Univ.) UEBA, Takahiro; PARK, Juyeon; TERAWAKI, Rie; YAMADA, Takashi; KATO, Hiroyuki S.; MUNAKATA, Toshiaki

**1A1-32\*** Angle-resolved micro-spot two-photon photoemission spectroscopy for image potential states and molecular derived unoccupied states of lead phthalocyanine film (Graduate School of Science, Osaka Univ.) YAMAMOTO, Ryota; KAWAKITA, Noriaki; YAMADA, Takashi; KATO, Hiroyuki; MUNAKATA, Toshiaki

Chair: KATO, Hiroyuki (14 : 40 ~ 15 : 30)

\* 14:30-14:40: interval for laptop PC connection.(1A1-35, 1A1-36, 1A1-37, 1A1-38, 1A1-39)

**1A1-35** Observation of local electronic structure for nitrogen-doped heterocyclic compound on graphite (Graduate School of Pure and Applied Sciences Univ. of Tsukuba) IWATAKE, Keigo; MACHIDA, Takahiro; AKIBA, Chisato; OH, June Pyo; CHANG, Chawen; NABAE, Yuta; KAKIMOTO, Masaaki; KONDO, Takahiro; NAKAMURA, Junji

**1A1-36** Scattering behavior of oxygen on nitrogen ion-bombarded graphite surface (Pure and Applied Sciences, Univ. of Tsukuba) SAITO, Yoshihiko; OH, June Pyo; ARAKAWA, Keitaro; KAWARAI, Keiichi; KONDO, Takahiro; NAKAMURA, Junji

**1A1-37** Adsorption state of cyclohexane on Cu(100) studied by IR-VIS sum-frequency generation vibrational spectroscopy (Kyoto Univ.) MIYAMOTO, Yoshiki; WATANABE, Kazuya; MATSUMOTO, Yoshiyasu

**1A1-38** Observation of coherent phonons related to charge trapping states of photocatalyst BiVO<sub>4</sub> (Dept. of Chemistry, Kyoto Univ.) AIGA, Norihiro; JIA, Qingxin; WATANABE, Kazuya; KUDO, Akihiko; MATSUMOTO, Yoshiyasu

**1A1-39** Considerations of transition metal surface using periodic DFT calculations with LCAO approximation: Interaction between Pt(111) surface and small molecules (CO and NH<sub>3</sub>) (Department of Chemistry and Materials Technology, Kyoto Institute of Technology) SATO, Masaki; OKADA, Arifumi; ISHIKAWA, Yo-ichi

Chair: SASAKI, Takehiko (15 : 40 ~ 16 : 40)

\* 15:30-15:40: interval for laptop PC connection.(1A1-41, 1A1-44, 1A1-45)

**1A1-41** Young Scholar Lectures of CSJ Structure of electrical double layer and its role in electrochemical reactions at the solid liquid interface (Grad. Sch. Eng., Chiba Univ.) NAKAMURA, Masashi

**1A1-44** Preparation of Pt/TiO<sub>2</sub>(110) model catalyst surfaces by electrodeposition (Hokkaido Univ.) TAKAKUSAGI, Satoru; OGAWA, Takafumi; UEHARA, Hiromitsu; ARIGA, Hiroko; ASAKURA, Kiyotaka

**1A1-45\*** Spectroscopic Characterization and Transport Properties of Aromatic Monolayers Covalently Attached to Si(111) Surfaces (ISSP, Univ. of Tokyo) HARADA, Yosuke; KOITAYA, Takanori; MUKAI, Kozo; YOSHIMOTO, Shinya; YOSHINOBU, Jun

Chair: KONDO, Takahiro (16 : 50 ~ 17 : 40)

\* 16:40-16:50: interval for laptop PC connection.(1A1-48, 1A1-49, 1A1-50, 1A1-52)

**1A1-48** Conversion of Carbon Dioxide Using Modified Copper Electrode Surfaces (Univ. of Tokyo) SASAKI, Takehiko; NOGUCHI, Masaki

**1A1-49** Selective Oxidation Activity and Surface Electronic Structure of Lithium-Nickel Oxide Complexes (Ehime Univ.; KEK; Keio Univ.) MIYAZAKI, Takafumi; MONYA, Yuji; MASE, Kazuhiko; KONDOH, Hiroshi

**1A1-50\*** Formation of organic self-assembled monolayer on oxide surface (Japan Atomic Energy Agency) NARITA, Ayumi; BABA, Yuji; SEKIGUCHI, Tetsuhiro; SHIMOYAMA, Iwao; HIRAO, Norie; YAITA, Tsuyoshi

**1A1-52** Sulfurization of the brass surface at the rubber/brass interface (Tokyo Inst. Tech.; Yokohama Rubber Co.; KEK PF; JASRI) OZAWA, Kenichi; KOMATSU, Takayuki; KAKUBO, Takashi; SHIMIZU, Katsunori; AMINO, Naoya; MASE, Kazuhiko; IZUMI, Yudai; MURO, Takayuki



Monday, March 26, AM

Electronic Spectrum/Electronics Spectroscopy/  
Electronic Structure

Chair: ISOZAKI, Tasuku (9 : 20 ~10 : 20)

\* 9:10-9:20: interval for laptop PC connection.(2A1-03, 2A1-04, 2A1-06, 2A1-08)

- 2A1-03** Ellipticity-change-detected circular dichroism apparatus for high sensitivity(2) Combination with PEM and lock-in detection system (IMRAM, Tohoku Univ.) ARAKI, Yasuyuki; MURAKAMI, Makoto; HAMADA, Yoshiki; SAKAMOTO, Seiji; WATANABE, Masayuki; HASEGAWA, Katsuji; WADA Akio; WADA, Takehiko
- 2A1-04\*** Theoretical study on the open-shell character and second hyperpolarizabilities of supermolecules composed of acetylene linked phenalenyl radicals (Osaka Univ.) NAKANO, Masayoshi; MINAMI, Takuya; YONEDA, Kyohei; MUHAMMAD, Shabbir; MINAMIDE, Shu; YAMADA, Taishi; ITO, Soichi; KISHI, Ryohei; SHIGETA, Yasuteru; KUBO, Takashi; KAMADA, Kenji; OHTA, Koji; CHAMPAGNE, Benoit
- 2A1-06\*** ATR/Far-UV Spectroscopic study of electronic transitions of saturated alkanes in the condensed state (Kwansei Gakuin Univ.; NFRI; KURABO; IMS) MORISAWA, Yusuke; TACHIBANA, Shin; EHARA, Masahiro; IKEHATA, Akifumi; HIGASHI, Noboru; OZAKI, Yukihiro
- 2A1-08** Spectroscopic study of electronic transitions for liquid amides by using attenuated total reflection in far ultraviolet region (Kwansei Gakuin Univ.) YASUNAGA, Manaka; MORISAWA, Yusuke; EHARA, Masahiro; IKEHATA, Akifumi; HIGASHI, Noboru; OZAKI, Yukihiro

Chair: ARAKI, Yasuyuki (10 : 30~11 : 30)

\* 10:20-10:30: interval for laptop PC connection.(2A1-10, 2A1-12, 2A1-13, 2A1-14, 2A1-15)

- 2A1-10\*** Theoretical study on the two photon absorption properties of open-shell singlet polycyclic aromatic hydrocarbons (Graduate school of engineering science, Osaka Univ., AIST, Graduate school of science, Osaka Univ.,) KISHI, Ryohei; FUJII, Hiroaki; KISHIMOTO, Shingo; MINAMIDE, Shu; MURATA, Yusuke; YAMADA, Taishi; ITO, Soichi; YONEDA, Kyohei; SHIGETA, Yasuteru; KAMADA, Kenji; OHTA, Koji; KUBO, Takashi; NAKANO, Masayoshi
- 2A1-12** Theoretical study on the diradical character dependence of linear absorption peaks of open-shell singlet dicyclopenta-fused polyacenes (Osaka Univ.) KISHIMOTO, Shingo; MURATA, Yusuke; YAMADA, Taishi; ITO, Soichi; YONEDA, Kyohei; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi
- 2A1-13** Dark Excited States of Diphenylpolyene by Nonresonant Two-Photon Excitation Optical-Probing Photoacoustic Spectroscopy (Aoyama Gakuin Univ.; Laser Photochemistry Laboratory) OBA, Hikari; ISOZAKI, Tasuku; SUZUKI, Tadashi
- 2A1-14** Theoretical study on the third-order nonlinear optical property in open-shell singlet one-dimensional tetranuclear transition-metal systems (Osaka Univ.) INOUE, Yudai; YAMADA, Taishi; HUKUI, Hitoshi; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi
- 2A1-15** Theoretical study on diradical characters and third-order nonlinear optical properties in heterodinuclear transition-metal systems with multiple metal-metal bonds (Osaka Univ.) YAMADA, Taishi; INOUE, Yudai; FUKUI, Hitoshi; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi

Monday, March 26, PM

Electronic Spectrum/Electronics Spectroscopy/  
Electronic Structure

Chair: ISHIIUCHI, Shun-ichi (14 : 40~15 : 30)

\* 14:30-14:40: interval for laptop PC connection.(2A1-35, 2A1-37, 2A1-38)

- 2A1-35\*** SVL Fluorescence Spectra of NO<sub>3</sub> (Hiroshima City Univ.) FUKUSHIMA, Masaru; ISHIWATA, Takashi

Microwave Spectroscopy

- 2A1-37** Fourier transform microwave spectroscopy of *n*-pentanol (2) (Kanagawa Inst. Tech. and Grad. Univ. Adv. Studies) KAWASHIMA, Yoshiyuki; KOMAMINE, Yoshitaka; HIROTA, Eizi

IR/Raman Spectroscopy

- 2A1-38\*** Inertial Defect and Vibronic Interaction in the NO<sub>3</sub> Radical in the Ground Electronic State (Grad. Univ. Adv. Studies) HIROTA, Eizi

Chair: AKAI, Nobuyuki (15 : 40~16 : 20)

\* 15:30-15:40: interval for laptop PC connection.(2A1-41, 2A1-42, 2A1-43)

- 2A1-41** Photoionization induced water migration of 4-aminobenzonitrile-(H<sub>2</sub>O)<sub>n</sub> cluster (Tokyo Univ. of Science; Tokyo Tech) NAKAMURA, Takashi; MIYAZAKI, Mitsuhiro; TSUKIYAMA, Koichi; FUJII, Masaaki
- 2A1-42** Gas-phase spectroscopy of tyrosine by laser desorption supersonic jet technique -stabilization mechanism of the most stable conformer (Tokyo Tech; Chemical Resources Laboratory) SHIMOZONO, Yoko; YAMADA,

Kohei; ISHIIUCHI, Shun-ichi; CHAKRABORTY, Shamik; TSUKIYAMA, Koichi; FUJII, Masaaki

- 2A1-43\*** Cooperative Motions of Hydrogen-Bonding Networks in the Stacked Dimer of Adenosine (Yokohama City Univ.; Graduate School of Nanobio.) ASAMI, Hiroya; YAGI, Kiyoshi; OHBA, Masashi; SAIGUSA, Hiroyuki

Chair: FUKUSHIMA, Masaru (16 : 30~17 : 10)

\* 16:20-16:30: interval for laptop PC connection.(2A1-46, 2A1-47, 2A1-48, 2A1-49)

- 2A1-46** A computational study of matrix effect on infrared spectra of embedded molecules (2) (AIST) ITO, Fumiyouki
- 2A1-47** Structure and Photoreaction Mechanism of 4-Bromo-2-Chloro-6-Fluorophenol by Matrix-Isolation Infrared Spectroscopy (Tokyo Univ. of Agriculture and Technology) NANBU, Shota; SEKINE, Masahiko; NAKATA, Munetaka
- 2A1-48** Production of Adenin Radical in Rare-Gas Matrices and Temperature Dependence of Its Backward Reaction (Tokyo Univ. of Agriculture and Technology) IIZUMI, Shota; SEKINE, Masahiko; NAKATA, Munetaka
- 2A1-49** Vaporization mechanism of ionic liquids studied by matrix-isolation IR spectroscopy (Tokyo Institute of Technology) HORIKAWA, Mami; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko

Tuesday, March 27, AM

IR/Raman Spectroscopy

Chair: SAKAMOTO, Akira (9 : 40 ~10 : 40)

\* 9:30-9:40: interval for laptop PC connection.(3A1-05, 3A1-07, 3A1-08, 3A1-09)

- 3A1-05\*** Vibrational Analysis of adsorption states of a single molecular using in-situ Surface enhanced Raman scattering measurement (Hokkaido Univ.) TAKASE, Mai; NAGASAWA, Fumika; NABIKI, Hideki; MURAKOSHI, Kei
- 3A1-07** Surface-enhanced Raman scattering measurement of thiocyanine molecules by using near-field photo-reduced silver nanoparticles. (Kwansei Gakuin Univ.) IKEMACHI, Takuya; KITAHAMA, Yasutaka; SUZUKI, Toshiaki; OZAKI, Yukihiro
- 3A1-08** Concentration dependence of blinking of surface-enhanced Raman scattering (Kwansei Gakuin Univ.; AIST Shikoku) KITAHAMA, Yasutaka; ENOGAKI, Ai; ITOH, Tamitake; OZAKI, Yukihiro
- 3A1-09\*** Control of the Surface Enhanced Raman Scattering Intensity via Localized Plasmon - Exciton Interaction (Hokkaido Univ.) NAGASAWA, Fumika; TAKASE, Mai; MURAKOSHI, Kei

Chair: FURUKAWA, Yukio (10 : 50~11 : 50)

\* 10:40-10:50: interval for laptop PC connection.(3A1-12, 3A1-13, 3A1-14, 3A1-15, 3A1-16)

- 3A1-12** Surface-enhanced Raman Scattering Study of Collagen Type I (Kwansei Gakuin Univ.) MINAMI, Satoshi; SUZUKI, Toshiaki; HIRAI, Yohei; SATO, Hidetoshi; OZAKI, Yukihiro
- 3A1-13** The measurement of oxidation state of myoglobin by use of Surface enhanced Raman scattering (SERS) (Kwansei Gakuin Univ.) EGASHIRA, Masatoshi; SUZUKI, Toshiaki; HAN, Xiaoxia; OZAKI, Yukihiro
- 3A1-14** Analysis of lipid membranes in liquid by tip enhanced Raman spectroscopy (dept. appl. chem. biotech., chiba univ.) NAKATA, Atsushi; NOMOTO, Tomonori; TOYOTA, Taro; FUJINAMI, Masanori
- 3A1-15** Infrared Spectrum of Nitro(5,10,15,20-tetraphenylporphyrinato)CR(x0d)+NL(x0a)(4-methylpyridine)cobalt(III) (part 6) YAMAMOTO, Kenichi
- 3A1-16\*** Hydrogen bonding effect of absorption intensity of OH and C=O stretching fundamental and overtones. (Kwansei Gakuin Univ.; Tohoku Univ.) MORISAWA, Yusuke; SUGA, Arisa; CHEN, Yujing; GONJO, Takayuki; FUTAMI, Yoshisuke; OZAKI, Yukihiro

Tuesday, March 27, PM

IR/Raman Spectroscopy

Chair: YAMAGUCHI, Shoichi (13 : 30~14 : 20)

\* 13:20-13:30: interval for laptop PC connection.(3A1-28, 3A1-30, 3A1-31, 3A1-32)

- 3A1-28\*** External electric field effect on the infrared spectra of vinylidene fluoride/trifluoroethylene copolymer thin films (Waseda Univ.) TAKASHIMA, Kenji; FURUKAWA, Yukio
- 3A1-30** Measurements and Analyses of Infrared Absorption Spectra of Radical Cation, Radical Cation Dimer, and Dication of Terthiophene (Graduate School of Science and Engineering, Saitama Univ.) ISHIZUKA, Ryuji; SAKAMOTO, Akira
- 3A1-31** Analyses of scales of *Pseudorasbora parva* by infrared microspectroscopic imaging (Graduate School of Science and Engineering, Saitama Univ.) SUZUKI, Akihiko; SAKAMOTO, Akira; MARUYAMA, Yusuke; HATTORI, Atsuhiko; NARA, Masayuki
- 3A1-32** Construction of near-IR multiplex inverse Raman spectrometer (Gakushuin Univ.) TAKAYA, Tomohisa; IWATA, Koichi

Chair: IWATA, Koichi (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(3A1-34, 3A1-35, 3A1-37)
- 3A1-34** Observation of Raman optical activity with polarization-resolved heterodyne coherent anti-Stokes Raman scattering (The Univ. of Tokyo, School of science, Department of chemistry.) HIRAMATSU, Kotaro; HAMAGUCHI, Hiro-o
- 3A1-35\*** Mechanism of vibrational sum frequency generation from nonpolar liquids (RIKEN) MATSUZAKI, Korenobi; NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; NAGATA, Takashi; TAHARA, Tahei
- 3A1-37\*** Raman spectroscopic study of the interaction in interface of polydimethylsilane/Multiwall Carbon Nanotubes Nanocomposites (Kwansei Gakuin Univ.) SUZUKI, Toshiaki; BOKOBZA, Liliane; OZAKI, Yukihiro

Chair: TAKAYA, Tomohisa (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(3A1-40, 3A1-41, 3A1-42, 3A1-44)
- 3A1-40** Active site structures of Photoactive Yellow Protein studied by a near-infrared Raman optical activity (Saga Univ.) SHINGAE, Takahito; KUBOTA, Kenshuke; KUMAUCHI, Masato; HOFF, Wouter; UNNO, Masashi
- 3A1-41** Raman Optical Activity of a Cyclic Dipeptide (Saga Univ.) URAGO, Hiroyasu; SUGA, Torao; KODAMA, Hiroaki; UNNO, Masashi
- 3A1-42\*** Development of femtosecond time-resolved HD-ESFG and observation of vibrational cooling dynamics of the solute at the air/water interface. (RIKEN) KUNDU, Achintya; YAMAGUCHI, Shoichi; TAHARA, Tahei
- 3A1-44\*** pH of the Water Surface Determined by HD-ESFG (RIKEN) YAMAGUCHI, Shoichi; KUNDU, Achintya; SEN, Pratik; TAHARA, Tahei

Chair: SHIMADA, Rintaro (16 : 40~17 : 40)

- \* 16:30-16:40: interval for laptop PC connection.(3A1-47, 3A1-48, 3A1-49, 3A1-51)
- 3A1-47** Assignment of a resonance Raman band of a heme *a* peripheral group in cytochrome *c* oxidase (Grad. Sch. Life. Sci., Univ. Hyogo) SAKAGUCHI, Miyuki; KATAYAMA, Yukie; FUJII, Hiroshi; SHIMADA, Hideo; OGURA, Takashi
- 3A1-48** Reconsideration of the conventional understanding of Raman tensor of the all-in-phase mode of the CH<sub>2</sub> symmetric stretching vibration of a totally extended polymethylene chain. (Tokyo Institute of Technology; Kyoto Univ.) ITO, Yuki; HASEGAWA, Takeshi
- 3A1-49\*** Hole-burning dynamics of interfacial water molecules by femtosecond time-resolved HD-VSFG spectroscopy (RIKEN) NIHONYANAGI, Satoshi; SINGH, Prashant; YAMAGUCHI, Shoichi; TAHARA, Tahei
- 3A1-51\*** Effect of salt on vibrational dynamics of interfacial water at a charged interface: A femtosecond time-resolved HD-VSFG study (RIKEN) SINGH, Prashant; NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; TAHARA, Tahei

## Room A2

4th Bldg., Section A J442

### Physical Chemistry –Chemical Kinetics and Dynamics–

Sunday, March 25, AM

Chair: TERASAKI, Akira (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1A2-01, 1A2-02, 1A2-03, 1A2-04, 1A2-05, 1A2-06)
- 1A2-01** Temperature dependence of CO oxidation by nickel oxide clusters (The Univ. of Tokyo Graduate School of Arts and Science) SAKUMA, Kazuko; MIYAJIMA, Ken; MAFUNE, Fumitaka
- 1A2-02** The reactivity with CO and temperature dependence of ceria-containing multi-element clusters (The Univ. of Tokyo, Graduate School of Arts and Science) KUDO, Saki; MIYAJIMA, Ken; MAFUNE, Fumitaka
- 1A2-03** Effects of doping hetero elements on the reactions of Pt<sub>m</sub> clusters with N<sub>2</sub>O (The Univ. of Tokyo, Graduate School of Arts and Science) YAMAMOTO, Hirotaka; MIYAJIMA, Ken; MAFUNE, Fumitaka
- 1A2-04** Comparison of the reactivity of neutral rhodium clusters and bimetallic Rh<sub>n</sub>Au<sub>1-4</sub> and Rh<sub>n</sub>Co<sub>1-3</sub> clusters with N<sub>2</sub>O and CO (The Univ. of Tokyo, Graduate School of Arts and Science) YAMADA, Akira; MIYAJIMA, Ken; MAFUNE, Fumitaka
- 1A2-05** Dissociation of hydrated iodide clusters in the gas phase produced by IR-laser Ablation of Droplet Beam (Dep. of Chemistry, Gakushuin Univ.) SASAKI, Nobuteru; KOHNO, Jun-ya
- 1A2-06** Development of scanning cavity enhanced droplet spectroscopy for detection of collisional reaction of liquid droplets (Gakushuin Univ.) KOHNO, Jun-ya; KOBAYASHI, Makoto; TAKESHIMA, Tooru; NAGASAKA, Mariko

Chair: MIYAJIMA, Ken (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1A2-08, 1A2-09, 1A2-10,

1A2-11, 1A2-12, 1A2-13)

- 1A2-08** Reactivity of size-selected aluminum cluster cations with water molecules (Faculty Sci., Kyushu Univ.) ARAKAWA, Masashi; KOHARA, Kei; SARUGAKU, Shun; TANIGUCHI, Yuki; ITO, Tomonori; TERASAKI, Akira
- 1A2-09** Adsorption kinetics of nitrogen molecules on silver cluster cations (Kyushu Univ.; Tokyo Univ. Sci.) ITO, Tomonori; TANIGUCHI, Yuki; SARUGAKU, Shun; KOHARA, Kei; ARAKAWA, Masashi; TSUKIYAMA, Koichi; TERASAKI, Akira
- 1A2-10** Temperature dependence of oxidation reactions for isomer-separated carbon cluster ions (Tohoku Univ.) OHTAKI, Tomohiro; KOYASU, Kiichirou; MISAIZU, Fuminori
- 1A2-11** Geometric structures of zinc oxide cluster ions studied by ion mobility spectrometry (Tohoku Univ.) KOMATSU, Kunihiko; KOYASU, Kiichirou; MISAIZU, Fuminori
- 1A2-12** Separation of isomers of silicon cluster ions and dissociation reaction (Tohoku Univ.) MORIYAMA, Ryoichi; KOYASU, Kiichirou; MISAIZU, Fuminori
- 1A2-13** HAADF-STEM Observation of Uni-Size Tungsten Oxide Cluster Disk (Toyota Tech. Inst.; Genesis Res. Inst., Inc.; Univ. of Tokyo) YASUMATSU, Hisato; HAYAKAWA, Tetsuichiro; TOHEI, Tetsuya; IKUHARA, Yuichi

Chair: KOHNO, Jun-Ya (11 : 20~12 : 30)

- \* 11:10-11:20: interval for laptop PC connection.(1A2-15, 1A2-16, 1A2-17, 1A2-18, 1A2-19, 1A2-20)
- 1A2-15** Gas-Phase Reactions of Cerium Oxide Cluster Cations with Oxygen (Genesis Res. Inst., Inc.) HIRABAYASHI, Shinichi; ICHIHASHI, Masahiko
- 1A2-16** Isolation, structural characterization and stability of an octaneselenolate-Protected Au<sub>25</sub> cluster (Tokyo Univ. of Science) KURASHIGE, Wataru; KAMIMURA, Ukyo; NEGISHI, Yuichi
- 1A2-17** Highly-dispersed Loading of Metal Nanoparticles Synthesized by-Liquid-phase Method on Photocatalyst (Tokyo Univ. of Science) HIRAYAMA, Michio; MIZSUNO, Masahiro; WATO, Tomoaki; KUDO, Akihiko; NEGISHI, Yuichi
- 1A2-18** Structure analysis of size-selected Ag nanoparticle clusters (Faculty of Science and Engineering, Chuo Univ.) SHINOHARA, Taiki; NISHIDA, Naoki; TANAKA, Hideki
- 1A2-19** Melting process of diameter-selected Ag nanoparticle produced in gas phase (Faculty of Science and Engineering, Chuo Univ.) SUGIURA, Daisuke; NISHIDA, Naoki; TANAKA, Hideki
- 1A2-20\*** Size-dependent catalytic activity and geometries of size-selected Pt clusters on TiO<sub>2</sub>(110) surfaces (Toyota Central R&D Labs. Inc., Toyota Motor Corp.) WATANABE, Yoshihide; HIRATA, Hirohito; ISOMURA, Noritake

### Sunday, March 25, PM

Chair: NEGISHI, Yuichi (13 : 40~14 : 50)

- \* 13:30-13:40: interval for laptop PC connection.(1A2-29, 1A2-30, 1A2-32, 1A2-34, 1A2-35)
- 1A2-29** Reaction pathways of intracuster polymerization of acrylonitrile trimer anions (RIKEN;Hiroshima Univ.;Toyota Phys. & Chem. Res. Institute;) OHSHIMO, Keiji; INOKUCHI, Yoshiya; EBATA, Takayuki; OHNO, Koichi
- 1A2-30\*** Photodissociation Spectroscopy of the Temperature-Controlled Hydrated Metal Ions (Kobe Univ.) ISHIKAWA, Haruki; NAKANO, Takumi; SHIBUKAWA, Takuya; FUKE, Kiyokazu
- 1A2-32\*** Temperature dependence of proton transfer reactions for multiply-charged biomolecular ions (Yokohama City Univ.) NONOSE, Shinji; YAMASHITA, Kazuki; SUDO, Ayako; MACHIDA, Keishi; ARAKAWA, Ryota; YOKOYMA, Kanako
- 1A2-34** Observation of clusters by Fourier transform ion cyclotron resonance mass spectrometry and characterization of trap processes. (School of Mechanical Engineering, The Univ. of Tokyo) KOBAYASHI, Hirokazu; CHIASHI, Shohei; MARUYAMA, Shigeo; SUGAI, Toshiki
- 1A2-35** Development of large-scale ion trap mobility system (Department of Chemistry, Toho Univ.) SUGAI, Toshiki; SAWANISHI, Yoshihiko; SHINOZAKI, Masashi; OSAKA, Sho

Chair: SUGAI, Toshiki (15 : 00~16 : 00)

- \* 14:50-15:00: interval for laptop PC connection.(1A2-37, 1A2-39, 1A2-41)
- 1A2-37\*** X-ray magnetic circular dichroism spectroscopy of size-selected iron cluster ions (Kyushu Univ., Toyota Tech, Genesis Res. Inst., Inc., Helmholtz-Zentrum Berlin, TU Berlin, Uni Freiburg) TERASAKI, Akira; EGASHIRA, Kazuhiro; NIEMEYER, Markus; HIRSCH, Konstantin; LANGENBERG, Andreas; ZAMUDIO-BAYER, Vicente; VOGEL, Marlene; KOSSICK, Martin; EBRECHT, Christof; MOELLER, Thomas; VON ISSENDORFF, Bernd; LAU, Tobias
- 1A2-39\*** Electronic states of the chromium dimer cation studied by visible absorption and X-ray magnetic circular dichroism measurements (Genesis Research Institute, Inc., Toyota Technological Institute, Kyushu Univ., Helmholtz-Zentrum Berlin, TU Berlin, Uni Freiburg) EGASHIRA, Kazuhiro; TERASAKI, Akira; NIEMEYER, Markus; HIRSCH,

Konstantin; LANGENBERG, Andreas; ZAMUDIO-BAYER, Vicente; VOGEL, Marlene; KOSSICK, Martin; EBRECHT, Christof; MOELLER, Thomas; VON ISSENDORFF, Bernd; LAU, Tobias

**1A2-41\*** H<sub>3</sub><sup>+</sup> generation from ethane molecules in intense laser fields by coincidence momentum imaging (School of Science, the Univ. of Tokyo) KANYA, Reika; KUDO, Tatsuya; SCHIRMEL, Nora; MIURA, Syun; WEITZEL, Karl-michael; HOSHINA, Kennosuke; YAMANOUCHI, Kaoru

Chair: KONO, Hirohiko (16 : 10~17 : 10)

\* 16:00-16:10: interval for laptop PC connection.(1A2-44, 1A2-45, 1A2-46, 1A2-48)

**1A2-44** Multiple ionization of hydrogen-bond complexes by femtosecond laser pulses (Niigata Univ. of Pharmacy and Applied Life Sciences) HOSHINA, Kennosuke; HAGIHARA, Hiroshi; TSUGE, Masashi

**1A2-45** Elongation of C-O distance in methanol associated with the first ionization in ultrashort intense laser field by molecular dynamics simulation with time-dependent adiabatic state method (School of Science, The Univ. of Tokyo) NISHIGUCHI, Yoshihiro; NAKAI, Katunori; YAMANOUCHI, Kaoru

**1A2-46\*** Study on multi-electron capture processes in collision between argon dimer and highly charged ions in low energy region (Tokyo Metropolitan Univ., GANIL) MATSUMOTO, Jun; SHIROMARU, Haruo; LEREDDE, A.; FLECHARD, X.; RANGAMA, J.; ZHOU, C. L.; GUILLOUS, S.; HENNECART, D.; MERY, A.; GERVAIS, B.; CASSIMI, A.

**1A2-48\*** Temperature-dependent laser-induced delayed reactions of molecular ions stored in an electrostatic ring (Tokyo Metropolitan Univ. Kyoto Univ. RIKEN, Univ. of Gothenburg) SATO, Tomoko; ITO, Gen; KOMAKURA, Ken-ichi; FURUKAWA, Takeshi; MAJIMA, Takuya; TANUMA, Hajime; AZUMA, Toshiyuki; KANAI, Tsuneto; HANSEN, Klavs; SUNDEN, Erika; GOTO, Motoshi; MATSUMOTO, Jun; ACHIBA, Yohji; SHIROMARU, Haruo

Chair: HOSHINA, Kennosuke (17 : 20~18 : 10)

\* 17:10-17:20: interval for laptop PC connection.(1A2-51, 1A2-52, 1A2-53, 1A2-54, 1A2-55)

**1A2-51** Photofragment imaging detection of mass-selected Mg<sup>+</sup>ICH<sub>3</sub> cluster ions (Tohoku Univ.) SAITO, Masataka; HOSHINO, Hiroshi; YAMAKITA, Yoshihiro; KOYASU, Kiichiro; MISAIZU, Fuminori

**1A2-52** Visible light induced oxidation reaction of DMS by O<sub>3</sub> (Tokyo Institute of Technology) WAKAMATSU, Daisuke; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko

**1A2-53** Emission enhancement of singlet oxygen by gaseous collisions (Tokyo Institute of Technology) HIDE MORI, Takehiro; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko

**1A2-54** Adiabatic and nonadiabatic reaction paths of the Stone-Wales rearrangement in pyrene. (Tohoku Univ.) YAMAZAKI, Kaoru; NIITSU, Naoyuki; NAKAMURA, Kosuke; KONO, Hirohiko

**1A2-55** Theoretical study of the substituent effects on the structures and photodetachment spectra of pi-conjugated molecules (Tohoku Univ., Graduate School of Science) NAKAMURA, Kosuke; KANNO, Manabu; KONO, Hirohiko

## Tuesday, March 27, AM

Chair: YOKOYAMA, Toshihiko (9 : 00 ~9 : 40)

\* 8:50-9:00: interval for laptop PC connection.(3A2-01, 3A2-02, 3A2-03, 3A2-04)

**3A2-01\*** The pH effect on oxygen reduction reaction at Au single crystal electrode surface (National Institute for Materials Science) TONG, Shengfu; NOGUCHI, Hidneori; UOSAKI, Kohei

**3A2-02** Effect of the Counter Anions for Cobalt Deposition Reaction at the Glassy Carbon Electrode Surface (Tokai Univ.) KOMATSU, Masaharu; OOSHIO, Shin

**3A2-03** Theoretical Analysis of Solvation and Desolvation Behavior of Mg<sup>2+</sup> in the THF-Family Solvents (Kyoto Univ.; Fuji Heavy Industries Ltd.) KAJI, Akihiro; SAEKI, Takuya; ITO, Akihiro; TANAKA, Kazuyoshi; HATOZAKI, Osamu

**3A2-04** Studies on the electrochemical reaction of boron doped diamond under magnetic field (Grad. of Eng., Utsunomiya Univ.) YANAOKA, Toshihiro; YOSHIHARA, Sachio

Chair: MISAWA, Hiroaki (9 : 50 ~10 : 50)

\* 9:40-9:50: interval for laptop PC connection.(3A2-06)

**3A2-06 CSJ Award for Creative Works** Nano-optical Studies on Physical and Chemical Characteristics of Noble Metal Nanostructures (IMS) OKAMOTO, Hiromi

Chair: ONISHI, Hiroshi (11 : 00~12 : 20)

\* 10:50-11:00: interval for laptop PC connection.(3A2-13, 3A2-15, 3A2-17, 3A2-19)

**3A2-13\*** Development of near-field microscopy with ultrashort laser pulse (< 20 fs) and observation of dephasing of plasmon in gold nanoparticle (Institute for Molecular Science) NISHIYAMA, Yoshio; WU, Hui Jun; NARUSHIMA, Tetsuya; IMURA, Kohei; OKAMOTO, Hiromi

**3A2-15\*** Direct observation of L-proline crystallization through dense liquid

droplet induced by photon pressure (National Chiao Tung Univ.; ITRC) MIURA, Atsushi; HUANG, Chong Wei; YUYAMA, Ken-ichi; UWADA, Takayuki; USMAN, Anwar; SUGIYAMA, Teruki; MASUHARA, Hiroshi

**3A2-17\*** Structure Kinetics of Pt-Co/C Fuel Cell Cathode Catalyst by In-situ Time-resolved XAFS (IMS; Univ. of Tokyo; Univ. of Electro-Communications; SPring-8; Tokushima Univ.) ISHIGURO, Nozomu; SAIDA, Takahiro; NAGAMATSU, Shin-ichi; SEKIZAWA, Oki; URUGA, Tomoya; YAMAMOTO, Takashi; YOKOYAMA, Toshihiko; OHKOSHI, Shin-ichi; TADA, Mizuki

**3A2-19\*** Preparation of electrocatalysts from molecules by bottom-up methods (Hokkaido Univ.) OKAWA, Yukihisa; UOSAKI, Kohei

## Tuesday, March 27, PM

Chair: TAMAI, Naoto (13 : 30~14 : 00)

\* 13:20-13:30: interval for laptop PC connection.(3A2-28)

**3A2-28 CSJ Award for Young Chemists** Fabrication of Enhanced Optical Fields Using Nano-engineered Metallic Particles and Its Application to Chemical Reactions (RIES, Hokkaido Univ.) UENO, Kosei

Chair: FUJII, Masaaki (14 : 10~15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(3A2-32)

**3A2-32 CSJ Award for Creative Works** Study of Steady-State and Dynamic Properties of Condensed-Phase Molecules by Advanced Spectroscopy Using Ultrashort Optical Pulses (RIKEN) TAHARA, Tahei

Chair: SAEKI, Morihisa (15 : 20~16 : 20)

\* 15:10-15:20: interval for laptop PC connection.(3A2-39, 3A2-40, 3A2-41, 3A2-43, 3A2-44)

**3A2-39** Development of functionally gradient thin PEMs by EB grafting (RISE, Waseda Univ.) HIRAIWA, Satoshi; TUTSHIDA, Ryota; YOSHIKAWA, Taeko; OSHIMA, Akihiro; WASHIO, Masakazu

**3A2-40** Fabrication of PEMs with micro-patterning structure by quantum beam irradiation for DMFC (RISE, Waseda Univ.) TSUCHIDA, Ryota; HIRAIWA, Satoshi; TATSUMI, Takahiro; YOSHIKAWA, Taeko; OSHIMA, Akihiro; WASHIO, Masakazu

**3A2-41\*** Radiolysis of water: Temporal behaviors of OH radical at early time and at elevated temperatures (NSED/JAEA; Univ. Tokyo; Univ. Paris-Sud) LIN, Mingzhang; KATSUMURA, Yosuke; MUROYA, Yusa; MOSTAFAVI, Mehran

**3A2-43** Solvent effect on radiation induced polymerization (Tokyo Metropolitan Industrial Technology Research Institute; Japan Atomic Energy Agency) NAKAGAWA, Seiko; TAGUCHI, Mitsumasa; KIMURA, Atsushi

**3A2-44** UVA Bystander effect on melanogenesis of B16 mouse skin cells (Kyoto Univ; Nihon Kolmar Co.Ltd; Nagoya Univ.) NISHIURA, Hideki; KASHINO, Genro; WATANABE, Masami; KUMAGAI, Jun

Chair: NAKAGAWA, Seiko (16 : 30~17 : 40)

\* 16:20-16:30: interval for laptop PC connection.(3A2-46, 3A2-47, 3A2-49, 3A2-51)

**3A2-46** Ageing study of cable insulation by means of microwave absorption method (Fukui Univ. of Technology; Osaka Univ.) SUNAGAWA, Takeyoshi; SAEKI, Akinori; SEKI, Shu

**3A2-47\*** Femtosecond pulse radiolysis study of ultra fast charge transfer in n-dodecane (ISIR, Osaka Univ.) KONDOH, Takafumi; YANG, Jinfeng; NORIZAWA, Kimihiro; KAN, Koichi; OGATA, Atsushi; KOBAYASHI, Hitoshi; YOSHIDA, Yoichi

**3A2-49\*** Femtosecond pulse radiolysis study on formation and reaction process of hydrated electron (ISIR, Osaka Univ.) NORIZAWA, Kimihiro; TOIGAWA, Tomohiro; KONDOH, Takafumi; KAN, Koichi; YANG, Jinfeng; OGATA, Atsushi; YOSHIDA, Yoichi

**3A2-51\*** One-Electron Reductive Cleavage of S-Adenosylmethionine (SAM) Studied by Pulse Radiolysis: Reaction Mechanism of The Radical SAM Enzyme (ISIR, Osaka Univ.) KOBAYASHI, Kazuo; ITO, Hirohito; NAKAI, Tadashi; OKAJIMA, Toshohide; TANIZAWA, Katsuyuki; KOZAWA, Takahiro

## Room A3

4th Bldg., Section A J443

## Physical Chemistry -Chemical Kinetics and Dynamics-

Sunday, March 25, AM

### Interface

Chair: NAKATA, Satoshi (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1A3-01, 1A3-02, 1A3-03, 1A3-05, 1A3-06)

- 1A3-01** Grouped Motion of Self-propelled Oil Droplets in Surfactant Solution in the Presence of Carboxylic Acid (Graduate School of Arts and Sciences, The Univ. of Tokyo) KUROHA, Rie; BANNO, Taisuke; TOYOTA, Taro
- 1A3-02** Effect of salt additives on spontaneous motion of oil droplet in surfactant aqueous solution (Kanagawa Univ.) WAKIMOTO, Kosuke; NANZAI, Ben; IGAWA, Manabu
- 1A3-03\*** Spontaneous formation of convection formed in bilayer interface of n-butanol/water (Department of Applied Chemistry, Kanagawa Institute of Technology) HONDA, Kazuhiro; YOSHIDA, Miki
- 1A3-05** Emergence of macroscopic spiral alignment of fullerene microcrystals at the dissipative interface (AIST) SUZUKI, Kosuke; YAMAGUCHI, Tomohiko
- 1A3-06** Spontaneous interfacial motion of the interface at nitrobenzene with ZnCl<sub>2</sub>/aqueous solution of trimethylstearylammonium chloride (Tokyo Institute of Technology) TSURUKI, Yuta; ISOBE, Toshihiro; NAKAJIMA, Akira; MATSUSHITA, Sachiko

Chair: TOYOTA, Taro (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1A3-08, 1A3-09, 1A3-10, 1A3-11, 1A3-12, 1A3-13)
- 1A3-08** Suppression and regeneration of camphor-driven Marangoni flow with the addition of sodium dodecyl sulfate (Hiroshima Univ.) TENNO, Ryoichi; IKURA, S.Yumihiko; NAKATA, Satoshi; SUEMATSU, J.Nobuhiko; KITAHATA, Hiroyuki; IZUMI, Syunsuke; HIRAGA, Yoshikazu
- 1A3-09** Chemical response to a molecular layer with a N-shaped surface pressure - area isotherm (Hiroshima Univ.) SATO, Taisuke; NAKATA, Satoshi; IZUMI, Shunsuke
- 1A3-10** Pressure response of Self-Oscillating Polymer Gel (Graduate School of Science, Hiroshima Univ.) SHIOTA, Takaya; NAKATA, Satoshi
- 1A3-11** Interaction between camphor boats self-propelled on 1-dimensional water chamber (Meiji Univ. Adv. Math. Sci.) SUEMATSU, J. Nobuhiko; HEISLER, Eric; NISHIMORI, Hiraku; NAKATA, Satoshi
- 1A3-12** Structural Analysis and Morphological Control of Oleic Self-assembly in Aqueous Solution (Hokkaido Univ.; The Univ. of Tokyo) KAGEYAMA, Yoshikyuki; IWAKI, Sachiko; TANIGAKE, Naruho; SUZUKI, Kentaro; SUGAWARA, Tadashi; TAKEDA, Sadamu
- 1A3-13** Control of pH wave propagation and mass transport in microchannels (Yamagata Univ.) SATO, Mami; UNOURA, Kei; NABIKAWA, Hideki

Chair: TAKEDA, Sadamu (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(1A3-15, 1A3-16, 1A3-17, 1A3-18, 1A3-20)
- 1A3-15** Oscillatory Phenomena in Bacterial Bioluminescence (Tokyo Univ. Technology) SASAKI, Satoshi
- 1A3-16** Analysis of dynamic bioluminescence patterns emerging on a colony of luminous bacterium (Kyoto Institute of Technology) KARATANI, Hajime; KAWAKAMI, Hajimu; HATTORI, Kensaku
- 1A3-17** Control of reversible dispersed state oscillation of Au nanoparticle by using pH oscillation. (Yamagata Univ.) OIKAWA, Tetsuro; UNOURA, Kei; NABIKAWA, Hideki
- 1A3-18\*** Mechanism of generation of chaos in the photosensitive Belousov-Zhabotinsky reaction (Graduate school of environment and information sciences, Yokohama National Univ.) AMEMIYA, Takashi; MAHARA, Hitoshi; YAMAMOTO, Tetsuya; ITOH, Kiminori; YAMAGUCHI, Tomohiko
- 1A3-20** Rebirth of a Dead Belousov-Zhabotinsky Oscillator (Mito Dai-ni Senior High School) ONUMA, Hitomi; OKUBO, Ayaka; YOKOKAWA, Mai; SAWAHATA, Hiroyuki

### Sunday, March 25, PM

Chair: FUJITSUKA, Mamoru (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1A3-28, 1A3-30, 1A3-31, 1A3-32, 1A3-33)
- 1A3-28\*** Coupling of Self-Propelled Motion and Division of Oil Droplets Consisted of Benzaldehyde Derivative and Long-Chain Alcohol (Univ. of Tokyo; PRESTO, JST) BANNO, Taisuke; KUROHA, Rie; TOYOTA, Taro
- 1A3-30** Size-dependent Intraband Relaxation Dynamics in CdTe Quantum Dots by State-selective Transient Absorption Spectroscopy (School of Science and Technology, Kwansai Gakuin Univ.) MORINISHI, Yuta; OKUHATA, Tomoki; KOBAYASHI, Yoichi; TAMAI, Naoto
- 1A3-31** Electron Transfer and Auger Recombination of Water-soluble CdTe QDs-Acceptor System by Time-resolved Laser Spectroscopy (School of Science and Technology, Kwansai Gakuin Univ.) Nur Utami Prihastiyanti, Monika; SAGARUZAZU, Gabriel; WANG, Li; TAMAI, Naoto
- 1A3-32\*** Auger recombination of CdTe/CdS core/shell quantum dots (School of Science and Technology, Kwansai Gakuin Univ.) WANG, Li; TIAN, Yumei; MATSUMOTO, Yusuke; TAMAI, Naoto
- 1A3-33\*** Single Particle Spectroscopy of Au-CdSe nanorods (School of Science and Technology, Kwansai Gakuin Univ.) SAGARUZAZU, Gabriel; INOUE, Kohki; TERANISHI, Toshiharu; MASUO, Sadahiro; TAMAI, Naoto

Chair: MIYASAKA, Hiroshi (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(1A3-35, 1A3-36, 1A3-37, 1A3-39)

- 1A3-35** Surface Modification of Quantum Dots by Photoinduced Electron Transfer Reactions (Kagawa Univ., AIST) HAMADA, Morihiko; NAKANISHI, Shunsuke; ISHIKAWA, Mitsuru; BIJU, Vasudevan Pillai
- 1A3-36** Photoconductivity of Single Crystal of 9-Mesityl-10-methylacridinium Ion (Osaka Univ.; ALCA, JST) FUJIMOTO, Atsushi; OHKUBO, Kei; FUKUZUMI, Shunichi
- 1A3-37\*\*** Control over Photoinduced Energy and Electron Transfer in Supramolecular Polyads of Covalently Linked azabodipy-Bisporphyrin 'Molecular Clip' Hosting Fullerene (Osaka Univ.; ALCA, JST; Univ. of North Texas.) EL-KHOULY, Mohamed E.; FRANCIS, D'souza; FUKUZUMI, Shunichi
- 1A3-39\*\*** Photoinduced Charge Separation in FerroceneNaphthalenediimide[60] Fullerene Triad via Stepwise Electron Transfer (Osaka Univ.; ALCA, JST; Ajou Univ.) SUPUR, Mustafa; EL-KHOULY, Mohamed E.; KAY, Kwang-yol; FUKUZUMI, Shunichi

Chair: FUKUZUMI, Shunichi (15 : 50~16 : 40)

- \* 15:40-15:50: interval for laptop PC connection.(1A3-42, 1A3-43, 1A3-45)
- 1A3-42** Size-Dependent Fluorescence Properties of [n]Cycloparaphenylenes (n = 8 - 13) (ISIR, Osaka Univ.; ICR, Kyoto Univ.) FUJITSUKA, Mamoru; CHO, Dae Won; IWAMOTO, Takahiro; YAMAGO, Shigeru; MAJIMA, Tetsuro
- 1A3-43\*** Single-Molecule Fluorescence Observation of Dye-Sensitized Charge Transfer on NiO Nanoparticles (ISIR, Osaka Univ.) TACHIKAWA, Takashi; BIAN, Zhenfeng; FUJITSUKA, Mamoru; MAJIMA, Tetsuro
- 1A3-45\*** Withdrawn

Chair: MIURA, Tomoaki (16 : 50~17 : 20)

- \* 16:40-16:50: interval for laptop PC connection.(1A3-48, 1A3-49, 1A3-50)
- 1A3-48** Photochromic Reaction on Diarylethene Derivatives through the Triplet Excited State (Saitama Univ.) MURATA, Ryutarou; YAGO, Tomoaki; WAKASA, Masanobu
- 1A3-49** Hydrogen Bonding Effect in Electron Transfer Reactions as Studied by Nanosecond Transient Absorption (Saitama Univ.) YOSHIOKA, Hayato; YAGO, Tomoaki; WAKASA, Masanobu
- 1A3-50\*** Photoluminescence enhancement of luminescent materials using nano-engineered gold particles (RIES-Hokkaido Univ.) TENG, Yu; SHI, Xu; AOYO, Daisuke; ZHANG, Youzhan; MUTO, Masamitsu; UENO, Kosei; MISAWA, Hiroaki; QIU, Jianrong

### Tuesday, March 27, AM

#### Surface

Chair: TERAZIMA, Masahide (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3A3-01, 3A3-02, 3A3-04, 3A3-05)
- 3A3-01** Orientation dynamics of nematic liquid crystal measured by heterodyne transient grating method (Chuo Univ.) CHIBA, Takaaki; INOUE, Hayato; KATAYAMA, Kenji; KUWAHARA, Shota
- 3A3-02\*** Phase transition and relaxation dynamics of poly(N-isopropylacrylamide) aqueous solution measured using the laser temperature jump transient grating method (Chuo Univ.) INOUE, Hayato; YAMAMOTO, Takayuki; KUWAHARA, Shota; KATAYAMA, Kenji; IWAI, Kaoru; MIURA, Atsushi; MASUHARA, Hiroshi
- 3A3-04** Light curing dynamics of a photopolymer measured by the heterodyne transient grating technique (Chuo Univ.) ARAI, Mika; INOUE, Hayato; KUWAHARA, Shota; KATAYAMA, Kenji
- 3A3-05\*** New Photo-Isomerization Paths of Indocyanine Green in Condensed Phase Investigated by Ultrafast Transient Absorption Spectroscopy (Kobe Univ.) FUYUKI, Masanori; FURUTA, Koichi; WADA, Akihide

Chair: KATAYAMA, Kenji (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3A3-08, 3A3-10, 3A3-12)
- 3A3-08\*** Spatial transformations of porous coordination polymer crystals with topochemical photoreactions (JST-ERATO; iCeMS, Kyoto Univ.) SATO, Hiroshi; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 3A3-10\*** Luminescence property of single molecules on two-dimensional photonic crystal slabs (NICT; Advanced ICT Research Inst.) KAJI, Takahiro; YAMADA, Toshiaki; INOUE, Shin-ichiro; UEDA, Rieko; OTOMO, Akira
- 3A3-12\*** Volume fluctuation change upon the photo-induced helix unfolding of Phototropin (Department of Chemistry Graduate School of Science Kyoto Univ.) KUROKI, Kunisato; SATO, Francielle; NAKASONE, Yusuke; JIKIHARA, Kazunori; TOKUTOMI, Satoru; TERAZIMA, Masahide

#### Magnetic

Chair: YAMAUCHI, Seigo (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3A3-15, 3A3-16, 3A3-18, 3A3-19, 3A3-20)
- 3A3-15** Magnetic Field Effects on Photoelectrochemical Reactions of Electrodes Modified with Poly(3-hexylthiophene) Thin Films (Department of Materials Physics and Chemistry, Graduate School of Engineering, Kyushu Univ. YAMADA laboratory) TAKATA, Masayuki; YONEMURA, Hiroaki;

YAMADA, Sunao

- 3A3-16\*** Magnetic Field Effects on Photoinduced Electron Transfer Reactions in Donor-Viologen Linked Compounds in Ionic Liquids (Faculty of Engineering, Kyushu Univ.; Graduate school of Engineering, Kyushu Univ.) YONEMURA, Hiroaki; TAHARA, Hironobu; NAKASHIMA, Akio; YAMADA, Sunao
- 3A3-18** Effects of high magnetic field up to 5 T on NIH3T3 mouse fibroblasts growth (Graduate School of Science and Engineering, Saitama Univ.) MATSUI, Hiroki; SAKAI, Takafumi; WAKASA, Masanobu
- 3A3-19** Magnetic Field Effects on Photoinduced Electron Transfer Reactions in Ionic Liquids (Saitama Univ.) ISHII, Yuya; YAGO, Tomoaki; WAKASA, Masanobu
- 3A3-20** Magnetic Field Effects on Photoinduced Intramolecular Hydrogen Abstraction Reactions of Benzophenone-Phenol Chain-Linked Compound in Ionic Liquids (Univ. of Saitama) IWASAKI, Sachiyo; YAGO, Tomoaki; WAKASA, Masanobu

Tuesday, March 27, PM

Magnetic

Chair: KIMURA, Yoshifumi (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(3A3-28, 3A3-29, 3A3-30, 3A3-31, 3A3-32, 3A3-33)
- 3A3-28** Viscosity Dependence of Excited Triplet State EPR Signals of Fullerene in Liquid Solution (Tohoku Univ., IMRAM) KAMIYA, Akitsugu; OHBA, Yasunori; YAMAUCHI, Seigo
- 3A3-29** Electron spin dynamics and pair interaction between xanthene dye molecule and nitroxide radical (Tokyo Tech.) IWAMA, Masaki; TAKAHASHI, Hirona; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko
- 3A3-30** Theoretical Study of the Unique Polarization Transfer in Photo-Excited High-Spin States of Doublet- Triplet System (Osaka City Univ.) MATSUMOTO, Takafumi; TEKI, Yoshio
- 3A3-31** Photoinduced Electron Transfer in Long-chain-Alkyl Viologen - Micelle Complex and Spin Dynamics of the Radical Ion Pair (Faculty of Science and Technology, Keio Univ.) MIURA, Tomoaki; HASOBE, Taku
- 3A3-32** Dynamics of the primary charge-separated states in the photosynthetic reaction centers (Faculty of Science, Shizuoka Univ.) KOBORI, Yasuhiro; AONO, Shiho; NORRIS, James R.
- 3A3-33** Theoretical analysis on time dependence of magnetic field effects on photochemical reactions with stochastic Liouville equation (Saitama Univ.) YAGO, Tomoaki; WAKASA, Masanobu

Chair: ITO, Syoji (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(3A3-35, 3A3-36, 3A3-38, 3A3-39, 3A3-40)
- 3A3-35** Carbon Isotope Enrichment on the Photochemical reaction of Benzophenone by Pulsed-Microwave Irradiation (Graduate School of Science & Engineering, Saitama Univ.) IWAMI, Noriyuki; YAGO, Tomoaki; WAKASA, Masanobu
- 3A3-36\*** Phase separation dynamics of thermo-responsive polymers as revealed by laser T jump technique (Hokkaido Univ. JST-PRESTO) TSUBOI, Yasuyuki; KIKUCHI, Kanae; TADA, Takanori; KITMURA, Noboru; SHIMOMOTO, Hiroaki; KANAOKA, Hiroaki; AOSHIMA, Sadahito
- 3A3-38** Acceleration of thermoresponsive phase separation of aqueous poly (N-isopropylacrylamide) solutions by tacticity control (Hokkaido Univ.) TADA, Takanori; KITAMURA, Noboru; KATSUMOTO, Yukiteru; TSUBOI, Yasuyuki
- 3A3-39** Absorption Anisotropy and Its Relaxation of TiO<sub>2</sub> Photocarrier Studied with Femtosecond Time-resolved Near-IR Spectroscopy (Gakushuin Univ.) SUGANO, Tomoko; TAKAYA, Tomohisa; IWATA, Koichi
- 3A3-40** Relationship between the excitation wavelength dependence of intramolecular proton transfer reaction in room temperature ionic liquids and structural heterogeneity (Graduate School of Science, Kyoto Univ) SUDA, Kayo; TERAZIMA, Masahide; KIMURA, Yoshifumi

Chair: KAWAI, Akio (15:50~16:50)

- \* 15:40-15:50: interval for laptop PC connection.(3A3-42, 3A3-43, 3A3-44, 3A3-45, 3A3-46)
- 3A3-42** Photo-dissociation dynamics of di-sulfide compounds in ionic liquids (Graduate School of Science, Kyoto Univ) OSAWA, Koji; TERAZIMA, Masahide; KIMURA, Yoshifumi
- 3A3-43** Deposition of size- and shape-controlled silver nanoparticles on glass substrates by simultaneous irradiations with UV and NIR lasers (Graduate School of Engineering Science and Center for Quantum Material Science under Extreme Conditions, Osaka Univ.) YAMAUCHI, Hiroaki; ITO, Syoji; MIYASAKA, Hiroshi
- 3A3-44** Three-dimensional evaluation of polymer microscopic physical-properties by using single molecule fluorescence imaging (Graduate School of Engineering Science and Center for Quantum Materials Science under Extreme Conditions, Osaka Univ.) TAGA, Yuhei; ITO, Shoji; TAKEI, Satoshi; MIYASAKA, Hiroshi
- 3A3-45** Excited-state dynamics of C<sub>60</sub> nano-colloid produced by laser ablation in water (Ehime Univ.; Osaka Univ.) ISHIBASHI, Yukihide; ARINISHI,

Miya; ASahi, Tsuyoshi; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi

- 3A3-46\*** Plasmon-enhanced optical trapping of nanoparticles:trapping efficiency dependent on excitation light source and electric field enhancement (Hokkaido Univ.) SHOJI, Tatsuya; SHIBATA, Michiko; KITAMURA, Noboru; TAKASE, Mai; MURAKOSHI, Kei; NISHIJIMA, Yoshiaki; UENO, Kosei; MISAWA, Hiroaki; MIZUMOTO, Yoshihiko; ISHIHARA, Hajime; TSUBOI, Yasuyuki

Chair: WADA, Akihide (17:00~18:00)

- \* 16:50-17:00: interval for laptop PC connection.(3A3-49, 3A3-50, 3A3-51, 3A3-52, 3A3-54)
- 3A3-49** Plasmon-based optical trapping and pattern formation of polymer microgels labeled with a fluorescent probe (Hokkaido Univ.) TOSHIMITSU, Mariko; SHOJI, Tatsuya; KITAMURA, Noboru; MATSUMURA, Yuriko; TAKASE, Mai; MURAKOSHI, Kei; ISHIHARA, Hajime; TSUBOI, Yasuyuki
- 3A3-50** Mechanism of Two Color and Two Step Photo-reduction from Yb<sup>3+</sup> C to Yb<sup>2+</sup> C (Toyota Riken; Toyota Central R&D Labs., Inc.; Osaka City Univ.) NAKASHIMA, Nobuaki; YAMANAKA, Ken-ichi; YATSUHASHI, Tomoyuki
- 3A3-51** Photoreaction of Ketoprofen with Amino Acids (Aoyama Gakuin Univ.) SHINODA, Mio; ISOZAKI, Tasuku; SUZUKI, Tadashi
- 3A3-52\*** Dependence of Plasmonic Enhancement Effect for Photocycloreversion Reaction of Various Diarylethene Derivatives on Particle Size, Distance, and Irradiation Wavelength (Graduate School of Engineering, Osaka City Univ.; Graduate School of Science and Engineering, Ehime Univ.) NISHII, Hiroyasu; ASahi, Tsuyoshi; KOBATAKE, Seiya
- 3A3-54** Surface Plasmon Resonance Changes in Gold Nanoparticles Covered with Thermoresponsive Polymers Having Diarylethene as the End Group (Graduate School of Engineering, Osaka City Univ.) IMAO, Shotaro; NISHII, Hiroyasu; KOBATAKE, Seiya

**Room A4**  
4th Bldg., Section A J444

Theoretical Chemistry, Informatics Chemistry and Computational Chemistry

Sunday, March 25, AM

Electronic structure

Chair: MOCHIZUKI, Yuji (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1A4-08, 1A4-09, 1A4-10, 1A4-11, 1A4-13)
- 1A4-08** Theoretical study on the electronic transition properties and the first hyperpolarizabilities of donor/accepter substituted  $\pi$ -conjugated molecules by the tuned LC-TDDFT method (Osaka Univ.) MURATA, Yusuke; KISHIMOTO, Shingo; ITO, Soichi; YAMADA, Taishi; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi
- 1A4-09** Theoretical study of solvatochromism in 2,5-diphenylphosphole using RISM-SCF-SEDD method (Kyoto Univ.) HASE, Yugo; SATO, Hirofumi
- 1A4-10** Theoretical Study of Luminescence of Ladder-type  $\pi$ -conjugated Compounds in Solid State (Kyoto Univ.) NARITA, Masahiro; SATO, Hirofumi; NAKAO, Yoshihide
- 1A4-11\*** Theoretical Study on the Photodissociation Process of ICl and the Angular Momentum Polarization of Cl(<sup>2</sup>P<sub>3/2</sub>) Fragment (Keio Univ.) MATSUOKA, Takahide; OONISHI, Sayo; YABUSHITA, Satoshi
- 1A4-13** Analytical derivative method for the frequency-dependent polarizability and its applications to theoretical calculations of photoionization cross-sections and asymmetry parameters. (Keio Univ. theoretical chemistry laboratory) MATSUZAKI, Rei; YABUSHITA, Satoshi

Chair: IMAMURA, Yutaka (11:20~12:00)

- \* 11:10-11:20: interval for laptop PC connection.(1A4-15, 1A4-17, 1A4-18)
- 1A4-15\*** Theoretical study on the open-shell characters and third-order nonlinear optical properties of donor/acceptor substituted graphene nanoflakes (Osaka Univ.) YONEDA, Kyohei; MINAMIDE, Shu; YAMAMOTO, Kohei; ITO, Soichi; YAMADA, Taishi; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi
- 1A4-17** Theoretical study on the open-shell characters and third-order nonlinear optical properties of boron/nitrogen-substituted graphene nanoflakes (Osaka University) YAMAMOTO, Kohei; YONEDA, Kyohei; MINAMIDE, Shu; ITO, Soichi; YAMADA, Taishi; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi
- 1A4-18** Theoretical study on nonlinear optical properties of Si nanocrystal model molecules (Osaka Univ.) KUWABARA, Hiroyuki; SHIGETA, Yasuteru; INUI, Tomoya; KISHI, Ryohei; NAKANO, Masayoshi

14:40)

## Sunday, March 25, PM

Chair: NAGAOKA, Masataka (13 : 40~14 : 40)

- \* 13:30-13:40: interval for laptop PC connection.(1A4-29, 1A4-31, 1A4-32, 1A4-33, 1A4-34)
- 1A4-29\*** Multireference electronic-structure theory based on the density matrix renormalization group algorithm: Theory and application to the study of the manganese cluster in PS II (Inst. Mol. Sci.) KURASHIGE, Yuki; YANAI, Takeshi
- 1A4-31** Hybrid DFT method from the viewpoint of quantum chemical calculations of magnetic interaction on di-chromium complex (Osaka Univ.) KITAGAWA, Yasutaka; YASUDA, Natsumi; HATAKE, Hiroshi; MATSUI, Tohru; KATAOKA, Yusuke; SAITO, Tohru; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka
- 1A4-32** Theoretical Study on Magnetism of Oxalato-Bridged Multi-nuclear Complex (Kyoto University) NOGUCHI, Junki; SATO, Hirohumi; NAKAO, Yoshihide
- 1A4-33** Development and Acceleration of the Analytical Energy Gradient for the Infinite-Order Douglas-Kroll Approach (Waseda Univ.) NAKAJIMA, Yuya; SEINO, Junji; NAKAI, Hiromi
- 1A4-34** Generalized electron correlation theories based on relativistic two-component method (Waseda Univ.) NAKANO, Masahiko; SEINO, Junji; NAKAI, Hiromi

## Monday, March 26, AM

Chair: YANAI, Takeshi (9 : 10 ~ 10 : 10)

- \* 9:00-9:10: interval for laptop PC connection.(2A4-02, 2A4-04, 2A4-05, 2A4-06, 2A4-07)
- 2A4-02\*** Theoretical studies of weak charge-transfer complexes with perturbation theories based on locally projected molecular orbitals (Toyota Phys. and Chem. Research Inst.) IWATA, Suehiro
- 2A4-04** Theoretical Study of Noble Gas Compounds, NgBeO and NgBeOBH<sub>3</sub> (Ng = He, Ne, Ar): Structure, Stability, and Bonding (Ochanomizu Univ.) SUTO, Hitomi; MORI, Hiroto; TAKANO, Keiko
- 2A4-05** Analysis of the behavior of electrons in water induced by intra- and intermolecular vibrations (Shizuoka Univ.) TORII, Hajime
- 2A4-06** Nitrogen Doping Effects on Electronic Conditions and Catalytic Activities of Carbon Alloy Catalysts (Univ. of Tokyo) HATA, Tomoyuki; USHIYAMA, Hiroshi; YAMASHITA, Koichi
- 2A4-07** Constrained DFT Calculation on Triplet Electron Transfer Process (Univ. of Tsukuba) AIKAWA, Koharu; MORIHASHI, Kenji
- Chair: MORI, Hiroto (10 : 20~11 : 10)
- \* 10:10-10:20: interval for laptop PC connection.(2A4-09, 2A4-11, 2A4-12, 2A4-13)
- 2A4-09\*** Hund's multiplicity rule in two-electron atoms: Structure of the conjugate Fermi holes (Nihon Univ. CST; ISAS) SAKO, Tokuei; ICHIMURA, Atsushi
- 2A4-11** Canonical transcorrelated theory with Slater-type geminals (Institute for Molecular Science) YANAI, Takeshi; SHIOZAKI, Toru
- 2A4-12** Theoretical Study on the Collision Induced Dissociation Processes of Trihalide Anions (Keio Univ. Faculty of Science and Technology theoretical chemistry laboratory) ABE, Shunpei; MURAKAMI, Satomi; YABUSHITA, Satoshi
- 2A4-13** Non-Born-Oppenheimer electron-nuclear wave function of a one-dimensional hydrogen molecule by multiconfigurational time-dependent Hartree-Fock approach (Univ. of Tokyo) IDE, Yoshihiro; KATO, Tsuyoshi; YAMANOUCI, Kaoru

Chair: SAKO, Tokuei (11 : 20~12 : 00)

- \* 11:10-11:20: interval for laptop PC connection.(2A4-15, 2A4-17)
- 2A4-15\*** Can time-dependent Schrödinger equation accurately describe the time evolution of quantum states? (Saitama Univ., Kyoto Univ. Energy Science) NOHIRA, Hiroyuki; NOHIRA, Toshiyuki
- 2A4-17\*** Study of algebraic molecular orbital equation based on polynomials of STO molecular integrals (Canon Research Center) YASUI, Jun

Asian International Symposium  
-Theoretical Chemistry, Chemoinformatics,  
Computational Chemistry-

## Monday, March 26, PM

Chair: TACHIKAWA, Masanori (13 : 20~14 : 40)

- 2A4-27\*** Opening Remarks (Waseda Univ.) NAKAI, Hiromi (13:20~13:30)
- 2A4-28\*** Keynote Lecture Computational Understanding of Physical and Chemical Properties of Graphene-based Systems (National Univ. of Singapore) ZHANG, Chun (13:30~14:00)
- 2A4-31\*** Invited Lecture Photo-excited non-adiabatic dynamics in nano materials (Kyoto Univ.) KIM, Hyeon-Deuk (14:00~14:20)
- 2A4-33\*** Invited Lecture Frontiers in electronic structure calculations for single molecular junctions (Univ. of Tokyo) TADA, Tomofumi (14:20~

Chair: TORII, Hajime (14 : 50~16 : 10)

- 2A4-36\*** Invited Lecture Theoretical study on multiply core ionized states generated by short-wavelength free electron laser (Waseda Univ.) IMAMURA, Yutaka (14:50~15:10)
- 2A4-38\*** Invited Lecture Theoretical investigation of the positron binding to molecules with quantum Monte Carlo method (Yokohama-City Univ.) KITA, Yukiumi; YAMADA, Yurika; TACHIKAWA, Masanori (15:10~15:30)
- 2A4-40\*** Invited Lecture Energy relaxation and spectral diffusion of intermolecular motions in liquid water (Institute for Molecular Science) YAGASAKI, Takuma (15:30~15:50)
- 2A4-42\*** Invited Lecture Differences in hydration between *cis*- and *trans*-platin: Quantum insights by *ab initio* fragment molecular orbital-based molecular dynamics (Ochanomizu Univ.; AIST; Rikkyo Univ.) MORI, Hiroto; HIRAYAMA, Natsumi; KOMIJI, Yuto; MOCHIZUKI, Yuji (15:50~16:10)

Chair: NAKAI, Hiromi (16 : 20~17 : 40)

- 2A4-45\*** Keynote Lecture Development of first-principles based multi-model methods to design novel materials for energy applications (IAMS, Academia Sinica) KUO, Jer-Lai (16:20~16:50)
- 2A4-48\*** Invited Lecture Computational modeling of polymer electrolyte membranes for fuel cell applications (National Institute of Advanced Industrial Science & Technology) CHOE, Yoong-Kee (16:50~17:10)
- 2A4-50\*** Invited Lecture First-principles analysis on proton transport pathways of cytochrome *c* oxidase (Osaka Univ.; Univ. of Tsukuba) SHIGETA, Yasuteru; KAMIYA, Katsumasa (17:10~17:30)
- 2A4-52\*** Closing Remarks (Shizuoka Univ.) TORII, Hajime (17:30~17:40)

Theoretical Chemistry, Informatics Chemistry  
and Computational Chemistry

## Tuesday, March 27, AM

## Chemical reaction, Simulation

Chair: MAEDA, Satoshi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3A4-01, 3A4-03, 3A4-04, 3A4-05, 3A4-06)
- 3A4-01\*** Improvement and Application of Single Amino Acid Potential Force Field (Tokai Univ.) IWAOKA, Michio; DEDACHI, Kenichi; SHIMOSATO, Taku; MINEZAKI, Toshiya
- 3A4-03** Molecular simulation of peptide molecules containing non-natural amino acid residues by using single amino acid potential force field. (Tokai Univ.) NOMURA, Takeshi; DEDACHI, Kenichi; SHIMOSATO, Taku; MINEZAKI, Toshiya; IWAOKA, Michio
- 3A4-04** A theoretical study of the helical structure and stability of poly (quinoxaline-2,3-dily)s (Kyoto Univ.) HONDA, Ryunosuke; KIDO, Kentaro; SATO, Hirofumi
- 3A4-05** Structure determination of a spin-labeled DNA duplex by Molecular Mechanics with the help of pulsed ELDOR spin-distance measurements (Graduate School of Science, Osaka City Univ.; The Institute of Scientific and Industrial Research, Osaka Univ.; Graduate School of Engineering Science, Osaka Univ.; FIRST) YAMAMOTO, Satoru; NAKAZAWA, Shigeaki; SUGISAKI, Kenji; ATSUMI, Hiroshi; MAEKAWA, Kensuke; SATO, Kazunobu; TOYOTA, Kazuo; SHIOMI, Daisuke; NAKATANI, Kazuhiko; KITAGAWA, Masahiro; TAKUI, Takeji
- 3A4-06** A Theoretical Study on Ionization of Aniline in Aqueous Solution (Kyoto Univ.) MATSUMURA, Yoshihiro; HIDA, Kenji; SATO, Hirofumi

Chair: IWAOKA, Michio (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3A4-08, 3A4-10, 3A4-12)
- 3A4-08\*** Quantum Chemical Prediction of Full Catalytic Cycle and Selectivity Using Automated Reaction Path Search Method (The Hakubi Center, Kyoto Univ.; Fukui Institute for Fundamental Chemistry, Kyoto Univ.; Department of Chemistry, Emory Univ.) MAEDA, Satoshi; MOROKUMA, Keiji
- 3A4-10\*** Reaction Rate Analysis by Molecular Simulation (DENSO CORP.) SUZUKI, Katsuhiko; AOKI, Takashi; SUGIURA, Akio
- 3A4-12\*** Theoretical study on the mechanism of the C-F bond activation by fluoroacetate dehalogenase (IMCE) KAMACHI, Takashi; NAKAYAMA, Tomonori; JITSUMORI, Keiji; KURIHARA, Tatsuo; ESAKI, Nobuyoshi; YOSHIZAWA, Kazunari

Chair: KAMACHI, Takashi (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(3A4-15, 3A4-16, 3A4-17, 3A4-18, 3A4-19)
- 3A4-15** FMO3-UHF-MD simulation for hydrated Cu(II) (Rikkyo Univ.) KATO, Yuji; FUJIWARA, Takayuki; KOMIJI, Yuto; NAKANO, Tatsuya; MORI, Hiroto; OKIYAMA, Yoshio; MOCHIZUKI, Yuji
- 3A4-16** Theoretical Analysis for Terahertz Absorption Peaks of Perylene-3,4,9,10-tetracarboxylic dianhydride (PTCDA) Crystal (Research Center for Frontier Medical Engineering) OSUGA, Toshiaki; IZUTANI, Yusuke;

KITAGISHI, Keiko; TSUZUKI, Seiji; ORITA, Hideo

- 3A4-17** Redox Properties of Ferrocene in Aqueous Solution by First-Principle Molecular Dynamics (Osaka Univ.) KANEDA, Yukio; YOKOTA, Yasuyuki; MORIKAWA, Yoshitada; FUKUI, Ken-ichi
- 3A4-18** Active site structure of nitrated graphite as a cathode catalyst in a fuel cell (Tokyo Univ. of Agri. and Tech.; Faculty of Engineering) TOMINAGA, Hiroyuki; NAGAI, Masatoshi
- 3A4-19<sup>#</sup>** Holes in graphene and how to repair them (Nagoya Univ.) IRLE, Stephan; OKITA, Yoshitaka; LIU, Lili; HARA, Hironori

### Tuesday, March 27, PM

Chair: HADA, Masahiko (13:40~14:40)

\* 13:30-13:40: interval for laptop PC connection.(3A4-29)

- 3A4-29 CSJ Award for Creative Works** Studies on the Structures and Reactions of Metalloenzymes by Large-Scale Quantum Chemical Calculations (IMCE, Kyushu Univ.) YOSHIZAWA, Kazunari

### Bio

Chair: YU, Isseki (14:50~15:50)

\* 14:40-14:50: interval for laptop PC connection.(3A4-36, 3A4-37, 3A4-38, 3A4-40, 3A4-41)

- 3A4-36** Theoretical study on oxidation mechanism of water through S0 to S3 states by OEC (Mie Univ.) ICHINO, Tomoya; MITANI, Masaki; YOSHIOKA, Yasunori
- 3A4-37** Coordination effects on electronic structure of CuA site of cytochrome c oxidase (Institute for Protein Research, Osaka Univ.) TAKANO, Yu; OKUYAMA, Ori; SHIGETA, Yasuteru; NAKAMURA, Haruki
- 3A4-38\*** A Molecular Dynamics Study of Proton Pump Function of Cytochrome c Oxidase (Univ. of Tokyo; Univ. of Chicago) YAMASHITA, Takefumi; VOTH, Gregory A.
- 3A4-40** Fragment molecular orbital study for interaction between influenza virus neuraminidase and antiviral drug (Mizuho Information & Research Institute, Inc.) FUKUZAWA, Kaori; MOCHIZUKI, Yuji; OIKAWA, Makiho; MIBE, Hiroki; WATANABE, Chiduru; TANAKA, Shigenori; NAKANO, Tatsuya
- 3A4-41** New fragmentation of Fragment Molecular Orbital Method applicable to Fragment Based Drug Design (The Univ. of Tokyo) WATANABE, Chiduru; FUKUZAWA, Kaori; OKIYAMA, Yoshio; MOCHIZUKI, Yuji; TSUKAMOTO, Takayuki; KATO, Akifumi; YAMASHITA, Katsumi; MORITA, Nobuaki; TANAKA, Shigenori; NAKANO, Tatsuya

Chair: SATO, Hirofumi (16:00~16:30)

\* 15:50-16:00: interval for laptop PC connection.(3A4-43, 3A4-46, 3A4-48)

- 3A4-43 Young Scholar Lectures of CSJ** Computer Simulation of Protein Functions: Ligand Recognition and Catalysis (NRI, AIST) ISHIDA, Toyokazu

### Bio

Chair: USHIYAMA, Hiroshi (16:30~17:10)

- 3A4-46\*** Transfer Free Energy of Apomyoglobin into the Cytoplasmic Condition Mimicked with Trymethylamin N-oxide: Space-Time Deconvolution by Kirkwood-Buff Integrals (Aoyama Gakuin Univ.; Nagoya Univ.) YU, Isseki; NAKADA, Kyoko; NAGAOKA, Masataka
- 3A4-48\*** A scheme for density functional theory based estimation of pKa value by using similarity of chemical groups and its applications (Osaka Univ.) MATSUI, Toru; BABA, Takeshi; YASUDA, Natsumi; KAMIYA, Katsumasa; KITAGAWA, Yasutaka; SHIGETA, Yasuteru; OKUMURA, Mitsutaka

### Wednesday, March 28, AM

#### Dynamics, Material

Chair: FUJII, Mikiya (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4A4-01, 4A4-02, 4A4-03, 4A4-05, 4A4-06)

- 4A4-01** Non-adiabatic ab initio dynamics of photo-physical properties of indolylmaleimides (Sophia Univ.; Faculty of Science and Technology) MURAKAMI, Tatsuhiro; ISHIDA, Toshimasa; NANBU, Shinkoh
- 4A4-02** Theoretical study on vibrational spectra and photoisomerization of trans-azobenzene (Hokkaido Univ.) HARABUCHI, Yu; ISHII, Moe; SATOH, Kiminori; NORO, Takeshi; TAKETSUGU, Tetsuya
- 4A4-03\*** Optimal control simulation of laser-induced molecular orientation (Tohoku Univ.) NAKAJIMA, Katsuhiro; ABE, Hiroya; OHTSUKI, Yukiyoshi
- 4A4-05** Optimal control of laser isotope separation by utilizing molecular alignment (Tohoku Univ.) NAKASHIMA, Kaoru; NAKAJIMA, Katsuhiro; OHTSUKI, Yukiyoshi; KONO, Hirohiko
- 4A4-06** Numerical analyses of quantum interference signals induced by IR laser pulses (Tohoku Univ.; IMS; JST-CREST) FUSE, Taito; OHTSUKI, Yukiyoshi; KONO, Hirohiko; GOTOU, Haruka; KTSUKI, Hiroyuki; OHMORI, Kenji

Chair: OHTSUKI, Yukiyoshi (10:10~11:20)

\* 10:00-10:10: interval for laptop PC connection.(4A4-08, 4A4-10, 4A4-12, 4A4-13, 4A4-14)

- 4A4-08\*** Effective description for structure isomerizations of polyatomic systems by a small number of variables. (Hokkaido Univ. RIES) KAWAI, Shinnosuke; TERAMOTO, Hiroshi; KOMATSUZAKI, Tamiki
- 4A4-10\*** Global and Macrocyclic Aromaticity of Porphyrinoids (Shizuoka Univ.) NAKAGAMI, Yuto; SEKINE, Rika; AIHARA, Jun-ichi
- 4A4-12** Orientation dependence of charge-transfer rate and stability for organic solar cells (Tokyo Univ.; YAMATHITA & USHIYAMA lab) NAGANO, Tomoya; FUJII, Mikiya; JONO, Ryota; YAMASHITA, Koichi
- 4A4-13** An ab initio calculation on  $\text{Li}_2\text{MSiO}_4$  as a cathode material (M=Mn, Fe, Co, Ni) (Univ. of Tokyo) TSUBAKIYAMA, Kenta; KUDO, Yusuke; YAMASHITA, Koichi
- 4A4-14** First-principle study on the electronic structure and the structural property of ZnTeO (Univ. of Tokyo) AOYAMA, Takuya; GIORGI, Giacomo; YAMASHITA, Koichi

## Room A5

4th Bldg., Section A J445

### Physical Chemistry -Properties-

Sunday, March 25, AM

#### Surface, Thin Films, and Nano Materials

Chair: OGAWA, Takuji (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(1A5-01, 1A5-03, 1A5-05, 1A5-06)

- 1A5-01\*** Preparation of Atomically Flat Au(111) Surfaces from a Commercially Available Au(111) Single Crystal Disk (Ochanomizu Univ.) UMEZAWA, Noriko; SANO, Shoko; FRIEDBACHER, Gernot; KONDO, Toshihiro
- 1A5-03\*** Structural Studies on Electrodeposition Process of Pt Ultrathin Layer on Au Single Electrode Surface (Ochanomizu Univ.) SHIBATA, Masayo; MASUDA, Takuya; UOSAKI, Kohei; KONDO, Toshihiro
- 1A5-05** Film thickness dependence of pentacene photocurrent yield. (Kyoto Univ.) MURDEY, Richard; SATO, Naoki
- 1A5-06** Fabrication of Sexithiophene/Zr(IV) Hybrid Thin Films and Their Photofunctional Properties (Toho Univ.) KODAIRA, Akira; HARADA, Takunori; PAC, Chyongjin; MORIYAMA, Hiroshi; ISHITANI, Osamu; YUI, Tatsuto; SAHARA, Go

Chair: YAMAUCHI, Miho (10:10~11:00)

\* 10:00-10:10: interval for laptop PC connection.(1A5-08, 1A5-10, 1A5-12)

- 1A5-08\*** Electric property of graphene nanoribbon with planar molecular adsorption (Graduate School of Science, Osaka Univ.) TANAKA, Hirofumi; ARIMA, Ryo; TANAKA, Daisuke; OGAWA, Takuji
- 1A5-10\*** Chemical & Physical Properties of Atomic Defects on Titanium Dioxide Surfaces (HAIR Tohoku Univ.; RIKEN; JSPS; Liverpool Univ.; Chiba Univ.; WPI-AIMR, Tohoku Univ.; Univ. Tokyo) MINATO, Taketoshi; KAJITA, Seiji; PANG, Chi Lun; ASAO, Naoki; YAMAMOTO, Yoshinori; NAKAYAMA, Takashi; KAWAI, Maki; KIM, Yousoo
- 1A5-12** High affinity of aluminium oxide surface to water molecules in comparison with chromium oxide surface (Okayama Univ. of Sci.) KITTAKA, Shigeharu; TAKAHARA, Shuichi

Chair: MINATO, Taketoshi (11:10~12:00)

\* 11:00-11:10: interval for laptop PC connection.(1A5-14, 1A5-16, 1A5-18)

- 1A5-14\*** Structural changes of molecular aggregates of stearic acid adsorbed on a gold surface induced by molecular water studied by infrared spectroscopy (Institute for Chemical Research, Kyoto Univ.) SHIMOAKA, Takafumi; HASEGAWA, Takeshi
- 1A5-16\*** Observation and control of photo-induced charge separation on alkanethiol self-assembled monolayer (JST, ERATO; Faculty of Science and Technology, Keio Univ.) SHIBUTA, Masahiro; HIRATA, Naoyuki; MATSUI, Ryo; NAKAYA, Masato; SHIKISHIMA, Masaya; EGUCHI, Toyoaki; NAKAJIMA, Atsushi
- 1A5-18** Fabrication and Analysis of Self-Assembled-Monolayer Consisting of Porphyrin Derivatives to Enhance Efficiency of Buffer Layer in Organic Device (Toho Univ.) YUI, Miki; HARADA, Takunori; PAC, Chyongjin; MORIYAMA, Hiroshi

### Sunday, March 25, PM

Chair: MORIYAMA, Hiroshi (13:10~14:00)

\* 13:00-13:10: interval for laptop PC connection.(1A5-26, 1A5-27, 1A5-28, 1A5-29)

- 1A5-26** Transient Absorption Spectroscopy and Coherent Acoustic Phonon Dynamics of Gold Nanostructures at Low Temperature (School of Science and Technology, Kwansai Gakuin Univ.) TAKEDA, Shohei; WANG, Li;

- NISHIJIMA, Yoshiaki; UENO, Kosei; MISAWA, Hiroaki; TAMAI, Naoto  
**1A5-27** Near-field optical microspectroscopy of silver nanocubes (Univ. of Waseda) SAITO, Taro; IMURA, Kohei  
**1A5-28<sup>#</sup>** Composition Dependences on Magnetic Properties of Fe-Co Nanoalloys Synthesized by Hydrogen Reduction (CRC, Hokkaido Univ.) Sharif Md., Jafar; YAMAUCHI, Miho; TSUKUDA, Tatsuya  
**1A5-29\*** <sup>2</sup>H NMR study of pore size dependence of dynamics of water molecules in mesoporous silicas SBA-16 (Kanazawa Univ.) MIYATOU, Tatsuya; SAZANAMI, Kouichi; OHASHI, Ryutarou; MIZUNO, Motohiro; KITTAKA, Shigeharu

### Cluster and Nanotubes

Chair: KATO, Tatsuhisa (14:10~15:10)

- \* 14:00-14:10: interval for laptop PC connection.(1A5-32, 1A5-35, 1A5-36, 1A5-37)  
**1A5-32** Young Scholar Lectures of CSJ Rechargeable batteries using polynuclear metal complex clusters and their reaction mechanism (Grad. Sch. Sci., Nagoya Univ.) YOSHIKAWA, Hirofumi  
**1A5-35** Preparation of molecular cluster - graphene nanocomposites and their battery performance (Nagoya Univ.) KUME, Keita; KAWASAKI, Naoya; WANG, Heng; YOSHIKAWA, Hirofumi; AWAGA, Kunio  
**1A5-36** Surface Modification of Single Wall Carbon Nanotube by Adding Treatment of Pi-Electron Conjugated Molecules (Shinshu Univ.) ITOH, Tsutomu; FUJIMORI, Toshihiko; FUJISAWA, Kazunori; HONG, S.Y.; CHOI, Y.C.; TAKEUCHI, Kenji; ENDO, Morinobu; KANEKO, Katsumi  
**1A5-37** Optical Properties of Pyrene-isomer Encapsulated Single-Wall Carbon Nanotubes (ENCs, Shinshu Univ.) FUJIMORI, Toshihiko; KANEKO, Katsumi

Chair: FUJIMORI, Toshihiko (15:20~16:20)

- \* 15:10-15:20: interval for laptop PC connection.(1A5-39, 1A5-41, 1A5-43, 1A5-44)  
**1A5-39\*** Reversible control of electronic properties of La@C<sub>62</sub> by radical coupling reactions (Kyoto Univ. iCeMS, Univ. of Tsukuba TARA, Kyoto Univ. RIHE, IMS) TAKANO, Yuta; OINUMA, Midori; SLANINA, Zdenek; AKASAKA, Takeshi; KATO, Tatsuhisa; NAGASE, Shigeru  
**1A5-41\*** Synthesis of a Metallofullerene Derivative Containing Multiple Orifices (Univ. Tsukuba; Univ. California; Bruker Biospin, K. K.; IMS) KURIHARA, Hiroki; YAMAZAKI, Yuko; MIZOROGI, Naomi; SLANINA, Zdenek; RUBIN, Yves; WAELCHLI, Markus; NAGASE, Shigeru; TSUCHIYA, Takahiro; AKASAKA, Takeshi  
**1A5-43** Synthesis and Characterization of a Radical Derivative of Metallofullerene La<sub>2</sub>@C<sub>80</sub> (Univ. Tsukuba. TARA, IMS, Univ. Kyoto) SAITO, Masayoshi; KURIHARA, Hiroki; SLANINA, Zdenek; NAGASE, Sigeru; AIZAWA, Toshihiro; KATO, Tatsuhisa; AKASAKA, Takeshi  
**1A5-44** Synthesis and Structural Determination of Fullerene Derivatives Encapsulating Trimetallic Nitride Cluster (TARA center, Univ. of Tsukuba; IMS) ABE, Tsuneyuki; SATO, Satoru; SAITO, Chiharu; SLANINA, Zdenek; TSUCHIYA, Takahiro; AKASAKA, Takeshi; NAGASE, Shigeru

Chair: YOSHIKAWA, Hirofumi (16:30~17:40)

- \* 16:20-16:30: interval for laptop PC connection.(1A5-46, 1A5-48, 1A5-50, 1A5-51, 1A5-52)  
**1A5-46\*** Localized Photoexcitation of an isolated single walled carbon nanotube at plasmonic metal nanostructure (Hokkaido Univ.) TAKASE, Mai; KOMEDA, Keiichiro; NARA, Masanobu; NABIKA, Hideki; YASUDA, Satoshi; MIZUMOTO, Yoshihiko; AJIKI, Hiroshi; ISHIHARA, Hajime; MURAKOSHI, Kei  
**1A5-48\*** Study on Electrochemical Properties of phosphomolybdic acid/SWNT nanocomplex (Graduate School of Science, Osaka Univ.) HONG, Liu; TANAKA, Hirofumi; TANAKA, Daisuke; OGAWA, Takuji  
**1A5-50** Importance of weak forces in interactions between a carbon nanotube and a thiophene oligomer (Kyoto Institute of Technology) YAMASHITA, Hiroki; YUMURA, Takashi; KOBAYASHI, Hisayoshi  
**1A5-51** Development of Large-Scale Synthesis of Size-Controlled Organolanthanide Multiple-Decker Sandwich Clusters (Keio Univ.) SUGIYAMA, Rion; TUJI, Takashi; FUKAZAWA, Suguru; TSUNOYAMA, Hironori; NAKAJIMA, Atsushi  
**1A5-52** Geometric and Electronic Structures of Vanadium-Benzene Cluster Anions (Keio Univ.; JST-ERATO) MASUBUCHI, Tsugunosuke; IWASA, Takeshi; NAKAJIMA, Atsushi

### Monday, March 26, AM

#### Phase Equilibrium and Phase Transition

Chair: NISHIJIMA, Junichi (9:00~10:10)

- \* 8:50-9:00: interval for laptop PC connection.(2A5-01, 2A5-03, 2A5-04, 2A5-05, 2A5-07)  
**2A5-01\*** Thermodynamics on perfect solid and liquid v2 (Hosei Univ.) KATAOKA, Yosuke; YAMADA, Yuri  
**2A5-03** Effects of anions on the thermal properties of ferrocenium ionic liquids (Kobe Univ.) HAMADA, Shota; MOCHIDA, Tomoyuki  
**2A5-04** Ion Dynamics in New Ionic Plastic Crystals of Tetraalkylammonium

- Tetrabutylborate (Graduate School of Nanobioscience, Yokohama City Univ.) HAYASAKI, Tomoyuki; HONDA, Hisashi  
**2A5-05\*** Structure, Molecular Motion, and Phase Transition of Highly Disordered Crystal [Co(NH<sub>3</sub>)<sub>6</sub>](ClO<sub>4</sub>)<sub>3</sub> (Osaka Univ.) INABA, Akira; GORSKA, Natalia; HIRAO, Yasukazu; MIKULI, E.; NATKANIEC, K.  
**2A5-07** Dynamic Properties of the Dinuclear Iron(II) Spin-crossover Complex Studied by NMR, IR and Permittivity (Hokkaido Univ.) NOMA, Hiroto; KAGEYAMA, Yoshiyuki; MARUTA, Goro; TAKEDA, Sadamu

### Optical Properties

Chair: NAKANO, Masayosi (10:20~11:10)

- \* 10:10-10:20: interval for laptop PC connection.(2A5-09, 2A5-10, 2A5-11, 2A5-12, 2A5-13)  
**2A5-09** Fluorescence spectral change of perylene by molecular-assemble process in polymer matrix (Fac. of Education, Shinshu Univ.) ITO, Fuyuki; KOGASAKA, Yoshiko  
**2A5-10** Photoisomerization via efficient energy transfer in stilbene-cored dendrimer (Univ. of Tsukuba) NAKAZATO, Satoshi; ARAI, Tatsuo  
**2A5-11** Near-field optical microscopy studies of double walled cyanine J-aggregates (Univ. of Waseda) MAKITA, Yoshihiko; IMURA, Kohei  
**2A5-12** Crystal structure and dielectricity of polar adamantane derivatives (IMRAM, Tohoku Univ.) HOSHINO, Norihisa; TAKEDA, Takashi; AKUTAGAWA, Tomoyuki  
**2A5-13** Nonlinear optical properties and electronic structure of a cyclic thiazyl radical NT (Graduate School of Science, Nagoya Univ.; Research Center for Materials Science, Nagoya Univ.) TAKAUJI, Keigo; SUZU, Rie; AWAGA, Kunio; KISHIDA, Hideo; NAKAMURA, Aro

Chair: HOSHINO, Norihisa (11:20~12:10)

- \* 11:10-11:20: interval for laptop PC connection.(2A5-15, 2A5-17, 2A5-19)  
**2A5-15\*** Fluorescence properties of perylene aggregates (Nihon Univ.) KONDYOU, Toshihiro; KATOH, Ryuzi  
**2A5-17\*** Theoretical study on singlet fission based on multiple diradical character (Osaka Univ.) MINAMI, Takuya; ITO, Soichi; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi  
**2A5-19** Theoretical study on excited states and multiple diradical characters of condensed-ring hydrocarbons with pentacyclic structure (Osaka Univ.) ITO, Soichi; MINAMI, Takuya; YAMADA, Taishi; SHIGETA, Yasuteru; KISHI, Ryohei; NAKANO, Masayoshi

### Monday, March 26, PM

#### Liquid States and Solutions

Chair: NOZAKI, Koichi (14:30~15:40)

- \* 14:20-14:30: interval for laptop PC connection.(2A5-34, 2A5-35, 2A5-37, 2A5-39, 2A5-40)  
**2A5-34** Structure of a 3 m aqueous solution of sodium chloride at pressures of ambient to 2 GPa by X-ray diffraction. (Fukuoka Univ., JAEA) FUKUYAMA, Nami; LI, Kousei; YOSHIDA, Koji; KATAYAMA, Yoshinori; YAMAGUCHI, Toshio  
**2A5-35\*** Local Structures of Methanol-Water Mixtures Studied by Soft X-ray Absorption Spectroscopy (Institute for Molecular Science) NAGASAKA, Masanari; KOSUGI, Nobuhiro  
**2A5-37\*** Dielectric behavior and Structural Relaxation of Ionic Liquids (C<sub>n</sub>mim)BF<sub>4</sub> (n = 4, 6, 8) (Department of Chemistry, Faculty of Science, Fukuoka Univ.) WATANABE, Keisuke; KUROKI, Takuya; KUSAKABE, Hiroaki; NEGITA, Keishi  
**2A5-39** Solvent effect for electronic transition energy for pyridinium-based ionic liquid (Tokyo Institute of Technology) OGURA, Takahiro; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko  
**2A5-40** Change in the secondary structure of chicken egg white lysozyme in ionic liquid-water mixed solutions (National Defense Academy; Department of applied chemistry) YAMAZAKI, Kumiko; NIHEI, Azusa; OMATA, Tomoya; HATANO, Naohiro; ABE, Hiroshi; TAKEKIYO, Takahiro; YOSHIMURA, Yukihiko

#### Liquid Crystals and Glass States

Chair: NAGASAKA, Masanari (15:50~16:50)

- \* 15:40-15:50: interval for laptop PC connection.(2A5-42, 2A5-43, 2A5-44, 2A5-45, 2A5-46)  
**2A5-42** Discotic Liquid Crystals of Organic Transition Metal Complexes(106): Synthesis and Mesomorphism of Phthalocyanine-based copper(II) Complexes substituted by different length of alkoxy groups. (Shinshu Univ.) YOSHIOKA, Miho; MEGUMI, Takashi; OHTA, Kazuchika  
**2A5-43** Flying-seed-like Liquid Crystals(3): Columnar Mesomorphism of Bulky-group-substituted Tb Complexes, Tris[4-(4-substitutedphenoxy)benzoate]terbium(III) (Shinshu Univ.) HACHISUGA, Ayaha; TAKAGI, Yasufumi; ITAYA, Tomoyuki; OHTA, Kazuchika  
**2A5-44** A study on relationship between intermolecular potential and thermodynamic and dynamic parameters in liquid crystalline phase by molecular dynamic simulation (Osaka Sangyo Univ.) SATOH, Katsuhiko  
**2A5-45** Molecular Crystals and Organogel of (Anilinium)-(L-Tartate) Hydro-



gen-Bonding Assemblies (IMRAM, Tohoku Univ.) YOSHII, Yuya; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

- 2A5-46\*** Mechanisms of rigidochromism of charge-transfer emission in bipyridine diacetylide platinum (II) complex (Univ. of Toyama, Osaka City Univ.) SO, Jun; SUZUKI, Shuichi; OKADA, Keiji; IWAMURA, Munetaka; NOZAKI, Koichi

## Tuesday, March 27, AM

### Magnetic Properties

Chair: MARUTA, Goro (9:00~9:40)

- \* 8:50-9:00: interval for laptop PC connection.(3A5-01, 3A5-02, 3A5-03, 3A5-04)

**3A5-01** A theoretical study on adsorption of molecular oxygen onto phenalenyl and aromatic hydro carbons that consists of phenalenyl units. (Graduate School of Science, Osaka Univ.) KINOSHITA, Keiji; ITO, Akira; KAWAKAMI, Takashi; KITAGAWA, Yasutaka; YAMANAKA, Shusuke; OKUMURA, Mitsutaka

**3A5-02** The application of the molecular orbital method to the molecular charge and vibration frequencies of Pd(dmit)<sub>2</sub>. (Osaka Univ.) ITO, Akira; KINOSHITA, Keiji; KAWAKAMI, Takashi; KITAGAWA, Yasutaka; YAMANAKA, Shusuke; OKUMURA, Mitsutaka

**3A5-03** Theoretical calculations of zero-field splitting parameter D for single molecular magnets (Osaka Univ.) KAWAKAMI, Takashi; KINOSHITA, Keiji; ITO, Akira; YOSHIMURA, Shohei; KITAGAWA, Yasutaka; YAMANAKA, Shusuke; YAMAGUCHI, Kizashi; OKUMURA, Mitsutaka

**3A5-04** A light-induced valence tautomerism (LIVT) of the cobalt mononuclear complex (Osaka City Univ.; Kyushu Univ.) TASHIRO, Atsushi; KANEGAWA, Shinji; SATO, Osamu; TEKI, Yoshio

Chair: MOCHIDA, Tomoyuki (9:50~10:40)

- \* 9:40-9:50: interval for laptop PC connection.(3A5-06, 3A5-09, 3A5-10)

**3A5-06** CSJ Award for Young Chemists The Creation of Phase Transition Materials Exhibit an Anomalous Bistability and Observation of Light-Induced Phase Collapse (Sch. Sci., The Univ. of Tokyo) TOKORO, Hiroko

**3A5-09** Magnetic interaction of RbMn[Fe(CN)<sub>6</sub>] studied by solid state high resolution NMR. (Hokkaido Univ.) NAKANISHI, Takumi; MARUTA, Goro; TAKEDA, Sadamu

**3A5-10** Magnetic Interaction via Alkali Metal Ion in Prussian Blue Analogues (Hokkaido Univ.) MARUTA, Goro; NAKANISHI, Takumi; TAKEDA, Sadamu

Chair: NISHIHARA, Sadafumi (10:50~11:40)

- \* 10:40-10:50: interval for laptop PC connection.(3A5-12, 3A5-14, 3A5-15, 3A5-16)

**3A5-12\*** Crystal Structures and Magnetic Properties of Mononuclear Iron Complexes with a localized spin (Kobe Univ.; ISSP; Keio Univ.; IMCE) TAKAHASHI, Kazuyuki; MORI, Hatsumi; TAJIMA, Hiroyuki; YAMAMOTO, Takashi; EINAGA, Yasuaki; SATO, Osamu

**3A5-14** Exchange Coupling and Magnetic Anisotropy on 4f-3d Complexes (The Univ. of Electro-Communications) SHIMADA, Takashi; OKAZAWA, Atsushi; YOSHII, Shunsuke; NOJIRI, Hiroyuki; ISHIDA, Takayuki

**3A5-15** New molecule-based magnets based on a Cr-acetylide-TTF type complex (Institute for Molecular Science) NISHIJO, Junichi

**3A5-16** Structural Phase Transitions of Organic-Inorganic Hybrid Perovskites (C<sub>n</sub>H<sub>2n+1</sub>NH<sub>3</sub>)<sub>2</sub>CuCl<sub>4</sub> (IMRAM, Tohoku Univ.) TAMURA, Shunsaku; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

## Tuesday, March 27, PM

Chair: TAKAHASHI, Kazuyuki (13:00~13:40)

- \* 12:50-13:00: interval for laptop PC connection.(3A5-25, 3A5-26, 3A5-27, 3A5-28)

**3A5-25** Synthesis, structure and properties of anion radical salts of thiazazole dioxide compound with a coordination ability. (Graduate School of Science, Nagoya Univ.; Research Center for Materials Science, Nagoya Univ.) SHUKU, Yoshiaki; SUIZU, Rie; AWAGA, Kunio

**3A5-26** Magnetic Phase Transition of the  $\pi$ -extended Cyclic Thiazyl Biradical BDTDA (Research Center for Materials Science and Graduate School of Science, Nagoya Univ.) SUIZU, Rie; SHUKU, Yoshiaki; IWASAKI, Akito; AWAGA, Kunio

**3A5-27** Synthesis of A Novel Spin Ladder Complex, Cu<sub>4</sub>(bpp)<sub>5</sub>(CO<sub>3</sub>)<sub>4</sub>(H<sub>2</sub>O)<sub>x</sub> (Graduate school of science, Hiroshima Univ.) NAKANO, Yuki; NISHIHARA, Sadafumi; AKITA, Motoko; INOUE, Katsuya

**3A5-28** Physical Properties of Li<sub>2</sub>([15]crown-5)<sub>3</sub>[Ni(dmit)<sub>2</sub>](H<sub>2</sub>O)<sub>2</sub> Salt Having an Ion Channel Structure (Graduate School of Science, Hiroshima Univ.) KONNO, Daisuke; NISHIHARA, Sadafumi; AKITA, Motoko; INOUE, Katsuya; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

## Conductors

Chair: MOCHIDA, Tomoyuki (13:50~14:40)

- \* 13:40-13:50: interval for laptop PC connection.(3A5-30, 3A5-31, 3A5-32, 3A5-33)

**3A5-30** Doping Effect on Tin Bromide-based Organic-Inorganic Hybrid Semiconductor (Faculty of Sci., Hokkaido Univ.) HASEGAWA, Hiroyuki; OSAKI, Tsuyoshi; KUDO, Yu; TAKAHASHI, Yukari; TAKAHASHI, Yukihiro; INABE, Tamotsu

**3A5-31** Electronic function of Alloyed (Pb,Sn)-I system Organic-Inorganic Hybrids (Grad. School of Chem. Sci. and Eng., Hokkaido Univ.) KUDO, Yu; TAKAHASHI, Yukari; TAKAHASHI, Yukihiro; HASEGAWA, Hiroyuki; INABE, Tamotsu

**3A5-32** Hole Doping in Soluble Organic-Inorganic Hybrid Semiconductors (Grad. School of Sci. Hokkaido Univ.) TAKAHASHI, Yukari; HASEGAWA, Hiroyuki; TAKAHASHI, Yukihiro; INABE, Tamotsu

**3A5-33\*** Gigantic photoinduced change of ionic conductivity in AgI (Hokkaido Univ.) SABETH, Farzana; IIMORI, Toshifumi; OHTA, Nobuhiro

Chair: TAKAHASHI, Yukihiro (14:50~15:40)

- \* 14:40-14:50: interval for laptop PC connection.(3A5-36, 3A5-38, 3A5-40)

**3A5-36\*** pi-pi Stacked Molecular Rectifier Based on Charge Transfer Complex (IMCE, Kyushu Univ.) TSUJI, Yuta; STAYKOV, Aleksandar; YOSHIZAWA, Kazunari

**3A5-38\*** Electronic Properties of Four-legged MX-tube Complex Including Tetrathiafulvalene Molecule (Kyoto Univ.; JST-CREST) OTSUBO, Kazuya; KITAGAWA, Hiroshi

**3A5-40** The intermolecular compounds with NT and its EPR spectra under electrical field (Nagoya Univ.) MATSUURA, Kyohei; SUIZU, Rie; MATSUSHITA, Michio; AWAGA, Kunio

Chair: MATSUSHITA, Michio-M. (15:50~16:30)

- \* 15:40-15:50: interval for laptop PC connection.(3A5-42, 3A5-43, 3A5-44, 3A5-45)

**3A5-42** Nano-size crystals grown on the surface of Charge-transfer complex crystal(1) (School of Sci., Hokkaido Univ.) TAKAHASHI, Yukihiro; HAYAKAWA, Kei; NAKAGAWA, Yuki; HASEGAWA, Hiroyuki; INABE, Tamotsu; NAITO, Toshio

**3A5-43** Nano-size crystals grown on the surface of Charge-transfer complex crystal(2) (School of Sci., Hokkaido Univ.) NAKAGAWA, Yuki; TAKAHASHI, Yukihiro; HASEGAWA, Hiroyuki; INABE, Tamotsu; NAITO, Toshio

**3A5-44** Organic field-effect transistors with solution-processed charge-transfer salts electrodes and charge transfer phenomenon (Tokyo Institute of Technology) KADOYA, Tomofumi; de Caro, Dominique; JACOB, Kane; FAULMANN, Christophe; VALADE, Lydie; MORI, Takehiko

**3A5-45** Preparation of TCNQ charge-transfer salts by solid state reactions (Graduate school of science, Kobe Univ.) FUNABIKI, Akira; TAKAHASHI, Kazuyuki; MOCHIDA, Tomoyuki; SAKURAI, Takahiro; OOTA, Hitoshi; MORI, Hatsumi; URUICHI, Mikio

Chair: YAMAMOTO, Kaoru (16:40~17:30)

- \* 16:30-16:40: interval for laptop PC connection.(3A5-47, 3A5-49, 3A5-50, 3A5-51)

**3A5-47\*** Photoexcitation dynamics and the isotope effect of the organic superconductor  $\beta$ -(BEDT-TTF)<sub>2</sub>I<sub>3</sub> (Hokkaido Univ.; Ehime Univ.) IIMORI, Toshifumi; SABETH, Farzana; NAITO, Toshio; OHTA, Nobuhiro

**3A5-49** Structure and Physical Properties of Molecular Conductors Expected to Exhibit Photoresponse (Ehime Univ.; Hokkaido Univ.) NAITO, Toshio; KARASUDANI, Tomoaki; MORI, Shigeki; OHARA, Keishi; KONISHI, Kensuke; TAKANO, Takahiro; TAKAHASHI, Yukihiro; INABE, Tamotsu

**3A5-50** Structures and physical properties of cation radical salts based on TTF derivatives substituted by a fluorescent part (Grad. School of Sci., Osaka Pref. Univ.) TSUJIMOTO, Keiji; OGASAWARA, Reiko; FUJIWARA, Hideki

**3A5-51** Structures and physical properties of transition metal complexes using TTF-benzothiazole hybrid molecules (Grad. School of Sci., Osaka Pref. Univ.) FUJIWARA, Hideki; YOKOTA, Sayo; HAYASHI, Sasayoshi; TSUJIMOTO, Keiji

## Wednesday, March 28, AM

### Conductors

Chair: YAMAMOTO, Takashi (9:00~9:50)

- \* 8:50-9:00: interval for laptop PC connection.(4A5-01, 4A5-02, 4A5-03, 4A5-04, 4A5-05)

**4A5-01** Introduction of asymmetry into axially substituted metal phthalocyanine (Kumamoto Univ.) OISHI, Hiroko; MATSUDA, Masaki; NOGAMI, Yoshio; HANASAKI, Noriaki

**4A5-02\*** Charge Transfer Interactions in the Complexes of Porphyrin with pi-Acceptors (Graduate School of Science, Hokkaido Univ.) JOSE, JUDY FE; TAKAHASHI, Yukihiro; HASEGAWA, Hiroyuki; INABE, Tamotsu

**4A5-03** Molecular Alloy with Diluted Magnetic Moments-Molecular Kondo

System (Nihon Univ.) IDOBATA, Yuki; ZHOU, Biao; KOBAYASHI, Akiko; KOBAYASHI, Hayao

**4A5-04** Syntheses and Physical Properties of Nickel Complexes with Extended-TTF Type Dithiolate Ligands Containing Selenium Atoms (Nihon Univ.) YAJIMA, Hiroyuki; ZHOU, Biao; KOBAYASHI, Akiko; KOBAYASHI, Hayao

**4A5-05** Synthesis, Crystal Structure and Physical Properties of Single-component Layered Molecular Conductor, [Au(pdt)<sub>2</sub>] (Nihon Univ.; Nagoya Univ.) ZHOU, Biao; YAJIMA, Hiroyuki; IDOBATA, Yuki; KOBAYASHI, Akiko; KOBAYASHI, Hayao

Chair: MORI, Takehiko (10:00~11:00)

\* 9:50-10:00: interval for laptop PC connection.(4A5-07)

**4A5-07** CSJ Award for Creative Works Development of Functional  $\pi$ -Electron Systems Based on Metal-dithiolene Complexes (RIKEN) KATO, Reizo

Chair: MATSUDA, Masaki (11:10~12:00)

\* 11:00-11:10: interval for laptop PC connection.(4A5-14, 4A5-15, 4A5-17, 4A5-18)

**4A5-14** Molecular orbital effects on [Pd(dmit)<sub>2</sub>] salts (Osaka Univ.) YAMAMOTO, Takashi; NAKAZAWA, Yasuhiro; TAMURA, Masafumi; YAKUSHI, Kyuya; KATO, Reizo

**4A5-15\*** Structures and Physical Properties of Pt(dmit)<sub>2</sub> Salts with Onium Cation (RIKEN) NOMURA, Mitsushiro; TAJIMA, Akiko; CUI, Hengbo; ABDEL, Majed; TSUMURAYA, Takao; MIYAZAKI, Tsuyoshi; KATO, Reizo

**4A5-17** Synthesis and Electrical Properties of a Novel Organic Conductor [Ph(NH<sub>2</sub>)<sub>3</sub>][18]crown-6[Ni(dmit)<sub>2</sub>]<sub>3</sub> (Graduation School of Science, Hiroshima Univ.) KUNISHIO, Kazuhisa; NISHIHARA, Sadafumi; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi; AKITA, Motoko; INOUE, Katsuya

**4A5-18** Crystal structure and electrical properties of a new single component molecular crystal [Ni(dimse)<sub>2</sub>] (RIKEN) CUI, Hengbo; TSUMURAYA, Takao; MIYAZAKI, Tsuyoshi; KATO, Reizo

### Wednesday, March 28, PM

Chair: AKUTSU, Hiroki (13:10~14:10)

\* 13:00-13:10: interval for laptop PC connection.(4A5-26, 4A5-27, 4A5-28, 4A5-29, 4A5-30)

**4A5-26** Giant Dielectric Anomaly of Metal-Organic Perovskite with Four-membered Ring Ammonium Cation (Nihon Univ.) IMAI, Yuji; ZHOU, Biao; KOBAYASHI, Akiko; KOBAYASHI, Hayao

**4A5-27**  $\kappa$ -type single-component molecular conductors with hydrogen bond composed of catechol-fused TTF, Cat-TTF (ISSP, Univ. of Tokyo; Department of chemistry, Kobe Univ.; CROSS; CMRC; Institute of Molecular Science) KAMO, Hiromichi; ISONO, Takayuki; SHIKAMA, Takahisa; TAKAHASHI, Kazuyuki; KIMATA, Motoi; TAJIMA, Hiroyuki; NAKAO, Akiko; KUMAI, Reiji; KOBAYASHI, Kenshuke; NAKAO, Hironori; MURAKAMI, Yohichi; URUICHI, Mikio; YAMAMOTO, Kaoru; MORI, Hatsumi

**4A5-28** Structures and physical properties of the protonated charge transfer complexes based on pyridyl-TTF (ISSP) LEE, Sangchul; SHIKAMA, Takahisa; KAMO, Hiromichi; TAKAHASHI, Kazuyuki; KIMATA, Motoi; TAJIMA, Hiroyuki; URUICHI, Mikio; YAMAMOTO, Kaoru; YAKUSHI, Kyuya; NAKAO, Akiko; KUMAI, Reiji; KOBAYASHI, Kenshuke; MURAKAMI, Youichi; MORI, Hatsumi

**4A5-29** Structure and Proton Conductivity of Benzenephosphonate and N-heterocycle Co-crystals (Natl. Defense Academy of Jpn., Univ. of Calgary) SHINOHARA, Emi; UMEMURA, Yasushi; SHIMIZU, George K. H.

**4A5-30** Structural Phase Transition of CT-Complex Anthracene-TCNQ (School of Sci., Hokkaido Univ.) YOKOKURA, Seiya; TAKAHASHI, Yukihiro; HASEGAWA, Hiroyuki; INABE, Tamotsu

Chair: FUJIWARA, Hideki (14:10~15:00)

\* 14:00-14:10: interval for laptop PC connection.(4A5-32, 4A5-33, 4A5-34, 4A5-35, 4A5-36)

**4A5-32** Synthesis and properties of new TTF derivatives with methyl groups (Grad. Sch. Sci., Eng., Ehime Univ.) KOHNO, Shuhei; SHIRAHATA, Takashi; MISAKI, Yohji

**4A5-33** The Substituent Effect on the Donor Packing Patterns in the Cation Radical Salts of EDO-TTF and its Derivatives (Kyoto Univ.; LTM) ISHIKAWA, Manabu; NAKANO, Yoshiaki; URUICHI, Mikio; YAKUSHI, Kyuya; YAMOCCHI, Hideki

**4A5-34** Preparation and Crystal Structure of Organic Alloy, [(EDO-TTF)<sub>1-x</sub>(CLEDO-TTF)<sub>x</sub>]<sub>2</sub>PF<sub>6</sub> (Kyoto Univ.; LTM) HARAGUCHI, Tomoyuki; ISHIKAWA, Manabu; YAMOCCHI, Hideki

**4A5-35** Structures and Physical Properties of quasi-one-dimensional organic conductors (DIETSe)<sub>2</sub>FeBr<sub>4</sub>Cl<sub>4(1-x)</sub> (Grad. Sch. of Sci., Kyoto Univ.; Dep. of Mater. Sci. and Tech., Nagaoka Univ. of Tech.; JST-CREST) KAWAGUCHI, Genta; MAESATO, Mitsuhiro; IMAKUBO, Tatsuro; KITAGAWA, Hiroshi

**4A5-36** Dimerization reaction of an organoiron compound Me<sub>3</sub>TTF-C2-FeCp(dppe) (Univ. of Toyama; Univ. Rennes I) MIYAZAKI, Akira; OGYU, Yoshiyuki; KUMAMOTO, Yuki; JUSTAUD, Frederic; LAPINTE,

Claude; OUAHAB, Lahcene; GENDRON, Frederic; COSTUAS, Karine; HALET, Jean-francois

Chair: MIYAZAKI, Akira (15:10~16:00)

\* 15:00-15:10: interval for laptop PC connection.(4A5-38, 4A5-39, 4A5-40, 4A5-42)

**4A5-38** Structure and Properties of (BEDT-TTF)<sub>4</sub>dspi 3H<sub>2</sub>O (dspi = N,N'-Disulfo-1,4-benzoquinonediimine) (Univ. of Hyogo) AKUTSU, Hiroki; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi

**4A5-39** Structures and Properties of BEDT-TTF salts with anionic acceptors, N,N'-Disulfo-2,5-X,Y-1,4-benzoquinonediimine (X,Y = CH<sub>3</sub>, CH<sub>3</sub>; CH<sub>3</sub>, Cl; Cl, Cl) (Univ. of Hyogo) TAKIGAWA, Yuki; AKUTSU, Hiroki; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi

**4A5-40\*** Electronic ferroelectricity and successive phase-transitions in an organic conductor  $\alpha'$ -(BEDT-TTF)<sub>2</sub>I<sub>2</sub>Br<sub>2</sub> (Institute for Molecular Science) YAMAMOTO, Kaoru; WATANABE, Masashi; HYON, Chibon; YAMASHITA, Atsushi; NODA, Yuki; KOBAYASHI, Kensuke; KUMAI, Reiji; KOWALSKA, Aneta; URUICHI, Mikio; YAKUSHI, Kyuya

**4A5-42** Time-Resolved ESR study of charge separated state for Photoconductive TTF derivatives (Institute for Molecular Science; Graduate Univ. for Advanced Studies; Osaka Prefec. Univ.) FURUKAWA, Ko; TSUJIMOTO, Keijiro; FUJIWARA, Hideki; NAKAMURA, Toshikazu

## Room A6

4th Bldg., Section A J446

### Analytical Chemistry

Sunday, March 25, AM

#### Environmental and geochemical analysis

Chair: IKI, Nobuhiko (9:50~10:40)

\* 9:40-9:50: interval for laptop PC connection.(1A6-06, 1A6-07, 1A6-08, 1A6-10)

**1A6-06** VOC-Adsorption and Desorption Properties of Charcoal and Steam Activated Charcoal Prepared from Apple Waste and Sawdust (Kanagawa Univ.) YAMADA, Saki; TAKAYAMA, Yoshiki; OKABE, Toshihiro; TSUGOSHI, Takahisa; NISHIMOTO, Yuko

**1A6-07** Establishment of Laser Ionization Methods to Analyze Polycyclic Aromatic Hydrocarbons in Atmospheric Particles (Tokyo Tech; Chem. Res. Lab.) MISAWA, Kentaro; KIMISAWA, Yusuke; MATSUZAWA, Hideyo; FUJII, Masaaki

**1A6-08\*** Evaluation of standard humic substances by three-dimensional fluorescence for natural water analysis (Naigai Chemical Products Co., LTD.; Osaka Municipal Technical Research Institute) KOBAYASHI, Junko; HAGIWARA, Maki; MARUGAME, Kazuo; WATASE, Seiji; MATSUKAWA, Kimihiro

**1A6-10\*** Silica Modified Chemically with Schiff Base for Highly Sensitive Analysis of Heavy Metal Ions (Faculty of Systems Engineering, Wakayama Univ.) DOUANGPHILA, Phouthavanh; YAJIMA, Setsuko; KIMURA, Keiichi

### Electrophoresis

Chair: TSUKAGOSHI, Kazuhiko (10:50~11:30)

\* 10:40-10:50: interval for laptop PC connection.(1A6-12, 1A6-13, 1A6-14, 1A6-15)

**1A6-12** Determination of Melamine in Milks by Capillary Electrophoresis (Univ. of Fukui; Fukuoka Institute of Technology) KATO, Yuuichi; WU, Xing-zheng

**1A6-13** Dissociation kinetic analysis of the complexes of heavy metal ions with glutathione by capillary electrophoretic reactor (Univ. of Fukui; Tohoku Univ.) ISOGAI, Nozomi; YANAGISHI, Risa; TAKAHASHI, Toru; IKI, Nobuhiko; HOSHUNO, Hitoshi

**1A6-14** Development of Hydrophilic Interaction Electrokinetic Chromatography Using Biomass Nanofibers. 3 (Graduate School of Engineering, Kyoto Univ.) WATANABE, Masato; KAWAI, Takayuki; SUEYOSHI, Kenji; KITAGAWA, Fumihiko; OTSUKA, Koji

**1A6-15** Development of a Capillary Partially Filled with an Affinity Ligand-encapsulated Hydrogel for Electrophoresis (Graduate School of Engineering, Kyoto Univ.) FUKUSHIMA, Yudai; SUEYOSHI, Kenji; KITAGAWA, Fumihiko; OTSUKA, Koji

Sunday, March 25, PM

### Micro and nano analysis, interface

Chair: WU, Xing-Zheng (13:00~14:00)

\* 12:50-13:00: interval for laptop PC connection.(1A6-25, 1A6-26, 1A6-27, 1A6-30)

**1A6-25** Study of tube radial distribution phenomenon (TRDP) and its application; interface creation in TRDP taking advantage of aqueous micellar two phase distribution (Faculty of Science and Engineering, Doshisha Univ.) JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**1A6-26** Study of tube radial distribution phenomenon (TRDP) and its application; interface creation in TRDP from the viewpoint of phase transition (Faculty of Science and Engineering in Doshisha Univ., Graduate School of Systems Life Sciences in Kyushu Univ.) TABATA, Kisuke; KOBAYASHI, Tomoya; JINNO, Naoya; MURATA, Masaharu; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**1A6-27\*** Young Scholar Lectures of CSJ Semiconductor quantum dots for single-molecule imaging (AIST) BIJU, VASUDEVAN PILLAI

**1A6-30** Fabrication of 2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol Nanoparticle-coated Test Strip and Its Detection Properties for Ppb-level Cd(II) Ion (Nagaoka Univ. of Tech.; AIST) TAKAHASHI, Yukiko; SOUMA, Satoshi; WAKUI, Yoshito

Chair: SUEYOSHI, Kenji (14 : 10~15 : 00)

\* 14:00-14:10: interval for laptop PC connection.(1A6-32, 1A6-33, 1A6-34, 1A6-35, 1A6-36)

**1A6-32** Study on the enzyme immobilization methods in single-step inhibitor assay with combinable PDMS capillary sensor (Graduate School of Engineering, Osaka Prefecture Univ.) ISHIMOTO, Tadashi; JIGAWA, Kaede; HENARES, Terence G.; ENDO, Tatsuro; HISAMOTO, Hideaki

**1A6-33** Fabrication of DNA Separation Devices by Nanoimprinting Using Anodic Porous Alumina (Tokyo Metropolitan Univ., KAST) YAMAMOTO, Hajime; YANAGISHITA, Takashi; NISHIO, Kazuyuki; MASUDA, Hideki

**1A6-34** Electron beam lithography-based photonic crystal for biosensing application (Osaka Prefecture Univ.) OKANO, Yosuke; HISAMOTO, Hideaki; ENDO, Tatsuro

**1A6-35** Synthesis and evaluation of the novel photo-degradative surfactant for microfluidic systems (Japan Women's Univ.; Institute of Industrial Science, The Univ. of Tokyo) HARADA, Marie; FUKUYAMA, Mao; SATO, Kae; HIBARA, Akihiko

**1A6-36** Analysis of Diels-Alder reaction in Extendednano space by a nobel NMR chip (School of Engineering, The Univ. of Tokyo) YOSHIOKA, Shota; MAWATARI, Kazuma; KITAMORI, Takehiko

Chair: HIBARA, Akihiko (15 : 10~16 : 00)

\* 15:00-15:10: interval for laptop PC connection.(1A6-38, 1A6-40, 1A6-41, 1A6-42)

**1A6-38\*** Chitin-modified PDMS microchip for electrophoretic analysis of proteins (Graduate School of Engineering, Kyoto Univ.) SUEYOSHI, Kenji; HORI, Yusuke; OTSUKA, Koji

**1A6-40** Study of tube radial distribution phenomenon (TRDP) and its application; development of microchip tube radial distribution chromatography (Faculty of Science and Engineering, Doshisha Univ., Shimadzu Corporation) MATSUDA, Takafumi; TABATA, Kisuke; JINNO, Naoya; ARAI, Akihiro; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**1A6-41** Study of tube radial distribution phenomenon (TRDP) and its application ; Observation of tube radial distribution fluidic pattern in a microchannel (Separation and Detection Chemistry Laboratory in Doshisha Univ.) NISHIYAMA, Kei; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**1A6-42** Study of tube radial distribution phenomenon (TRDP) and its application; the effect of flow rate, pressures, inner diameters, and temperature on TRDP in a capillary (Faculty of Science and Engineering, Doshisha Univ.) FUJINAGA, Satoshi; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

Chair: HISAMOTO, Hideaki (16 : 10~17 : 00)

\* 16:00-16:10: interval for laptop PC connection.(1A6-44, 1A6-45, 1A6-46, 1A6-47)

**1A6-44** Development of Ultra-low Volume Liquid Handling Method by Using Nanostructure in Extended Nanospace (The Univ. of Tokyo) KUBOTA, Shogo; MAWATARI, Kazuma; XU, Yang; KITAMORI, Takehiko

**1A6-45** Partial coating method to microchannel by sol-gel method (The Univ. of Tokyo; Institute of Industrial Science the Univ. of Tokyo) MIYAZAKI, Kohei; HIBARA, Akihiko

**1A6-46** Development of single cell analysis by biomimetic process (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevice, Nagoya Univ.) HIBINO, Ayato; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu

**1A6-47\*** Development Of Autonomous Driving Valve For Highly Integrated Microdevices (Graduate School of Engineering, Nagoya Univ. ;FIRST Research Center for Innovative Nanobiodevice, Nagoya Univ.) NAITO, Toyohiro; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu

Monday, March 26, AM

## Micro and nano analysis, interface

Chair: ISHIDA, Akihiko (9 : 10 ~ 10 : 10)

\* 9:00-9:10: interval for laptop PC connection.(2A6-02, 2A6-04, 2A6-05)

**2A6-02\*** Single-molecule identification of DNA methylation (ISIR, Osaka Univ.) TSUTSUI, Makusu; TANIGUCHI, Masateru; KAWAI, Tomoji

**2A6-04** Highly sensitive and rapid detection of the diabetic nephropathy marker in human urine using immuno-pillar chips (Nagoya Univ.; "The Knowledge Hub" of AICHI, The Priority Research Project) KASAMA, Toshihiro; SUN, Miaomiao; AKIYAMA, Shin-ichi; KAJI, Noritada; YUZAWA, Yukio; TOKESHI, Manabu; BABA, Yoshinobu

**2A6-05** Young Scholar Lectures of CSJ Development of ultrafast flow PCR microchip and its application to biosecurity device (HRI, AIST) FUCHIWAKI, Yusuke

Chair: FUCHIWAKI, Yusuke (10 : 20~10 : 50)

\* 10:10-10:20: interval for laptop PC connection.(2A6-09, 2A6-10)

**2A6-09** Label-free detection technique for real-time DNA amplification using nanostructures (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevice, Nagoya Univ.) OGAWA, Kensuke; YASUI, Takao; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; HORIIKE, Yasuhiro; BABA, Yoshinobu

**2A6-10\*** Construction of a microfluidic electrochemical detection system based on a single digitate electrode (Hokkaido Univ.) ISHIDA, Akihiko; YOKOGAWA, Satoshi; TANI, Hirofumi

## Electrochemical analysis

Chair: NIWA, Osamu (11 : 00~12 : 00)

\* 10:50-11:00: interval for laptop PC connection.(2A6-13)

**2A6-13** CSJ Award for Creative Works Development of Biosensing Devices and Systems Using Micro/Nanoelectrodes (WPI-AIMR, Tohoku Univ.) MATSUE, Tomokazu

Monday, March 26, PM

## Mas spectrometry

Chair: MAWATARI, Kazuma (14 : 50~15 : 20)

\* 14:40-14:50: interval for laptop PC connection.(2A6-36, 2A6-37, 2A6-38)

**2A6-36** The measurement of aromatic hydrocarbons at attogram levels using a high-energy high-repetition-rate picosecond laser in gas chromatography/multiphoton ionization/mass spectrometry (Graduate School of Engineering, Kyushu Univ.) MATSUI, Taiki; FUKAZAWA, Kodai; FUJIMOTO, Masatoshi; IMASAKA, Totaro

**2A6-37** Non-destructive Ionization Using Cation-substituted Mordenite (Tokyo Metropolitan Univ.; Metropolitan Police Department) FUJINO, Tatsuya; SUZUKI, Jyunya; ASANO, Takashi

**2A6-38** FIB-TOF-SIMS analyses of Surface of Potassium-loaded Biochar with High Lateral Resolution (TOYAMA) ISHIKAWA, Takeharu; KASHIWAGI, Takahiro; NAKAGAWA, Jun; ENDO, Keishuke; SAKAMOTO, Tetuo; HAYASHI, Junichiro

## Spectrometry

Chair: FUJINO, Tatsuya (15 : 30~16 : 10)

\* 15:20-15:30: interval for laptop PC connection.(2A6-40, 2A6-41, 2A6-42, 2A6-43)

**2A6-40** Observation of valence states by quick micro-X-ray absorption spectroscopy using synchrotron radiation (Japan Atomic Energy Agency) HIRAO, Norie; BABA, Yuji; SEKIGUCHI, Tetsuhiro; SHIMOYAMA, Iwao; NARITA, Ayumi

**2A6-41** FT-IR and FT-NIR analysis for orientation of nematic liquid crystals (Graduate School of Natural Sciences, Nagoya City Univ.) KATAYAMA, Norihisa; SUEHIRA, Hiroki; KATSURAGAWA, Yuichi; MATSUMURA, Masanori

**2A6-42** Detection of foreign substances within food products by using visible-near infrared imaging (Graduate School of Bioagricultural Sciences, Nagoya Univ.) KOBORI, Hikaru; KATAYAMA, Norihisa; TSUCHIKAWA, Satoru

**2A6-43** Basic study of the Bactericidal effects of electrolyzed water containing hypochlorous acid -Interaction with amino acids or peptides- (Kanagawa Univ., Tokyo Institute of Technology) YASUTOMI, Mao; SASAKI, Yuya; IWASAWA, Atsuo; NISHIMOTO, Yuko

Tuesday, March 27, AM

## Sensor, separation and extraction, chromatography

Chair: HAYASHITA, Takashi (9 : 10 ~ 10 : 10)

\* 9:00-9:10: interval for laptop PC connection.(3A6-02, 3A6-03, 3A6-04, 3A6-06, 3A6-07)

**3A6-02** Highly Sensitive Assay of Lectin Using Lactoferrin-Immobilized Gold

- Nanoparticles (Kochi Univ.) HIGASHI, Yuuma; WATANABE, Shigeru  
**3A6-03** Template-Directed Self-Assembly of Gold Nanoparticle Arrays for Local Surface Plasmon Resonance Sensors (Kochi Univ.) TAKEMURA, Koichi; WATANABE, Shigeru  
**3A6-04\*** Ratiometric Fluorescent pH Sensor Based on Two Color Quantum Dots and pH-Indicator Doped Two Layer Sol-Gel Film (Univ. of Keio) HIRUTA, Yuki; YOSHIZAWA, Naoto; CITTERIO, Daniel; SUZUKI, Koji  
**3A6-06** Ammonia sensor based on hetero-core structured fiber optic (Soka Univ.) SEKI, Atsushi; MASUTANI, Teruaki; WATANABE, Kazuhiko  
**3A6-07** Sol-Gel-Derived Membranes Modified Chemically with Molecular Tweezer-Type Trifluoroacetophenone Derivative for Carbonate Ion Sensor (Wakayama Univ., Faculty of Systems Engineering) ISHIGAKI, Hiromasa; YAJIMA, Setsuko; KIMURA, Keiichi

Chair: YAJIMA, Setsuko (10:20~11:20)

- \* 10:10-10:20: interval for laptop PC connection.(3A6-09, 3A6-10, 3A6-11, 3A6-12, 3A6-13, 3A6-14)  
**3A6-09** Design and Metal Ion Recognition Function of Supramolecular Dipicorylamine Fluorophore/Cyclodextrin Complex Sensors (Faculty of Science and Technology, Sophia Univ.) KATANO, Kohei; OGURA, Keiko; SAMIZO, Mariko; HASHIMOTO, Takeshi; HAYASHITA, Takashi  
**3A6-10** Design and Evaluation of Supermolecular Azoprobe Possessing Dopamine Recognition Function (Faculty of Science and Technology, Sophia Univ.) UEMURA, Takuya; MIHARA, Noriko; HASHIMOTO, Takeshi; HAYASHITA, Takashi  
**3A6-11** *o*-phenylenediamine-platinum(II) complex as a near-infrared absorption probe to precisely recognize the size of microenvironment based on the redox (Graduate School of Environmental Studies, Tohoku Univ.) TAMURA, Kosaku; MASUYA, Atsuko; IKI, Nobuhiko; HOSHINO, Hitoshi  
**3A6-12** Synthesis of neodymium and dysprosium complexes : application to the mutual separation of these two elements by utilizing the complexation reaction (AIST) FUJIMOTO, Yuuta; KASHIWADA, Ayumi; MATSUDA, Kiyomi; KIKKAWA, Yoshihiro; SONODA, Yoriko; GOTO, Midori; KANESATO, Masatoshi  
**3A6-13** Study of tube radial distribution phenomenon (TRDP) and its application; development of tube radial extraction (TRDE) taking advantage of extraction reagents (Separation and Detection Chemistry Laboratory in Doshisha Univ.) TAKAHASHI, Naoya; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko  
**3A6-14** Enrichment and separation of vanadium species in natural water samples (Meisei Univ.) SHODO, Naoto; ITOU, Osamu; AKAMA, Yoshifumi

Chair: CITTERIO, Daniel (11:30~12:20)

- \* 11:20-11:30: interval for laptop PC connection.(3A6-16, 3A6-17, 3A6-18, 3A6-19, 3A6-20)  
**3A6-16** Molecular Dynamic Calculation for Metal Ion Separation on ODS Silica Column Bearing Crowned Spirobenzopyran (Wakayama National College of Technology; Wakayama Univ. Systems Engineering) IWAMOTO, Hitoshi; NAKAHARA, Yoshio; KIMURA, Keiichi  
**3A6-17** Selective Extraction of Gallium(III) from Hydrochloric Acid Solutions by Trioctylammonium-Based Mixed Ionic Liquids (Chiba Univ.) OKAI, Miho; KATSUTA, Shoichi; KUDO, Yoshihiro; TAKEDA, Yasuyuki  
**3A6-18** Solvent Effects in the Extraction of Gold(III) from Hydrochloric Acid Solutions by Ionic Liquids (Chiba Univ.) WATANABE, Yuta; KATSUTA, Shoichi; KUDO, Yoshihiro; TAKEDA, Yasuyuki  
**3A6-19** CFD study on separation process of wide-bore hydrodynamic chromatography (Faculty of Science and Engineering, Doshisha Univ.) NAMBA, Hironori; SHIMASE, Koji; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko  
**3A6-20** Use of wide-bore hydrodynamic chromatography for single nucleotide polymorphisms analysis (Faculty of Science and Engineering, Doshisha Univ.) SHIMASE, Koji; NAMBA, Hironori; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

## Tuesday, March 27, PM

### Sensor, separation and extraction, chromatography

Chair: KATSUTA, Shoichi (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(3A6-28, 3A6-30, 3A6-31, 3A6-32, 3A6-33)  
**3A6-28\*** Analysis of selective molecular recognition for metallic and semi-conducting single-walled carbon nanotubes (Univ. of Kyushu; Department of Applied Chemistry) YOO, Jongtae; FUJIGAYA, Tsuyohiko; NAKASHIMA, Naotoshi  
**3A6-30** Determination of ethanol in alcoholic beverages based on its reaction with Ce(IV) in the presence of thiosulfate and detection of Ce(III) formed (Tokai Univ.) SHIBAYAMA, Eri; ISHIHARA, Yoshimi; MIURA, Yasuyuki; MIKAMI, Ikko  
**3A6-31** Study of tube radial distribution phenomenon (TRDP) and its application: development of tube radial distribution chromatography taking advantage of iminodiacetic acid moiety interaction (Faculty of science and Engineering, Doshisha Univ.) KITAGUCHI, Koichi; TAINAKA, Naoya; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

- 3A6-32** Study of tube radial distribution phenomenon (TRDP) and its application; development of tube radial distribution chromatography (TRDC) taking advantage of metal complex formation reaction (Faculty of science and engineering, Doshisha Univ.) KAWAI, Yuki; HUJINAGA, Satoshi; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko  
**3A6-33** Study of tube radial distribution phenomenon (TRDP) and its application; consideration of TRDP interface from chromatograms and fluorescence images obtained by micro-flow system (Faculty of Science and Engineering, Doshisha Univ.) UNESAKI, Katsuya; TANIGAWA, Yusuke; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

## Bioanalysis

Chair: YOSHIMURA, Hideaki (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(3A6-35, 3A6-36, 3A6-37, 3A6-39)  
**3A6-35** Nanoimprint lithography-based photonic crystal for fluorescent DNA detection (Osaka Prefecture Univ. ; Analytical Chemistry Lab) UEDA, Chiea; HISAMOTO, Hideaki; ENDO, Tatsuro  
**3A6-36** Pheromone Stimuli Response of Giant Vesicle Bearing Insect Olfactory Receptor (Chiba Univ.; Univ. of Tokyo; Univ. of Tsukuba) HAMADA, Satoshi; TABUCHI, Masashi; TOYOTA, Taro; SAKURAI, Takeshi; KANZAKI, Ryohei; NAKATANI, Kei; NOMOTO, Tomonori; FUJINAMI, Masanori  
**3A6-37\*** Superluminescent variants of marine luciferases for bioassays (National Institute of Advanced Industrial Science and Technology (AIST)) KIM, Sung Bae; TORIMURA, Masaki; TAO, Hiroaki  
**3A6-39\*** Development of bioluminescence in vivo imaging of G-protein activity in mice liver using split luciferase complementation (The Univ. of Tokyo) TAKAKURA, Hideo; OZAWA, Takeaki

Chair: KAJI, Noritada (15:50~17:00)

- \* 15:40-15:50: interval for laptop PC connection.(3A6-42, 3A6-44, 3A6-45, 3A6-47)  
**3A6-42\*** Development of novel bioluminescence pH imaging in living tissue cells by photo-reactive luciferase (Department of Chemistry, School of Science, The Univ. of Tokyo) HATTORI, Mitsuru; HAGA, Sanae; TAKAKURA, Hideo; OZAKI, Michitaka; OZAWA, Takeaki  
**3A6-44** Development of genetically encoded photo-activatable Akt/PKB and its application for in vivo imaging (Univ. of Tokyo; School of Science) KATSURA, Yoshihiro; KANNO, Akira; OZAWA, Takeaki  
**3A6-45\*** Development of a method for visualizing apoptosis-related protein in vivo (Dept. of Chemistry, School of Science, Univ. of Tokyo) NASU, Yusuke; ASAOKA, Yoichi; NAMEAE, Misako; NISHINA, Hiroshi; TAKEUCHI, Masaki; OZAWA, Takeaki  
**3A6-47\*** Visualization of mRNA in living cells using green fluorescent protein (Univ. of Tokyo) YOSHIMURA, Hideaki; INAGUMA, Asumi; YAMADA, Toshimichi; OZAWA, Takeaki

Chair: OZAWA, Takeaki (17:10~18:00)

- \* 17:00-17:10: interval for laptop PC connection.(3A6-50, 3A6-51, 3A6-52, 3A6-54)  
**3A6-50** Synthesis and properties of peroxide sensitive fluorescent probe containing BODIPY moiety (Faculty of Science, Fukuoka Univ.) ISAYAMA, Takuya; NAKAGAWA, Hiroyuki; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei  
**3A6-51** Synthesis and intracellular molecular dynamics of a new fluorescent probe mimicking the N-terminal of a myristoylated peptide (Faculty of Science, Fukuoka Univ.; Center for Biological Resources and Informatics, Tokyo Institute of Technology; Bioscience and Biotechnology, Tokyo Institute of Technology) MORITA, Haruka; ANDO, Setsuko; OKUMA, Kentaro; NAGAHORA, Noriyoshi; AIZAWA, Yasunori; FUKUDA, Makihisa; NAKAGAWA, Hiroyuki; SHIOJI, Kosei  
**3A6-52\*** Design and synthesis of abasic site binding ligands for multicolor fluorescence assay (Department of Chemistry, Graduate School of Science, Tohoku Univ.) SATO, Yusuke; KUDO, Megumi; WANG, Chunxia; NISHIZAWA, Seiichi; TERAMAE, Norio  
**3A6-54** Binding properties of drugs to human serum albumin studied by fluorescence probes (Kyushu Univ. Dept. Chem.) YAMAKAWA, Tokio; TAKEHARA, Kou; YAMADA, Shuto; KAWANAMI, Youji; IRYU, Miyuki

## Wednesday, March 28, AM

### Interfacial analysis

Chair: TOKESHI, Manabu (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4A6-01, 4A6-03, 4A6-05, 4A6-06)  
**4A6-01\*** Atomic force microscopy study of liquid structures over hydrophilic monolayers (Graduate school of Science, Kobe Univ.) HIASA, Takumi; KIMURA, Kenjiro; ONISHI, Hiroshi

## Bioanalysis

- 4A6-03\*** Development of Tunneling Current Based Single-Molecule DNA/RNA

Electrical Sequencing (ISIR, Osaka Univ.) OHSHIRO, Takahito; TSUTSUI, Makusu; MATSUBARA, Kazuki; FURUHASHI, Hiroyuki; TANIGUCHI, Masateru; KAWAI, Tomoji

**4A6-05** Determination of DNA methylation by electrogenerated chemiluminescence (AIST) KURITA, Ryoji; ARAI, Kumi; NAKAMOTO, Kohei; KATO, Dai; NIWA, Osamu

**4A6-06** Development of label-free immunosensor using nanoimprint lithography-based photonic crystal (Osaka Prefecture Univ.) SATO, Masaya; YAMASHITA, Chie; SETO, Hirokazu; MIURA, Yoshiko; HISAMOTO, Hideaki; ENDO, Tatsuro

Chair: SATO, Yusuke (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4A6-08, 4A6-09, 4A6-10, 4A6-11, 4A6-12)

**4A6-08** Study of tube radial distribution phenomenon (TRDP) and its application; biomolecule separation taking advantage of host-guest interaction (Faculty of Science and Engineering, Doshisha Univ.) HAMAGUCHI, Yuya; TAKAHASHI, Naoya; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**4A6-09** Discrimination of Single Nucleotide Polymorphisms based on Oligonucleotide Ligation Assay with Magnetic Beads (Faculty of Science and Engineering, Doshisha Univ.) MORIMOTO, Chika; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**4A6-10** Use of molecular beacon probe for detecting single nucleotide variations (Faculty of Science and Engineering, Doshisha Univ.) WATANABE, Syo; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**4A6-11** DNA Separation by DNA Trapping Phenomena at the Interface of Nanopillars (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) MOTOYAMA, Koki; YASUI, Takao; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; HORIIKE, Yasuhiro; BABA, Yoshinobu

**4A6-12\*** Kinematic Analysis of Single DNA Molecular Digestion under Microfluidic Control (Nagoya Univ.) ONOSHIMA, Daisuke; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu

Chair: NISHIZAWA, Seiichi (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4A6-15, 4A6-16, 4A6-17, 4A6-19, 4A6-20)

**4A6-15** Single DNA Molecule Methylation Detection for Rapid and Simple Epigenetic Analysis by microfluidic devices (Nagoya Univ.; FIRST, Nagoya Univ.) SANO, Tatsuki; ONOSHIMA, Daisuke; OKAMOTO, Yukihiko; KAJI, Noritada; KONDO, Yutaka; TOKESHI, Manabu; BABA, Yoshinobu

**4A6-16** SPIRAL MICROCHANNEL FOR HIGH THROUGHPUT PLASMA SEPARATION (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) MORIKAWA, Jumpei; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; Tsubota, Kazuo; BABA, Yoshinobu

**4A6-17\*** Label-free DNA detection by laser diffraction in nanostructures (Nagoya Univ. ;FIRST, Nagoya Univ. ;Nat. Inst. Mater. Sci.) YASUI, Takao; OGAWA, Kensuke; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; HORIIKE, Yasuhiro; BABA, Yoshinobu

**4A6-19** Tumor cell imaging using quantum dots (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) NAKAO, Saori; PARK, Yeonsu; OKAMOTO, Yukihiko; KAJI, Noritada; MIZUNO, Masaaki; TOKESHI, Manabu; BABA, Yoshinobu

**4A6-20** Purification of nanodevices for gene therapy by free-flow electrophoresis (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) SHIGENAKA, Daisuke; UKAWA, Masami; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; AKITA, Hidetaka; HARASHIMA, Hideyoshi; BABA, Yoshinobu

## Room B1

4th Bldg., Section B J14

### Coordination Chemistry, Organometallic Chemistry

Sunday, March 25, AM

Rh, Ir

Chair: KAMEO, Hajime (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(1B1-01, 1B1-03, 1B1-04, 1B1-06)

**1B1-01\*** Proton-responsive Ir complexes for reversible hydrogen storage based on a CO<sub>2</sub>/HCOOH system (AIST) WANG, Wanhui; HIMEDA, Yuichiro; HULL, Jonathan F.; MUCKERMAN, James T.; FUJITA, Etsuko

**1B1-03** Formation of Cubane Clusters by Desulfurization of a Rhodium Thioamide Complex (Faculty of Science and Engineering, Chuo Univ.)

SAKIGAWARA, Masahiro; NIIYAMA, Ippei; MUTOH, Yuichiro; ISHII, Youichi

**1B1-04\*** Synthesis, Structures and Reactivities of Dinuclear NiRh Complexes Bridged by a New N3S2 Ligand with Two Thiolate Pendants (Nara Women's Univ.) KURE, Bunsho; TANIGUCHI, Ayami; NAKAJIMA, Takayuki; TANASE, Tomoaki

**1B1-06** Synthesis, Structures, and Reactivities of Electron-Deficient Dinuclear Rhodium Complexes Supported by a Tetrathiosphine Ligand dpmppp (Nara Women's Univ.) SAKAMOTO, Miyuki; KURAI, Sachi; NODA, Sayo; ZOUDA, Maki; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki

Chair: NAKAJIMA, Takayuki (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(1B1-08, 1B1-09, 1B1-10, 1B1-11, 1B1-12, 1B1-13)

**1B1-08** Synthesis of chiral dinuclear iridium complexes via cyclometallation of diphenylpiperazines (Tokyo Institute of Technology, Graduate School of Science and Engineering) SUZUKI, Kohei; SATO, Yasuhiro; KAYAKI, Yoshihito; IKARIYA, Takao

**1B1-09** Synthesis and Reactivity of Iridium Complexes Bearing Chelating Sulfonamidato Ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) YAMAGUCHI, Ayumi; KOISO, Naoyuki; ISHIWATA, Koji; KUWATA, Shigeki; IKARIYA, Takao

**1B1-10** Synthesis of Rhodium and Iridium Complexes Bearing Phosphine-Tethered Borane: Versatile Coordination Behavior of Borane Ligand (Graduate School of Science, Osaka City Univ.) KAMEO, Hajime; HAMAGUCHI, Tomoyuki; NAKAZAWA, Hiroshi

**1B1-11** Oxidation Reaction of Rhodium Complexes Bearing [E(*o*-C<sub>6</sub>H<sub>4</sub>PPh<sub>2</sub>V)<sub>3</sub>] Type Tetradentate Ligand (E = Si, Ge, Sn) (Osaka City Univ.) ISHII, Sho; KAMEO, Hajime; NAKAZAWA, Hiroshi

**1B1-12** Synthesis and Properties of Rhodium Complexes Coordinated with Electron-deficient *N*-Heterocyclic Carbene Ligands (Graduate School of Engineering, Tohoku Univ.; Environment Conservation Research Institute, Tohoku Univ.) SATO, Tetsuo; HIROSE, Yoichi; YOSHIOKA, Daisuke; OI, Shuichi

**1B1-13** Synthesis of Rhodium and Ruthenium Complexes Bearing Alkyne-containing Tridentate Ligands (Kyoto Univ.) OKAMOTO, Kazuhiro; SANO, Hayato; OMOTO, Yusuke; OHE, Kouichi

Chair: TSURUGI, Hayato (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(1B1-15, 1B1-17, 1B1-18, 1B1-19)

**1B1-15\*** Pyrazolato iridium complex-catalyzed intramolecular hydroamination of aminoalkenes and its reaction mechanism (Graduate School of Science and Engineering, Tokyo Institute of Technology) KASHIWAME, Yohei; KUWATA, Shigeki; IKARIYA, Takao

**1B1-17** Reactivity of Iridium Complexes Bearing an O,N-Chelating Salicyloxime Ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) FURUTA, Tatsuro; KASHIWAME, Yohei; KUWATA, Shigeki; IKARIYA, Takao

**1B1-18** Synthesis and Reactivity of Rh(III) complex bearing a bis(phosphaethenyl)benzene ligand (Institute for Chemical Research, Kyoto Univ.) FUJII, Hiroyuki; NAKAJIMA, Yumiko; OZAWA, Fumiyuki

**1B1-19** N-Alkylation of Primary and Secondary Amines with Alcohols Catalyzed by Bis(phosphaethenyl)pyridine Ir(I) Complex (Institute for Chemical Research, Kyoto Univ.) CHANG, Yung-hung; NAKAJIMA, Yumiko; OZAWA, Fumiyuki

### Sunday, March 25, PM

Chair: MUTOH, Yuichiro (14:20~15:20)

\* 14:10-14:20: interval for laptop PC connection.(1B1-33, 1B1-34, 1B1-35, 1B1-37, 1B1-38)

**1B1-33** Aerobic oxidative desymmetrization of meso-diols with Cp\*Ir complex bearing chiral diamine ligand. (Tokyo Institute of Technology, Graduate School of Science and Engineering) MORITANI, Junki; HASEGAWA, Yasuharu; KAYAKI, Yoshihito; IKARIYA, Takao

**1B1-34\*** Dehydrogenative Silylation Reaction Catalyzed by Iridium Complexes with Perimidine-based Carbene Ligands (Graduate School of Engineering Science, Osaka Univ.) CHOI, Gyeongshin; TSURUGI, Hayato; MASHIMA, Kazushi

**1B1-35\*** Mechanistic Study of Enhanced Positive Feedback in Asymmetric Hydrogenation of 2-Substituted Quinoxalines (Graduate School of Engineering Science, Osaka Univ.) NAGANO, Takuto; IIMURO, Atsuhiro; KITA, Yusuke; MASHIMA, Kazushi

**1B1-37** Asymmetric Hydrogenation of Isoquinolines Catalyzed by Iridium (III) Complexes (Graduate School of Engineering Science, Osaka Univ.) IIMURO, Atsuhiro; YAMAJI, Kenta; NAGANO, Takuto; KITA, Yusuke; MASHIMA, Kazushi

**1B1-38** Comparable study on hydrogenation of alpha,beta-unsaturated esters catalyzed by group 8 and 9 bifunctional chelate amine complexes (Tokyo Institute of Technology, Graduate School of Science and Engineering) MIYAZAWA, Kazuki; WATARI, Ryo; KAYAKI, Yoshihito; IKARIYA, Takao

Chair: HATANAKA, Tsubasa (15 : 30~16 : 30)

\* 15:20-15:30: interval for laptop PC connection.(1B1-40, 1B1-41, 1B1-42, 1B1-43, 1B1-44, 1B1-45)

- 1B1-40** Oxidative Coupling Reaction of Enamines with Silyl Enol Ethers Using Photoredox Catalyst (Tokyo Institute of Technology; Chemical Resources Laboratory) YASU, Yusuke; KOIKE, Takashi; AKITA, Munetaka
- 1B1-41** Photoinduced Coupling Reactions of  $\alpha$ -Silylamines with  $\alpha,\beta$ -Unsaturated Carbonyl Compounds Using Photoredox Catalysts (Tokyo Institute of Technology; Chemical Resources Laboratory) KOIKE, Takashi; AKITA, Munetaka

## Fe

- 1B1-42** Reactivity of Thiolato-Bridged Dinuclear Iron Complexes Containing Phosphine Ligands (Osaka City Univ.) SANTO, Kiyokazu; HIROTSU, Masakazu; NISHIOKA, Takanori; KINOSHITA, Isamu
- 1B1-43** Synthesis and Properties of Dinuclear Iron Complexes Containing Optically Active N,C,S-Tridentate Ligands with Oxazoline Moieties (Osaka City Univ.) HIROTSU, Masakazu; SANTO, Kiyokazu; KINOSHITA, Isamu
- 1B1-44** Synthesis and reaction of Iron-alkyl and aryl complexes with NCN tridentate ligand (Univ. of Nagoya; Graduate School of Engineering) HOSOKAWA, Satomi; ITO, Jun-ich; NISHIYAMA, Hisao
- 1B1-45** Reactions of Pincer-type Bis(pyrazolyl)pyridine Complexes of Iron with Hydrazines (Graduate School of Science and Engineering, Tokyo Institute of Technology) UMEHARA, Kazuki; YOSHINARI, Akihiro; KUWATA, Shigeki; IKARIYA, Takao

Chair: OHKI, Yasuhiro (16 : 40~17 : 40)

\* 16:30-16:40: interval for laptop PC connection.(1B1-47, 1B1-48, 1B1-49, 1B1-50, 1B1-52)

- 1B1-47** Desulfurization Reaction of Thiourea by a Transition Metal Complex (Osaka City Univ.;Kobe City College of Technology) HAYASAKA, Kazumasa; FUKUMOTO, Kozo; NAKAZAWA, Hiroshi
- 1B1-48** Catalytic Activity for Hydrosilylation by Iron Complexes with Terpyridine Derivative (Osaka City Univ.) SUZUKI, Atsuko; NAKAI, Yuta; KAMATA, Kouji; NAKAZAWA, Hiroshi
- 1B1-49** Synthesis of Imine from Thioamide Catalyzed by an Iron Complex (Osaka City Univ.; Kobe City College of Technology) SAKAI, Akane; FUKUMOTO, Kozo; OYA, Tsukuru; NAKAZAWA, Hiroshi
- 1B1-50\*** Synthesis of Platinum(II) Complexes bearing Triazole-containing Rotaxane (Tokyo Inst. of Tech., Chem. Res. Lab.) YU, Gilbert; SUZAKI, Yuiji; OSAKADA, Kohtarō
- 1B1-52** Synthesis of Poly(ferrocenylene alkylene) (Tokyo Inst. of Tech., Chem. Res. Lab.) YOSHIGOE, Yusuke; SUZAKI, Yuiji; OSAKADA, Kohtarō

Chair: NAKAJIMA, Yumiko (17 : 50~18 : 30)

\* 17:40-17:50: interval for laptop PC connection.(1B1-54, 1B1-55, 1B1-56, 1B1-57)

- 1B1-54** Photochemical reactions of a dimesitylgallyliron complex with pyridine derivatives (Graduate School of Engineering, Gunma Univ.) ISHII, Yasuhisa; MURAOKA, Takako; UENO, Keiji
- 1B1-55** Synthesis and structure of the first gallacyclopentadienyliron complex (Graduate School of Engineering, Gunma Univ.) NAKASHIMA, Taro; OGASHIWA, Mizuki; MURAOKA, Takako; UENO, Keiji
- 1B1-56** Synthesis of Multinuclear Iron Complexes with 1,3,5-Tris(hydroxyaryl)benzene Ligands (Tokyo Tech.) HATANAKA, Tsubasa; KAWAGUCHI, Hiroyuki
- 1B1-57** Synthesis and Properties of Homoleptic Iron(I) Complexes of N-heterocyclic Carbenes (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) HOSHINO, Ryoko; OHKI, Yasuhiro; TATSUMI, Kazuyuki

## Monday, March 26, AM

Chair: KOIKE, Takashi (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2B1-01, 2B1-02, 2B1-03, 2B1-04, 2B1-05, 2B1-06)

- 2B1-01** Activation of Acetonitrile by Non-planar Carbocation Bridged over Tetrairon Cores and Structure of the Product (Graduate School of Science and Technology, Hirosaki Univ.) TANIWAKI, Wataru; NISHIYA, Masakazu; MIYAGI, Kazuki; OZAWA, Fumiyuki; OKAZAKI, Masaaki
- 2B1-02** Synthesis of iron tricarbonyl complexes of vinylketenes (Kyushu Institute of Technology) SATA, Naoki; INADOME, Masato; UTO, Takahiro; KITAMURA, Mitsuru; OKAUCHI, Tatsuo
- 2B1-03\*** Synthesis of Anthracene Dimers Catalyzed by Transition Metals (Catalysis Research Center, Hokkaido Univ.) ZHANG, Sicheng; JIA, Zhiying; SONG, Zhiyi; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 2B1-04** Synthesis and Catalytic Performance of Mononuclear Iron Complex Bearing a Triazacyclononane ligand for Atom Transfer Radical Polymerization. (Kyushu Univ. Nagashima lab.) NAKANISHI, Soichiro; SUNADA, Yusuke; KAWAMURA, Yukinori; KAI, Hidechi; SASAMOTO, Akane; KOIKE, Noriyuki; HAYAKAWA, Hitoshi; JIN, Ren-hua; NAGASHIMA, Hideo

## Ru

- 2B1-05** Ruthenium-Catalyzed Linear Codimerization of Dienes with Alkenes (Kyoto Univ.) KONDO, Teruyuki; SHEN, Lingfeng; YAMAMOTO, Keishuke; KIMURA, Yu; TOSHIMITSU, Akio
- 2B1-06** Ru-catalyzed Decarbonylative Coupling Reaction of Cyclopropenones with Alkenes (Kyoto Univ.) KONDO, Teruyuki; TANIGUCHI, Ryosuke; YOSHIDA, Yuki; KIMURA, Yu; TOSHIMITSU, Akio

Chair: TAKAO, Toshiro (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2B1-08, 2B1-09, 2B1-10, 2B1-11, 2B1-12, 2B1-13)

- 2B1-08** Formation of ruthenacyclopentanes by oxidative cyclization of enamides with acrylates (Faculty of Science, Nara Women's Univ.) FUKUZAWA, Hiroko; URA, Yasuyuki; KATAOKA, Yasutaka
- 2B1-09** Oxidative Coupling Reaction of Coordinated Conjugate Diene with Allene at Ruthenium(0) Complex (Tokyo Univ. of A & T) OKAMOTO, Takuya; HIRANO, Masafumi; KOMIYA, Sanshiro
- 2B1-10** Chemoselective Cross Dimerization between Branched Conjugate Diene and Branched Conjugate Carbonyl Compound by Ruthenium(0) Complex (Tokyo Univ. of A & T) ARAI, Yasutomo; HAMAMURA, Yuka; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 2B1-11** Synthesis of Ru(0) complexes having a bicyclic diene ligand and their application to catalytic chemo selective cross dimerization of substituted olefin (Tokyo Univ. of A & T) YUKI, Hiro; HIRANO, Masafumi; KOMIYA, Sanshiro
- 2B1-12** Ligand Effects on Internal Alkyne-Disubstituted Vinylidene Isomerization at Group 8 Metal-Cp Complexes (Faculty of Science and Engineering, Chuo Univ.) ITO, Akira; NAKAMURA, Rina; LAMBERT, Natacha; KIMURA, Yusuke; IKEDA, Yousuke; MUTOH, Yuichiro; ISHII, Youichi
- 2B1-13** Reaction of Seleno- and Tellurocarbonyl Complexes with Boron Compounds: Formation of Five-coordinate 16-Electron Complexes and Their Reactivities (Faculty of Science and Engineering, Chuo Univ.) IKENAGA, Kota; KOZONO, Naoki; MUTOH, Yuichiro; ISHII, Youichi

Chair: TAKEMOTO, Shin (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2B1-15, 2B1-16, 2B1-17, 2B1-18, 2B1-19, 2B1-20)

- 2B1-15** Synthesis and Reactivities of NCN-Bridged Ruthenium Complexes with a Dppm Ligand (Faculty of Science and Engineering, Chuo Univ.) NOGAMI, Tadahiko; IMAJI, Makoto; UEMURA, Kaoru; TANABE, Yoshiaki; MUTOH, Yuichiro; ISHII, Youichi
- 2B1-16** Successive  $sp^3$  C-H Bond Cleavage Reaction of the *ortho*-Ethyl Group in (2,6-Diethylphenoxo)ruthenium(II) Complex (Tokyo Univ. of A & T) YANAGISAWA, Yasuto; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 2B1-17** Activation of C-H bond of benzene induced by triruthenium clusters containing a triply bridging ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) TAHARA, Atsushi; TAKAO, Toshiro; SUZUKI, Hiroharu
- 2B1-18** Photoreaction of trinuclear ruthenium alkyne complexes having a  $\mu_3$ -X ligand (X = CH, BH, O) (Tokyo Tech) KANEKO, Takeshi; SUZUKI, Hiroharu
- 2B1-19** Synthesis and reaction of diruthenium complexes supporting by ether-bridged Cp ligands (Tokyo Institute of Technology) KUMON, Tatsuya; OISHI, Masataka; SUZUKI, Hiroharu
- 2B1-20** Catalytic Dehydrative Asymmetric Geuther-Wislicenus-type Allylation (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) MIYATA, Kengo; OTAKA, Hayato; KITAMURA, Masato

## Monday, March 26, PM

Chair: KAYAKI, Yoshihito (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2B1-28, 2B1-29, 2B1-31, 2B1-32, 2B1-33)

- 2B1-28** Reactivity of a Heterometallic Trinuclear Polyhydrido Cluster Composed of Ruthenium and Cobalt with Alkynes (Tokyo Tech) NAGAOKA, Masahiro; TAKAO, Toshiro; SUZUKI, Hiroharu
- 2B1-29\*** RUCY (Chiral Ruthenabicyclic Complexes): Pre-catalysts for Rapid, Enantioselective, and Wide-scope Hydrogenation of Ketones (Hokkaido Univ., Takasago Int. Corp.) MATSUMURA, Kazuhiko; ARAI, Noriyoshi; HORI, Kiyoto; SAITO, Takao; SAYO, Noboru; OHKUMA, Takeshi
- 2B1-31** Mechanistic Study on Catalytic Dehydrative Asymmetric Allylation Using CpRuPicolinic Acid Combined Catalyst (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) SEKI, Tomoaki; IYODA, Yoko; TANAKA, Shinji; KITAMURA, Masato
- 2B1-32** Lowest transition state for the asymmetric reduction of acetophenone with RuH(*N*-Tsdpen)( $\eta^6$ -*p*-cymene) (Department of Chemistry and Research Center for Materials Science, Nagoya Univ.) MATSUOKA, Aki; NOYORI, Ryoji; NAKA, Hiroshi
- 2B1-33** The asymmetric reduction of ketones with planar-chiral terpyridine Ru(II) complexes (Waseda Univ.) KOTANI, Kyohei; KANOMATA, Nobuhito

Chair: ARIKAWA, Yasuhiro (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2B1-35, 2B1-37, 2B1-38, 2B1-39, 2B1-40)
- 2B1-35\*** Oxo-tethered Ruthenium Complex as a Bifunctional Catalyst for Asymmetric Transfer Hydrogenation and H<sub>2</sub>-Hydrogenation (Takasago International Corporation) TOUGE, Taichiro; HAKAMATA, Tomohiko; NARA, Hideki; KOBAYASHI, Tooru; SAYO, Noboru; SAITO, Takao; KAYAKI, Yoshihito; IKARIYA, Takao
- 2B1-37** Synthesis and Catalytic Activities of ONO-Pincer Ru-Complex-Bound Norvalines (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) YOKOI, Tomoya; ISOZAKI, Katsuhiko; OGATA, Kazuki; SASANO, Daisuke; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 2B1-38** Synthesis and Functions of Pincer Transition-Metal-Complex-Bound Norvaline Peptides (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) YOKOI, Tomoya; ISOZAKI, Katsuhiko; OGATA, Kazuki; SASANO, Daisuke; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 2B1-39** Synthesis of functional organometallic molecular wires with metalloporphyrine bridges (Tokyo Institute of Technology; Chemical Resources Laboratory) ONO, Masanori; MURAI, Masahito; KOIKE, Takashi; AKITA, Munetaka
- 2B1-40** Synthesis of long chain organometallic molecular wires consisting of a repeating a diethynyl thiophene-metal unit. (Tokyo Institute of Technology; Chemical Resources Laboratory) IDEI, Hidekazu; KOIKE, Takashi; AKITA, Munetaka

Chair: MATSUMOTO, Tsuyoshi (15 : 50~17 : 00)

- \* 15:40-15:50: interval for laptop PC connection.(2B1-42, 2B1-43, 2B1-44, 2B1-45, 2B1-46, 2B1-48)
- 2B1-42** Synthesis and Reactivity of Half-sandwich Ruthenium Complexes Bearing a Protic Hydrazone Ligand (Tokyo Institute of Technology, Graduate School of Science and Engineering) TAKAMI, Yoshie; KASHIWAME, Yohei; KUWATA, Shigeki; IKARIYA, Takao
- 2B1-43** Synthesis and Reactivities of Anionic Cp\*Ru Terminal Amido Complexes (Graduate School of Science, Osaka Prefecture Univ.) YUMOTO, Yoshihiro; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 2B1-44** Reactions of Dinuclear Ruthenium Imido Complex with Organolithium Reagents (Graduate School of Science, Osaka Prefecture Univ.) FUJIWARA, Hiromi; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 2B1-45** Synthesis of Dinuclear Ruthenium Bridging Stannylene and Stannylene Complexes via Reactions of [Cp\*Ru(NHP)]<sub>2</sub> with Tin(II) Compounds (Graduate School of Science, Osaka Prefecture Univ.) YOSHII, Kaname; MASHIMA, Daichi; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 2B1-46\*** Synthesis and Structures of Group 4 and 8 Metal Complexes Bearing Stannole Ligands (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.; Institute for Molecular Science) KUWABARA, Takuya; SAITO, Masaichi; GUO, Jing-dong; NAGASE, Shigeru
- 2B1-48** Reactivity of Unsymmetrical Mononitrosyl Dinuclear Ruthenium Complexes having Tp Ligands (Nagasaki Univ.) IKEDA, Ayumi; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

### Wednesday, March 28, AM

Chair: KOBAYASHI, Atsushi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4B1-01, 4B1-02, 4B1-03, 4B1-05, 4B1-06)
- 4B1-01** Photosubstitution Reactivities of Terminal Halides on Hexarhenium (III) Complexes (Graduate School of Science, Osaka Univ.; Faculty of Science, Hokkaido Univ.; Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) YOSHIMURA, Takashi; SUO, Chiaki; ITO, Akitaka; SAKUDA, Eri; KITAMURA, Noboru; SHINOHARA, Atsushi
- 4B1-02** Substituent Effect on the Photocatalytic CO<sub>2</sub> reduction on Rhenium Bipyridine Complexes (NTT Energy and Environment Systems Lab.) ONO, Yoko; TSUDA, Masayuki; MARUO, Yasuko; SOMEMURA, Yoh
- 4B1-03\*** Photocatalytic CO<sub>2</sub> Reduction using Hybrids of a Rhenium(I) Ring and a Polyoxometalate (Tokyo Tech.; AIST; ALCA/JST) ASATANI, Tsuyoshi; KOIKE, Kazuhide; YUI, Tatsuto; ISHITANI, Osamu
- 4B1-05** New synthetic methods of photofunctional metal complexes using coupling reactions (Tokyo Tech.) YAMAZAKI, Yasuomi; MORIMOTO, Tatsuki; ISHITANI, Osamu
- 4B1-06** Most efficient photocatalytic CO<sub>2</sub> reduction using ring-shaped multi nuclear Re(I) complexes as a photosensitizer. (Tokyo Tech.) TANAKA, Marina; MORIMOTO, Tatsuki; KOIKE, Kazuhide; ISHITANI, Osamu

Chair: SAKUDA, Eri (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4B1-08, 4B1-10, 4B1-11, 4B1-12, 4B1-13)
- 4B1-08\*** Photocatalytic System Composed of a Dinuclear Rhenium Complex (Tokyo Tech., PRESTO/JST) MORIMOTO, Tatsuki; ISHITANI, Osamu
- 4B1-10** Synthesis and properties of heterometallic dinuclear complexes bridged by transition-metal complex ligands bearing phosphine-tetrazolate type ligand (Okayama Univ.) TAKEHARA, Yutarou; SUZUKI, Takayoshi; SUNATSUKI, Yukinari
- 4B1-11** Photo and Thermal Structural Conversion of Hydrazone - Pd(II)

Complexes, and Structures of the Reaction Intermediates. (Dept. Chem., Aichi Univ. of Edu.; Dept. Chem., Hokkaido Univ.) KITAMURA, Fumi; MORI, Asami; FUJISAWA, Sachie; KOBAYASHI, Atsushi; CHANG, Ho-chol; KATO, Masako; NAKAJIMA, Kiyohiko

- 4B1-12** Synthesis of a Macrocyclic Palladium(II) Complex with trans-Chelating Bis(pyridyl) Ligand (Tokyo Inst. of Tech., Chem. Res. Lab.) JUNG, Miso; SUZAKI, Yuji; OSAKADA, Kohtaro
- 4B1-13** Syntheses and Photoinduced Energy Transfer Properties of Transition Metal Complexes Containing Zn porphyrin (Tokyo Institute of Technology, Chemical Resources Laboratory) MURATA, Kei; INAGAKI, Akiko; AKITA, Munetaka

Chair: CHANG, Hocho1 (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4B1-15, 4B1-16, 4B1-17, 4B1-18, 4B1-19, 4B1-20)
- 4B1-15** The Dielectric Properties of Quasi-one-dimensional Halogen-bridged Metal Complexes (Tohoku Univ.) KUMAGAI, Shohei; TAKAISHI, Shinya; ARIMA, Taka-hisa; ABE, Nobuyuki; YAMASHITA, Masahiro
- 4B1-16** Synthesis of NCN Pincer-type Palladium(II) Complexes Bearing Uracil Moiety (Osaka Univ.) MORIUCHI, Toshiyuki; OHATA, Ryohei; HIRAO, Toshikazu
- 4B1-17** Synthesis and Function of Organogold(I) Complex Bearing Uracil Moiety (Osaka Univ.) SAKAMOTO, Yuki; MORIUCHI, Toshiyuki; HIRAO, Toshikazu
- 4B1-18** Function of Organometallic Complex Bearing Guanine Moiety (Osaka Univ.) MENG, Xiangtai; SAKAMOTO, Yuki; MORIUCHI, Toshiyuki; HIRAO, Toshikazu
- 4B1-19** Synthesis of Self Assembled M<sub>24</sub>L<sub>48</sub> spherical complex based on empirical prediction (School of Engineering, The Univ. of Tokyo; CREST) NUMATA, Eri; IWASA, Junji; SATO, Sota; FUJITA, Makoto
- 4B1-20** Nanophase Construction by 48 Endo-functionalization of M<sub>24</sub>L<sub>48</sub> Self-Assembled Spherical Complexes (The Univ. of Tokyo; CREST) IWASA, Junji; SATO, Sota; FUJITA, Makoto

### Wednesday, March 28, PM

Chair: MATSUSHITA, Nobuyuki (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(4B1-27, 4B1-28, 4B1-29, 4B1-30, 4B1-31, 4B1-32)
- 4B1-27** Synthesis and Solid-State Emission of Asymmetrical Platinum(II) Complexes Bearing o-Iminophenyl and o-Iminophenoxy Ligands. (Graduate School of Engineering Science, Osaka Univ) KASHIWABARA, Takashi; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 4B1-28** Synthesis and Bending Structure of trans-Bis(thiosalicylaldiminato) platinum(II) Complexes (Graduate School of Engineering Science, Osaka Univ.) KITAGAWA, Tomoki; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 4B1-29** Photoreactivity of a solvatochromic hydrazone-Pt(II) complex (Hokkaido Univ.) YAMAMOTO, Daisuke; KOBAYASHI, Atsushi; CHANG, Ho-chol; NAKAJIMA, Kiyohiko; KATO, Masako
- 4B1-30** The Crystal Phase Transition And The Mechanochromism of Platinum(II) Complex (Yokohama City Univ.) KAYANO, Takahiro; SHINOZAKI, Kazuteru
- 4B1-31** Circularly Polarized Luminescence of a Novel Platinum Complex (Yokohama City Univ.) ICHIDA, Kyoko; ABE, Taichi; SHINOZAKI, Kazuteru
- 4B1-32** Luminescence color control of platinum (II) complex with a cyclometalate ligand (Yokohama City Univ.) FUJITA, Kiyomi; SHINOZAKI, Kazuteru

Chair: SUGIMOTO, Hideki (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(4B1-34, 4B1-35, 4B1-36, 4B1-37, 4B1-38, 4B1-39)
- 4B1-34** Translate states of Pt-complexes- important for spin-orbit coupling (Rikkyo Univ.; Ochanomizu Univ.) KOJIMA, Ryohei; MORI, Hiroto; MOCHIZUKI, Yuji; UENOHARA, Waka; UMEZAWA, Izumi; MATSUSITA, Nobuyuki
- 4B1-35** Synthesis and Properties of Group 10 Metal Complexes with Diphosphine and Sulfur-Containing Amino Acid (Osaka Univ.) SHIMIZU, Tsutomu; YOSHINARI, Nobuto; IGASIRA, Asako; KONNO, Takumi
- 4B1-36** Crystal Structure and Electronic State of a Novel 4-legged MX<sub>2</sub>-Tube typed Platinum Complex with Bulky Chelate Ligands (Grad. Sch. Sci., Kyoto Univ. ; JST-CREST) OTAKE, Kenichi; OTSUBO, Kazuya; KITAGAWA, Hiroshi
- 4B1-37** A Cyano-bridged Vanadium-Niobium Bimetal Assembly with a High Curie Temperature of 210 K (The Univ. of Tokyo) TAKEMURA, Miho; IMOTO, Kenta; TOKORO, Hiroko; OHKOSHI, Shin-ichi
- 4B1-38** A Cyano-bridged Cobalt-Niobium Bimetal Assembly with a High Coercive Field (The Univ. of Tokyo) IMOTO, Kenta; TAKANO, Shinjiro; TOKORO, Hiroko; OHKOSHI, Shin-ichi
- 4B1-39** UV-Visible Spectroscopic Analysis on Alkene Binding to a Silver(I) Complex Using a Silver(I)-Anthracene Interaction (Doshisha Univ.) NAGAI, Toshiyuki; HITOMI, Yutaka; KODERA, Masahito

Chair: HITOMI, Yutaka (15 : 40~16 : 20)

- \* 15:30-15:40: interval for laptop PC connection.(4B1-41, 4B1-42, 4B1-43,

4B1-44)

- 4B1-41** Linkage of S-Bridged  $\text{Ag}_3\text{Rh}^{\text{III}}_2$  Pentanuclear Complex by Halide Ions (Osaka Univ.) UEDA, Misaki; IGASHIRA, Asako; YOSHINARI, Nobuto; KONNO, Takumi
- 4B1-42** Oxidant Effects on the *cis*-Dihydroxylation of Alkenes Catalyzed by Osmium-TPA Complex (Graduate School of Engineering, Osaka Univ.) TSUMADORI, Tomoki; SUGIMOTO, Hideki; ITOH, Shinobu
- 4B1-43** Ligand Effects on Catalytic *cis*-Dihydroxylation of Alkenes by Mononuclear Os(III) Complexes (Univ. of Osaka) ASHIKARI, Kenji; SUGIMOTO, Hideki; ITOH, Shinobu
- 4B1-44** C-H Bond Activation of the Ligand in an Os(III) Complex (Univ. of Osaka) SUGIMOTO, Hideki; ASHIKARI, Kenji; ITOH, Shinobu

## Room B2

4th Bldg., Section B J24

### Coordination Chemistry, Organometallic Chemistry

Sunday, March 25, AM

Chair: KANEGAWA, Shinji (9:00 ~ 10:10)

- \* 8:50-9:00: interval for laptop PC connection.(1B2-01, 1B2-02, 1B2-03, 1B2-04, 1B2-05, 1B2-06)
- 1B2-01** Preparation and Stereochemistry of Tris(thiolato) Mononuclear Co(III) Complexes and S-Bridged Polynuclear Complexes (Kochi Univ.) ISHIGAYASUMI, Masaki; MATSUMOTO, Kenji; OZAWA, Tomohiro; YONEMURA, Toshiaki
- 1B2-02** Guest responsivity of two-dimensional coordination polymers with lipophilic ligands (Kyushu Univ.) KAJITANI, Kazuki; YONEDA, Ko; KOSHIYAMA, Tomomi; OHTANI, Ryo; KITAGAWA, Susumu; OHBA, Masaaki
- 1B2-03<sup>#</sup>** Synthesis and Chiral Behavior of S-Bridged  $\text{Ag}_3\text{Co}^{\text{III}}_2$  and  $\text{Au}_3\text{Co}^{\text{III}}_2$  Pentanuclear Complexes  $[\text{M}_3\{\text{Co}(\text{L-cys})_3\}_2]^{2+}$  (M =  $\text{Ag}^+$ ,  $\text{Au}^+$ ) (Osaka Univ.) LEE, Pei-shan; YUAN, Hou Qun; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi
- 1B2-04** Synthesis and Structural Conversion on  $\text{Au}_2\text{Co}^{\text{III}}_2$  Tetranuclear Complex with *N*-Methyl-D-penicillamate (Osaka Univ.) OJI, Katsuya; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi
- 1B2-05** Construction of A New  $\text{N}_5\text{S}_2$ -type Cobalt Complex for Nitrile Hydration (Nagoya Institute of Technology, Masuda Laboratory) TAKAGI, Hiromitsu; IKEDA, Tomohiro; YANO, Takuma; OZAWA, Tomohiro; MASUDA, Hideki
- 1B2-06** Synthesis and characterization of cobalt(II) complexes with tripodal polypyridine ligand bearing pivalamide groups: Effect of counteranions on the coordination geometry (Nagoya Institute of Technology) MATSUMOTO, Jun; KAJITA, Yuji; MASUDA, Hideki
- Chair: KAWATA, Satoshi (10:10 ~ 11:10)
- \* 10:00-10:10: interval for laptop PC connection.(1B2-08, 1B2-09, 1B2-10, 1B2-12, 1B2-13)
- 1B2-08** Synthesis and Properties of amidate-thiolate type Co(III) complex for NO sensing materials (NAGOYA INSTITUTE OF TECHNOLOGY Masuda lab.) MIZUNO, Takayoshi; YANO, Takuma; OZAWA, Tomohiro; MASUDA, Hideki
- 1B2-09** Preparation and Characterization of Co(II, III) Complexes with N2S2 Coordination environment which is similar to the Active Site of Nitrile Hydratase (Nagoya Institute of Technology Masuda lab.) SHINMURA, Mikako; OZAWA, Tomohiro; MASUDA, Hideki
- 1B2-10\*** Homogeneous catalysis for water splitting reactions using polyoxometalate derivatives (Kyushu Univ.) TANAKA, Saya; SAKAI, Ken
- 1B2-12** Photoinduced Oxygen evolution catalyzed by water soluble cobalt porphyrine complexes (Kyushu Univ.) NAKAZONO, Takashi; KOBAYASHI, Masayuki; SAKAI, Ken
- 1B2-13** Polymorphism and Valence Tautomerism in Tetraoxolene Bridged Cobalt Di-nuclear Complex (IGSES, Kyushu Univ.) TOYODA, Shintaro; KANEGAWA, Shinji; KANG, Soonchul; SATO, Osamu

Chair: SATO, Osamu (11:20 ~ 12:10)

- \* 11:10-11:20: interval for laptop PC connection.(1B2-15, 1B2-16, 1B2-17)
- 1B2-15** Synthesis and characterization of self-assembled metal-complex clathrates with chloranilic acid (Department of Chemistry, Faculty of Science, Fukuoka Univ.) NISHIMURA, Yuji; FUYUHIRO, Akira; HAYAMI, Shinya; KAWATA, Satoshi
- 1B2-16** Synthesis and Characterization of Self-assembled Metal Complexes with  $\text{H}_2\text{tdpd}$  (Department of Chemistry, Faculty of Science, Fukuoka Univ.) ISHII, Mariko; KAWATA, Satoshi; WADA, Honoka; FUYUHIRO, Akira; HAYAMI, Shinya
- 1B2-17** Young Scholar Lectures of CSJ Water Splitting Catalyzed by Metal Complexes (Fac. Sci., Kyushu Univ.) MASAOKA, Shigeyuki

Sunday, March 25, PM

Chair: SHINOZAKI, Kazuteru (14:20 ~ 15:20)

- \* 14:10-14:20: interval for laptop PC connection.(1B2-33, 1B2-36, 1B2-37, 1B2-38)
- 1B2-33** CSJ Award for Young Chemists Design and Synthesis of Porous Metal Complexes Having Highly Selective Molecular Adsorption Ability (JST-ERATO; iCeMS, Kyoto Univ.) MATSUDA, Ryotaro
- 1B2-36** Development of an Immobilized Metal Complex Catalyst having Imidazolylborate Ligand via a Carboxyl (Kanagawa Univ.) TSURUTA, Tomohiro; NAKAZAWA, Jun; HIKICHI, Shiro
- 1B2-37** Catalytic Two-Electron Reduction of Dioxygen with a Cobalt(II) Chlorin (Osaka Univ.; ALCA, JST) MASE, Kentaro; OHKUBO, Kei; FUKUZUMI, Shunichi
- 1B2-38** Photocatalytic Water Oxidation by Nanoparticles Derived from Mononuclear Cobalt Complexes with Organic Ligands (Graduate School of Engineering, Osaka Univ.; ALCA, JST) HONG, Dachao; JUNG, Jieun; PARK, Jiyun; YAMADA, Yusuke; SUENOBU, Tomoyoshi; LEE, Yong-min; NAM, Wonwoo; FUKUZUMI, Shunichi

Chair: HIRAOKA, Shuichi (15:30 ~ 16:30)

- \* 15:20-15:30: interval for laptop PC connection.(1B2-40, 1B2-42, 1B2-43, 1B2-44, 1B2-45)
- 1B2-40\*** Oxygen Reduction Catalyzed by Binuclear Cobalt Complex Bridged by Bis(terpyridyl)anthracene (Rikkyo Univ.) WADA, Tooru; IMAMOTO, Tomoyuki; YUKI, Hirokazu
- 1B2-42\*** Selective Generation of Hydrogen Peroxide in Photocatalytic Reduction of Dioxygen by Water as an Electron Donor with an Organocobalt Complex (Osaka Univ.; ALCA, JST) JUNG, Jieun; KATO, Satoshi; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi
- 1B2-43** Syntheses of tricobalt complexes with acetato and pyrazolato bridges: the electronic and structural differences between the coordination isomers (Kitasato Univ.) YOSHIDA, Jun; KONDOU, Shohei; YUGE, Hidetaka
- 1B2-44** Ship-in-a-Bottle Synthesis of Silsesquioxanes within Crystals of Networked Cages (School of Engineering, The Univ. of Tokyo) KOJIMA, Nodoka; INOKUMA, Yasuhide; FUJITA, Makoto
- 1B2-45\*** Reagent-installed M6L4 Capsule Network: Crystalline-state Thiocarbonylation of Aromatic Amines with installed  $\text{CH}_3\text{NCS}$  (School of Engineering, The Univ. of Tokyo; CREST) NING, Guo-hong; INOKUMA, Yasuhide; FUJITA, Makoto

Chair: MORIMOTO, Tatsuki (16:40 ~ 17:40)

- \* 16:30-16:40: interval for laptop PC connection.(1B2-47, 1B2-49, 1B2-51)
- 1B2-47\*** Dehydration from Co(II) Complexes and Its Solution Chemistry in Ionic Liquid (Seikei Univ.) TONE, Yurina; TAKAO, Koichiro; TSUBOMURA, Taro
- 1B2-49\*** Geometrical Selectivity and Spectroscopic Properties of Cobalt(III) Complexes with Unsymmetrical Tridentate Amineamidate Type Ligands (Okayama Univ.) MITSUHASHI, Ryoji; SUZUKI, Takayoshi; SUNATSUKI, Yukinari; KOJIMA, Masaaki
- 1B2-51\*** Control of catalytic reduction of dioxygen by protonation of a saddle-distorted cobalt phthalocyanine (Osaka Univ.; ALCA, JST) HONDA, Tatsuhiko; KOJIMA, Takahiko; FUKUZUMI, Shunichi

Chair: TAKAO, Koichiro (17:50 ~ 18:50)

- \* 17:40-17:50: interval for laptop PC connection.(1B2-54, 1B2-55, 1B2-56, 1B2-58, 1B2-59)
- 1B2-54\*** A Polyoxometalate-Cyanometalate Multi-Layered Coordination Network (The Univ. of Tokyo) COMPAIN, Jean-daniel; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi
- 1B2-55** Synthesis and Magnetic Properties of Cyano-bridged CoW Bimetal Assemblies with Chiral Ligands (The Univ. of Tokyo) KOMORI-ORISAKU, Keiko; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi
- 1B2-56\*** Study of adsorption behaviors of porous coordination polymer accommodating nanosized  $\text{TiO}_2$  in the channels (Kyoto Univ.) KIM, Cho Rong; UEMURA, Takashi; KITAGAWA, Susumu
- 1B2-58** Evaluations of host-guest interactions between porous metal complex-sand liner polymers by using AFM (Kyoto Univ., Institute for Integrated Cell-Material Sciences, Kyoto Univ) WASHINO, Gosuke; UEMURA, Takashi; KITAGAWA, Susumu; TAKAHASHI, Hirohide; SILBERBERG, Yaron R.; TAKEYASU, Kunio
- 1B2-59** Synthesis of porous coordination polymer with proton conductivity under anhydrous condition (Kyoto Univ. iCeMS) INUKAI, Munehiro; HORIKE, Satoshi; UMEYAMA, Daiki; HIJIKATA, Yuh; KITAGAWA, Susumu

Monday, March 26, AM

Chair: TADOKORO, Makoto (9:00 ~ 10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2B2-01, 2B2-02, 2B2-03, 2B2-04, 2B2-05, 2B2-06)
- 2B2-01** Organic Hydride Donor Ability of Ruthenium Complexes Having NAD-Type Function (IMS) OHTSU, Hideki; TANAKA, Koji
- 2B2-02** Redox control of ruthenium complexes containing  $\text{NAD}^+/\text{NADH}$



framework. (Institute for Molecular Science) KOBAYASHI, Katsuaki; TANAKA, Koji

**2B2-03** Synthesis and Characterization of A Dinuclear Ruthenium Complex Linked with A Pyrophosphate Ligand (Waseda Univ.) MIYAZATO, Yuji; WADA, Tohru; TANAKA, Koji

**2B2-04** Photocatalytic Oxidation of Organic Substrates with Water as an Oxygen Source Using Ru(IV)-Oxo Complexes as Active Species (Grad. School of Pure and Applied Sciences, Univ. of Tsukuba) OHZU, Shingo; ISHIZUKA, Tomoya; HIRAI, Yuichiro; FUKUZUMI, Shunichi; KOJIMA, Takahiko

**2B2-05** Synthesis and Characterization of Ruthenium(II)-Pyridylamine Complexes Bearing a Converged Porphyrin- $\pi$ -dimer (Univ. of Tsukuba) OCHIAI, Hidemi; ISHIZUKA, Tomoya; KOJIMA, Takahiko

**2B2-06** Synthesis and Redox Behavior of a Ruthenium Complex having Pyrroloquinolinequinone (PQQ) as a Ligand (Univ. of Tsukuba) MITOME, Hiroumi; ISHIZUKA, Tomoya; KOJIMA, Takahiko

Chair: ISHIZUKA, Tomoya (10 : 10~11 : 20)

\* 10:00-10:10: interval for laptop PC connection.(2B2-08, 2B2-09, 2B2-10, 2B2-11, 2B2-12, 2B2-13, 2B2-14)

**2B2-08** Synthesis and Properties of Photoredox Catalysis with Amino Groups (Tokyo Institute of Technology; Chemical Resources Laboratory) YAMASHINA, Masahiro; KOIKE, Takashi; AKITA, Munetaka

**2B2-09** Induction of axial chirality in dinuclear diketonato complexes (Toho Univ.; Ochanomizu Univ.; Ehime Univ.) YAMAGISHI, Akihiko; MORI, Yukie; KITAZAWA, Takafumi; SATO, Hisako

**2B2-10** Synthesis and oxidation abilities of new dinuclear ruthenium complexes with octadentate dinucleating ligands (Doshisha Univ.) HAMAO, Koshi; Irie, Hiroaki; HITOMI, Yutaka; KODERA, Masahito

**2B2-11** An Ionicity Diagram for the Family of  $\{[Ru_2(CF_3CO_2)_4]_2(TCNQR_x)\}$  (Univ. of Kanazawa; school of chemistry) NAKABAYASHI, Keita; NISHIO, Masaki; KUBO, Keiko; KOUSSAKA, Wataru; HAYASHI, Yoshihito; MIYASAKA, Hitoshi

**2B2-12** Magnetic properties of charge-transferred 2-D network compounds composed of  $[Ru_2(x-FPhCOO)_4]$  and  $TCNQ(OMe)_2$ . (Kanazawa Univ.) YOSHINO, Takafumi; KOSAKA, Wataru; HAYASHI, Yoshihito; MIYASAKA, Hitoshi

**2B2-13** Magnetic properties of an ionic 1-D chain compound with paddlewheel diruthenium complex and TCNQ derivative (Natural Science and Technology; Kanazawa Univ.) NISHIO, Masaki; KOSAKA, Wataru; HAYASHI, Yoshihito; MIYASAKA, Hitoshi

**2B2-14** Magnetic properties of a charge-transferred 2-D assembly  $\{[Ru_2(m-CIPhCO_2)_4]_2TCNQ(OMe)_2\}$  and their crystallization solvent dependency (Dept. of Chemistry, Tohoku Univ.; Dept. of Chemistry, Kanazawa Univ.) ITOH, Masahisa; YAMASHITA, Masahiro; KOSAKA, Wataru; HAYASHI, Yoshihito; MIYASAKA, Hitoshi

Chair: MIYASAKA, Hitoshi (11 : 30~12 : 00)

\* 11:20-11:30: interval for laptop PC connection.(2B2-16)

**2B2-16** CSJ Award for Young Chemists Creation of Charge Dynamics and Their Visualization in Quasi-One-Dimensional Halogen-Bridged Metal Complexes with Charge Bistability (Grad. Sch. Sci., Tohoku Univ.) TAKAISHI, Shinya

## Monday, March 26, PM

Chair: NAGASAWA, Akira (13 : 10~14 : 00)

\* 13:00-13:10: interval for laptop PC connection.(2B2-26, 2B2-29)

**2B2-26** Young Scholar Lectures of CSJ Dynamic crystalline chemistry of porous coordination solids for development of environmental/energy materials (Grad. Sch. Eng., Kyoto Univ.; JST PRESTO) HORIKE, Satoshi

**2B2-29\*** Syntheses and Intramolecular Interactions of Redox-active Loop-like Clusters (Kyushu Univ.) INATOMI, Atsushi; ABE, Masaaki; SHIMAKOSHI, Hisashi; OHTSU, Hiroyoshi; YAMAGUCHI, Tadashi; HISAEDA, Yoshio

Chair: ABE, Masaaki (14 : 10~15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(2B2-32, 2B2-34, 2B2-36)

**2B2-32\*** Synthesis and Properties of the Oxido-dicarboxylato Bridging Diruthenium(III) Complexes with Ambidentate Ligands (Dept. Chem., Saitama Univ.; CACS, Saitama Univ.) IDO, Yohei; NAGASAWA, Akira; FUJIHARA, Takashi

**2B2-34\*** Alkyne Photoaddition of Dinuclear Ruthenium-Carbonyl Complexes Protected by a Hollow Cage (Grad. School of Engineering, The Univ. of Tokyo; CREST) HORIUCHI, Shinnosuke; MURASE, Takashi; FUJITA, Makoto

**2B2-36\*** Substantial Improvement of Photocatalytic Abilities for CO<sub>2</sub> Reduction using Supramolecular Complexes (Tokyo Tech.) TAMAKI, Yusuke; KOIKE, Kazuhide; ISHITANI, Osamu

Chair: KOIKE, Kazuhide (15 : 20~16 : 10)

\* 15:10-15:20: interval for laptop PC connection.(2B2-39, 2B2-41, 2B2-42, 2B2-43)

**2B2-39\*** Electrochemical CO<sub>2</sub> Reduction Catalyzed by Ruthenium-Bipyridyl Complexes Bearing Amide Groups at 5,5'-Positions (Kitasato Univ.;

PRESTO JST) KURAMOCHI, Yusuke; ISHIDA, Hitoshi

**2B2-41** Synthesis of Metal Complexes with Chiral sp<sup>2</sup>-N Bidentate Ligand Naph-diPIM (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) MIYATA, Kengo; NITA, Yukari; TANAKA, Shinji; KITAMURA, Masato

**2B2-42** Photoinduced Electron Transfer Events in Tris(2,2'-bipyridine)ruthenium(II) Derivatives Covalently Linked to Multi-viologen Pendants (Kyushu Univ.) KITAMOTO, Kyoji; SAKAI, Ken

**2B2-43** Redox Behavior of Ferrocene-Appended Cluster Complex Depending on the Supporting Electrolyte Anions (Kyushu Univ.) IKEYAMA, Atsushi; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

Chair: FUJIHARA, Takashi (16 : 20~17 : 30)

\* 16:10-16:20: interval for laptop PC connection.(2B2-45, 2B2-46, 2B2-47, 2B2-48, 2B2-49, 2B2-50, 2B2-51)

**2B2-45** Synthesis and properties of ionic liquids containing ruthenium-complexes with chelate ligands (Kobe Univ.) MORI, Shotaro; MOCHIDA, Tomoyuki

**2B2-46** Construction of novel reaction space by accumulation of metal complexes into liposome space (Kyushu Univ.) KOSHIYAMA, Tomomi; KAJITANI, Kazuki; OKAMURA, Tomoya; HATAE, Tatsuru; IBA, Soichi; YOSHIDA, Masaki; MASAOKA, Shigeyuki; OHBA, Masaaki

**2B2-47** Multi-electron Transfer Reaction Catalyzed by Metal Complexes bearing Proton Responsive Organic Ligands (IMS; SOKENDAI; Kyushu Univ.; JST PRESTO) OKAMURA, Masaya; YOSHIDA, Masaki; MASAOKA, Shigeyuki

**2B2-48** Axial Ligand Exchange Reactions of Ruthenium(II,III) Formamidinate Cationic Dimers (Shimane Univ.; Univ. Toyama; Kwansei Gakuin Univ.) ITO, Yuma; NAKANO, Yuji; KIMURA, Yoko; IKEUE, Takahisa; YOSHIOKA, Daisuke; MIKURIYA, Masahiro; HANDA, Makoto

**2B2-49** Reduction Reactions of the Mixed-Valence Dinuclear Ruthenium Complex, Triply Bridged by Chlorido Ligands, Bearing Ethylbis(2-pyridylmethyl)amine and Reactions of the Isovalent Complex (Faculty Sci. Technol., Sophia Univ.) SUZUKI, Tomoyo; KAJIHARA, Akari; MATSUYA, Kazuhiro; FUKUI, Sohei; NAGAO, Hirotsuka

**2B2-50** Ruthenium/Hemicryptophane-Catalyzed Selective Oxidation of Alcohols (Department of Engineering, Osaka Prefecture Univ.) FUJITA, Tomoyuki; MAKITA, Yoshimasa; FUJIWARA, Shin-ichi; OGAWA, Akiya

**2B2-51** Acceleration Effect of Lewis Acids on Selective Generation of Hydrogen Peroxide in the Photocatalytic Reduction of Dioxxygen by Water as an Electron Donor (Osaka Univ.; ALCA, JST) KATO, Satoshi; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi

## Wednesday, March 28, AM

Chair: TAKEDA, Nobuhiro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4B2-01, 4B2-03, 4B2-04, 4B2-05, 4B2-06)

**4B2-01\*** Control of Spatial Arrangement of Rh<sup>III</sup><sub>4</sub>Zn<sup>II</sup><sub>4</sub> Octanuclear Clusters with L-Cysteinate (Osaka Univ.) YOSHINARI, Nobuto; YAMASHITA, Ukyo; KONNO, Takumi

**4B2-03** Lantern-type Dinuclear Rhodium(II) Complexes with Diphenylformamidinato and Carboxylato Bridging Ligands (Shimane Univ.; Univ. Toyama; Kwansei Gakuin Univ.) MORIYAMA, Kazutaka; INOUE, Asami; IKEUE, Takahisa; SUGIMORI, Tamotsu; YOSHIOKA, Daisuke; MIKURIYA, Masahiro; HANDA, Makoto

**4B2-04** Syntheses and Structures of Nitrosylruthenium Complexes Containing 2,6-Pyridinedicarboxylic acid (Faculty Sci. Technol., Sophia Univ.) OTSUKA, Midori; ISOGAI, Hiroki; FUKUI, Sohei; NAGAO, Hirotsuka

**4B2-05** Oxidation Reactions of Trichloridoruthenium Complexes Having Ethylbis(2-pyridylmethyl)amine and Formation of Bis(2-pyridylcarbonyl)amidatoruthenium Complex (Faculty Sci. Technol., Sophia Univ.) YONEZAWA, Haruka; FUKUI, Sohei; NAGAO, Hirotsuka

**4B2-06** Synthesis of novel Ru complexes with 2,6-bis(benzimidazolyl)pyridine ligands toward redox-active MOF devices (Institute of Science and Engineering, Chuo Univ.) SHINOMIYA, Takuya; HAGA, Masa-aki

Chair: YOSHINARI, Nobuto (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4B2-08, 4B2-09, 4B2-10, 4B2-11, 4B2-12)

**4B2-08** Dynamic Structure Changes of Cubane-type RuIr<sub>3</sub>S<sub>4</sub> Clusters (Inst. of Industrial Science, The Univ. of Tokyo) SEINO, Hidetake; MORI, Hiroyuki; HIRATA, Keiichi; MIZOBE, Yasushi; YOSHIE, Naoko

**4B2-09** Synthesis and Reactivities of Ruthenium Complexes with PS3-type Tripodal Tetradentate Ligand (Gunma Univ.) UEKUSA, Natsuko; TAKEDA, Nobuhiro; UNNO, Masafumi

**4B2-10** Synthesis and Reactivity of ( $\mu$ -Disulfide)diruthenium(III) Complexes (Graduate School of Engineering, Osaka Univ.) MIKAMI, Akine; SUGIMOTO, Hideki; ITOH, Shinobu

**4B2-11** Synthesis and properties of dinitrogen-bridged dimers of oxoacetato-triruthenium complexes (Adv. Sci. and Eng., Waseda Univ.) IWASAKI, Genki; YAMAGUCHI, Tadashi

**4B2-12\*** Microwave synthesis of high quality phosphorescent complexes and precise analysis with LC-TOFMASS (Minerva Light Laboratory L.L.C.) MATSUMURA, Takeko; MASUDA, Yoshitaka; NAKAJIMA, Riichiro;

YAMASHITA, Ayako; SIMIZU, Naoto

Chair: HASEGAWA, Yasuchika (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4B2-15, 4B2-16, 4B2-17, 4B2-18, 4B2-19, 4B2-20)
- 4B2-15** 1,4-Selective Hydrogenation of NAD<sup>+</sup> by Aliphatic Alcohols to Produce NADH Catalyzed by an Organoiridium Complex in Water at Room Temperature (Osaka Univ.; ALCA, JST) MAENAKA, Yuta; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi
- 4B2-16** Conversion from [C.N] to [C.C] Cyclometalated Organoiridium Complex under Photoirradiation and Catalytic Hydrogen Evolution from Aliphatic Alcohols (Osaka Univ.; ALCA, JST) MAENAKA, Yuta; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi
- 4B2-17** Separation and Photoisomerization of Diastereomeric Triscyclometalated Iridium (III) Complex That has Chiral Pinene as a Ligand (Chiba Univ.) IKEDA, Ayumi; YAGAI, Shiki; KITAMURA, Akihide; KARATSU, Takashi
- 4B2-18** Photophysics and Device Fabrication Using Hydrogen-Bonded Supramolecular Polymers of Melamine-Linked Iridium(III) Complex (Chiba Univ.) KOBAYASHI, Yuki; YAGAI, Shiki; KITAMURA, Akihide; KARATSU, Takashi
- 4B2-19** Synthesis and photoluminescent property of lanthanide complexes bearing ruthenium porphyrins as an antenna unit (Kyushu Univ.) MITSUIKI, Kenta; OKAWARA, Toru; ABE, Masaaki; JIANG, Feng; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 4B2-20** Luminescence Behavior of Lanthanide Complex with the Perylenebisimide Ligand (College of Science and Engineering, Aoyama Gakuin Univ.) OSHIKAWA, Koji; TAKAHASHI, Isao; HASEGAWA, Miki

### Wednesday, March 28, PM

Chair: HAYAMI, Shinya (13 : 20~14 : 10)

- \* 13:10-13:20: interval for laptop PC connection.(4B2-27, 4B2-28, 4B2-29, 4B2-30, 4B2-31)
- 4B2-27** Syntheses, structures, and SMM behaviors of linear Zn(II)-Ln(III)-Zn (II) complexes (Nara Women's Univ. ; Osaka Univ. ;IMR, Tohoku Univ.) MAEDA, Moe; HINO, Shiori; YAMASHITA, Kei; KATAOKA, Yumiko; KAJIWARA, Takashi; NAKANO, Motohiro; YAMAMURA, Tomoo
- 4B2-28** Magnetic anisotropy and slow magnetic relaxations of linear YbZn<sub>2</sub> and wheel shaped YbZn<sub>3</sub> multinuclear complexes (Nara Women's Univ.; Univ. of Tsukuba; Osaka Univ.; IMR, Tohoku Univ.) HINO, Shiori; MAEDA, Moe; YAMASHITA, Aika; KATAOKA, Yumiko; KAJIWARA, Takashi; AKINE, Shigehisa; NABESHIMA, Tatsuya; NAKANO, Motohiro; YAMAMURA, Tomoo
- 4B2-29** Tuning of Lewis Acidity of Cage-shaped Borate Ester Complexes by Through-Space Interaction (Osaka Univ.) NAKAJIMA, Hideto; NAKAOKA, Koichi; YASUDA, Makoto; BABA, Akio
- 4B2-30** Proton Conductivity and Acidity Estimation of Al(OH)(bdc) Type Coordination Polymers (bdc = 1,4-benzenedicarboxylate) (Grad. Sch. Sci., Kyoto Univ. ; JST-CREST) SHIRAI, Yuki; YAMADA, Teppei; KITAGAWA, Hiroshi
- 4B2-31** Proton Conductivity and Ion Exchange Capacity of MIL53(Al) PO<sub>3</sub>H<sub>2</sub> (Kyoto Univ.) YAMADA, Teppei; KITAGAWA, Hiroshi

Chair: MAEDA, Chihiro (14 : 20~15 : 10)

- \* 14:10-14:20: interval for laptop PC connection.(4B2-33, 4B2-34, 4B2-35, 4B2-36, 4B2-37)
- 4B2-33** Structural and Magnetic Properties of Heterodinuclear Complexes Composed of Metal Hexacyanides and a Mn(III)-salen Type Complex (Tohoku Univ.) ISHIKAWA, Ryuta; KATO, Keiichi; YAMASHITA, Masahiro
- 4B2-34<sup>#</sup>** The role of canted angle in the canted antiferromagnetic single-chain magnets (Tohoku Univ.) ZHANG, Weixiong; SHIGA, Takuya; MIYASAKA, Hitoshi; YAMASHITA, Masahiro
- 4B2-35** Synthesis of ionic liquid using tetradentate Schiff base complexes (Univ. of kobe) OKUHATA, Megumi; MOCHIDA, Tomoyuki
- 4B2-36** Synthesis and Properties of the Mixed Capped Hexatechnetium(III) and Hexarhenium(III) Cluster Complexes with Isothiocyanate (Grad. School Sci., Osaka Univ.) OMOTE, Toshiki; YOSHIMURA, Takashi; TAKAYAMA, Tsutomu; SEKINE, Tsutomu; SHINOHARA, Atsushi
- 4B2-37** Preparation and Magnetic Properties of Mew Metal-Assembled Compounds, M<sup>III</sup>Cr<sup>III</sup>(ox)<sub>2</sub>·CH<sub>3</sub>CN·xNH<sub>3</sub>·yH<sub>2</sub>O (M = Fe, Ru) (M = Fe, Ru) (Kyoto Univ.; Kyushu Univ.) OKAWA, Hisashi; SADAKIYO, Masaaki; YAMADA, Teppei; OHBA, Masaaki; KITAGAWA, Hiroshi

Chair: YAMADA, Teppei (15 : 20~16 : 00)

- \* 15:10-15:20: interval for laptop PC connection.(4B2-39, 4B2-40, 4B2-41, 4B2-42)
- 4B2-39** Electronic State of Nitridocromium(V) and Oxovanadium(IV) Complexes with Schiff Base Ligands Exhibiting Self-Axial Coordination (Faculty of science and technology, Keio Univ.) YOSHIOKA, Naoki; MATSUOKA, Naoki; WATANABE, Yuki; ISHIDA, Kirie; YAMADA, Masashi; MAEDA, Chihiro
- 4B2-40** Reaction of Tungsten and Molybdenum Complexes with SH<sup>-</sup> and SeH<sup>-</sup> (Graduate School of Engineering, Osaka Univ.) HATAKEDA, Kohei;

SUGIMOTO, Hideki; ITOH, Shinobu

- 4B2-41** Synthesis and functions of the bridged dithiolene metal complexes. (Osaka Univ.) HIGUCHI, Ryoji; SUGIMOTO, Hideki; ITOH, Shinobu
- 4B2-42** Construction of a charge-transfer type ternary crystalline material composed of cyclotrimeratrylene, polyoxometalate, and quinone (Grad. School of Science, The Univ. of Tokyo) TASHIRO, Shohei; HASHIDA, Shizuka; SHIONOYA, Mitsuhiko

Chair: TASHIRO, Shohei (16 : 10~17 : 00)

- \* 16:00-16:10: interval for laptop PC connection.(4B2-44, 4B2-45, 4B2-46, 4B2-47, 4B2-48)
- 4B2-44** Synthesis of Hydrazidovanadium Complexes Bearing Multidentate Phenol Ligands (Osaka Univ.) MORIUCHI, Toshiyuki; IKEUCHI, Kousuke; HIRAO, Toshikazu
- 4B2-45** One-step Synthesis of Imidovanadium(V) Complexes from Amines (Osaka Univ.) NISHINA, Masafumi; MORIUCHI, Toshiyuki; HIRAO, Toshikazu
- 4B2-46** Phosphate-Phosphate Bond Formation Induced by Vanadium Complex (Univ. of Toyama) SATO, Kyouhei; TSUGE, Kiyoshi; KANAMORI, Kan
- 4B2-47** Synthesis and Characterization of V-Li Complexes with Thiodianiline Derivatives (Nagoya Institute of Technology) KAJITA, Yuji; MASUDA, Hideki
- 4B2-48** Synthesis of a [VFe<sub>3</sub>S<sub>4</sub>-Fe] cluster from V(III) thiolate complexes having a phenoxido-based tridentate(O,E,O) (E=O,P) ligand. (Graduate School of Science, and Research Center for Materials Science, Nagoya Univ.) TANIYAMA, Nobuhiro; OHKI, Yasuhiro; TATSUMI, Kazuyuki

## Room C4

### 4th Bldg. Independence Wing D101

### Energy and Related Chemistry

Sunday, March 25, AM

#### Solar Cell

Chair: YASUDA, Yuzuri (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(1C4-01, 1C4-02, 1C4-03, 1C4-04, 1C4-05)
- 1C4-01** Studies on the improvement for the conversion efficiency of plastic-substrate dye-sensitized solar cells. (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) KUDO, Tomohiro; OZAWA, Hironobu; ARAKAWA, Hironori
- 1C4-02** Studies on the performance of dye-sensitized solar cells with ionic liquid gel electrolyte (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) YAMASHITA, Satoshi; OZAWA, Hironobu; ARAKAWA, Hironori
- 1C4-03** Significant improvement of the conversion efficiency of black-dye-based dye-sensitized Solar Cells by cosensitization with organic dye (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) SHIMIZU, Ryosuke; OZAWA, Hironobu; ARAKAWA, Hironori
- 1C4-04** Study on use of short-wavelength light in cylinder shaped dye-sensitized solar cells (Kyushu Institute of Technology) USAGAWA, Jun; NOGUCHI, Sho; OGOMI, Yuhei; PANDEY, Syam Sdir; HAYASE, Shuzi
- 1C4-05<sup>#</sup>** Influence of Nature of Anchoring Group in Photo-sensitization Behavior of Unsymmetrical Squaraine Dyes (Kyushu Institute of Technology) SHIVASHIMPI, Gururaj M.; PANDEY, Shyam S.; WATANABE, Rie; OGOMI, Yuhei; HAYASE, Shuzi

Chair: FUNABIKI, Kazumasa (10 : 00~10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(1C4-07, 1C4-08, 1C4-09, 1C4-10, 1C4-11)
- 1C4-07** Synthesis and characterization of a novel ruthenium sensitizer having multiple functionalized groups (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) YAMAMOTO, Yasuyuki; OZAWA, Hironobu; ARAKAWA, Hironori
- 1C4-08** Synthesis and characterization of a novel cobalt complex as a redox shuttle of dye-sensitized solar cells (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) TAMURA, Masato; OZAWA, Hironobu; ARAKAWA, Hironori
- 1C4-09** Development of cobalt complex-based electrolytes for dye-sensitized solar cell (Faculty of Textile Science and Technology, Shinshu Univ.) YOSHII, Nobuhiro; OBUCHI, Kazumichi; UCHIYAMA, Takayuki; MASAKI, Naruhiko; MORI, Syougo; KIMURA, Mutumi
- 1C4-10** Dye-sensitized solar cells using novel Ruthenium complexes with various light-harvesting units (Faculty of Textile Science and Technology, Shinshu Univ.) MASUO, Junya; OBUCHI, Kazumichi; MASAKI, Naruhiko; MORI, Shogo; KIMURA, Mutsumi
- 1C4-11** Cocktail type Dye-sensitized solar cell using zinc phthalocyanine

complexes having bulky substituents (Faculty of Textile Science and Technology, Shinshu Univ.) NOMOTO, Hirotaka; SUZUKI, Hiroyuki; MORI, Syogo; KIMURA, Muthumi; ITAMI, Akihiko; MIWA, Hideya

Chair: OOOYAMA, Yousuke (11 : 00~11 : 50)

\* 10:50-11:00: interval for laptop PC connection.(1C4-13, 1C4-14, 1C4-16, 1C4-17)

**1C4-13** Dye-sensitized Solar Cells Using Selective Near-IR Absorbing Organic Dyes (Gifu Univ.) FUNABIKI, Kazumasa; HIBINO, Atsuhiko; SAITO, Yasuteru; KATO, Kazuyuki; KUBOTA, Yasuhiro; MATSUI, Masaki

**1C4-14\*** Development of Panchromatic Dye-Sensitized Solar Cells based on Spin-Management of Ruthenium Sensitizer (RCAST, Univ. of Tokyo) KINOSHITA, Takumi; DY, Joanne Ting; FUJISAWA, Jun-ichi; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

**1C4-16** Improvement of Open-circuit voltage of Panchromatic Dye-Sensitized Solar Cells using novel Terpyridyl Ru(II) Sensitizers (RCAST, Univ. of Tokyo) ONO, Takaoki; KINOSHITA, Takumi; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

**1C4-17** Development of Efficient Tandem-type Dye-Sensitized Solar Cells Device using Panchromatic Sensitizer (RCAST, The Univ. of Tokyo) KIM, Jaehoon; KINOSHITA, Takumi; NAKAZAKI, Jotaro; FUJISAWA, Jun-ichi; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

### Sunday, March 25, PM

Chair: MAITANI, Masato (13 : 00~13 : 50)

\* 12:50-13:00: interval for laptop PC connection.(1C4-25, 1C4-26, 1C4-28)

**1C4-25** Investigation of Central Metal and Electrolyte toward Efficient Porphyrin-sensitized Solar Cells (The Univ. of Tokyo) AWAI, Fumiyasu; ARAI, Yonbon; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

**1C4-26\*** Improvement in the Photovoltage of Dye-sensitized Solar Cells by using Mg-doped Titanium Dioxide and Bromine Redox Mediator (Gunma Univ.) KAKIAGE, Kenji; TOKUTOME, Toru; IWAMOTO, Shinji; KYOMEN, Toru; HANAYA, Minoru

**1C4-28\*** Improved high efficiency and stability of ZnO solar cells employing double anchor dyes (Gifu Univ., Chemicea Co. Ltd.) YASUDA, Yuzuri; BABA, Hiroto; GOTO, Koji; HIGASHIJIMA, Shinji; MIURA, Hidetoshi; MATSUI, Masaki; YOSHIDA, Tsukasa

Chair: OZAWA, Hironobu (14 : 00~14 : 50)

\* 13:50-14:00: interval for laptop PC connection.(1C4-31, 1C4-33, 1C4-34)

**1C4-31\*** Dye-Sensitized Solar Cells Based on New-type D-pi-A Fluorescent Dyes with Pyridine Ring as Electron-Withdrawing-Injecting Anchoring Group (Hiroshima Univ.) OOOYAMA, Yousuke; NAGANO, Tomoya; INOUE, Shogo; OHSHITA, Joji; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka

**1C4-33** Dye-sensitized solar cells with dibenzosilole derivatives (Graduate School of Science, Tohoku Univ.) SEYA, Yohei; UZZAMAN, Md. Akhtar; ISLAM, Ashraf; ASAO, Naoki; HAN, Liyuan; YAMAMOTO, Yoshinori

**1C4-34\*** Development of Thin-Film Photovoltaic Cells with Organic-Inorganic Hybrid Structures, Anthraquinone-based Structures (Graduate School of Engineering, Toin Univ. of Yokohama) ISHII, Ayumi; MIYASAKA, Tsutomu

Chair: FUJISAWA, Jun-Ichi (16 : 50~17 : 40)

\* 16:40-16:50: interval for laptop PC connection.(1C4-48, 1C4-49, 1C4-50, 1C4-51, 1C4-52)

**1C4-48** Fabrication and Evaluation of Dye-Sensitized Solar Cell based on Ti mesh (Kanagawa Academy of Science and Technology) KANEI, Naomichi; NAKATA, Kazuya; SAKAI, Munetoshi; OCHIAI, Tsuyoshi; MURAKAMI, Taketoshi; TAKAGI, Katsuhiko; KONDO, Takeshi; YUASA, Makoto; FUJISHIMA, Akira

**1C4-49** Fabrication of Dye-Sensitized Solar Cell Based on Titania Monoliths (Kanagawa Academy of Science and Technology) MATSUBARA, Tomohiro; NAKATA, Kazuya; SHAKAI, Munetoshi; TAKEI, Hiroko; OCHIAI, Tsuyoshi; SAKAI, Hideki; MURAKAMI, Taketoshi; ABE, Masahiko; TAKAGI, Katsuhiko; FUJISHIMA, Akira

**1C4-50** Enhancement of Conversion Efficiency of Dye-sensitized Solar Cells by Engineering TiO<sub>2</sub>-Dye Interface. (Grad. School of Sci. and Eng.; Tokyo Inst. Tech.) MAITANI, Masato; TANAKA, Keita; MOCHIZUKI, Dai; OGOMI, Yuhei; HAYASE, Shuji; SUGIYAMA, Sakae; FUSE, Shinichiro; TAKAHASHI, Takashi; WADA, Yuji

**1C4-51** Effect of dominating facet of anatase TiO<sub>2</sub> nano particles on charge transfer process of dye-sensitized solar cells (School of Engineering Tokyo Institute of Technology) TAKAMURA, Toru; MAITANI, Masato; MOCHIZUKI, Dai; WADA, Yuji

**1C4-52** Effect of Dye Adsorption on Anatase Titanium Oxide Surface on Photoelectric Conversion of Dye-Sensitized Solar Cells (Tokyo Ins. Tech; Dep. of Apply.Chem) NOGAMI, Kengo; MAITANI, Masato; MOCHIZUKI, Dai; OGOMI, Yuhei; HAYASE, Shuji; SUGIYAMA, Sakae; FUSE, Shinichiro; TAKAHASHI, Takashi; WADA, Yuji

Chair: OHBA, Yasunori (17 : 50~18 : 40)

\* 17:40-17:50: interval for laptop PC connection.(1C4-54, 1C4-55, 1C4-57)

**1C4-54\*** Investigating the dye adsorption behavior using sensitizing dyes as probed by quartz crystal micro balance with dissipation studies. (Kyushu Inst. Tech.) PANDEY, Shyam, S; HIROTA, Ryouhei; OGOMI, Yuhei; HAYASE, Shuzi

**1C4-55\*** Study of dye adsorption to dye-sensitized solar cells by raman spectroscopy (Sony corp.) NAGAI, Sae

**1C4-57\*** Dye Aggregations on TiO<sub>2</sub> Photoanodes Evaluated by Spin-probe ESR Technique and their Correlation with Photovoltaic Performance (Hiroshima Univ.) KOMAGUCHI, Kenji; KUSHIMOTO, Kohei; INOUE, Shogo; KANO, Yuta; KINOSHITA, Yusuke; OOOYAMA, Yousuke; IMAE, Ichiro; HARIMA, Yutaka

### Monday, March 26, AM

#### Solar Cell

Chair: NAKAZAKI, Jotaro (9 : 00 ~9 : 50)

\* 8:50-9:00: interval for laptop PC connection.(2C4-01, 2C4-02, 2C4-03, 2C4-04)

**2C4-01** The Design and Synthesis of Branched Organic Dyes Based on Squarylium Dye and Their Application to Dye-Sensitized Solar Cells (Osaka Pref. Univ.) MIYANAGA, Kyohai; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

**2C4-02** Design and Synthesis of tripodal organic dyes based on squaraines and their application to dye-sensitized solar cells (Osaka Pref. Univ.) MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

**2C4-03** Dye-Sensitized Solar Cell with Multilayer Film of Zwitterion Type Porphyrin Zinc Complex. (Kochi Univ. of Technology, Depart. of Technology) MATSUURA, Ryo; SUMI, Katsuhiro

**2C4-04\*** New Method of Immobilization of Dye with Vinyl Groups on Titanium Dioxide by Electrochemically Initiated Polymerization. (Kochi Univ. of Technology, Depart. of Technology) SUMI, Katsuhiro; TAMURA, Masahiro; LIU, Yi; HIROTA, Atsushi; YAMASAKI, Mitsuo

Chair: BENTEN, Hiroaki (10 : 00~10 : 50)

\* 9:50-10:00: interval for laptop PC connection.(2C4-07, 2C4-08, 2C4-09, 2C4-10)

**2C4-07** Dye-sensitized Solar Cells using Phosphorus(V)porphyrins with N,N-Dialkylaminophenyl Groups (RCAST - Univ. of Tokyo) NAKAZAKI, Jotaro; YANAGISAWA, Yuka; FUJINUMA, Naohiro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

**2C4-08** Fabrication and Characterization of Au Cluster-Sensitized Solar Cells (Tokyo Univ. of Science; KAST) SUGAWARA, Sho; NAKATA, Kazuya; NEGISHI, Yuichi; KURASHIGE, Wataru; SAKAI, Munetoshi; OCHIAI, Tsuyoshi; MURAKAMI, Taketoshi; TAKAGI, Katsuhiko; KONDOU, Takeshi; YUASA, Makoto; FUJISHIMA, Akira

**2C4-09\*** Plasmon-enhanced photocurrent generation using gold nanoparticles loaded titanium dioxide single crystal (RIES-Hokkaido Univ.) SHI, Xu; UENO, Kosei; MISAWA, Hiroaki

**2C4-10\*** Photo-excited carrier dynamics and photovoltaic properties of TiO<sub>2</sub> electrodes adsorbed with PbS quantum dot (Univ. of Electro-Communications, PRESTO JST) HACHIYA, Sojiro; SHEN, Qing; KATAYAMA, Kenji; TOYODA, Taro

Chair: ISHII, Ayumi (11 : 00~12 : 00)

\* 10:50-11:00: interval for laptop PC connection.(2C4-13, 2C4-14, 2C4-15, 2C4-17)

**2C4-13** Modification of polymer surface by solution-processable graphene and morphological control of  $\pi$ -conjugated molecules for solution-processable organic photovoltaic devices (The Univ. of Tokyo) OKADA, Satoshi; TANAKA, Hideyuki; HARANO, Koji; NAKAMURA, Eiichi

**2C4-14** Isolation of Oxidation Products of Fullerene Derivatives and Effect on Organic Thin-film Photovoltaic Cells (Dept. of Chem., Univ. of Tokyo) OZU, Ayako; NAKAMURA, Eiichi; MATSUI, Yutaka

**2C4-15\*** Efficiency Improvement of Organic Bulk Heterojunction Solar Cells by Conjugated Polymer Additives (Massachusetts Institute of Technology) LOBEZ, Jose; SWAGER, Timothy

**2C4-17\*** Blend Morphology and Interfacial Charge Separation of Donor/Acceptor Polymer Blend Solar Cells (Kyoto Univ.; JST PRESTO; Sumitomo Chemical Co.Ltd.) BENTEN, Hiroaki; MORI, Daisuke; OHKITA, Hideo; ITO, Shinzaburo; MIYAKE, Kunihito

## Room D1

4th Bldg. Independence Wing D301

Environmental and Green Chemistry, Geo  
and Space Chemistry

Sunday, March 25, AM

Chair: NAKASHIMA, Yoshihiro (10:00~11:00)

- \* 9:50-10:00: interval for laptop PC connection.(1D1-07, 1D1-08, 1D1-09, 1D1-11)
- 1D1-07** Characteristics and source apportionment of trace metals in the aerosols at Fukue Island and Fukuoka City (Tokyo Univ. of Agriculture and Technology) SUZUKI, Ryota; YOSHINO, Ayako; SHIMADA, Kojiro; KANEYASU, Naoki; TAKAMI, Akinori; HATAKEYAMA, Shiro
- 1D1-08** Observation of forest filter effect for aerosol particles based on individual-particle measurements at different heights in a small forest located in the western part of Greater Tokyo. (School of Creative Science and Engineering, Waseda Univ.) OGATA, Hiroko; OKOCHI, Hiroshi
- 1D1-09\*** Measurement of overall uptake coefficients for HO<sub>2</sub> radicals by aerosol particles sampled from the ambient air (JAMSTEC) TAKETANI, Fumikazu; KANAKA, Yugo
- 1D1-11\*** Light-absorption properties of secondary organic aerosols and its relation with chemical properties (Nagoya Univ.; NIES) NAKAYAMAA, Tomoki; MATSUMI, Yutaka; SATO, Kei; IMAMURA, Takashi

Chair: OGATA, Hiroko (11:10~12:10)

- \* 11:00-11:10: interval for laptop PC connection.(1D1-14, 1D1-16, 1D1-17, 1D1-18)
- 1D1-14\*** Study of the nature and roles of tropospheric peroxy radicals towards the understanding of oxidant formation (Faculty of Urban Environmental Sciences, Tokyo Metro. Univ.) MIYAZAKI, Koji; NAKASHIMA, Yoshihiro; FITTSCHEN, Christa; KAJII, Yoshizumi
- 1D1-16** Impact of newly-proposed gas-phase reactions of isoprene on HO<sub>x</sub> radical concentrations in the troposphere (JAMSTEC) KANAYA, Yugo
- 1D1-17** Nitrogenated Organic Compounds Present in Secondary Organic Aerosol from the Photooxidation of Aromatic Hydrocarbons (NIES; NMCC; Shoreline Science, Inc.) SATO, Kei; TAKAMI, Akinori; KATO, Yoshiyasu; SETA, Takamasa; HIKIDA, Toshihide; SHIMONO, Akio; IMAMURA, Takashi
- 1D1-18\*** Development of Quantitative Analysis Method for p-Nitrophenol in Diesel Exhaust Emission (National Traffic Safety and Environment Laboratory) KOSHIKA, Kenichiro; HORI, Shigeo

Sunday, March 25, PM

Chair: SAKAMOTO, Tetsuo (13:20~14:20)

- \* 13:10-13:20: interval for laptop PC connection.(1D1-27, 1D1-29, 1D1-31, 1D1-32)
- 1D1-27\*** Alteration of simulated interstellar organic compounds by irradiation with soft X-rays and ultraviolet light (Yokohama National Univ., Univ. Hyogo, Fukuoka Inst. Tech., Osaka Univ., NTT) KOBAYASHI, Kensei; KAWAMOTO, Yukinori; OKABE, Takuto; ETO, Midori; KANEKO, Takeo; OBAYASHI, Yumiko; KANDA, Kazuhiro; MITA, Hajime; YABUTA, Hikaru; TAKAHASHI, Jun-ichi
- 1D1-29\*** The first experimental demonstration of Benzoporphyrin formation from Bacteriochlorophylls (Univ. of Tsukuba) ASAHINA, Kenta; SAITO, Naoki; NOMOTO, Shinya
- 1D1-31** Studies on diagenesis of sedimentary maleimides of chlorophyll origin (Univ. of Tsukuba) ARAKI, Suzuko; NOMOTO, Shinya
- 1D1-32** Study of highly sensitive amino acids analysis in meteorite (Fukuoka Inst. Technol.) MITA, Hajime

Chair: TAKENAKA, Norimichi (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(1D1-34, 1D1-35, 1D1-36, 1D1-37, 1D1-38)
- 1D1-34** Optimization of the high repetition rate UV laser focusing at the Laser-SNMS Analysis (Kogakuin Univ.) OHISHI, Kenji; MAYAMA, Norihito; SAKAMOTO, Tetsuo; FUJII, Masaaki
- 1D1-35** Chemical consideration on lead compounds in atmospheric particles (Osaka City Inst. Publ. Heal. & Environ Sci; Mie Univ.) FUNASAKA, Kunihiko; KANEKO, Satoshi
- 1D1-36** Seeking of Black Carbon in Aerosol Particles by High Resolution-TOF-SIMS (Kogakuin University, Faculty of Engineering) MAYAMA, Norihito; MIURA, Yusuke; KITATSUGU, Kana; OISHI, Kenji; SAKAMOTO, Tetsuo; FUJII, Masaaki
- 1D1-37** Evaluation of photogenotoxicity of phenalenone and its derivatives (Kanagawa Institute of Technology) ISHII, Ryoko; TKAMURA, Takeji; ODA, Yoshimitsu; KAWANISHI, Masanobu; YAGI, Takashi
- 1D1-38\*** Efficient mineralization of hydroperfluorocarboxylic acids with persulfate in hot water (Kanagawa Univ.; National Institute of Advanced

Industrial Science &amp; Technology(AIST)) HORI, Hisao; MURAYAMA, Misako; INOUE, Naoko; ISHIDA, Kyoko; KUTSUNA, Shuzo

Chair: KOBAYASHI, Kensei (15:40~16:30)

- \* 15:30-15:40: interval for laptop PC connection.(1D1-41, 1D1-43, 1D1-44, 1D1-45)
- 1D1-41\*** Individual Analysis of Diesel Nano Particle using High Lateral Resolution TOF-SIMS (Department of Electrical Engineering, Faculty of Engineering, Kogakuin University) SAKAMOTO, Tetsuo; MISAWA, Kentaro; FUJITANI, Yuji
- 1D1-43** Atmospheric lifetime of diethylamine in the daytime (Natl. Inst. for Environmental Studies; Mitsubishi Heavy Industries, Ltd.) SETA, Takamasa; SATO, Kei; IMAMURA, Takashi; HORIZOE, Kouji; NAGAYASU, Hiromitsu; KAMIJO, Takashi
- 1D1-44** A study of removal of organic compounds in the atmosphere by snow (Graduate School of Engineering, Osaka Pref. Univ.) TAKENAKA, Norimichi; NAKANISHI, Yusuke; NISHIKAWA, Haruka; SADANAGA, Yasuhiro; BANDOW, Hiroshi
- 1D1-45** Long-term Trend of Trans-boundary Air Pollutants Observed by Aerial Observations for 20 Years (Tokyo Univ. of Agriculture and Technology; Hosei Univ.; Osaka Prefecture Univ.; National Institute for Environmental Studies) IKEDA, Keisuke; HATAKEYAMA, Shiro; MURANO, Kentaro; BANDOW, Hiroshi; TAKAMI, Akinori

Monday, March 26, AM

Chair: KITAJIMA, Akiko (9:10~10:10)

- \* 9:00-9:10: interval for laptop PC connection.(2D1-02, 2D1-03, 2D1-04, 2D1-06)
- 2D1-02** Study on efficient decomposition of organic matter using the photo-Fenton reaction (Hiroshima Univ.) KONDO, Hiroaki; KATAKAMI, Maiko; SARANGARAJA, Balakrishnan; TAKEDA, Kazuhiko; SAKUGAWA, Hiroshi
- 2D1-03** Removals of organic pollutants in water with ozone microbubbles (Mie Prefectural Industrial Research Institute) ONARI, Yasuo; UEMURA, Yutaka
- 2D1-04\*** The removal of radioactive cesium from soil contaminated by the Fukushima No.1 Nuclear Power Plant disaster (Iwaki Meisei Univ.) SATO, Kenji; SASAKI, Hideaki; SAKAMOTO, Naomichi; SHIDA, Shigenari
- 2D1-06\*\*** Removal of Cesium from Soil by Extraction and Adsorption Process (National Institute of Advanced Industrial Science and Technology) PARAJULI, Durga; KAWAMOTO, Tohru; TANAKA, Hisashi

Chair: KAKUTA, Noriyoshi (10:20~11:10)

- \* 10:10-10:20: interval for laptop PC connection.(2D1-09, 2D1-11, 2D1-13)
- 2D1-09\*** Prussian Blue Adsorbent for the Removal of Cesium (National Institute of Advanced Industrial Science and Technology) KITAJIMA, Akiko; KAWAMOTO, Tohru; TANAKA, Hisashi; YOSHINO, Kazunori
- 2D1-11\*** Cs sorption composite material from iron hexacyanoferrate (National Institute of Advanced Industrial Science and Technology, Yamagata Univ.) TAKAHASHI, Akira; KAWAMOTO, Tohru; TANAKA, Hisashi; KURIHARA, Masato
- 2D1-13** Products and Mechanism of Chemical Decomposition of Asbestos Fibers at Room Temperature (Saga Univ.; Kankyo Anetosu Co. Ltd.) TABATA, Masaaki; SHONO, Akifumi; NOTOMI, Keiichi

Chair: EBITANI, Kohki (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(2D1-15)
- 2D1-15** CSJ Award for Technical Development Development of Novel Production Process for Aroma Chemical with Marine Fragrance (Ube Industries, Ltd.) DOI, Takashi; SUGISE, Ryouji; MITATAKE, TAKASHI; SHIRAI, Masashi; YOSHIDA, Yoshihiro

Monday, March 26, PM

Chair: SHIRAI, Masayuki (13:10~14:10)

- \* 13:00-13:10: interval for laptop PC connection.(2D1-26, 2D1-30, 2D1-31)
- 2D1-26** CSJ Award for Technical Development Development and Industrialization of Surfactant Production Process Synthesized with Subcritical Water (Kao Corporation) SAITO, Akira; SHIRASAWA, Takeshi; OKUTSU, Munehisa; TANAHASHI, Shin-ichiro; UNO, Mitsuru
- 2D1-30** Photocatalytic properties of the palladium loaded on silver bromide (Toyoashi Univ. of Technology) YAMAMOTO, Ryo; KAKUTA, Noriyoshi; MIZUSHIMA, Takanori; OHKITA, Hironobu; KOBAYASHI, Bunnaku
- 2D1-31** Preparation of square column TiO<sub>2</sub> incorporating W (Toyoashi Univ. of Technology) SHIMAKURA, Ryo; KAKUTA, Noriyoshi; MIZUSHIMA, Takanori; OHKITA, Hironobu

Chair: KAKUTA, Noriyoshi (14:20~15:20)

- \* 14:10-14:20: interval for laptop PC connection.(2D1-33, 2D1-35, 2D1-37, 2D1-38)
- 2D1-33\*\*** Immobilization and magnetic separation of heavy metals in soil with nano-Fe/CaO dispersion mixtures (Pref. Univ. Hiroshima) MALLAMPATI, Srinivasa Reddy; MITOMA, Yoshiharu; OKUDA, Tetsuji;

SAKITA, Shogo

- 2D1-35\*** Dechlorination of polychlorinated biphenyls in solid phase by nano-size metallic calcium (Pref.Univ.Hiroshima) MITOMA, Yoshiharu; OKUDA, Tetsuji; SAKITA, Shogo; MALLAMPATI, Srinivasa Reddy
- 2D1-37** Dehydrogenative silylation of alcohols catalyzed by hydroxyapatite-supported gold nanoparticles. (Osaka Univ.) YAMAMOTO, Yuuya; YAMAMOTO, Isao; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 2D1-38** Synthesis of tetrahydrofuran from 1,4-butanediol in high temperature water -Effect of carbon dioxide addition- (AIST; Research Center for Compact Chemical System) SATO, Osamu; YAMAGUCHI, Aritomo; HIYOSHI, Norihito; MURAKAMI, Yuka; SHIRAI, Masayuki

Chair: KAKUTA, Noriyoshi (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(2D1-40, 2D1-41, 2D1-42, 2D1-43, 2D1-44, 2D1-45)
- 2D1-40** Synthesis of Glucosaminic acid using Gold supported Hydrothermal catalysis by a selective oxidation of glucosamine hydrochloride in water (School of Materials Science, JAIST) OOMI, Youtarou; NISHIMURA, Shun; EBITANI, Kouki
- 2D1-41** Investigation of heterogeneous Pd catalyst for the synthesis of allyl phenyl ether by the cross-coupling reaction of alcohols (JAIST) MATSUO, Hitoshi; NISHIMURA, Shun; EBITANI, Kohki
- 2D1-42** Evaluation of carbon species prepared by Ca(OH)<sub>2</sub> activation of dehydrochlorinated carbon residue (Toyo Hashi Univ. of Technology) HADA, Naohiro; KAKUTA, Noriyoshi; MIZUSHIMA, Takanori; OHKITA, Hironobu
- 2D1-43** Treatment of nitrogen dioxide using magnesium-aluminum oxide slurry (Tohoku Univ.; Graduate School of Environmental Studies) KODAMA, Aki; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 2D1-44** Adsorption mechanisms of aromatic compounds by organically modified montmorillonite (Tohoku Univ.; Graduate School of Environmental Studies) SHIMAMORI, Shuko; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 2D1-45** A study of catalytic ability of iron-treated hydroxyapatite in photo-Fenton reaction of dye compounds (Dept. of Chem., Saitama Medical Univ.; Taihei Chem. Industrial Co.,Ltd.) MORIGUCHI, Takeshi; NAKAGAWA, Souhei

Chair: MITOMA, Yoshiharu (16 : 40~17 : 10)

- \* 16:30-16:40: interval for laptop PC connection.(2D1-47, 2D1-48, 2D1-49)
- 2D1-47** Photoanodic properties of a polychromate-electrodeposited titanium oxide electrode: comparison between anatase and rutile structures (Nigata Univ.) TSURIYA, Ryogen; KAJITA, Masashi; ABE, Naoto; YAGI, Masayuki
- 2D1-48** Photocatalytic Decomposition of VOC by Visible-Light-Driven photocatalyst (Kanagawa Academy of Science and Technology) YAMAGUCHI, Yuichi; NAKATA, Kazuya; LIU, Baoshun; KUDOU, Akihiko; SAITOU, Kenji; OCHIAI, Tsuyoshi; SAKAI, Hideki; MURAKAMI, Taketoshi; ABE, Masahiko; FUJISHIMA, Akira
- 2D1-49** Large scale solar photocatalytic ozonation of organic pollutants (Meisei Univ., GESC) HIDANO, Yasuyuki; OOTSU, Tomohiko; KOIKE, Takayoshi; OYAMA, Toshiyuki; HIDAKA, Hisao

## Resources Utilization Chemistry

Tuesday, March 27, PM

Chair: FUKAYA, Yukinobu (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(3D1-26, 3D1-29, 3D1-30, 3D1-31)
- 3D1-26** CSJ Award for Young Chemists in Technical Development Development of Phosphate Ion Adsorbent Targeting Reuse as Fertilizer (TOSHIBA CORPORATION; Japan Sewage Works Agency) TUJI, Hideyuki; HORIUCHI, Akiko; TUJI, Kouji
- 3D1-29** Recovery of magnetic material from neodymium bond magnet (Chiba Univ.; Daido Electronics Co.Ltd; National Institute of Advanced Industrial Science and Technology (AIST)) ITO, Hiroyoshi; NAKAGOME, Hideki; MURATUBAKI, Maki; KAMO, Toru
- 3D1-30** Impurity Effects on electrochemical properties of LiFePO<sub>4</sub> prepared from conversion treatment sludge (Tohoku Univ.; Graduate School of Environmental Studies) SASAKI, Kaoru; GURAUZE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 3D1-31** Extraction of Collagen from Fishery Wastes and their Properties by Cross-Linking (Environment and Materials Science, Graduate School of Fukuoka Institute of Technology) NAKAZAWA, Fumio; KUWAHARA, Junko; MITA, Hajime

Chair: KAMO, Tohru (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(3D1-33, 3D1-34, 3D1-35, 3D1-36, 3D1-37, 3D1-38)
- 3D1-33** Effect of carboxylate anions on polarity and water content of hydrophobic ionic liquids (Tokyo Univ. of Agriculture and Technology) NAKANO, Takuro; FUKAYA, Yukinobu; OHNO, Hiroyuki
- 3D1-34** Synthesis of ionic liquids as solvents for poly(3-hydroxybutyrate)

under mild condition (Tokyo Univ. of Agriculture and Technology)

- MOKUDAI, Haruki; FUKAYA, Yukinobu; OHNO, Hiroyuki
- 3D1-35** Characteristics of liana lignin. (Funaoka lab., Graduate school of bioresources, Mie Univ.) KITABAYASHI, Yuji; FUNAOKA, Masamitsu
- 3D1-36** Depolymerization pattern of native lignin under solvolysis environment (Funaoka lab., Graduate school of bioresources, Mie Univ.) TAMURA, Hiroki; FUNAOKA, Masamitsu
- 3D1-37** Preparation of ionic liquids composed of benzoic acid derivatives and their phase behavior with water (Tokyo Univ. of Agriculture & Technology) ANDO, Takashi; KOHNO, Yuki; OHNO, Hiroyuki
- 3D1-38** Analysis of proteins in hydrated zwitterion/hydrophobic ionic liquid mixtures (Tokyo Univ. of Agriculture & Technology) ITO, Yoritugu; KOHNO, Yuki; OHNO, Hiroyuki

Chair: MITA, Hajime (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(3D1-40, 3D1-42, 3D1-43, 3D1-44)
- 3D1-40\*** Convenient preparation of bio diesel fuel (Sojo Univ.) IKENAGA, Kazutoshi; OGATA, Yasuto; HOKAMURO, Daiki; SAKITA, Nariyuki
- 3D1-42** Protease-Catalyzed Oligomerization and Hydrolysis of Alkyl Lactates (Kyoto Institute of Technology) YAMAGUCHI, Syuhei; OHARA, Hitomi; KAWAI, Fusako; KOBAYASHI, Shiro
- 3D1-43** Hydrogen production from fermented apple without fermentation starter. (Komyo Rikagaku Kogyo K.K.) KAWAMURA, Koji; IZUMI, Keisuke; HONMA, Hiroaki
- 3D1-44\*** Coloration of Wool Fibers by Reaction with Reducing Sugars (Osaka Municipal Technical Research Institute) OHE, Takeru; YOSHIMURA, Yurika

Chair: ARITANI, Hirofumi (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(3D1-47, 3D1-49, 3D1-50, 3D1-51)
- 3D1-47\*** Development of highly durable dye-sensitized solar cell utilizing egg shell membranes (Department of Chemistry; Yonago National College of Technology) TANIFUJI, Naoki; SHIMIZU, Kaho; SHIGENAGA, Satsuki; TANIWA, Hironari; KAGAWA, Naoko; ABE, Kizuna
- 3D1-49** Saccharification of cellulose by solid catalysts (Toshiba Corporation; Power and Industrial Systems R&D Center) TAKAHASHI, Masanori; NAGAMORI, Yasuhiko; OKAMURA, Masato; TSUJII, Hideji
- 3D1-50** Efficient dissolving of Japanese cedar into water by treatment with metal Hydroxides or oxides (Chemical Resources Laboratory, Tokyo Institute of Technology) MORITA, Junpei; TAMAKI, Yukihiro; IWAMOTO, Masakazu
- 3D1-51** Catalytic hydrogenolysis of Japanese cedar in subcritical water (Chemical Resources Laboratory, Tokyo Institute of Technology) HASHIZUME, Daisuke; TAMAKI, Yukihiro; IWAMOTO, Masakazu

Chair: YAMAGUCHI, Aritomo (17 : 40~18 : 20)

- \* 17:30-17:40: interval for laptop PC connection.(3D1-53, 3D1-55, 3D1-56)
- 3D1-53\*** Catalytic Reactions of Sugars Using a Porous Coordination Polymer Decorated with Acid Sites (JST-ERATO; iCeMS, Kyoto Univ.) AKIYAMA, George; MATSUDA, Ryotaro; SATO, Hiroshi; KITAGAWA, Susumu
- 3D1-55#** Phenol synthesis from benzene with water on zeolite-supported Re-Pt cluster catalysts (The Univ. of Electro-Communications; Institute for Molecular Science; The Univ. of Tokyo) WNG, Linsheng; TADA, Mizuki; SASAKI, Takehiko; NAGAMATSU, Shin-ichi; IWASAWA, Yasuhiro
- 3D1-56** Direct conversion of CO<sub>2</sub> under a non-equilibrium plasma process with low emission (Saitama Institute of Technology; AIST) SUGAWARA, Toshifumi; UEHARA, Toshiyuki; ARITANI, Hirofumi; OGATA, Atsushi

## Wednesday, March 28, AM

Chair: KANDA, Yasuharu (9 : 30 ~10 : 00)

- \* 9:20-9:30: interval for laptop PC connection.(4D1-04, 4D1-05, 4D1-06)
- 4D1-04** Withdrawn
- 4D1-05** Development of processes and solid acid catalysts for hydrothermal saccharification of rice straw (Tokyo Univ. of Agriculture and Technology; Department of chemical Engineering) HIGASHI, Aki; LI, Sen; QIAN, Eika
- 4D1-06** Development of bifunctional Catalysts for Hydrodeoxygenation and Isomerization of Vegetable Oil (Tokyo Univ. of Agriculture and Technology; Department of chemical Engineering) WATANABE, Toshitaka; GONG, Shaofeng; QIAN, Eika

Chair: KAMEDA, Tomohito (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4D1-08, 4D1-10, 4D1-12, 4D1-13)
- 4D1-08\*** Recycling technology of the polylactic acid (Eco-Town Collaborative R&D Center for the Environment and Recycling, Kyushu Institute of Technology) TSUKEGI, Takayuki; NAGASAWA, Norio; HORII, Takayoshi; SHIRAI, Yoshihito; NISHIDA, Haruo
- 4D1-10\*** A new rapid degradation reaction of waste in ionic liquids by microwave irradiation (Yamaguchi Univ.) KAMIMURA, Akio; YAMAMOTO, Shigehiro; YAMADA, Kazuo
- 4D1-12** Degradation of Polystyrene/Polypropylene Mixtures on Ga Zeolite

Catalysts (Muroan Institute of Technology) YAMADA, Nobuhito; YONEMORI, Anri; KANDA, Yasuharu; SUGIOKA, Masatoshi; UEMICHI, Yoshio

**4D1-13** Preparation of Recycled PTFE Compacts with Dispersion Additives (Shinshu Univ.; NiKKi Fron Co., Ltd.) KASUGA, Hideyuki; ITABASHI, Satoshi; KAWAMURA, Wataru; MISHIMA, Shoji

Chair: QIAN, Eika W. (11:20~12:00)

\* 11:10-11:20: interval for laptop PC connection.(4D1-15, 4D1-16, 4D1-17, 4D1-18)

**4D1-15** Steam dechlorination of poly(vinyl chloride) based materials under atmospheric pressure (Tohoku Univ.; Graduate School of Environmental Studies) FONSECA, Juan; GURAUZE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki

**4D1-16** Recovery of chloride ion from waste fluid of PVC dechlorination (Tohoku Univ.; Graduate School of Environmental Studies) SHOJI, Chisato; GURAUZE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki

**4D1-17** Investigation of the thermal degradation mechanism of terephthalic acid in the presence of CaO (Tohoku Univ.; Graduate School of Environmental Studies) KUMAGAI, Shogo; GURAUZE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki

**4D1-18** Additive effects of polyvinyl chloride and polyethylene terephthalate upon hydrothermal treatment and liquefaction of plastic mixture (College of Science and Technology, Nihon Univ.) KAWAGUCHI, Eri; IJIMA, Fumiaki; KANKAWA, Hideaki; SUGANO, Motoyuki; KAKUTA, Yusuke; HIRANO, Katumi

## Room D2

4th Bldg. Independence Wing D303

### Biofunctional Chemistry ; Biotechnology

Sunday, March 25, AM

#### Molecular recognition

Chair: MIYATAKE, Tomohiro (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(1D2-01, 1D2-02, 1D2-03, 1D2-04, 1D2-05, 1D2-06)

**1D2-01** Synthesis of Self-Aggregative Chlorophyll Derivatives and Their Coordination Ability (Ritsumeikan Univ.) TAMIAMI, Hitoshi; KUNO, Masaki; KUNIEDA, Michio

**1D2-02** Self-aggregation of synthetic chlorophyll derivatives possessing amino and hydroxy groups (Ritsumeikan Univ.) MACHIDA, Shinnosuke; TAMIAMI, Hitoshi

**1D2-03** Photocurrents of Rod-Like Self-Aggregates of Zinc Chlorophyll Derivatives (Ritsumeikan Univ., Shinshu Univ.) SHOJI, Sunao; USAMI, Hisanao; TAMIAMI, Hitoshi

**1D2-04** Demetallation analysis of natural chlorophyll *a* and its analogs under weakly acidic conditions (Kinki Univ.; Nagahama Inst. Biosci. Tech.; Ritsumeikan Univ.) SADAOKA, Kana; HIRAI, Yuki; ISAJI, Megumi; TAMIAMI, Hitoshi; SAGA, Yoshitaka

**1D2-05** Synthesis and Characterization of Chlorosomal Chlorophyll Derivatives Possessing Metal Coordination Moiety at the 17-Propionate (Kinki Univ.; Ritsumeikan Univ.) TAKAHASHI, Naoya; NAKAGAWA, Toshihiro; TAMIAMI, Hitoshi; SAGA, Yoshitaka

**1D2-06** Structural Change of Chlorophyll Derivatives by Contact with TiO<sub>2</sub> Particles (Kinki Univ.) SAGA, Yoshitaka; OTONO, Tae

Chair: SHIOJI, Kosei (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(1D2-08, 1D2-09, 1D2-10, 1D2-11, 1D2-12, 1D2-13)

**1D2-08** synthesis of novel iode-chlorin as radiosensitizers (Graduate School of Engineering, Utsunomiya University) OBA, Toru; YASUDA, Satoru; ITOU, Satoshi; ISHIBASHI, Naoya; OTSUKI, Joe; NAGASE, Hiroki; FUJIWARA, Kyoko; WATANABE, Takayoshi

**1D2-09** Self-Aggregation of Zinc 3-Methoxymethyl-Chlorin Dyads Linked with a PEG Chain (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; HIRAI, Ryoji; SASAKI, Fumika; TAMIAMI, Hitoshi

**1D2-10** Non-enzymatic conversion of chlorophyll-*a* into chlorophyll-*d* in vitro (Utsunomiya Univ.; Ritsumeikan Univ., Ryukoku Univ.) FUKUSUMI, Takanori; ITO, Satoshi; MIZOGUCHI, Tadashi; TAMIAMI, Hitoshi; MIYATAKE, Tomohiro; IKEDA, Tsukasa; OBA, Toru

**1D2-11** Synthesis of Novel Antimicrobial Cyclodextrins by Microwave-Assisted Click Reaction (Graduate School of Engineering, Nagoya Institute of Technology) FUJITA, Yusuke; MIYAGAWA, Atsushi; YAMAMURA, Hatsuho

**1D2-12** Synthesis of High Affinity Cyclodextrin Dimers by Diels-Alder Reaction (Graduate School of Engineering, Nagoya Institute of Technology) HASEGAWA, Takuya; MIYAGAWA, Atsushi; YAMAMURA, Hatsuho

**1D2-13** Synthesis of cyclodextrin derivatives aiming at improvement of the inhibitory effect of Quorum Sensing (Faculty of Engineering, Utsunomiya Univ.) SAITO, Yuki; MOROHOSHI, Tomohiro; KATO, Norihiro; IKEDA, Tsukasa; OBA, Toru; ITO, Satoshi

Chair: SAGA, Yoshitaka (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(1D2-15, 1D2-16, 1D2-17, 1D2-18, 1D2-19, 1D2-20)

**1D2-15** Synthesis of Cyclophane Pentamer by Click Chemistry and Its Guest-binding Abilities toward Guest Molecules. (Fukuoka Univ., Graduate School of Science) NAKAMURA, Yuki; NAKASHIMA, Tomomi; HAYASHIDA, Osamu

**1D2-16** Synthesis of Peptide-Based Cyclophane Oligomers and Multivalently Enhanced Guest-Binding Affinity (Fukuoka Univ., Graduate School of Science) NAKASHIMA, Tomomi; NAKAMURA, Yuki; HAYASHIDA, Osamu

**1D2-17** Synthesis and Host-Guest Properties of Water-soluble Cyclophanes Bearing Dabsyl Moiety as a Fluorescence Quencher (Fukuoka Univ., Faculty of Science) KAKU, Yu; KIMURA, Keiichi; HAYASHIDA, Osamu

**1D2-18** Synthesis of Artificial Carriers Bearing a Fluorescent Group and Intracellular Delivery of Anionic Guest Molecules (Fukuoka Univ., Graduate school of Science) KIMURA, Keiichi; SHIOJI, Kosei; HAYASHIDA, Osamu

**1D2-19** Cellular Uptake of Porphyrin-Cyclodextrin Supramolecular Complexes (Doshisha Univ.) KITAGISHI, Hiroaki; MAKI, Yuki; MAEDA, Yasuaki; HATADA, Satoshi; KANO, Koji

**1D2-20** Synthesis of folate-conjugated fluorophenylporphyrin and its effect on photocytotoxicity (Nara Institute of Science and Technology) TOMOTSUKA, Ayumi; HIROHARA, Shihou; TERADA, Kayo; ANDO, Tsuyoshi; TANIHARA, Masao

Sunday, March 25, PM

Chair: TAMIAMI, Hitoshi (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(1D2-28, 1D2-31, 1D2-32, 1D2-33)

**1D2-28** CSJ Award for Young Chemists Bio-inspired Supramolecular Materials (Grad. Sch. Eng., Kyoto Univ.) IKEDA, Masato

**1D2-31** Synthesis and Photochemical Characterization of Porphyrine-centered Lysine-Dendrimer (Department of Bioscience and Biotechnology, Tokyo Institute of Technology) YABA, Akira; INOUE, Mai; ITO, Hidehiro; OKURA, Ichiro; KAMACHI, Toshiaki

**1D2-32** Synthesis and Functional Evaluation of Novel Chiral Dendrimer Amine-Coordinated Gd-MRI Contrast Agent (Kyoto Univ.) KONDO, Teruyuki; ISHIKAWA, Shungo; KIJITORI, Hiroki; KIMURA, Yu; TOSHIMITSU, Akio; MATSUDA, Tetsuya; NARAZAKI, Michiko; YANO, Tetsuya

**1D2-33** Properties of pyrrole-fused-porphyrin with fullerene moiety (Saitama Univ., Graduate School of Science and Engineering) YOKOMIZO, Kunihiko; SAKAMOTO, Akira; FUJIHARA, Takashi; NAGASAWA, Akira; ISHIMARU, Yoshihiro

Chair: KAMACHI, Toshiaki (17:00~18:20)

\* 16:50-17:00: interval for laptop PC connection.(1D2-49, 1D2-51, 1D2-53, 1D2-54, 1D2-55)

**1D2-49\*** Host-guest interaction at dendritic space constructed by glycerol units (Graduate School of Engineering, Kobe Univ.) OOYA, Tooru; LEE, Haejoo; TAKEUCHI, Tshifumi

**1D2-51\*** Solvent effects on hydrogen-bond-assisted molecular aggregation of protonated decavanadate anions (Tokyo Institute of Technology; Argonne National Laboratory) KOJIMA, Tatsuhiro; ANTONIO, Mark; OZEKI, Tomoji

**1D2-53** Design and synthesis of new caged compounds for intracellular calcium signaling (Toho Univ.) ASABA, Takaichi; TAKEUCHI, Taro; SUZUKI, Akinobu; FURUTA, Toshiaki

**1D2-54** Design and synthesis of Caged Paclitaxel derivatives (Toho Univ. Tokyo Med. Dent. Univ.) SEKINE, Ryota; SUZUKI, Akinobu; TAMAMURA, Hirokazu; FURUTA, Toshiaki

**1D2-55\*** Metal Complex-Based Fluorescent Probes for Hydrogen Peroxide (Doshisha Univ.) TAKEYASU, Toshiyuki; HITOMI, Yutaka; KODERA, Masahito

Monday, March 26, AM

#### Molecular recognition

Chair: MIKATA, Yuji (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(2D2-01, 2D2-02, 2D2-03, 2D2-04, 2D2-05, 2D2-06)

**2D2-01** Development of Time-resolved Fluorescence Sensor for Zinc Based on The Photoinduced Electron Transfer Mechanism (Kyoto Univ.) AKAOKA, Kazushi; TAKI, Masayasu; YAMAMOTO, Yukio

**2D2-02** Development of Membrane Permeable Lanthanide Complexes for The Detection of Intracellular Zinc Ion (Kyoto Univ.) AKAOKA, Kazushi; YAMASAKI, Midori; TAKI, Masayasu; YAMAMOTO, Yukio

- 2D2-03** Fluorescence sensing of metal ion using Aromatic Metallation system (Graduate school of Pharmaceutical Sciences, Kyushu Univ.) TAKASHIMA, Ipppei; KINOSHITA, Miyuki; NAKAZONO, Manabu; OJIDA, Akio
- 2D2-04** In cell fluorescence imaging using Aromatic Metallation system (The faculty of Pharmaceutical sciences, Kyushu Univ.) KINOSHITA, Miyuki; TAKASHIMA, Ipppei; NAKAZONO, Manabu; OJIDA, Akio
- 2D2-05** Development of fluorescent probe for chloride anion in cell (Kyushu Univ.) KUMADE, Ayane; OSHIKAWA, Yuji; NAKAZONO, Manabu; OJIDA, Akio
- 2D2-06** Development of fluorescence sensing system using dynamic pKa shift of amines (Kyushu Univ.) OSHIKAWA, Yuji; NAKAZONO, Manabu; OJIDA, Akio

Chair: YAMAMOTO, Yukio (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2D2-08, 2D2-09, 2D2-10, 2D2-11, 2D2-13)
- 2D2-08** Fluorescent response of isoquinoline-based ethylenediamine derivatives toward zinc ion in aqueous solution (Fac.Sci.and KYOUSEI Science center, Nara Women's Univ.) TAKEUCHI, Saaya; MIKATA, Yuji
- 2D2-09** Self-assembling probe (1) : Systematic study of protein response mechanism in <sup>19</sup>F MRI probes and sensitivity improvements (Graduate School of Engineering, Kyoto Univ.) MATSUO, Kazuya; TAKAOKA, Yusuke; KIMINAMI, Keishi; MIZUSAWA, Keigo; NARAZAKI, Michiko; MATSUDA, Tetsuya; HAMACHI, Itaru
- 2D2-10** Self-assembling probe (2) :Assembling Module Strategy for Turn-on Fluorescent Sensing of Protein (Faculty of Engineering, Kyoto Univ.) FUKUYAMA, Yoshiaki; MIZUSAWA, Keigo; MATSUO, Kazuya; TAKAOKA, Yusuke; HAMACHI, Itaru
- 2D2-11\*** Self-assembling probe (3) : Imaging of proteins on cell surface using turn-on fluorescent nanoprobe (Graduate School of Engineering, Kyoto Univ.) MIZUSAWA, Keigo; TAKAOKA, Yusuke; HAMACHI, Itaru
- 2D2-13** Development of Mitochondria-Specific Molecular Oxygen Sensor Using Iridium Complex (Department of Chemistry and Chemical Biology, Gunma Univ.) YOSHIHARA, Toshitada; MURASE, Tokiko; TOBITA, Seiji

Chair: TOSHIMA, Kazunobu (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2D2-15, 2D2-17, 2D2-18, 2D2-19, 2D2-20)
- 2D2-15\*** Subcellular-Specific Compounds 1: Self-Localizing Ligands for Conditional Protein Translocation (Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka Univ. of Technology; Department of Bioengineering, Nagaoka Univ. of Technology; Graduate School of Engineering, Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) TSUKIJI, Shinya; WATANABE, Hideaki; KURISHITA, Yasutaka; HAMACHI, Itaru
- 2D2-17** Subcellular-Specific Compounds 2: Design and Intracellular Localization Properties of Inner Plasma Membrane-Targeted Ligands (Department of Bioengineering, Nagaoka Univ. of Technology; Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka Univ. of Technology; Graduate School of Engineering, Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) WATANABE, Hideaki; ISHIDA, Manabu; HAMACHI, Itaru; TSUKIJI, Shinya
- 2D2-18** Subcellular-Specific Compounds 3: Conditional Activation of Cell Signaling Pathways by a Self-Localizing Ligand (Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka Univ. of Technology; Department of Bioengineering, Nagaoka Univ. of Technology; Graduate School of Engineering, Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) ISHIDA, Manabu; WATANABE, Hideaki; HAMACHI, Itaru; TSUKIJI, Shinya
- 2D2-19** Subcellular-Specific Compounds 4: A New Nucleus-Staining Green Fluorescent Probe (Department of Bioengineering, Nagaoka Univ. of Technology; Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka Univ. of Technology; Graduate School of Engineering, Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) TAKIGAWA, Kazumasa; ISHIDA, Manabu; KURISHITA, Yasutaka; HAMACHI, Itaru; TSUKIJI, Shinya
- 2D2-20** Development and Application of the Mg<sup>2+</sup> Fluorescent Sensor Probe Based on FAsH for Localized Molecular Imaging in Living Cells (Keio Univ.; The Univ. of Tokyo) FUJII, Tomohiko; SHINDO, Yutaka; NISHIYAMA, Shigeru; SUZUKI, Kouji; OKA, Kotaro

## Monday, March 26, PM

Chair: TANABE, Kazuhito (13 : 30~14 : 50)

- \* 13:20-13:30: interval for laptop PC connection.(2D2-28, 2D2-29, 2D2-31, 2D2-33, 2D2-34, 2D2-35)
- 2D2-28** Synthesis and properties of water-soluble doubly N-confusedhexaphyrin with pyridinium substituents. (Graduate School of Engineering, Kyushu Univ.) KATSUMATA, Sho; IKAWA, Yoshiya; FURUTA, Hiroyuki
- 2D2-29\*** Regioselective glucosylation on porphyrin leads unique pharmacokinetic behavior and efficient photodynamic effect (Nara Institute of Science and Technology; Univ. of Yamanashi) HIROHARA, Shiho; TOTANI, Masayasu; OBATA, Makoto; YUASA, Junpei; KAWAI, Tsuyoshi; OKA,

Chio; KAWAICHI, Masashi; TANIHARA, Masao

- 2D2-31\*** Highly sensitive magnetic resonance probe using hyperpolarization technique (1): Exploration of molecular structures with a long hyperpolarized state and application for molecular probe (Kyushu Univ.) NONAKA, Hiroshi; HATA, Ryunosuke; KAMEYAMA, Yutaka; NAGANUMA, Tatsuya; ICHIKAWA, Kazuhiro; SANDO, Shinsuke
- 2D2-33** Highly sensitive magnetic resonance probe using hyperpolarization technique (2): Design of hyperpolarized molecular probe for in vivo analysis of metal ion (Kyushu Univ.) HATA, Ryunosuke; NONAKA, Hiroshi; NAGANUMA, Tatsuya; ICHIKAWA, Kazuhiro; SANDO, Shinsuke
- 2D2-34** Highly sensitive magnetic resonance probe using hyperpolarization technique (3): Reporter assay protein using a hyperpolarized substrate (Kyushu Univ.) IMAISHI, Takahiro; NISHIHARA, Tatsuya; NONAKA, Hiroshi; NAGANUMA, Tatsuya; ICHIKAWA, Kazuhiro; SANDO, Shinsuke
- 2D2-35** Target-selective Photo-degradation of Receptor Proteins by Ligand Protein-anthraquinone Hybrids (Keio Univ.; Faculty of Science and Technology) ONUMA, Yusuke; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Chair: SANDO, Shinsuke (15 : 00~16 : 10)

- \* 14:50-15:00: interval for laptop PC connection.(2D2-37, 2D2-38, 2D2-39, 2D2-40, 2D2-41, 2D2-42)
- 2D2-37** Evaluation of *N*-methylpyridinium schiff base copper (II) Complexes DNA binding affinity and cleavage activity (Graduate School of Science and Engineering, Chuo Univ.) TAKAKITA, Shota; MIYOSHI, Masanobu; ASAHINA, Akiyoshi; KITAMURA, Yusuke; CHIKIRA, Makoto
- 2D2-38** Interaction of asymmetric bridging group on the binding of cationic salen type Schiff base complexes of nickel (II) to DNA (Graduate school of Science and Engineering, Chuo Univ.) TARUNO, Yoko; KITAMURA, Yusuke; CHIKIRA, Makoto
- 2D2-39\*** A simple and real-time colorimetric assay for glycosidases activity using functionalized gold nanoparticles (Graduate School of Engineering, Osaka Univ.) ZENG, Zhanghua; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 2D2-40** Biological activity of amphiphilic compounds possessing a bent-core unit (Graduate school of Science and Technology, Hirosaki Univ.) FUKUSHI, Yukako; ISHIKAWA, Junya; KASHIWAKURA, Ikuo; YOSHIZAWA, Atsushi
- 2D2-41** Photo-degradation of Influenza Virus Neuraminidase by Anthraquinone-Sialic Acid Hybrids (Keio Univ.; Faculty of Science and Technology) AOKI, Yusuke; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 2D2-42\*** Target-selective Photo-degradation of HIV-1 Protease and Inhibition of HIV-1 Replication in Living Cells by a Fullerene Derivative. (Faculty of Science and Technology, Keio Univ.) TANIMOTO, Shuho; KUDO, Eriko; OKADA, Seiji; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Chair: KITAMURA, Yusuke (16 : 20~17 : 30)

- \* 16:10-16:20: interval for laptop PC connection.(2D2-45, 2D2-46, 2D2-48, 2D2-49, 2D2-50, 2D2-51)
- 2D2-45** Chemical conversion of the surface structures of nanoparticles in living cells (Graduate School of Engineering, Kyoto Univ.) KUSAKA, Eriko; ITO, Takeo; ISOBE, Yu; NISHIMOTO, Sei-ichi
- 2D2-46\*** Synthesis and biological evaluation of dodecaborate-containing L-amino acids. (Osaka Pref. Univ.; Research Organization for Univ.-Community Collaborations) HATTORI, Yoshihide; KUSAKA, Shintarou; MUKUMOTO, Mari; UEHARA, Kouki; ASANO, Tomoyuki; TANIMORI, Shinji; KIRIHATA, Mitsunori
- 2D2-48** Preparation and emission properties of ruthenium complex for real time imaging of oxygen concentration in living cells 1 (Kyoto Univ.) YOSHIHARA, Kazuki; KOMATSU, Hirokazu; TANABE, Kazuhito; NISHIMOTO, Sei-ichi
- 2D2-49** Preparation and emission properties of ruthenium complex for real-time imaging of oxygen concentration in living cells 2 (Kyoto Univ.) KOMATSU, Hirokazu; YOSHIHARA, Kazuki; ISHIZAKI, Jin; TANABE, Kazuhito; NISHIMOTO, Sei-ichi
- 2D2-50** Evaluation of visible light and X-ray sensitizing activities for pyropheophorbide derivatives (Nihon Univ.; College of Science and Technology) SHINOZAKI, Yoshinao; OTSUKI, Joe; ISHIBASHI, Naoya; FUJIWARA, Kyoko; WATANABE, Takayoshi; NAGASE, Hiroki; OBA, Toru
- 2D2-51** Contribution of the type I and type II mechanisms to protein damage photosensitized by P(V)porphyrin (Shizuoka Univ.; Hamamatsu Univ. School of Med.) HIRAKAWA, Kazutaka; OKAZAKI, Shigetoshi

## Tuesday, March 27, AM

### Cells

Chair: HASHIZUME, Mineo (10 : 20~11 : 10)

- \* 10:10-10:20: interval for laptop PC connection.(3D2-09, 3D2-10, 3D2-11, 3D2-12, 3D2-13)
- 3D2-09** Development of novel fluorescence probes to detect histone deacetylase activity (Graduate School of Engineering, Osaka Univ.) BABA, Reisuke; HORI, Yuichiro; KIKUCHI, Kazuya
- 3D2-10** Effect of reactive oxygen species on the cultured neural stem/progenitor cells (Osaka Prefecture Univ. Grad. Sch. Sci.) MORI, Hideki;

HARA, Masayuki

- 3D2-11** Effect of lead on differentiation of neural stem/progenitor cells in vitro (Osaka Prefecture Univ. Grad. Sch. Sci.) MORI, Hideki; SASAKI, Go; NISHIKAWA, Mayu; HARA, Masayuki
- 3D2-12** Genome Modification in Cell with Artificial Restriction DNA CUTter (RCAST, The Univ. of Tokyo) TAGA, Ryosuke; FUJISAKI, Miwa; AIBA, Yuichiro; SHIGI, Narumi; KOMIYAMA, Makoto
- 3D2-13** Mutational Analyses of PYP-tag Binding with Fluorescence Probe (Graduate School of Engineering, Osaka Univ.) SATO, Motoki; HORI, Yuichiro; KIKUCHI, Kazuya

Chair: MORI, Toshiaki (11:20~11:30)

\* 11:10-11:20: interval for laptop PC connection.(3D2-15, 3D2-18)

- 3D2-15 CSJ Award for Young Chemists in Technical Development** Development of D-Serine Production by a Single-step Process (Mitsui Chemicals, Inc.) HIDESEKI, Tomonori

Chair: SATO, Toshinori (11:50~12:20)

- 3D2-18 CSJ Award for Young Chemists in Technical Development** Development of efficient D-lactate continuous fermentation by membrane-integrated fermentation process (Toray Industries, Inc. New Frontiers Research Laboratories; Global Environment Research Laboratories) MIMITSUKA, Takashi; SAWAI, Kenji; NA, Kyungsu; SAWAI, Hideki; MINEGISHI Shinichi; YAMADA Katsushige; YONEHARA Tetsu

## Tuesday, March 27, PM

Chair: NAKAMURA, Chikashi (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(3D2-28, 3D2-29, 3D2-30, 3D2-31, 3D2-32)

- 3D2-28** Electrochemical Regulation of the Microbial Metabolism Producing Polyhydroxybutyrate (Univ. of Tokyo ; JST/ERATO) KIMOTO, Yuki; NISHIO, Koichi; NAKANISHI, Syuji; HASHIMOTO, Kazuhito
- 3D2-29** Effect of light intensity on intracellular metabolic activity by pretreatment cycle for improving ability of ammonium removal of bioreactor using biofilter composed of aerial microalga (Kogakuin Univ.) BITO, Tomohiro; ABURAI, Nobuhiro; ABE, Katsuya
- 3D2-30** Accumulation and Analysis of Carotenoids in Aerial Microalgae under High-Light Culture Condition (Kogakuin Univ.) ABURAI, Nobuhiro; ABE, Katsuya
- 3D2-31** Characterization of Aerial Microalgae Isolated from Surface of Rocks toward Biofuel Production (Kogakuin Univ.) ABE, Katsuya; WAKAMATSU, Michihiro; MINEGISHI, Yasuo; TANI, Tomoki; ABURAI, Nobuhiro
- 3D2-32\*** Microbial Solar Cell Using Defined Microbial Consortia (The Univ. of Tokyo) NISHIO, Koichi; WATANABE, Kazuya; HASHIMOTO, Kazuhito

Chair: HIFUMI, Emi (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(3D2-35, 3D2-37, 3D2-38, 3D2-40)

- 3D2-35\*** in vitro design of dynamic mechanical environments for cells by pH-responsive polymer (Inst. of Phys. Chem., Univ. of Heidelberg) YOSHIKAWA, Hiroshi; ARMES, Steven P.; TANAKA, Motomu
- 3D2-37** Quantitative evaluation of mechono-responese of cells on pH-responsive gel substrate (Department of Chemistry, Saitama Univ.) MATSUZAKI, Takahisa; HIDAI, Tomoaki; ARMES, Steven; NAKABAYASHI, Seichiro; MOTOMU, Tanaka; YOSHIKAWA, Hiroshi
- 3D2-38\*** In Vivo Imaging of Osteoclasts Using pH-Responsive Fluorescent Probes (Immunology Frontier Research Center, Osaka Univ.) KOWADA, Toshiyuki; KIKUTA, Junichi; KUBO, Atsuko; ISHII, Masaru; MAEDA, Hiroki; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 3D2-40** Development of pH-Responsive Fluorescent Probes Aiming at Long-Term Imaging of Osteoclast (Graduate School of Engineering, Osaka Univ.) MAEDA, Hiroki; KOWADA, Toshiyuki; KIKUCHI, Kazuya

Chair: FURUKAWA, Shuhei (15:50~16:50)

\* 15:40-15:50: interval for laptop PC connection.(3D2-42, 3D2-43, 3D2-44, 3D2-45, 3D2-46, 3D2-47)

- 3D2-42** Study on the cytotoxicity of human catalytic antibody light chains for cancer cells. (Department of Applied Chemistry, Faculty of Engineering, Oita Univ., Applied Medical Engineering Laboratory, Oita Univ.) SONODA, Sari; IIKURA, Ryo; HONJYO, Eijiro; HIFUMI, Emi; UDA, Taizo
- 3D2-43** Development of fluorogenic protein labeling probe (Osaka Univ.) UEDA, Mitsuru; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 3D2-44** Development of pH-responsive Fluorescent Probe Based On Mutant  $\beta$ -lactamase (Graduate school of engineering, Osaka Univ.) AKIMOTO, Yuri; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 3D2-45** Development of protein tethering system using protein labeling system (Graduate school of engineering, Osaka Univ.) YOSHIMURA, Akimasa; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 3D2-46** Development of a method to control cell adhesion force as a basis for a novel cell separation technology (BioMedical Research Institute, AIST and Biotechnol. & Life Sci., Tokyo Univ. of Agric. & Technol.) OKOSE,

Motomu; AMEMIYA, Yosuke; SATHULURI, Ramachandre Rao; SILBERBERG, Yaron; NAKAMURA, Chikashi

- 3D2-47** Engineered post-synapse model cells with elevated ion flux for HTA (Kyushu Institute of Technology) TATEISHI, Akito; TANAKA, Masami; COLEMAN, S.K.; MIGITA, Satoshi; KEINANEN, K.; HARUYAMA, Tetsuya

Chair: HARUYAMA, Tetsuya (17:00~18:00)

\* 16:50-17:00: interval for laptop PC connection.(3D2-49, 3D2-51, 3D2-52, 3D2-54)

- 3D2-49\*\*** Study of the Receptor-Ligand Binding Dynamics in Cell Membranes by Holographic Optical Tweezers (Eindhoven Univ. of Tech.) NAKANO, Yoko; BERGHOF, Konrad P.; KRESS, Holger S.; DANKERS, Patricia Y.W.; PRINS, Menno W.J.; MEIJER, E.W.
- 3D2-51\*** Development of coelenterazine derivatives with improved water solubility (Graduate school of engineering, Osaka Univ.) LINDBERG, Eric; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 3D2-52\*** Light induced release of bioactive gas molecules using porous coordination polymers (Kyoto Univ.) KIM, Chi Won; DIRING, Stephane; KAMEI, Kenichiro; KITAGAWA, Susumu; FURUKAWA, Shuhei
- 3D2-54** Fabrication of functional extracellular matrix by hybridization of porous coordination polymers with biocompatible materials (Kyoto Univ.) NAKAHAMA, Masashi; REBOUL, Julien; KAMEI, Kenichiro; KITAGAWA, Susumu; FURUKAWA, Shuhei

## Wednesday, March 28, AM

### Cells

Chair: SAITO, Masato (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4D2-01, 4D2-02, 4D2-03, 4D2-04, 4D2-05, 4D2-06)

- 4D2-01** Design of riboregulators which function in cyanobacteria (Tokyo Univ. of Agric. & Technol.) IKEBUKURO, Kazunori; NAKASHIMA, Saki; ABE, Koichi; SAKAI, Yuta; ARAKI, Masataka; SODE, Koji
- 4D2-02** Construction of the autoaggregation and autolysis system controlled by riboregulator (Tokyo Univ. of Agric. & Technol.) IKEBUKURO, Kazunori; ARAKI, Masataka; ABE, Koichi; SAKAI, Yuta; NAKASHIMA, Saki; SODE, Koji
- 4D2-03** Morphological analysis of magnetosomes in the magnetotactic bacterial mutants deficient in multiple crystal regulator genes (Inst. Engr., Tokyo Univ. Agri. Tech.) FUKUYO, Ayumi; YAMAGISHI, Ayana; TANAKA, Masayoshi; ARAKAKI, Atsushi; MATSUNAGA, Tadashi
- 4D2-04** Analysis of cell exfoliation specifically observed during the formation of spermine-induced multilayer muscle fiber sheet (Department of Biotechnology and Life science, Tokyo Univ. of Agriculture and Technology) ISHIDA, Ayano; ABE, Natsuki; FUNABASHI, Hisakage; SAITO, Mikako; MATSUOKA, Hideaki
- 4D2-05** Quantitative analysis of cell death observed during the formation of spermine-induced multilayer muscle fiber sheet (Department of Biotechnology and Life science, Tokyo Univ. of Agriculture and Technology) ABE, Natsuki; ISHIDA, Ayano; FUNABASHI, Hisakage; MATSUOKA, Hideaki; SAITO, Mikako
- 4D2-06** Time-lapse analysis of non-adhered cells using cell array device. (Inst. Engr., Tokyo Univ. Agri. Tech.) OSADA, Kyoko; HOSOKAWA, Masahito; YOSHINO, Tomoko; NAKASONO, Satoshi; TANAKA, Tsuyoshi; MATSUNAGA, Tadashi

Chair: SODE, Koji (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4D2-08, 4D2-09, 4D2-10, 4D2-11, 4D2-12, 4D2-13)

- 4D2-08** Gene expression analysis in a proposed novel method for the differentiation of mES cells into insulin-producing cells (Department of Biotechnology and Life science, Tokyo Univ. of Agriculture and Technology) HANATA, Nobuaki; FUNABASHI, Hisakage; SAITO, Mikako; MATSUOKA, Hideaki
- 4D2-09** Evaluation of activity of RNAi against diabetes related genes in MIN6 cells (Department of Biotechnology and Life science, Tokyo Univ. of Agriculture and Technology) KAKUTANI, Yukari; KABURAGI, Misako; FUNABASHI, Hisakage; MATSUOKA, Hideaki; SAITO, Mikako
- 4D2-10** In vivo delivery of RNAi reagents into a mouse by hydrodynamics method (Department of Biotechnology and Life science, Tokyo Univ. of Agriculture and Technology) KABURAGI, Misako; KAKUTANI, Yukari; FUNABASHI, Hisakage; MATSUOKA, Hideaki; SAITO, Mikako
- 4D2-11** Application of carbon nanowalls for cell culture substrates (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) OKAMOTO, Yukihiko; KUBO, Kazutoshi; WATANABE, Hitoshi; KONDO, Hiroki; TOKESHI, Manabu; HORI, Masaru; BABA, Yoshinobu
- 4D2-12** Introduction of differentiation control proteins into ES single-cells (Department of Biotechnology and Life science, Tokyo Univ. of Agriculture and Technology) TANAKA, Toshiaki; SUGIMOTO, Yuki; FUNABASHI, Hisakage; SAITOU, Mikako; MATSUOKA, Hideaki
- 4D2-13** Dynamic properties of fluorescent reporter proteins femtoinjected into ES single-cells (Department of Biotechnology and Life science, Tokyo Univ.



of Agriculture and Technology) HISATOMI, Shota; FUNABASHI, Hisakage; SAITO, Mikako; MATSUOKA, Hideaki

Chair: SAITO, Mikako (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4D2-15, 4D2-16, 4D2-18, 4D2-19, 4D2-20)
- 4D2-15** Development of a method to modify nanoneedle arrays with proteins for cell manipulation. (Dept. Biotechnol. Life Sci., TUAT, Biomedical Research Institute, AIST, Dept. Mat. Eng., UT) SHIMOOKU, Marie; AMEMIYA, Yosuke; SATHULURI, Ramachandra Rao; ISHIHARA, Kazuhiko; FUKAZAWA, Kyoko; NAKAMURA, Chikashi
- 4D2-16\*** The development of blue light sensing system dedicating for the synthetic cyanobacterial bioprocess (Tokyo Univ. of Agric. and Technol.) NAKAJIMA, Mitsuharu; KOJIMA, Katsuhiro; ABE, Koichi; FERRI, Stefano; SODE, Koji
- 4D2-18** The construction of synthetic cyanobacterial host with controllable auto lysis (Tokyo Univ. of Agric. and Technol.) FERRI, Stefano; MIYAKE, Kotone; NAKAJIMA, Mitsuharu; ABE, Koichi; KOJIMA, Katsuhiro; SODE, Koji
- 4D2-19** The development of self aggregation system for marine cyanobacteria (Tokyo Univ. of Agric. and Technol.) ABE, Koichi; KOSHIBA, Ryosuke; NAKAJIMA, Mitsuharu; KOJIMA, Katsuhiro; FERRI, Stefano; SODE, Koji
- 4D2-20** A photonic device for diagnosis of cardiomyocyte toxicity (Graduate School of Engineering, Osaka Univ., Photonics Center, Osaka Univ.) SHIMIZU, Eiichi; SAITO, Masato; YAMAGUCHI, Yoshinori; TAMIYA, Eiichi

## Room D3

4th Bldg. Independence Wing D304

### Biofunctional Chemistry ; Biotechnology

Sunday, March 25, AM

#### Medical

Chair: OGURA, Shun-Ichiro (9 : 10 ~ 10 : 00)

- \* 9:00-9:10: interval for laptop PC connection.(1D3-02, 1D3-03, 1D3-04, 1D3-05, 1D3-06)
- 1D3-02** Single Nucleotide Polymorphism detection by using fully automated genetic analysis system (KAZUSA DNA Research Institute) AZUMA, Tomohiko
- 1D3-03** Effect of a Molecular Weight and Drawing on Structure Characteristics of Polysaccharide Composite Fibers (Tokyo Univ. of Sci.) IRIE, Kanta; YUYAMA, Kazuya; HASHIZUME, Mineo
- 1D3-04** Enhancement of macrophage uptake by using glycosphingolipid-enriched liposome: Effect of glycolipid for photodynamic activity by liposomes incorporating fullerene (Graduate School of Materials Science, Nara Institute of Science and Technology) NAKANO, Toshiyuki; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi; OGAWA, Takuya; TAKEYA, Tatsuo
- 1D3-05** Development of a photo-sensitive drug carrier based on cleavage of PEG lipids triggered by photosensitizer-generated reactive singlet oxygen (Graduate School of Materials Science, Nara Institute of Science and Technology) KOMEDA, Chikako; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi
- 1D3-06** Design and synthesis of ligand contains sugar using Click Chemistry (Yonago National College of Technology) EDATANI, Marie; NAKAMITSU, Kousei; URUMA, Yoshiyuki

Chair: IKEDA, Atsushi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1D3-08, 1D3-09, 1D3-10, 1D3-12, 1D3-13)
- 1D3-08** The effect of aerobic respiration activity on 5-aminolevulinic acid metabolism (Tokyo Tech) SUGIYAMA, Yuta; HAGIYA, Yu-ichiro; HAYASHI, Tetsuya; TSUCHIYA, Kyoko; ISHIZUKA, Masahiro; TANAKA, Tohru; OKURA, Ichiro; OGURA, Shun-ichiro
- 1D3-09** Investigation of the effect on proteins by copper oxide (I) which shows efficiently antiviral and antibacterial properties. (RCAT) LU, Yue; MINOSHIMA, Masafumi; SUNADA, Kayano; HASHIMOTO, Kazuhito
- 1D3-10\*** Effective human antigenase against influenza virus A type (Oita Univ.; Faculty of Engineering Oita / Univ.; Research Promotion Project / Crest of JST) FUJIMOTO, Naoko; HIFUMI, Emi; UDA, Taizo
- 1D3-12** Antiviral and antibacterial activities of solid state copper (I) compounds (Department of Applied Chemistry, School of Engineering, The Univ. of Tokyo) MINOSHIMA, Masafumi; LU, Yue; SUNADA, Kayano; HASHIMOTO, Kazuhito
- 1D3-13** Synthesis of Hemoglobin/Albumin Cluster as an Artificial Oxygen Carrier. (Faculty of Sci. and Eng., Chuo Univ.) HOSAKA, Hitomi; TOMITA, Daiki; KOMATSU, Teruyuki

Chair: KOMATSU, Teruyuki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(1D3-15, 1D3-16, 1D3-17, 1D3-18, 1D3-19)
- 1D3-15** Evaluation of photodynamic activity of water-soluble fullerene derivatives by solubilizing agent (Graduate School of Materials Science, Nara Institute of Science and Technology) IIZUKA, Tatsuya; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi; OGAWA, Takuya; TAKEYA, Tatsuo
- 1D3-16** Development of pH-sensitive photosensitizers based on light-harvesting molecule-fullerene binary system (Grad. Sch. Mat. Sci., Nara Inst. Sci. and Technol.; Grad. Sch. Biol. Sci., Nara Inst. Sci. and Technol.) AKIYAMA, Motofusa; IKEDA, Atsushi; KIKUCHI, Jun-ichi; OGAWA, Takuya; TAKEYA, Tatsuo; NAKATA, Eiji
- 1D3-17** Synthesis and Characterization of hydrophobically-modified gelatin for the treatment of brain aneurysm (Univ. of Tsukuba) ENDO, Yoshiaki; MATSUDA, Miyuki; TAGUCHI, Tetsushi
- 1D3-18** Synthesis and Functional Evaluation of Manganese Oxide Nanoparticles for Photoacoustic and MR Imaging (Kyoto Univ.) KIMURA, Yu; SUGII, Hiroaki; KAMISUGI, Ryota; TOSHIMITSU, Akio; MATSUDA, Tetsuya; NARAZAKI, Michiko; KONDO, Teruyuki
- 1D3-19\*** Pre-diabetes model mice produced by systemic heterozygous knockout of GK (Department of Biotechnology and Life Science, Tokyo Univ. of Agriculture and Technology) SAITO, Mikako; IIDA, Ryosuke; SUGIYAMA, Tae; FUNABASHI, Hisakage; MATSUOKA, Hideaki

### Sunday, March 25, PM

Chair: HIFUMI, Emi (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1D3-28, 1D3-31, 1D3-32, 1D3-33)
- 1D3-28 CSJ Award for Young Chemists** Development of Three-Dimensional Tissue Models Based on Cell Manipulation Using Nano-Structured Polymeric Materials (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) MATSUSAKI, Michiya
- 1D3-31** External stimuli triggered release of inclusions by using modified antimicrobials (Graduate School of Engineering Osaka Univ.) MATSUMOTO, Kengo; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 1D3-32** Screening of transporters involved in porphyrin export after administration of 5-aminolevulinic acid *in vitro* (Tokyo Tech) MATSUMOTO, Kentaro; HAGIYA, Yuichiro; NAKAGAWA, Hiroshi; ISHIKAWA, Toshihisa; OKURA, Ichiro; OGURA, Shun-ichiro
- 1D3-33** Structure-activity relationship of self defense toxin ciliate climacostomum virens (Yonago National College of Technology) OOTANI, Kyoko; NOJIMA, Yukiko; URUMA, Yoshiyuki; FUJII, Yuzo; USUKI, Yoshinosuke; IIO, Hideo

#### Others

Chair: MIZUKAMI, Shin (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(1D3-49, 1D3-50, 1D3-51, 1D3-52, 1D3-53, 1D3-54)
- 1D3-49** Screening genes involved in biosynthesis of pigments at metagenomic library derived from marine sponge, *Halichondria okadai* (Univ. of Kanagawa; Faculty of Science) KUKITA, Akira; ABE, Takahiro; AKIYAMA, Kiyotaka; NAITOH, Takayuki; UEMURA, Daisuke
- 1D3-50** Screening genes involved in biosynthesis of pigments at metagenomic library derived from marine sponge, *Halichondria okadai* (Univ. of Kanagawa; Faculty of Science) ABE, Takahiro; KUKITA, Akira; AKIYAMA, Kiyotaka; NAITOH, Takayuki; UEMURA, Daisuke
- 1D3-51** Isolation and Identification of Gas-producing Microorganisms by Surface-plated Porous Glass Microspheres (Kagoshima Univ.) ENOKIZONO, Chisato; SAKODA, Yui; UEDA, Takehiko
- 1D3-52** Synthesis and solution properties of antimicrobial surfactants with dendritic peptides (Fukuoka Institute of Technology) KUWAHARA, Junko; WATANABE, Keiko; KATO, Tamaki
- 1D3-53** Synthesis and characterization of ornithine based peptide surfactants (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) WATANABE, Keiko; KUWAHARA, Junko; KATO, Tamaki
- 1D3-54** Construction of a Ratiometric Nanothermometer for Intracellular Imaging (Graduate School of Advanced Science & Engineering, Waseda Univ.) TAKEI, Yoshiaki; MURATA, Atsushi; ARAI, Satoshi; OYAMA, Kotaro; SUZUKI, Madoka; ISHIWATA, Shinichi; TAKEOKA, Shinji

Chair: TAKEOKA, Shinji (18 : 10~18 : 30)

- \* 18:00-18:10: interval for laptop PC connection.(1D3-56, 1D3-57)
- 1D3-56** Formation of polyaniline nanostructures by a focused laser beam and enzyme reaction (Dept. Appl. Phys., Osaka Univ.) YOSHIKAWA, Hiroyuki; UCHIGAKI, Ken; HIRONAKA, Takayuki; TAMIYA, Eiichi
- 1D3-57** Time-resolved fluorescence imaging with lanthanide complexes (Graduate school of engineering, Osaka Univ.) NAKAMURA, Tatsuya; MIZUKAMI, Shin; KIKUCHI, Kazuya

Monday, March 26, AM

Sugar

Chair: YUASA, Hideya (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2D3-01, 2D3-02, 2D3-03, 2D3-04, 2D3-06)

**2D3-01** Analysis of glycan structures and functions related to metastasis of human lung adenocarcinoma cells by saccharide primer method. (Keio Univ.) KONNO, Yusuke; FURUICHI, Yu; SATO, Toshinori

**2D3-02** Analysis of metastasis-related glycans and glycotransylferases in mouse osteosarcoma cells revealed by saccharide primer method (Keio Univ.; Shenyang Pharmaceutical Univ.) WANG, Yinan; YAMAGATA, Sadako; YAMAGATA, Tatsuya; SATO, Toshinori

**2D3-03** Synthesis of glycosaminoglycan-type oligosaccharides by saccharide primer method toward MPS disease diagnostics substrates (Keio Univ.) SHIBA, Keisuke; SATO, Toshinori

**2D3-04\*** Novel analytical procedure for serine/threonine modifications by  $\beta$ -elimination in the presence of pyrazolone analogues (Hokkaido Univ.; Graduate School of Advanced Life Science) FURUKAWA, Jun-ichi; FUJITANI, Naoki; ARAKI, Kayo; YAMADA, Shuhei; SUGAHARA, Kazuyuki; SHINOHARA, Yasuro

**2D3-06** Affinity Evaluation Between Glycopeptides Forming TripleHelix structure and Lectins by FluorescencePolarization (Tokyo Univ. of Technology) ISOBE, Chika; OKADA, Tomoko; MINOURA, Norihiko

Chair: MINOURA, Norihiko (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2D3-08, 2D3-10, 2D3-11, 2D3-12, 2D3-13)

**2D3-08\*** Paramagnetic-tagging for development of NMR conformational analyses of oligosaccharides (Institute for Molecular Science; Grad. Sch. of Pharm. Sci., Nagoya City Univ.; Univ. of Gothenburg; Max Planck Institute for Biophysical Chemistry) YAMAGUCHI, Takumi; YAMAMOTO, Sayoko; ERDELYI, Mate; GRIESINGER, Christian; KATO, Koichi

**2D3-10<sup>#</sup>** Synthesis of paramagnetic-tagged gangliosides for NMR analyses of their conformational dynamics (Institute for Molecular Science; The Graduate Univ. of Advanced Studies; Grad. Sch. of Pharm. Sci., Nagoya City Univ.) ZHANG, Ying; YAMAMOTO, Sayoko; YAMAGUCHI, Takumi; KATO, Koichi

**2D3-11** Synthesis of sugar-lanthanide nanoparticles emitting upconversion luminescence by NIR excitation (Tokyo Institute of Technology, Graduate School of Bioscience and Biotechnology) KOBAYASHI, Takuya; LIU, Yu; IIZUKA, Masayuki; SHIMOYAMA, Atsushi; YUASA, Hideya

**2D3-12** The binding analysis of sugar-chain immobilized fluorescent nanoparticles (Graduate School of Science and Engineering, Kagoshima Univ.) SHINCHI, Hiroyuki; SAKAMOTO, Masaya; NAGATA, Nonoka; WAKAO, Masahiro; MOCHIZUKI, Eiko; UEMATSU, Taro; KUWABATA, Susumu; SUDA, Yasuo

**2D3-13** Evaluation for toxicity of sugar-chain immobilized fluorescent nanoparticles (Graduate School of Science and Engineering, Kagoshima Univ.) WAKAO, Masahiro; NAGATA, Nonoka; SHINCHI, Hiroyuki; SAKAMOTO, Masaya; MOCHIZUKI, Eiko; UEMATSU, Taro; KUWABATA, Susumu; SUDA, Yasuo

Chair: KAJIHARA, Yasuhiro (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2D3-15, 2D3-16, 2D3-17, 2D3-18, 2D3-19, 2D3-20)

**2D3-15** Magnetic beads assisted mild enrichment procedure for exploring weak binding lectins (Department of Materials and Life Science, Seikei Univ.) MIYAZAWA, Haruka; ITO, Yukishige; TOTANI, Kiichiro

**2D3-16** Lectin screening under Liposome constructing micro-space (Department of Materials and Life Science, Seikei Univ.) SUZUKI, Yurie; MATSUSHIMA, Hikaru; TOTANI, Kiichiro

**2D3-17** Synthesis of dermatan sulfate partial disaccharide structures and their fabrication to Sugar Chips (Graduate School of Science and Engineering, Kagoshima Univ.) KAKITSUBATA, Yuhei; WAKAO, Masahiro; SUDA, Yasuo

**2D3-18** The carbohydrate-carbohydrate interactions of gangliosides as revealed by NMR spectroscopy (Institute for Molecular Science; Grad. Sch. of Pharm. Sci., Nagoya City Univ.; JST-CREST) UEKUSA, Yoshinori; KATO, Koichi

**2D3-19** NMR study of interactions between gangliosides and  $\alpha$ -synuclein by using glycolipid-containing bicelles (Institute for Molecular Science; Grad. Sch. Pharm. Sci., Nagoya City Univ.; JST-CREST) UNO, Tsuyoshi; YAGI, Maho; YAMAGUCHI, Takumi; KATO, Koichi

**2D3-20** Affinity Evaluation of Carbohydrate using Novel Ruthenium-Glycolipid (Tokyo Univ. of Technol. Graduate School of Bionics) TANOKURA, Daichi; IMAIZUMI, Ryuichi; OKADA, Tomoko; MINOURA, Norihiko

Monday, March 26, PM

Chair: WAKAO, Masahiro (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2D3-28, 2D3-29, 2D3-30, 2D3-31, 2D3-32)

**2D3-28** Specificity Analysis of Calreticulin, a Lectin-like Molecular Chaperone, Based on Thermal Shift Assay (Department of Materials and Life Science, Seikei Univ.) ADACHI, Yuka; ITO, Yukishige; TOTANI, Kiichiro

**2D3-29** Binding specificity of recombinant malectin toward synthetic high-mannose-type glycans (JST, ERATO) TAKEDA, Yoichi; SEKO, Akira; TOTANI, Kiichiro; MATSUO, Ichiro; ITO, Yukishige

**2D3-30** Functional analysis of endo-mannosidase using synthetic glycoprobes (Department of Materials and Life Science, Seikei Univ.) WATANABE, Chie; IWAMOTO, Shogo; TOTANI, Kiichiro

**2D3-31** Peptide specificity analysis of cytosolic PNGase (Department of Materials and Life Science, Seikei Univ.) ISHIHARA, Toshihiro; KUDO, Takaya; TOTANI, Kiichiro

**2D3-32\*** Structure of misfolded glycoprotein required for a substrate recognition of folding sensor enzyme UGGT (JST, ERATO Ito glycotriology PJ; Osaka Univ.; RIKEN ASI) IZUMI, Masayuki; DEDOLA, Simone; MAKIMURA, Yutaka; SEKO, Akira; KANAMORI, Akiko; ITO, Yukishige; KAJIHARA, Yasuhiro

Chair: MATSUO, Ichiro (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2D3-35, 2D3-36, 2D3-37, 2D3-38, 2D3-39, 2D3-40)

**2D3-35** Synthesis of saccharide primer having GalNAc-Thr core and sugar chain elongation reaction in cells (Keio Univ.) TAKAHASHI, Yoshihisa; KAWAKAMI, Hiroko; MIZUNO, Mamoru; SATO, Toshinori

**2D3-36** Glycohydrolysis mediated by jellyfish extract (Department of Materials and Life Science, Seikei Univ.) ORIHARA, Daisuke; NAKAMURA, Ryunosuke; USHIDA, Kiminori; TOTANI, Kiichiro

**2D3-37** Photodynamic Therapy using Near Infrared Rays (Tokyo Institute of Technology) WATASE, Hiroya ; IKEJIRI, Takuma; OGURA, Syunichiro; HAGIYA, Yuichiro; TAKAHASHI, Kiwamu; INOUE, Katsushi; TANAKA, Toru; SHIMOYAMA, Atsushi; YUASA, Hideya

**2D3-38** Comparative analysis of glycosphingolipids expressed in several human iPSC cells using LC-MS (Keio Univ.; Natl. Res. Inst. for Child Health and Dev.) SHIBATA, Eri; OJIMA, Takuma; NAKAJIMA, Hideki; TOYODA, Masashi; INOUE, Mayu; UMEZAWA, Akihiro; FUJIMOTO, Junichiro; SATO, Toshinori

**2D3-39** Analyses of Glycans Associated with Genome Replication of Hepatitis C Virus Using Saccharide Primer Method (Keio Univ.) YAMAGUCHI, Junya; KATANO, Naoya; SUZUKI, Tetsuro; SATO, Toshinori

**2D3-40** Synthesis of 3-deoxysugar as a scaffold for the chemo-enzymatic introduction of oligosaccharides into protein having no oligosaccharide by post-translational modification (Graduate School of Engineering, Tohoku Univ.) KOBAYASHI, Atsushi; KUMAGAI, Yuushi; SHODA, Shin-ichiro

Chair: TOTANI, Kiichiro (15 : 50~17 : 00)

\* 15:40-15:50: interval for laptop PC connection.(2D3-42, 2D3-43, 2D3-45, 2D3-46, 2D3-47, 2D3-48)

**2D3-42** Development of a boric acid sensor based on inositol and pyrene (Tokyo Institute of Technology) NAKAJIMA, Shinnosuke; SHIMOYAMA, Atsushi; YUASA, Hideya; YAMAGUTI, Masanori

**2D3-43\*** Synthesis and property of semi-artificial helical branched polysaccharides (Department of Nanoscience, Sojo Univ.) TAMARU, Shun-ichi; SHINKAI, Seiji

**2D3-45** Synthesis of branched B-1,3-glucan oligosaccharides as substrates for B-1,3-glucanase (Graduate School of Engineering, Nagoya Institute of Technology) MIYAGAWA, Atsushi; YAMAMURA, Hsuo

**2D3-46** Synthesis of N-glycan A-arm structures using C-2 hydroxyl group inversion (Gunma Univ.) IWAMOTO, Shogo; IINO, Kenta; ITO, Yukishige; MATSUO, Ichiro

**2D3-47** Withdrawn

**2D3-48** Synthesis of glycomimetic-critic acid conjugates as lectin ligands (Tokyo Institute of Technology) OSAWA, Sho; GANAHA, Satoshi; SHIMOYAMA, Atsushi; YUASA, Hideya

Tuesday, March 27, AM

Biocatalysis

Chair: KIRIMURA, Kohtaro (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(3D3-07, 3D3-08, 3D3-09, 3D3-10, 3D3-11, 3D3-12)

**3D3-07** Engineering the Promiscuous Racemase Activity of an Arylmalonate Decarboxylase (Keio Univ., Faculty of Sciences and Technology, Department of Biosciences and Informatics) KOURIST, Robert; YOSHIDA, Shosuke; MIYAMOTO, Kenji

**3D3-08** Improvement of the activity of (S)-selective Arylmalonate Decarboxylase variant by Structure-Guided directed evolution. (Keio Univ., Department of Biosciences and Informatics) ENOKI, Junichi; MIYAUCHI, Yusuke; YOSHIDA, Shosuke; MIYAMOTO, Kenji

**3D3-09** Asymmetric Domino Reaction by an Esterase from Sulfolobus tokodaii Strain 7 (Dept. of Biosciences and informatics, Keio Univ.) KUMON, Takashi; WADA, Reina; YOSHIDA, Syousuke; MIYAMOTO, Kenji

**3D3-10** A Method to Improve Enzyme Thermostability Using Support Vector Machines (Keio Univ., Faculty of Science and Technology, Department of

Biosciences and Informatics) TSUBAMOTO, Hitomi; MIYAMOTO, Kenji; YOSHIDA, Shosuke; YOKOTA, Masahiro; OKUZAWA, Soichiro; SAKAKIBARA, Yasufumi

**3D3-11** Dynamic Observation of Proton Transfer and Key Residues-Mn Complexation during Enzymatic Hydrolysis of ADP-Ribose (Osaka City Univ.) FURUIKE, Yoshihiko; AKITA, Yuka; MIYAHARA, Ikuko; KAMIYA, Nobuo

**3D3-12** Studies on the DKR reaction based on the use of solid acid and lipase-catalyzed reaction (Tottori Univ.) SHIMOMURA, Kenichi; HARAMI, Hiroyuki; HAYASE, Shuichi; KAWATSURA, Motoi; KATADA, Naonobu; ITOH, Toshiyuki

Chair: MIYAMOTO, Kenji (11:10~12:20)

\* 11:00-11:10: interval for laptop PC connection.(3D3-14, 3D3-15, 3D3-16, 3D3-17, 3D3-18, 3D3-20)

**3D3-14** Functional analysis of a type III polyketide synthase from *Aspergillus niger* NRRL 328 (Dept. Appl. Chem., Fac. Sci. Eng., Waseda Univ.) HAMACHI, Tatsuya; KOBAYASHI, Keiichi; HONDA, Yuki; KIRIMURA, Kohtarō

**3D3-15** Electrochemical regulation of metabolism activity of iron reducing bacteria *Shewanella* (The Univ. of Tokyo) MATSUDA, Shoichi; LIU, Huan; NAKANISHI, Shuji; HASHIMOTO, Kazuhito

**3D3-16** Lipase-catalyzed Regioselective Acylation of Polyphenols (2) (Konan Univ.) MIYAZAWA, Toshifumi; NISHIKAWA, Jun; DANJO, Hiroshi

**3D3-17** Dynamic Kinetic Resolution Using a Double Mutant of Lipase (Okayama Univ.) EMA, Tadashi; YOSHIDA, Daiki; NAKANO, Yasuko; KORENAGA, Toshiobu; SAKAI, Takashi

**3D3-18\*** The synthesis of the functional saponin using glucose transferase derived from plant cells (Faculty of sci., Okayama Univ. of Sci.) HAMADA, Hiroki; MATUMOTO, Masahiro; SIMODA, Kei; KUBOTA, Naoki; OZAKI, Shintii; NAKAYAMA, Tooru

**3D3-20** Enzymatic Synthesis of Menthyl Maltoside Exhibiting Properties as a Low Molecular Weight Gelator (Dept. Appl. Chem., Fac. Sci. Eng., Waseda Univ.) IDE, Kohei; UMEZAWA, Satoru; KOBAYASHI, Keiichi; HONDA, Yuki; KIRIMURA, Kohtarō

## Tuesday, March 27, PM

### Lipid

Chair: TAKAGI, Masahiro (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(3D3-28, 3D3-29, 3D3-30, 3D3-32)

**3D3-28** Location of fullerene incorporation in lipid membranes (Graduate School of Materials Science, Nara Institute of Science and Technology) KIGUCHI, Kazuya; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi; OGAWA, Takuya; TAKEYA, Tatsuo

**3D3-29** Bicelles formation by the addition of fullerenes at low lipid concentrations (Graduate School of Materials Science, Nara Institute of Science and Technology) IKEDA, Atsushi; KIGUCHI, Kazuya; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi

**3D3-30\*** Biomembrane Interference: Conformational Change of Single-stranded RNAs Induced by Liposome Binding "LIPOzyme(XIII)" (Osaka Univ.) SUGA, Keishi; SHIMANOUCI, Toshinori; UMAKOSHI, Hiroshi

**3D3-32\*** Isolation and characterization of novel glycosylceramides from marine microalgae (Inst. Engr., Tokyo Univ. Agri. Tech.) LIANG, Yue; ARAKAKI, Atsushi; IWAMA, Daisuke; TANAKA, Tsuyoshi; MATSUNAGA, Tadashi

Chair: UMAKOSHI, Hiroshi (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(3D3-35, 3D3-37, 3D3-38, 3D3-39)

**3D3-35\*** Molecular Signal-Induced Budding and Fission of Artificial Cell Membranes (Grad. School of Mater. Sci., Nara Inst. of Sci. and Technol.) TAHARA, Keishiro; HAO, Fei; YASUHARA, Kazuma; KIKUCHI, Jun-ichi

**3D3-37** Phase separation and membrane curvature in charged lipid vesicles (Japan Advanced Institute of Science and Technology) HIMENO, Hiroki; HAMADA, Tsutomu; TAKAGI, Masahiro

**3D3-38** Molecular behavior of DNA in cell-sized lipid vesicles (Japan Advanced Institute of Science and Technology) FUJIMOTO, Rie; HAMADA, Tsutomu; TAKAGI, Masahiro

**3D3-39\*** Fabrication of quantum dots embedded lipid tubules by membrane tubulation protein (Inst. Engr., Tokyo Univ. Agri. Tech.; Sch. Phys. & Astron., Univ. Leeds) TANAKA, Masayoshi; CRITCHLEY, Kevin; EVANS, Stephen; STANILAND, Sarah; MATSUNAGA, Tadashi

Chair: KIKUCHI, Jun-Ichi (15:50~16:50)

\* 15:40-15:50: interval for laptop PC connection.(3D3-42, 3D3-43, 3D3-44, 3D3-46)

**3D3-42** Chiral Recognition of L-Amino Acid by L-Liposome "LIPOzyme (XIV)" (Osaka Univ.) UMAKOSHI, Hiroshi; ISHIGAMI, Takaaki

**3D3-43** <sup>2</sup>H Solid State NMR studies on the mobility of sphingomyelin (Univ. of Osaka) YASUDA, Tomokazu; YAMAGUCHI, Toshiyuki; DOI, Mototsugu; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio

**3D3-44\*** NMR-based conformational analysis of sphingomyelin in lipid rafts (Osaka Univ.) YAMAGUCHI, Toshiyuki; MAETA, Yoshiko; MATSUMORI, Nobuaki; MURATA, Michio

**3D3-46\*** Thermo tropism of membrane and liquid crystal containing cholesterol derivatives (School of Materials Science Japan Advanced Institute of Science and Technology (JAIST)) YODA, Tsuyoshi; VESTERGAARD, Mun'delanj C; HAMADA, Tsutomu; Thi Minh, Le Phuc; TAKAGI, Masahiro

Chair: SERIZAWA, Takeshi (17:00~18:00)

\* 16:50-17:00: interval for laptop PC connection.(3D3-49, 3D3-50, 3D3-51, 3D3-52, 3D3-53, 3D3-54)

**3D3-49** Correlation between Membrane Composition and Mode of Division in Giant Vesicle-based Model Procell (Graduate School of Arts and Sciences, The Univ. of Tokyo) KAN, Yumi; KURIHARA, Kensuke; TOYOTA, Taro; IMAI, Masayuki; SUGAWARA, Tadashi

**3D3-50** Vesicular fusion by controlling membrane surface for transportation (The Univ. of Tokyo) KURIHARA, Kensuke; SUZUKI, Kentaro; TOYOTA, Taro; SUGAWARA, Tadashi

**3D3-51** Design and characterization of gemini surfactants including peptide moiety (Grad. School Eng., Nagoya Inst. Tech.) UMEZAKI, Katsunari; MIZUNO, Toshihisa; SAKAI, Shunsuke; KOEDA, Shuhei; DEWA, Takehisa; YAMAMOTO, Yasushi; TAGA, Keiji; TANAKA, Tosiki; SUGIYASU, Kazunori; TAKEUCHI, Masayuki

**3D3-52** Systematic Evaluation of Antioxidant Activity of Fullerenols against Lipid Peroxyl Radical and its Mechanistic Investigation (Graduate School of Engineering, Osaka Univ.) UENO, Hiroshi; NAKAMURA, Yuji; KOKUBO, Ken; AOSHIMA, Hisae; OSHIMA, Takumi

**3D3-53** Development of a supported phospholipid bilayer system for the visualization of proton flow coupled with the rotation in FoF1-ATP synthase (fac. of sci. and eng., Waseda Univ.) KASUYA, Yuzo; SOGA, Naoki; SUZUKI, Toshiharu; YOSHIDA, Masasuke; KINOSITA, Kazuhiko

**3D3-54** Protein Kinase Assay with Cell-Penetrative Polymers and a Fluorogenic Liposome (Ryukoku Univ.; Univ. of Geneva) MIYATAKE, Tomohiro; ISOTANI, Yuji; MURATA, Hiroto; MATILE, Stefan

## Wednesday, March 28, AM

### Biotechnology

Chair: TANAKA, Tsuyoshi (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4D3-01, 4D3-02, 4D3-03, 4D3-04, 4D3-05, 4D3-06)

**4D3-01\*** Chemical Modification of Bacterial Cells Surface (Mahidol Univ. Thailand) MANOPWISEDJAE, Rong; WONGKONGKATEP, Jirarut

**4D3-02** Development of multilayer molecular biosolar cells - Fabrication of alternate adsorption film electrodes consisting of photoconductors and enzymes - (Kogakuin Univ.) HORIUCHI, Tomoya; ABURAI, Nobuhiro; ABE, Katsuya

**4D3-03** The detection of AFP utilizing a microfluidic disk for ELISA (Soka Univ.) SAITO, Tsubasa; FURUTANI, Shunsuke; KUBO, Izumi

**4D3-04** Surface flow velocimetry using multi-channel surface plasmon resonance measurement (NTT Microsystem Integration Laboratories) IWASAKI, Yuzuru; SEYAMA, Michiko; HORIUCHI, Tsutomu; MIURA, Toru; INOUE, Suzuyo; HAYASHI, Katsuyoshi; TAMECHIKA, Emi

**4D3-05** Measurement of Peroxidase activity based on the hemin binding DNAzyme-modified electrode (Soka Univ.) EGUCHI, Taiga; LIU, Mingzhe; ABE, Hiroshi; ITO, Yoshihiro; KUBO, Izumi

**4D3-06** Monitoring of viable bacteria count by using rapid handheld electrochemical sensor (Dept. Appl. Phys., Osaka Univ.) IKEUCHI, Tomohiko; YAMANAKA, Keiichi; SAITO, Masato; YOSHIKAWA, Hiroyuki; TAMIYA, Eiichi

Chair: ABE, Katsuya (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4D3-08, 4D3-10, 4D3-12, 4D3-13)

**4D3-08\*** Investigation of oil accumulation in *Fistulifera* sp. strain solaris based on RNA-seq analysis (Inst. Engr., Tokyo Univ. Agri. Tech.) NEMOTO, Michiko; SUNAGA, Yoshihiko; MUTO, Masaki; MATSUMOTO, Mitsufumi; TANAKA, Masayoshi; YOSHINO, Tomoko; ARAKAKI, Atsushi; MATSUNAGA, Tadashi; TANAKA, Tsuyoshi

**4D3-10\*** Detection of expressed gene in isolated single cells on the Compact Disk (CD)-shaped device by a novel hot cell-direct RT-PCR (Soka Univ.) FURUTANI, Shunsuke; NAGAI, Hidenori; TAKAMURA, Yuzuru; AOYAMA, Yuri; KUBO, Izumi

**4D3-12** Fabrication of plasmon biochip by using nano-imprint technology (Department of Applied Physics, Osaka Univ.) KITAMURA, Akito; SAITO, Masato; MURAHASHI, Mizuho; TAMIYA, Eiichi

**4D3-13** Inhibition of influenza A virus infection by peptide nucleic acid (ISIR, Osaka Univ.) KANNO, Takashi; KATO, Nobuo; KAIHATSU, Kunihiro

## Bioinformatics

Chair: SAITO, Masato (11:20~11:50)

\* 11:10-11:20: interval for laptop PC connection.(4D3-15, 4D3-17)

- 4D3-15\*** DNA logic gate coupled with cell-free expression of green fluorescent protein (CLAS, Kitasato Univ.; ISS, Univ. Tokyo) NOJIMA, Takahiko; YAMAMOTO, Takatoki; KIMURA, Hiroshi; FUJII, Teruo  
**4D3-17** Antisense-induced guanine quadruplex formation (ISIR, Osaka Univ.) HAGIHARA, Masaki; NAKATANI, Kazuhiko

# Room D4

4th Bldg. Independence Wing D306

## Biofunctional Chemistry ; Biotechnology

Sunday, March 25, PM

### nucleic acid

Chair: WADA, Takeshi (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(1D4-28, 1D4-29, 1D4-30, 1D4-31, 1D4-32, 1D4-33)

- 1D4-28** Synthesis and triplex formation properties of oligonucleotides containing 4-O-(aminoethyl)uridine derivatives (Tokyo Institute of Technology Graduate School of Bioscience and Biotechnology) ITO, Yu; YAMADA, Kenji; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo  
**1D4-29** Base pairing properties of deoxypseudoisocytidine incorporated into DNA duplexes and triplexes (Tokyo Institute of Technology, Life Science) KANAMORI, Takashi; YAMAGUCHI, Kei; HIROTSUKE, Tsunoda; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji  
**1D4-30** Observation of the hybridization of 19F labeled DNA at the phosphate group (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) NAGAO, Yasutaka; SAKAI, Masahiro; KAWASAKI, Takayoshi; OKAHATA, Yoshio  
**1D4-31** Design of stemless linear probe with high sensitivity (Nagoya Univ.) ASANUMA, Hiroyuki; AKAHANE, Mariko; KONDO, Nobuyuki; OSAWA, Takuya; KATO, Tomohiro; KASHIDA, Hiromu  
**1D4-32** Functionalization of acyclic nucleic acids aTNA and SNA by the conjugation with dyes. (Nagoya Univ.) MURAYAMA, Keiji; TODA, Takasuke; KASHIDA, Hiromu; ASANUMA, Hiroyuki  
**1D4-33** Lighting-up of fluorescently-labeled DNA probes by using insulator. (Nagoya Univ.) HIGASHIYAMA, Naofumi; SEKIGUCHI, Koji; KASHIDA, Hiromu; ASANUMA, Hiroyuki

Chair: ASANUMA, Hiroyuki (17:00~18:00)

\* 16:50-17:00: interval for laptop PC connection.(1D4-49, 1D4-50, 1D4-52, 1D4-53, 1D4-54)

- 1D4-49** Synthesis and triplex formation properties of oligonucleotides containing 6-thiopurine and 4-thiopyrimidine derivatives (Tokyo Institute of Technology) HATTORI, Yusaku; INDE, Takeshi; YAMADA, Kenji; ITO, Yu; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo  
**1D4-50\*** Transcription efficiencies of T7 promoters incorporating modified nucleosides and transcription inhibition by use of triple-helix formation (Tokyo Institute of Technology, Life Science) KANAMORI, Takashi; SAITO, Masanori; YAMAGUCHI, Kei; HIROTSUKE, Tsunoda; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji  
**1D4-52** Synthesis and fluorescent properties of modified DNA probe bearing silylated pyrene moieties at 2'-position of deoxycytidine (Gunma Univ.) SUGIYAMA, Ayaka; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo  
**1D4-53** Synthesis and properties of 2'-O-fluoroethoxymethyl RNA (The Univ. of Tokyo) WADA, Takeshi; KAGEYAMA, Masayuki; ARAI, Kouichirou; UCHIYAMA, Naoki  
**1D4-54** Reversible modification of oligodeoxynucleotides: click reaction at phosphate group and alkali treatment (Graduate School of Engineering, Kyoto Univ.) ANDO, Yuichiro; TANABE, Kazuhito; NISHIMOTO, Sei-ichi

Monday, March 26, AM

### nucleic acid

Chair: SAITO, Yoshio (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(2D4-01, 2D4-02, 2D4-03, 2D4-04, 2D4-05, 2D4-06)

- 2D4-01** Stereocontrolled synthesis of boranophosphate DNA by the boranophosphotriester approach (Univ. of Tokyo) UCHIYAMA, Naoki; WADA, Takeshi  
**2D4-02** Stereocontrolled synthesis of 2'-O-Me H-phosphonate RNAs and their transformation reactions (The Univ. of Tokyo) TAKEMURA,

Tetsuhiko; NUKAGA, Yohei; IWAMOTO, Naoki; OKA, Natsuhisa; WADA, Takeshi

- 2D4-03** Synthesis and properties of stereo-defined boranophosphate RNAs (Univ. of Tokyo) ITAMIYA, Hiromi; MURAYAMA, Ryuji; SATO, Kazuki; WADA, Takeshi  
**2D4-04** Synthesis and sequence-specific cleavage activity of the modified triplex forming oligonucleotides having the metal chelator-intercalator (Gunma Univ.) AKISAWA, Takuya; KAMIMURA, Mariko; MORIGUTI, Tomohisa; SHINODUKA, Kazuo  
**2D4-05** Synthesis and properties of new triplex forming oligonucleotides containing aminonaphthridine derivatives (Tokyo Institute of Technology) YAMADA, Kenji; HATTORI, Yusaku; ITO, Yu; INDE, Takeshi; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo  
**2D4-06** Synthesis and Evaluation of cross-link forming pyrimidine derivatives with modified sugar moiety (Institute of Multidisciplinary Research for Advanced Materials Tohoku Univ.) KUSANO, Shuhei; HAGIHARA, Shinya; MOKI, Takuma; NATSUGI, Humi

Chair: SHINOZUKA, Kazuo (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(2D4-08, 2D4-10, 2D4-11, 2D4-12, 2D4-13)

- 2D4-08\*** Gene regulation by crosslink formation of functional oligonucleotides to RNA (Tohoku Univ.; IMRAM) HAGIHARA, Shinya; KUSANO, Shuhei; CHAO, Xiao-guang; IWAMOTO, Nao; NAGATSUGI, Fumi  
**2D4-10** Development of a new method for the synthesis of modified nucleosides using microflow reactors (Tokyo Institute of Technology, Department of life-science) TAGO, Nobuhiro; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo  
**2D4-11** Synthesis and fluorescent properties of the uridine derivative incorporating 3-methylbenzofuran (Tokyo Institute of Technology) KANAMORI, Takashi; OHZEKI, Hiroki; TOKUGAWA, Munehumi; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji  
**2D4-12** Synthesis and photophysical properties of substituted C8-arylethynylated 2'-deoxyadenosine derivatives (Nihon Univ) OKADA, Yuji; TAKAHASHI, Naoya; KUWABARA, Takuya; YOKOYAMA, Syota; SAITO, Isao; SAITO, Yoshio  
**2D4-13** Synthesis and photophysical properties of novel fluorescent 7-deaza-2'-deoxypurine nucleosides (Nihon Univ.) SUZUKI, Azusa; ISHIOROSHI, Shinya; YANABA, Takumi; KUDO, Yuya; SAITO, Isao; NEMOTO, Nobukatsu; SAITO, Yoshio

Chair: NAGATSUGI, Fumi (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(2D4-15, 2D4-16, 2D4-17, 2D4-18, 2D4-20)

- 2D4-15** Developed synthesis method of 3'-terminally-aminated RNA and their hybridization properties (Tokyo Institute of Technology Graduate School of Bioscience and Biotechnology) IJIMA, Yoshihiro; YOSHIOKA, Miki; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji  
**2D4-16** Photochemical Properties of DNA Duplex Containing Multiple Nucleobase Analogs (Nihon Univ.) TANAKA, Makiko; OGUMA, Kazuhiro; KOZAKAI, Ryota; SAITO, Yoshio; SAITO, Isao  
**2D4-17** Photoreaction of DNA in Z-form which contains guanosine and 5-halouracil (Kyoto Univ.) KANESATO, Shuhei; SANNOHE, Yuta; TASHIRO, Ryu; MORINAGA, Hironobu; SUGIYAMA, Hiroshi  
**2D4-18\*** Photoreaction of 5-Bromouracil in RNA (Kyoto Univ. department of chemistry) MORINAGA, Hironobu; SANNOHE, Yuta; KANESATO, Shuhei; SUGIYAMA, Hiroshi  
**2D4-20** Determination of nucleobases incorporated opposite an oxidative guanine damage by DNA polymerase delta (Tokushima Bunri Univ.) SUZUKI, Masayo; MORIKAWA, Masayuki; KOBAYASHI, Takanobu; KOMORI, Rie; MIYAZAWA, Hiroshi; KINO, Katsuhito

Monday, March 26, PM

### Protein

Chair: TAKAHASHI, Tsuyoshi (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(2D4-28, 2D4-29, 2D4-30, 2D4-31, 2D4-33)

- 2D4-28** Simultaneous detection system of multiple pathogenic bacteria using luciferase-fused Zinc finger protein (Tokyo Univ. of Agric. & Technol.) KEZUKA, Aki; HIRAOKA, Daisuke; SHIMURA, Noriaki; IKEBUKURO, Kazunori  
**2D4-29** Develop high sensitive VEGF detection by luciferase fused Zinc finger protein (Tokyo Univ. of Agric. & Technol.) IKEBUKURO, Kazunori; SUMIDA, Koichi; KEZUKA, Aki; TATSUMI, Atsuro; HIRAOKA, Daisuke; ABE, Koichi  
**2D4-30** Construction of a signal transducing system inspired by a natural sensor protein (Grad. Sch. Sci., Nagoya Univ.;RCMS, Nagoya Univ.) NAKAJIMA, Hiroshi; MIYAZAKI, Soushi; WATANABE, Yoshihito  
**2D4-31\*** Construction and functionalization of Azurin-modified electrode using site-specific sequential modification (Research Center for Materials Science, Nagoya Univ.; Nagoya Univ.) MIYAZAKI, Soushi; NAKAJIMA, Hiroshi; WATANABE, Yoshihito  
**2D4-33** Genome wide screening of novel fructosyl peptide oxidases based on

the motif analyses (Tokyo Univ. of Agric. and Technol.) NIBE, Eri; KOJIMA, Katsuhiko; KAMIO, Eri; MIYAMOTO, Yusuke; FERRI, Stefano; TSUGAWA, Wakako; SODE, Koji

Chair: SODE, Koji (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2D4-35, 2D4-37, 2D4-38, 2D4-39, 2D4-40)
- 2D4-35\*** One-pot biofabrication of antibody-immobilized gold nanoparticle using protein fused with gold binding peptide (JAEA) SHIMOJO, Kojiro; NIIDE, Teppei; TAGUCHI, Tomitsugu; KAMIYA, Norihiro; GOTO, Masahiro; NAGANAWA, Hirochika
- 2D4-37** Characterization of the snake protein from the crude venom of *Naja atra* (Taiwan cobra) that inhibits binding of human fibrosarcoma cells (HT-1080) to type IV collagen (Univ. of Kogakuin ; Animal Cell Technology laboratory) TOHYAMA, Takeshi; SIN, Yongchol; SEKIGUCHI, Yasuyuki; SETO, Ryouko; IMAMURA, Yasutada
- 2D4-38** Preparation and Functional analysis of the Catalytic Region of Guanylate Cyclase C. (Graduate School of Science and Engineering of Kinki Univ.) SHIMAMOTO, Hiroaki; HIDAKA, Yuji
- 2D4-39** The artificial blood vessel that mimics *in vivo* environment. Morphology and function of vascular endothelial cells cultured in long-term on the aggregates of type IV collagen. (Univ. of Kogakuin; Animal Cell Technology . Ltd) MATSUSHITA, Yu; SHIN, Yongchol; IMAMURA, Yasutada; SAKAKIBARA, Yui
- 2D4-40** Application of an electrochemical simultaneous detection of protease activities connected with periodontal disease (Kyushu Institute of Technology) NAGATA, Shinichiro; SATO, Shinobu; NAGAYOSHI, Masato; KITAMURA, Chiaki; NISHIHARA, Tatsuji; TAKENAKA, Shigeori

Chair: MATSUBARA, Teruhiko (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2D4-42, 2D4-43, 2D4-45, 2D4-46, 2D4-47)
- 2D4-42** Preparation and characterization of a thermostable alcohol dehydrogenase-immobilized electrode (Tokyo Univ. of Agriculture & Technology) KONTANI, Aya; MASUDA, Miyuki; NAKAMURA, Nobuhumi; YOHTA, Masahumi; OHNO, Hiroyuki
- 2D4-43\*** Substrate/Product-targeted NMR in Application to Direct Monitoring of Targeted Metabolic Reactions and Its Inhibition by a Clinical Drug (Advanced Biomedical Engineering Research Unit, Kyoto Univ.) YAMADA, Hisatsugu; MIZUSAWA, Keigo; IGARASHI, Ryuji; TOCHIO, Hidehito; SHIRAKAWA, Masahiro; TABATA, Yasuhiko; KIMURA, Yu; KONDO, Teruyuki; AOYAMA, Yasuhiro; SANDO, Shinsuke
- 2D4-45** Effect of copper ion against the fibril growth on liposome membranes (Osaka Univ.) SHIMANOUCHI, Toshinori; KITAURA, Nachi; ONISHI, Ryo; UMAKOSHI, Hiroshi; KUBOI, Ryoichi
- 2D4-46** Construction of fluorescent proteins presenting a C-terminal region of amyloid  $\beta$ -peptide (ASRLD Unit, Gunma Univ.) TAKAHASHI, Tsuyoshi
- 2D4-47** Functional investigation of self-assembled protein tagged enzyme molecules on a solid surface (Kyushu Institute of Technology) TAKATSUJI, Yoshiyuki; YAMASAKI, Ryota; IWANAGA, Atsushi; HARUYAMA, Tetsuya

## Tuesday, March 27, AM

### Protein (Protein Engineering)

Chair: MIE, Masayasu (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3D4-01, 3D4-02, 3D4-04, 3D4-06)
- 3D4-01** Control of hemolytic activity of *Staphylococcus aureus*  $\alpha$ -hemolysin by synthetic molecules (Tohoku Univ.; Institute of Multidisciplinary Research for Advanced Materials) HARIMA, Kosuke; UI, Mihoko; TANAKA, Yoshikazu; ISHII, Noriyuki; KINBARA, Kazushi
- 3D4-02\*** Conformational Change with intramolecular proton transfer in visible fluorescent protein studied by single molecule fluorescence spectroscopy at 1.5 K (Tokyo Institute of Technology; The Graduate School for the Creation of New Photonics Industries; Toho Univ.) FUJIWARA, Masanori; HIRANO, Mitsuharu; WATANABE, Masakatsu; ISEKI, Mineo; FUJIYOSHI, Satoru; MATSUSHITA, Michio
- 3D4-04\*** Single-protein measurement of Infrared-induced structural change of a pigment binding site. (Tokyo Institute of Technology; Nagoya Institute of Technology) OTOMO, Kohei; DEWA, Takehisa; MATSUSHITA, Michio; FUJIYOSHI, Satoru
- 3D4-06** Phospholigand-dependent labeling of human 14-3-3 proteins in cells by fusicoccin analogs (ISIR, Osaka Univ.) TAKAHASHI, Michiko; KAWAMURA, Aki; KATO, Nobuo; NISHI, Tsuyoshi; HAMACHI, Itaru; OHKANDA, Junko

Chair: YOSHINO, Tomoko (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3D4-08, 3D4-09, 3D4-11, 3D4-12, 3D4-13)
- 3D4-08** Functional Coordination Synthesis in Protein Crystal Spaces (iCeMS, Kyoto Univ., Grad. Sch. of Kyoto Univ.) TABE, Hiroyasu; ABE, Satoshi; KITAGAWA, Susumu; UENO, Takafumi

- 3D4-09\*** Preparation of protein nanotube for control of cell functions (Grad. Sch. Engn. Kyoto Univ.iCeMS, Kyoto Univ.Grad. Sch. Biosci. and Biotech. Tokyo Inst. Tech.) INABA, Hiroshi; SANGHAMITRA, Nusrat; ABE, Satoshi; KANAMARU, Shuji; ARISAKA, Fumio; KITAGAWA, Susumu; UENO, Takafumi
- 3D4-11** Preparation of polythiophene nano-particle using amphiphilic proteins (Nagoya Inst. of Tech.) UKON, Takuya; MIZUNO, Toshihisa; KONDO, Masaharu; DEWA, Takehisa; TANAKA, Tosiki; SUGIYASU, Kazunori; TAKEUCHI, Masayuki
- 3D4-12** Structure Control of Cage-shaped Protein, Ferritin, by External Stimuli (Research Center for Materials Science, Nagoya Univ.) FUKUSHIMA, Takashi; WATANABE, Yoshihito
- 3D4-13** Metal-ion responsive encapsulation and release of guest molecules in ferritin cage (Grad. Sch. Sci. Nagoya Univ., RCM Sci., Nagoya Univ.) SUGI, Naoki; FUKUSHIMA, Takashi; WATANABE, Yoshihito

Chair: TAKI, Masayasu (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3D4-15, 3D4-17, 3D4-19, 3D4-20)
- 3D4-15\*** A Novel Method for Expanded Saturation Mutagenesis of Proteins using Amber Suppression (School of Materials Science, JAIST) WATANABE, Takayoshi; SHOZEN, Naoki; MINEURA, Toshiya; HOHSAKA, Takahiro
- 3D4-17\*** Synthesis of BRET/FRET Protein Probes by Incorporation of Fluorescent Amino Acids and Fusion Expression with Light-Emitting Proteins (School of Materials Science, JAIST) YAMAGUCHI, Atsushi; HOHSAKA, Takahiro
- 3D4-19** Protein labeling with acyl transfer chemistry (1) : Development of fluorescence sensor on living cell by acyl imidazole labeling reagent (Graduate School of Engineering, Kyoto Univ.) MIKI, Takayuki; FUJISHIMA, Shohei; YASUI, Ryouke; OJIDA, Akio; HAMACHI, Itaru
- 3D4-20** Protein labeling with acyl transfer chemistry (2) : Efficient <sup>19</sup>F-labeling with acyl imidazole labeling reagent (Graduate School of Engineering, Kyoto Univ.) KIOI, Yoshiyuki; TAKAOKA, Yousuke; ARITA, Kyohai; ARIYOSHI, Mariko; SHIRAKAWA, Masahiro; HAMACHI, Itaru

## Tuesday, March 27, PM

Chair: HOHSAKA, Takahiro (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(3D4-35, 3D4-36, 3D4-37, 3D4-39)
- 3D4-35** Protein Labeling by Acyl Transfer Chemistry (3) Optimization of labeling reagent structures (Graduate School of Engineering, Kyoto Univ.) HASHIMOTO, Yuki; KATSUMA, Nozomi; FUJISHIMA, Shohei; TAKAOKA, Yousuke; HAMACHI, Itaru
- 3D4-36** Protein labeling with acyl transfer chemistry(4): Preparation of catalyst conjugated lectin and on-cell labeling (Graduate School of Engineering, Kyoto Univ.) HAYASHI, Takahiro; SUN, Yedi; TAKAOKA, Yousuke; HAMACHI, Itaru
- 3D4-37\*** SIRT2 inhibitor peptides developed by using a non-standard peptide screening technology, RaPID system (Univ. of Tokyo, Engineering) MORIMOTO, Jumpei; HAYASHI, Yuuki; SUGA, Hiroaki
- 3D4-39\*** Development of hepatocyte growth factor receptor c-Met binding peptide using RaPID system (Grad. School of Science, Univ. of Tokyo) ITO, Kenichiro; SUGA, Hiroaki

### Protein (Peptide)

Chair: OKAHATA, Yoshio (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(3D4-42, 3D4-45, 3D4-46, 3D4-47)
- 3D4-42** Young Scholar Lectures of CSJ Side-chain cross-linked short  $\alpha$ -helices for regulating protein-protein interactions (Department of Applied Chemistry and Biochemistry, Kyushu Sangyo Univ.) FUJIMOTO, Kazuhisa
- 3D4-45** Creation of a New  $\alpha/\beta/\gamma$ -Peptide Foldamer that Forms  $\alpha$ -Helix-like Conformation in Water (Univ. of Wisconsin-Madison, Dept. of Chemistry) SAWADA, Tomohisa; GELLMAN, Samuel
- 3D4-46** Incorporation of beta-amino acids into peptides in cell-free translation system (Univ. of Tokyo; Graduate School of Arts and Sciences) FUJINO, Tomoshige; MURAKAMI, Hiroshi
- 3D4-47** Quick display: a simple method for selection of target-binding peptides (The Univ. of Tokyo) ISHIZAWA, Takahiro; MURAKAMI, Hiroshi
- Chair: TERAZIMA, Masahide (17 : 00~18 : 00)
- \* 16:50-17:00: interval for laptop PC connection.(3D4-49, 3D4-51, 3D4-52, 3D4-53, 3D4-54)
- 3D4-49\*** Synthesis and Fluorescent-labeling of Length-tunable Bivalent-type CXCR4 Ligands and Their Application (Tokyo Medical and Dental Univ.; IBB) AIKAWA, Haruo; NOMURA, Wataru; NARUMI, Tetsuo; TANAKA, Tomohiro; TAMAMURA, Hirokazu
- 3D4-51** Development of selective protein labeling method using helix-type D2 tag (Graduate school of Pharmaceutical Sciences, Kyushu Univ.) TANI, Kazushi; KIDO, Munetugu; NAKAZONO, Manabu; OJIDA, Akio
- 3D4-52** Exploration of bio-conjugate reactions of cysteine for selective protein

labeling (Graduate school of Pharmaceutical Sciences, Kyushu Univ.)

KIDO, Munetsugu; TANI, Kazushi; NAKAZONO, Manabu; OJIDA, Akio

**3D4-53** Development of transient peptide inhibitor for p53 transcriptional activity (Hokkaido Univ.; Fac. of Sci.; Dept. of Chem.) WADA, Junya; KAMADA, Rui; CHUMAN, Yoshiro; IMAGAWA, Toshiaki; SAKAGUCHI, Kazuyasu

**3D4-54** Selection and Evaluation of Non-standard Cyclic Peptide Inhibitors against JMJD2A (The Univ. of Tokyo, Graduate School of Science) KOJIMA, Tatsuya; MORIMOTO, Jumpei; KATO, Takayuki; SCHOFIELD, C. J.; SUGA, Hiroaki

### Wednesday, March 28, AM

#### Protein (Peptide)

Chair: SAGA, Yoshitaka (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4D4-01, 4D4-03, 4D4-04, 4D4-06)

**4D4-01\*** Synthesis of novel RNA binding peptides with various backbone structures (Univ. of Tokyo) MAEDA, Yusuke; IWATA, Rintaro; WADA, Takeshi

**4D4-03** Synthesis and Evaluation of Cys Cyclic Pyrrole-imidazole Polyamide for Sequence-specific Recognition in DNA (Graduate School of Science, Kyoto Univ.) YAMAMOTO, Makoto; MORINAGA, Hironobu; BANDO, Toshikazu; SUGIYAMA, Hiroshi

**4D4-04\*** Analysis of interactions of DNAs and helical peptides possessing structure-regulable regions at their N-termini (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) KAJINO, Masaaki; FUJIMOTO, Kazuhisa; INOUE, Masahiko

**4D4-06** Development of artificial designed short peptides that interact with an anti-apoptotic protein Bcl-xL (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) NOGAMI, Kagayaki; TAKAHAMA, Kentaro; KAJINO, Masaaki; FUJIMOTO, Kazuhisa; OYOSHI, Takanori; INOUE, Masahiko

Chair: INOUE, Masahiko (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4D4-08, 4D4-09, 4D4-10, 4D4-12, 4D4-13)

**4D4-08** Synthesis and properties of peptidyl-alendronic acid (Faculty of Science, Fukuoka Univ.; Faculty of Pharmaceutical, Fukuoka Univ.; Biochemistry and Food Science, Saga Univ.) KUBO, Yurika; YUKAWA, Miho; IKEDA, Hirohito; UEDA, Toshihisa; AKI, Hatsumi; ANDO, Setsuko

**4D4-09** Molecular Evolution of Ganglioside GM1-binding Peptides Using a Random Mutagenesis Phage Library (Keio Univ.) KATO, Hiroki; MATSUBARA, Teruhiko; SATO, Toshinori

**4D4-10\*** Identification of a receptor for R12 peptide responsible for efficient cellular internalization (Inst. for Chem. Res., Kyoto Univ.) TANAKA, Gen; KAWAGUCHI, Yoshimasa; NAKASE, Ikuhiko; FUKUDA, Yasunori; HATANAKA, Yasumaru; FUTAKI, Shiroh

**4D4-12** Penetration of oligoarginine peptides possessing the chlorine moiety in a side chain to cancer cells and their PDT activities (Kinki Univ.) SAGA, Yoshitaka; IKEJI, Yumi; WAKAMIYA, Tateaki; IWAMORI, Masao

**4D4-13** Synthesis of Oligopeptides Linked with Chlorophyll Moiety by Hydrocarbon Linker (Kinki Univ.) SAGA, Yoshitaka; NAGATA, Shogo

Chair: TOMIZAKI, Kin-Ya (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4D4-15, 4D4-17, 4D4-18, 4D4-19)

**4D4-15\*** Analysis of amyloid fibrillation of tau derived peptides (Institute of advanced energy, Kyoto Univ. and Univ. of Fukui Faculty of Medical Science) NAKATA, Eiji; YOSHIDA, Hiroo; KONNO, Takashi; MORII, Takashi

**4D4-17** Elucidation of Amyloid Beta Protein Aggregation by New Peptidomimetics (Iwate Medical Univ.; Iwate Univ.) KAWANO, Tomikazu; IKEUCHI, Kousuke; OGAWA, Satoshi

**4D4-18** Functional analysis of peptide nanofiber with a chaperon-like activity against protein aggregation (Kyoto Institute of Technology) TSUCHIYA, Nobuhiko; FUKUHARA, Sayuri; NISHIGAKI, Tatsutoshi; WAKU, Tomonori; KUNUGI, Shigeru; TANAKA, Naoki

**4D4-19\*** Preparation of antigenic peptide-loaded nanofibers by self-assembly of beta-sheet peptide and their cellular uptake (Kyoto Institute of Technology) WAKU, Tomonori; KITAGAWA, Yuichi; KAWABATA, Kazufumi; KUNUGI, Shigeru; TANAKA, Naoki

### Wednesday, March 28, PM

Chair: WAKU, Tomonori (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(4D4-28, 4D4-30, 4D4-31, 4D4-32, 4D4-33)

**4D4-28\*** Optimization of a cyclic peptide inhibitor of Ser/Thr phosphatase PPM1D, and discussion of its unique substrate specificity (National Institutes of Health) HAYASHI, Ryo; TANOUE, Kan; DURELL, Stewart; CHATTERJEE, Deb; JENKINS, Lisa; APPELLA, Daniel; KODAMA, Hiroaki; APPELLA, Ettore

**4D4-30** Self-assembling peptide nanofibers responsive to calcium ion for a cell scaffold material (Tokyo Institute of Technology) TSUCHIYA, Masaki;

SAWADA, Toshiaki; TSUTSUMI, Hiroshi; MIHARA, Hisakazu

**4D4-31** Self-assembling peptide nanofibers containing functional peptide sequences for a cell scaffold material. (Tokyo Institute of Technology) FUKUNAGA, Kazuto; TSUCHIYA, Masaki; TSUTSUMI, Hiroshi; MIHARA, Hisakazu

**4D4-32** Synthesis of  $\beta$ -strand peptide dimers connected with alkyl linkers in series (Ryukoku Univ.) TANAKA, Atsushi; KUROSAWA, Takahiro; IMAI, Takahito; TOMIZAKI, Kin-ya

**4D4-33** Fabrication of Peptide-Silica Composite (Ryukoku Univ.) AHN, Soo-ang; IMAI, Takahito; TOMIZAKI, Kin-ya

Chair: MIHARA, Hisakazu (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(4D4-35, 4D4-36, 4D4-37, 4D4-38, 4D4-39, 4D4-40)

**4D4-35** Solubilization and protein immobilization of carbon nanotubes with biotinylated peptides. (Ryukoku Univ.) KUROSAWA, Takahiro; IMAI, Takahito; TOMIZAKI, Kin-ya

**4D4-36** Silver nanoparticle formation by biomineralization peptide oligomerized via p53 tetramerization domain. (Dep. of Chem., Fac. of Sci., Hokkaido Univ.) SAKAGUCHI, Tatsuya; KAMADA, Rui; CHUMAN, Yoshiro; SAKAGUCHI, Kazuyasu

**4D4-37** Effect of Oligomerization of Peptides on Their Mineralization Abilities. (Tokyo Univ. of Sci.; Keio Univ.) ONOGAMI, Ayano; UCHIDA, Yuki; MATSUBARA, Teruhiko; SATO, Toshinori; HASHIZUME, Mineo

**4D4-38** Syntheses of inorganic nanoparticles using NTA-modified artificial viral capsid (Kyushu Univ.) NOGUCHI, Takanori; MATSUURA, Kazunori; KIMIZUKA, Nobuo

**4D4-39** Formation of nanocapsule from viral beta-annulus peptide having FKFE as self assembling sticky-end (Kyushu Univ.) MIZUGUCHI, Yuusaku; MATSUURA, Kazunori; KIMIZUKA, Nobuo

**4D4-40** Mechanism of peptide directed synthesis of gold nanocrystals. (Ryukoku Univ.) WAKIZAKA, Shota; IMAI, Takahito; TOMIZAKI, Kin-ya

Chair: SAKAGUCHI, Kazuyasu (15:50~16:50)

\* 15:40-15:50: interval for laptop PC connection.(4D4-42, 4D4-43, 4D4-45, 4D4-47)

**4D4-42** Design, Synthesis and Self-Assembly of Peptide Surfactants (Ryukoku Univ.) KOBAYASHI, Akitsugu; IMAI, Takahito; TOMIZAKI, Kin-ya

**4D4-43\*** Design and construction of molecular super-structures composed of filamentous viruses and gold nanoparticles (The Univ. of Tokyo) SAWADA, Toshiaki; SHIRAKAWA, Naoto; SERIZAWA, Takeshi

**4D4-45\*** small-compound- and protein-binding *de novo* proteins selected from  $\alpha 3 \beta 3$  structural library (Tokyo Institute of Technology) OKURA, Hiromichi; TAKAHASHI, Tsuyoshi; MIHARA, Hisakazu

**4D4-47** Construction of a phage library displaying monosaccharide-modified peptides (Tokyo Institute of Technology) ARAI, Kanako; OKURA, Hiromichi; TSUTSUMI, Hiroshi; YUASA, Hideya; MIHARA, Hisakazu

## Room D6

4th Bldg. Independence Wing D308

### Biofunctional Chemistry ; Biotechnology

Sunday, March 25, AM

#### Protein

Chair: MORI, Toshiaki (9:50~11:50)

\* 9:40-9:50: interval for laptop PC connection.(1D6-06, 1D6-07, 1D6-08, 1D6-09, 1D6-10, 1D6-11, 1D6-13)

**1D6-06** Immobilization and characterization of Tyrosinase using Cationic Polymer (Department of Bioengineering, Tokyo Institute of Technology) TOMIOKA, Daisuke; INOUE, Mai; ITO, Hidehiro; KAMACHI, Toshiaki

**1D6-07** Mutation of the Heme Axial Ligand of Cytochrome  $c_3$  from *Desulfovibrio vulgaris* (Department Bioengineering, Tokyo Institute of Technology) NAKAZAWA, Yu; SUGIMOTO, Taro; KAMACHI, Toshiaki

**1D6-08** Structure and Properties of a Blue copper protein, Pseudoazurin Thr36Lys Variant (Grad. Sch. of Sci. and Eng., Ibaraki Univ.; iFRC) MATSUGI, Kanako; ASAMURA, Sayaka; YAMAGUCHI, Takahide; UNNO, Masaki; KOHZUMA, Takamitsu

**1D6-09** Effect of non-covalent weak interaction at the second coordination sphere in a blue copper protein, Pseudoazurin (Grad. Sch. of Sci. and Eng., Ibaraki Univ.; iFRC; Univ. of Western Ontario; LBNL) YAMAGUCHI, Takahide; NIHEI, Yuko; ASAMURA, Sayaka; MATSUGI, Kanako; SUTHERLAND, Duncan; YANO, Junko; YACHANDRA, Vittal; STILLMAN, Martin; KOHZUMA, Takamitsu

**1D6-10** Two steps alkaline transition of stellacyanin from lacquer tree sap (Graduate School of Sci. and Eng., Ibaraki Univ.) MUROYA, Tomonori;

TAKAHASHI, Rika; TERAKADO, Hideto ; KAMINAGA, Masanori; TIEDEMANN, Michael; STILLMAN, Martin; CZERNUSZEWICZ, Roman; KOHZUMA, Takamitsu

**1D6-11\*** Study on redox chemistry of zinc finger protein (Doshisha Women's Univ., Faculty of Pharmaceutical Science) NEGI, Shigeru; YAMAOKA, Makiko; FUKUDA, Azusa; SUGIURA, Yukio

**1D6-13** Unidirectional cloning with a sandwiched zinc finger nuclease (Okayama Univ.) MORI, Tomoaki; SHINOMIYA, Kazuki; AOYAMA, Yasuhiro; SERA, Takashi

Chair: SERA, Takashi (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(1D6-15, 1D6-16, 1D6-17, 1D6-18, 1D6-19)

**1D6-15** Analyses of protein-protein interaction and telomeric DNA binding of fission yeast telomere binding proteins (Tokyo Univ. of Sci.) MAEZUMI, Naoto; TAKEHARA, Takashi; IMAZAKI, Mari; TORIGOE, Hidetaka

**1D6-16** Phosphorylation of budding yeast telomere binding protein Cdc13 and interaction with telomerase subunit Est1 (Tokyo Univ. of Sci.) KUBO, Shutaro; SASAKI, Kiyomi; TORIGOE, Hidetaka

**1D6-17** Design and functional evaluation of guanidino group-containing farnesyltransferase inhibitors for disrupting protein-protein interactions. (ISIR, Osaka Univ.) TSUBAMOTO, Mai; KATO, Nobuo; OHKANDA, Junko

**1D6-18** Detection of protease activity using FRET based fluorescent peptides bound to Lysine dendrimer (Graduate School of Life Science and System Engineering, Kyushu Institute of Technology) SATO, Daisuke; KATO, Tamaki

**1D6-19\*** Hydrolysis of the ester group by the platform on which His and Ser are presented (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) SHIRATORI, Ai; KIHARA, Nobuhiro

### Sunday, March 25, PM

Chair: OHKANDA, Junko (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(1D6-28, 1D6-29, 1D6-30, 1D6-31, 1D6-32, 1D6-33)

**1D6-28** Direct measurement of interaction between phosphorelay proteins by colloid probe atomic force microscopy. (Institute of Multidisciplinary Research for Advanced Materials (IMRAM) Tohoku Univ.) FUJIWARA, Hitomi; UMEMURA, Taizo; FUJITA, Masaya; KURIHARA, Kazue

**1D6-29** Single molecular dynamics Analysis of Glycosylations Catalyzed by Glycogen Phosphorylase b by Using Force-curve Measurements (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-PRESTO) KANEKO, Takashi; MORI, Toshiaki; OKAHATA, Yoshio

**1D6-30** Single molecule observation of Chondroitin polymerase reaction using atomic force microscopy (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-PRESTO; Inst. Mol. Sci. Med., Aichi Med. Univ.) OTSUKA, Masanori; SUGIURA, Nobuo; KIMATA, Koji; MORI, Toshiaki; OKAHATA, Yoshio

**1D6-31** single molecule measurement catalyzed by a hyaluronic acid elongation of pmHAS in lipid bilayers by using high-speed atomic force microscopy. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-PRESTO; Grad. Sch. of Biores. Bioenviron. Sci., Kyushu Univ.; Inst. for Mol. Sci. and Med., Aichi Med. Univ.) HAGIWARA, Tatsuya; KAKUTA, Yoshimitsu; KIMATA, Kouji; MORI, Toshiaki; OKAHATA, Yoshio

**1D6-32** Detection of Protease Reaction by Anomalous Reflection of Gold (Tokyo Institute of Technology) TAJIMA, Kenichi; SYAHIR, Amir; TSUTSUMI, Hiroshi; KAJIKAWA, Kotaro; MIHARA, Hisakazu

**1D6-33** Construction of glycopeptide-modified Au nanoparticles and acquisition of a binding diversity to lectin proteins (Tokyo Institute of Technology) OKUSA, Hiroyuki; PARK, Hyejin; TSUTSUMI, Hiroshi; YUASA, Hideya; MIHARA, Hisakazu

Chair: TSUTSUMI, Hiroshi (17:00~18:00)

\* 16:50-17:00: interval for laptop PC connection.(1D6-49, 1D6-50, 1D6-52, 1D6-54)

**1D6-49** Investigation of the external heme-attached position on the protein surface to generate supramolecular hemoprotein assembly (Osaka Univ.) FUJIMAKI, Nishiki; OOHORA, Koji; ONODA, Akira; HAYASHI, Takashi

**1D6-50\*** Supramolecular Heterotropic Protein Assembly Using Hemoprotein and Streptavidin (Osaka Univ.) OOHORA, Koji; ONODA, Akira; HAYASHI, Takashi

**1D6-52\*** Redox reaction mechanism of disulfide bond formation factor DsbA in *E. coli* (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) YAZAWA, Kenjiro; FURUSAWA, Hiroyuki; OKAHATA, Yoshio

**1D6-54** Kinetic analysis of RNA duplex formation mediated by RNA chaperon protein Hfq. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) YOSHIDA, Aya; FURUSAWA, Hiroyuki; OKAHATA, Yoshio

### Monday, March 26, AM

#### Protein (Metal)

Chair: NAGAO, Satoshi (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(2D6-01, 2D6-02, 2D6-03, 2D6-04, 2D6-05)

**2D6-01** Synthesis and Oxygen Binding Reaction of (Hemoglobin/Albumin) Cluster. (Faculty of Sci. and Eng., Chuo Univ.) KIMURA, Takuya; TOMITA, Daiki; KOMATSU, Teruyuki

**2D6-02** Relationship Between Heme Pocket Structure of Recombinant Human Serum Albumin-Heme Complexes and Their Peroxidase Activities (Faculty of Sci. and Eng., Chuo Univ.) WATANABE, Kyohei; KOMATSU, Teruyuki

**2D6-03** Reconstitution and photochemical activity of oxygenic photosynthesis photosystem I and II into lipid bilayer (Nagoya Inst. of Tech.) NOJI, Tomoyasu; AMANO, Mizuki; KONDO, Masaharu; KAWAKAMI, Keisuke; SHIN, Kenjin; NANGO, Mamoru; DEWA, Takehisa

**2D6-04** Immobilization of antenna photosynthetic membrane protein - pigment complexes onto substrates and their photocurrent characteristics (Nagoya Inst. of Tech.) KONDO, Masaharu; AMANO, Mizuki; NOJI, Tomoyasu; NAGATA, Morio; HASHIMOTO, Hideki; AMAO, Yutaka; DEWA, Takehisa; NANGO, Mamoru

**2D6-05\*** A simple reconstitution strategy of hemoproteins (Grad. School of Sci. Nagoya Univ.) KAWAKAMI, Norifumi; SHOJI, Osami; WATANABE, Yoshihito

Chair: YAMAMOTO, Yasuhiko (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(2D6-08, 2D6-10, 2D6-12)

**2D6-08\*** Regulation of gene expression by a transcriptional regulator HesR acting as a heme sensor (Okazaki inst. integ. biosci.) YAMANAKA, Masaru; SAWAI, Hitomi; AONO, Shigetoshi

**2D6-10\*** Molecular mechanism of functional regulation by heme for the novel transcriptional regulator, HesR. (Okazaki Inst. for Integ. Biosci.; RIKEN/SPRING-8) SAWAI, Hitomi; SUGIMOTO, Hiroshi; YAMANAKA, Masaru; SHIRO, Yoshitsugu; AONO, Shigetoshi

**2D6-12\*** Structural and Oxygen Binding Properties of Dimeric Horse Myoglobin (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) NAGAO, Satoshi; UNI, Takeshi; YAMADA, Takuya; OSUKA, Hisao; SHOMURA, Yasuhito; IMAI, Kiyohiro; HIGUCHI, Yoshiaki; HIROTA, Shun

Chair: AONO, Shigetoshi (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(2D6-15, 2D6-17, 2D6-18, 2D6-19, 2D6-20)

**2D6-15\*** Reconstitution of photosynthetic membrane protein assemblies into lipid bilayer: relationship between supramolecular structures and their cooperative function (Nagoya Institute of Technology) SUMINO, Ayumi; DEWA, Takehisa; WATANABE, Natsuko; NAKANO, Yuki; NOJI, Tomoyasu; KONDO, Masaharu; HASHIMOTO, Hideki; NANGO, Mamoru

**2D6-17** Reconstitution of antenna complex (LH) using recombinant LH apoproteins with bacteriochlorophyll derivatives and carotenoid pigments. (Nagoya Inst. of Tech.) SAKAI, Shunsuke; MIZUNO, Toshihisa; NAKAGAWA, Katsunori; TANAKA, Toshiki; HASHIMOTO, Hideki; NANGO, Mamoru; DEWA, Takehisa

**2D6-18#** DNA Cleavage by Cysteine-Introduced Sperm Whale Myoglobin (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) JUNEDI, Sendy; PRAKASH, Halan; NAGAO, Satoshi; HIROTA, Shun

**2D6-19** Functional analysis and characterization of HutZ from *Vibrio cholerae* (Grad. School of Chem. Sci. and Eng., Hokkaido Univ.) SEKINE, Yukari; UCHIDA, Takeshi; ISHIMORI, Koichiro

**2D6-20** Purification of Ferrochelatase from *Vibrio cholerae* and Mechanism for Iron Insertion into Protoporphyrin IX (Faculty of Sci. Hokkaido Univ.) MUNETA, Souichirou; UCHIDA, Takeshi; ISHIMORI, Koichiro

### Monday, March 26, PM

Chair: DEWA, Takehisa (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(2D6-28, 2D6-29, 2D6-30, 2D6-31, 2D6-32, 2D6-33)

**2D6-28** Elucidation of molecular mechanism responsible for regulation of the oxygen affinity and autoxidation of myoglobin possessing H64L amino acid replacement (Dept. of Chem., Univ. of Tsukuba) NISHIYAMA, Kotaro; NISHIMURA, Ryu; MATSUMOTO, Daichi; SHIBATA, Tomokazu; NAGAO, Satoshi; FUKAYA, Masashi; TAI, Hulin; MATSUO, Takashi; HIROTA, Shun; SUZUKI, Akihiro; IMAI, Kiyohiro; NEYA, Saburo; SHOUZI, Osami; WATANABE, Yoshihito; YAMAMOTO, Yasuhiko

**2D6-29** Preparation of reconstituted hydrogen peroxide driven-cytochrome P450 using heme acquisition system and its oxidation reaction (Grad. School of Sci. Nagoya Univ.) MORIMOTO, Yoshihiko; SHOJI, Osami; OZAKI, Shin-ichi; KAMACHI, Takashi; YOSHIZAWA, Kazunari; WATANABE, Yoshihito

**2D6-30** Tricking cytochrome P450BM3 to catalyze hydroxylation of benzene in the presence of a dummy substrate (Grad. School of Sci. Nagoya Univ) KUNIMATSU, Tatsuya; KAWAKAMI, Norifumi; SHOJI, Osami; SHIRO, Yoshitugu; WATANABE, Yoshihito

**2D6-31** Formation and Stability of Met80Ala Mutant Human Cytochrome c Oligomers (Nara Institute of Science and Technology, Graduate School of Materials Science) YAMASHIRO, Nobuhiro; ANDO, Yuki; WANG, Zhonghua; NAGAO, Satoshi; HIROTA, Shun

**2D6-32** Self-Modification of Amino Acid Residue by Methionine Dissociation

from the Hemein Mutant Human Cytochrome *c* (Graduate School of Materials Science, Nara Institute of Science and Technology) ANDO, Yuki; WANG, Zhonghua; NAGAO, Satoshi; HIROTA, Shun

**2D6-33** Folding dynamics of cytochrome c551 studied by long time observation of fluorescence time series from single molecules (Institute of Multidisciplinary Research for Advanced Materials, Tohoku Univ.) KAWAGUCHI, Toshifumi; KAMAGATA, Kiyoto; OIKAWA, Hiroyuki; SAMBONGI, Yoshihiro; BABA, Akinori; KOMATSUZAKI, Tamiki; TAKAHASHI, Satoshi

Chair: NANGO, Mamoru (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2D6-35, 2D6-38, 2D6-39, 2D6-40)

**2D6-35** Young Scholar Lectures of CSJ Structure-based Chemical Perspectives on Specificity and Promiscuity for Molecular Recognition in Inter- biomolecular Electron Transfer (Grad. Sch. Sci., Osaka Univ.) NOJIRI, Masaki

**2D6-38** Structural and functional consequences of the removal of the hydrogen bond between main chains of axial Met59 and Gly50 in *Hydrogenobacter thermophilus* cytochrome *c*<sub>552</sub> (Department of Chemistry, Univ. of Tsukuba) IZUMOTO, Yukie; MIKAMI, Shin-ichi; TAI, Hulin; YAMAMOTO, Yasuhiko

**2D6-39** Structure and Stability of Dimeric Cytochrome *c*<sub>552</sub> from *Hydrogenobacter thermophilus* (Nara Institute of Science and Technology, Graduate School of Materials Science) HAYASHI, Yugo; NAGAO, Satoshi; OSUKA, Hisao; KOMORI, Hirofumi; HIGUCHI, Yoshiki; HIROTA, Shun

**2D6-40** Change in Ability of Oligomer Formation of *Hydrogenobacter thermophilus* Cytochrome *c*<sub>552</sub> by Insertion of Amino Acids at Its Hinge Loop. (Nara Institute of Science and Technology, Graduate School of Materials Science) HAYASHI, Shuhei; NAGAO, Satoshi; HIROTA, Shun

Chair: HIROTA, Shun (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(2D6-42, 2D6-43, 2D6-44, 2D6-45, 2D6-46, 2D6-47)

**2D6-42** Roles of Amino Acids in the Second Coordination Sphere of Tyrosinase from *Aspergillus Oryzae* (Graduate School of Engineering, Osaka Univ.) FUJIEDA, Noubutaka; YABUTA, Shintaro; YANAGISAWA, Sachiko; OGURA, Takashi; ITOH, Shinobu

**2D6-43** Characterization of Peroxo Species of Tyrosinase Mutants Modified at CuA Coordination Sphere. (Graduate School of Engineering, Osaka Univ.) OBA, Takuro; YABUTA, Shintaro; FUJIEDA, Noubutaka; YANAGISAWA, Sachiko; OGURA, Takashi; ITOH, Shinobu

**2D6-44** Kinetics of indole hydroxylation catalyzed by thermophilic cytochrome P450 through the peroxide shunt pathway (Department of Biotechnology, Tokyo Univ. of Agri. & Tech.) HOSAKA, Kenichiro; HAYAKAWA, Shohei; NAKAMURA, Nobuhumi; YOHDA, Masafumi; OHNO, Hiroyuki

**2D6-45** Effect of temperature on substrate binding affinity within thermophilic cytochrome P450 (Department of Biotechnology and Life Science, Tokyo Univ. of Agri. & Tech.) SHIONOIRI, Megumi; HAYAKAWA, Shohei; NAKAMURA, Nobuhumi; YOHDA, Masafumi; OHNO, Hiroyuki

**2D6-46** Characterization of Mononuclear Iron Protein Containing 4-His Metal Binding Motif (Graduate School of Engineering, Osaka Univ.) ISHIHAMA, Ken-ichi; FUJIEDA, Noubutaka; ITOH, Shinobu

**2D6-47** Creation of Artificial Blue Copper Proteins Using Carbonic Anhydrase (Graduate school of Engineering, Osaka Univ.) EGUCHI, Nao; FUJIEDA, Noubutaka; ITOH, Shinobu

## Tuesday, March 27, AM

### Protein (Metal)

Chair: KODERA, Masahito (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3D6-01, 3D6-02, 3D6-03, 3D6-04, 3D6-05)

**3D6-01** Investigation of caspase-3 activation by small organic molecules (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) YAMADA, Keita; MATSUO, Takashi; HIROTA, Shun

**3D6-02** Construction of a switching system based on structural change of Adenylate Kinase. (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) FUJII, Akira; MATSUO, Takashi; HIROTA, Shun

**3D6-03** Characterization and Reactivity of  $\alpha$ -Chymotrypsin Having Hoveyda-Grubbs Catalytic Site (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) KAWAHARA, Keiya; MATSUO, Takashi; YOSHIDA, Takefumi; HIROTA, Shun

**3D6-04** Comparison in Ability of Cyanide Ion Binding between Ferric Porphyrin Supramolecules and Hydroxocobalamin (Doshisha Univ., Faculty of Science and Engineering) WATANABE, Kenji; KITAGISHI, Hiroaki; KANO, Koji

**3D6-05\*** O<sub>2</sub> Carriers Composed of Cyclodextrin / Dendron-type Porphyrin Supramolecular Complex (Doshisha Univ., Faculty of Science and Engineering) KARASUGI, Keiichi; KITAGISHI, Hiroaki; KANO, Koji

Chair: MATSUO, Takashi (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3D6-08, 3D6-10, 3D6-12, 3D6-13)

**3D6-08\*** Biochemical studies of HcgB protein involved in biosynthesis of the metal center of [Fe]-hydrogenase (Max Planck Institute for Terrestrial Microbiology) FUJISHIRO, Takashi; TAMURA, Haruka; SCHICK, Michael; KAHNT, Joerg; XIE, Xiulan; ERMILER, Ulrich; SHIMA, Seigo

**3D6-10\*** Reaction Intermediates in Oxidation Reaction of Supramolecular Peroxidase Models in Aqueous Solution (Doshisha Univ.) UEDA, Takunori; KITAGISHI, Hiroaki; KANO, Koji

**3D6-12** Reactions of a Peroxidase Model Complex with m-Chloroperbenzoic Acid in Aqueous Solution (Doshisha Univ.) KUMEDA, Saki; KITAGISHI, Hiroaki; UEDA, Takunori; KANO, Koji

**3D6-13** Study on Reaction Mechanism of Anti-oxidant Ebselen Using Its Fluorinated Derivative (Doshisha Univ.) HITOMI, Yutaka; MATSUDA, Shoko; TAKEYASU, Toshiyuki; KODERA, Masahito

### Protein

Chair: FURUSAWA, Hiroyuki (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(3D6-15, 3D6-18, 3D6-19)

**3D6-15** CSJ Award for Young Chemists Accurate Structure Analysis of Biomolecules by Synchrotron-Radiation Vacuum-Ultraviolet Circular Dichroism (Hiroshima Univ. HiSOR) MATSUO, Koichi

**3D6-18** Rational screening of inhibitor of Tob1-CNOT7 interaction (Institute of Medical Science The Univ. of Tokyo) TASHIRO, Shinya; YAMAMOTO, Tadashi; SUZUKI, Toru; ARAKAWA, Tsutomu; YAGANO, Tetsuo; OKABE, Takayoshi; KOJIMA, Hirotsugu; YOSHIMURA, Chihoko; TSUMOTO, Kouhei

**3D6-19\*** PatD: a highly versatile synthetic tool for azoline-containing molecules (Grad. School of Science, Univ. of Tokyo; PRESTO, JST; Grad. School of Engineering, Univ. of Tokyo) GOTO, Yuki; ITO, Yumi; SUGA, Hiroaki

## Tuesday, March 27, PM

### Cell

Chair: SUGIMOTO, Naoki (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(3D6-28)

**3D6-28** CSJ Award for Creative Works Design, Synthesis and Biological Application of Molecular Imaging Probes with Tunable Chemical Switches (Grad. Sch. Eng., Osaka Univ.) KIKUCHI, Kazuya

### Protein (Sensing)

Chair: SUGA, Hiroaki (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3D6-35, 3D6-38, 3D6-40)

**3D6-35** Young Scholar Lectures of CSJ Analytical observation of dynamic behaviors of biomolecules using a quartz crystal microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) FURUSAWA, Hiroyuki

**3D6-38\*** Photoinduced association reaction of light-sensor protein phototropin-LOV1 domain from Arabidopsis (Kyoto Univ. ; Kyushu Univ.) NAKASONE, Yusuke; KAWAGUCHI, Yuki; KON, Sangwon; WADA, Masamitsu; TERAZIMA, Masahide

**3D6-40** Photochemical reaction dynamics of LOV-linker domain of the blue light sensor protein YtvA from *Bacillus subtilis* (Department of Chemistry, Graduate school of Science Kyoto Univ.) CHOI, Seokwoo; NAKASONE, Yusuke; KLAAS, J Hellingwerf; TERAZIMA, Masahide

### Protein

Chair: KANO, Koji (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(3D6-42, 3D6-43, 3D6-45, 3D6-46, 3D6-47)

**3D6-42** The photochemical reaction dynamics of Arabidopsis UVR8 protein revealed by time-resolved TG method (Department of Chemistry Graduate school of Science Kyoto Univ.) MIYAMORI, Takaaki; NAKASONE, Yusuke; HITOMI, Kenichi; CHRISTIE, John M; GETZOFF, Elizabeth D; TERAZIMA, Masahide

**3D6-43\*** Vibrational Motion of Insulin and its Raman Optical Activity Spectra (IOCB; Kwansai Gakuin Univ.) YAMAMOTO, Shigeki; KAMINSKY, Jakub; BOUR, Petr

**3D6-45** Design of a Sensing System for Protease Activities Using Split-Proteins. (IMRAM, Tohoku Univ.) SAKAMOTO, Seiji; TERAUCHI, Mika; TAKI, Shusaku; ARAKI, Yasuyuki; WADA, Takehiko

**3D6-46** Construction of functional fluorescent Uracase fusion protein for biosensing of uric acid (Dep. of Pathophysiology, Tokyo Univ. of Pharmacy and Life Sciences) NAKAMURA, Makiko; TAKEI, Hiroki; HOSONO, Ayana; ICHIDA, Kimiyoshi

**3D6-47** Heterogeneity in bacteriorhodopsin in micelles of a short chain phospholipid dihepanoylphosphatidylcholine (Dept. of Chem. and Chem. Biol., Gunma Univ., Fac. of Adv. Life Sci. Hokkaido Univ.) KUWABARA, Yumiko; KIKUKAWA, Takashi; DEMURA, Makoto; SONOYAMA, Masashi



## Protein (Sensing)

Chair: TSUMOTO, Kouhei (17:00~18:20)

- \* 16:50-17:00: interval for laptop PC connection.(3D6-49, 3D6-51, 3D6-52, 3D6-53, 3D6-55, 3D6-56)
- 3D6-49\*** Analysis of translation reaction (1); Kinetic analysis of translation termination (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) TAKAHASHI, Shuntaro; KUSAKABE, Takato; OKAHATA, Yoshio
- 3D6-51** Analysis of translation reaction(2) Effect of the amino acid sequence on the completion of translation reaction (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) KUSAKABE, Takato; TAKAHASHI, Shuntaro; OKAHATA, Yoshio
- 3D6-52** Fluorescent "switch-on" labeling via protein-selective azaelectrocyclization (Osaka Univ.) KITADANI, Masataka; TANAKA, Katsunori; FUKASE, Koichi
- 3D6-53\*** Efficient bioconjugation of peptides onto proteins and cell surface by combined method of strain-promoted "double-click" reaction and azaelectrocyclization (Osaka Univ.; Tokyo Medical & Dental Univ.) TANAKA, Katsunori; NAKAMOTO, Yuka; SIWU, Eric R. O.; YOSHIDA, Suguru; HOSOYA, Takamitsu; FUKASE, Koichi
- 3D6-55** Analysis of translation reaction (3); Dynamics of translation elongation (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) HIROSE, Atsushi; TAKAHASHI, Shuntaro; OKAHATA, Yoshio
- 3D6-56** Analysis of translation reaction (4); Evaluation of translational frameshifting (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) SHISHIDO, Keisuke; TAKAHASHI, Shuntaro; OKAHATA, Yoshio

## Wednesday, March 28, AM

### Protein (Protein Engineering)

Chair: UENO, Takafumi (9:10~10:00)

- \* 9:00-9:10: interval for laptop PC connection.(4D6-02, 4D6-03, 4D6-04, 4D6-05)
- 4D6-02** The detection of alpha-synuclein oligomer employing probe enzyme fused alpha-synuclein (Tokyo Univ. of Agric. and Technol.) SASAKI, Yasuhiko; UCHIKURA, Yuki; TODA, Rei; IKEBUKURO, Kazunori; SODE, Koji
- 4D6-03** Visualization of endogenous single mRNA in living cells using genetically-encoded fluorescent probes (Univ. of Tokyo) YAMADA, Toshimichi; YOSHIMURA, Hideaki; INAGUMA, Asumi; OZAWA, Takeaki
- 4D6-04** Covalent Labeling of His Tag-Fused Proteins(1) Rapid Labeling by Optimizing His Tag Sequence and Probe Structure (Department of Synthetic Chemistry and Biological Chemistry Kyoto Univ.) WAKAYAMA, Sho; UCHINOMIYA, Shohei; NONAKA, Hiroshi; OJIDA, Akio; HAMACHI, Itaru
- 4D6-05\*** Covalent Labeling of His Tag-Fused Proteins(2) Selective Labeling on Cell Surface and in Cell (Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) UCHINOMIYA, Shohei; WAKAYAMA, Sho; NONAKA, Hiroshi; OJIDA, Akio; HAMACHI, Itaru

Chair: TAKEUCHI, Masayuki (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4D6-08, 4D6-10, 4D6-11, 4D6-13)
- 4D6-08\*** Functionalization of Polyhedra Protein Crystals Produced in Insect Cells (iCeMS, Kyoto Univ.; Kyoto Inst. Tech.; Grad. Sch. Eng. Kyoto Univ.) ABE, Satoshi; YAMANAKA, Hiroyuki; IJIRI, Hiroshi; MORI, Hajime; KITAGAWA, Susumu; UENO, Takafumi
- 4D6-10** Functionalization of the surface of Porous Protein crystals by the chemical modification (Grad. Sch. of Kyoto Univ.; iCeMS, Kyoto Univ.) TOKURA, Yu; TABE, Hiroyasu; ABE, Satoshi; KITAGAWA, Susumu; UENO, Takahumi
- 4D6-11\*** Analysis of the oxidative folding mechanism for bovine pancreatic ribonuclease A by using a water-soluble selenoxide reagent with high SS formation ability (Tokai Univ.) ARAI, Kenta; IWAOKA, Michio
- 4D6-13** Observation of intramolecular SS bond formation behaviors of polypeptides by using a water-soluble selenoxide reagent with high oxidative activity (Tokai Univ.) NOGUCHI, Masato; ARAI, Kenta; IWAOKA, Michio

Chair: OZAWA, Takeaki (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4D6-15, 4D6-16, 4D6-17, 4D6-18, 4D6-20)
- 4D6-15** Construction of protein nano particles for DDS carrier (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) MATSUMOTO, Rie; MIE, Masayasu; KOBATAKE, Eiry
- 4D6-16** Nanoparticle formation of antigen protein for immunotherapy (Kyoto Institute of Technology) ICHIKAWA, Masahiro; TERASAWA, Kimi; KUNUGI, Shigeru; TANAKA, Naoki; WAKU, Tomonori
- 4D6-17** Development of techniques for antigen peptide screening using thermoresponsive MHC molecule-magnetic nanoparticle complexes (Inst. Engr., Tokyo Univ. Agri. Tech.) HONDA, Toru; YOSHINO, Tomoko; MATSUNAGA, Tadashi
- 4D6-18\*** Development of a novel method for DNA-Protein conjugates with phi

X174 Gene A\* protein (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) MASHIMO, Yasumasa; MIE, Masayasu; KOBATAKE, Eiry

- 4D6-20** Development of the protein which can polymerize through spontaneous covalent bond formation under reductive environment (IMSUT) MATSUNAGA, Ryo; YANAKA, Saeko; NAKAGAWA, Ichiro; TSUMOTO, Kouhei

## Wednesday, March 28, PM

Chair: HOHSAKA, Takahiro (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(4D6-28, 4D6-29, 4D6-31, 4D6-33)
- 4D6-28** Development of imaging method for analyzing protein-protein interactions with Split-Snap-tag. (Tokyo Institute of Technology; Kobatake Laboratory) NAOKI, Tatsuhiko; MIE, Masayasu; KOBATAKE, Eiry
- 4D6-29\*** Protein engineering by LDT chemistry(1) Development of new method for protein-protein interaction detection in living cells (Graduate School of Engineering, Kyoto Univ.) TAMURA, Tomonori; TSUKIJI, Shinya; HAMACHI, Itaru
- 4D6-31\*** Protein engineering based on LDT chemistry (2)Quantitative analysis of intracellular protein dynamics by <sup>19</sup>F-chemical labeling (Graduate School of Engineering, Kyoto Univ.) TAKAOKA, Yousuke; KIOI, Yoshiyuki; MORITO, Akira; TOCHIO, Hidehito; SHIRAKAWA, Masahiro; HAMACHI, Itaru
- 4D6-33** Conversion of cholesterol oxidase to cholesterol dehydrogenase by amino acid substitutions (Tokyo Univ. of Agric. and Technol.) KOBAYASHI, Kazuhiko; ENDO, Takayuki; TSUGAWA, Wakako; KOJIMA, Katsuhiko; FERRI, Stefano; SODE, Koji

Chair: KOBATAKE, Eiry (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(4D6-35, 4D6-36, 4D6-37, 4D6-38, 4D6-39)
- 4D6-35** Alteration of Glucose oxidase catalytic activity employing oxygen as an electron acceptor (Tokyo Univ. of Agric. and Technol.) HORAGUCHI, Yohei; SAITO, Shoko; KOJIMA, Katsuhiko; MORI, Kazushige; SODE, Koji
- 4D6-36** Continuous operation of direct electron transfer type glucose enzyme sensor employing FAD glucose dehydrogenase (Tokyo Univ. of Agric. and Technol.) TSUGAWA, Wakako; KAKUBORI, Kenji; FUTAGAMI, Hinako; KOJIMA, Katsuhiko; SODE, Koji
- 4D6-37** Photoregulation of the hemolytic activity of Staphylococcal alpha-hemolysin by N-terminally fused photoactive yellow protein (Tohoku Univ., IMRAM) UI, Mihoko; TANAKA, Yoshikazu; ARAKI, Yasuyuki; WADA, Takehiko; TAKEI, Toshiaki; TSUMOTO, Kouhei; KINBARA, Kazushi
- 4D6-38** Characteristics of Eye-lens Crystallins -towards protein based materials- (IT-Related Research Laboratory, Sumitomo Chemical Co., Ltd., Graduate School of Agriculture, Kyoto Univ., Graduate School of Engineering, Osaka Univ.) FURUYAMA, Akiho; MATSUSHIMA, Chiayuki; UEDA, Mitsuyoshi; TAMIYA, Eiichi
- 4D6-39\*** Detecting phosphorylation of specified tyrosine by conjugating Tb(III) complexes (RCAST, The Univ. of Tokyo) AKIBA, Hiroki; SUMAOKA, Jun; KOMIYAMA, Makoto

Chair: WADA, Takehiko (15:50~16:50)

- \* 15:40-15:50: interval for laptop PC connection.(4D6-42, 4D6-44, 4D6-45, 4D6-46, 4D6-47)
- 4D6-42\*** Construction and Properties of Gold Electrode Modified with Hemoprotein Oligomers via Heme or Zinc-porphyrin as a Cofactor (Osaka Univ.) KAKIKURA, Yasuaki; ONODA, Akira; HAYASHI, Takashi
- 4D6-44** Construction of Metal Nanoparticle Network Structure on TiO<sub>2</sub> Surface Using Biotin-avidin Interaction (Osaka Univ.) HARADA, Hirofumi; ONODA, Akira; HAYASHI, Takashi
- 4D6-45** Improvement of the functional expression of fungi derived FAD glucose dehydrogenase in E.coli by amino acid substitutions (Tokyo Univ. of Agric. and Technol.) NAKAJIMA, Mitsuharu; ONISHI, Yousuke; MORI, Kazushige; KOJIMA, Katsuhiko; SODE, Koji
- 4D6-46** Expression and biochemical feature of human catalytic antibody light chain classified in SubgroupIII (Graduate school of Engineering; Oita Univ., Reseach Promotion Project; Oita Univ., CREST of JST) HASEGAWA, Hiroaki; HIFUMI, Emi; UDA, Taizou
- 4D6-47** Studies on nuclease activity and kinetics using by human super catalytic antibodies (Faculty of Technology and Research Promotion Project, Oita Univ.) ITO, Chiharu; MORIGUCHI, Chihiro; HIFUMI, Emi; UDA, Taizou

## Room D7

4th Bldg. Independence Wing D309

## Biofunctional Chemistry ; Biotechnology

Sunday, March 25, AM

## Nucleic acid

Chair: TANABE, Kazuhito (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1D7-01, 1D7-02, 1D7-03, 1D7-05)
- 1D7-01** Control of gene expression with caged DNAs having a biotin tag (Toho Univ.) TERAOKA, Aoi; ISHIBASHI, Aya; FURUTA, Toshiaki
- 1D7-02** Design and Synthesis of Sequence-selective Caging Agents (Toho Univ.) HOSHIDA, Tomoko; FURUTA, Toshiaki
- 1D7-03\*** The base-pairing selectivity of a third base pair "Ds-Px" in PCR (SSBC, RIKEN; TagCyx Biotechnologies; Grad. Sch. of Sci., Univ. of Tokyo) YAMASHIGE, Rie; KIMOTO, Michiko; SATO, Akira; MITSUI, Tsuneo; YOKOYAMA, Shigeyuki; HIRAO, Ichiro
- 1D7-05\*** Site-specific labeling of RNA by an unnatural base pair transcription system via click chemistry (SSBC, RIKEN; TagCyx Biotechnologies; Grad. Sch. of Sci., Univ. of Tokyo) ISHIZUKA, Takumi; KIMOTO, Michiko; SATO, Akira; YOKOYAMA, Shigeyuki; HIRAO, Ichiro

Chair: ISHIKAWA, Masahide (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1D7-08, 1D7-10, 1D7-11, 1D7-12, 1D7-13)
- 1D7-08\*** Development of syn-oriented unnatural nucleobase that changes a mode of base recognition upon photoirradiation (Graduate School of Pharmaceutical Sciences, Osaka Univ.) MORIHIRO, Kunihiko; KODAMA, Tetsuya; OBIKA, Satoshi
- 1D7-10** Synthesis and cross-linking properties of novel photoreactive antisense oligonucleotides having a  $N^3$ -trimethylpsoralenylmethyl-2'-deoxycytidine (Kyoto Inst. of Tech.) TOMITA, Koji; KOBORI, Akio; YAMAYOSHI, Asako; MURAKAMI, Akira
- 1D7-11** Synthesis and cross-linking properties of oligodeoxyribonucleotides containing a caged  $\alpha$ -haloaldehyde derivative (Kyoto Inst. of Tech.) KOBORI, Akio; NAGAE, Yuko; YAMAUCHI, Takemune; YAMAYOSHI, Asako; MURAKAMI, Akira
- 1D7-12** Regulation of DNase function by radiation-induced disulfide exchange reaction (Graduate School of Engineering, Kyoto Univ.) OKADA, Kana; TANABE, Kazuhito; NISHIMOTO, Sei-ichi
- 1D7-13** Control of the duplex formation of oligodeoxynucleotides possessing disulfide bond by X irradiation (Kyoto Univ.) MIZOE, Taiga; OKADA, Kana; TANABE, Kazuhito; NISHIMOTO, Sei-ichi

Chair: NAKATANI, Kazuhiko (11 : 20 ~ 12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(1D7-15, 1D7-16, 1D7-17, 1D7-18, 1D7-20)
- 1D7-15** Enzymatic Preparation of Photoreponsive DNA Monolayers on Gold Surface (Univ. of Hyogo) TAKEMURA, Mai; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 1D7-16** Photochemical Behavior of Peryleneimide Derivatives Bound To the Artificial Hydrophobic Cavity (Univ. of Hyogo) TSUKAMOTO, Suguru; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 1D7-17** Photoinduced Electron Transfer on RNA Duplex (Univ. of Hyogo) SAEKI, Yusuke; NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige
- 1D7-18\*** Modulation of Excess Electron Transfer in DNA by Base Modification (Graduate School of Engineering, Kyoto Univ.) ITO, Takeo; HAMAGUCHI, Yuta; NISHIMOTO, Sei-ichi
- 1D7-20** Study on energy transfer of fluorophores in DNA duplex. (Nagoya Univ.) KATO, Tomohiro; KASHIDA, Hiromu; ASANUMA, Hiroyuki

Sunday, March 25, PM

Chair: YAMANA, Kazushige (13 : 30 ~ 14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1D7-28, 1D7-29, 1D7-30, 1D7-31, 1D7-32)
- 1D7-28** Investigation of the interaction between artificial DNA based on alkynyl C-nucleosides within the three points of Hydrogen-bonding patterns and natural/artificial DNA (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) SHIRARO, Wataru; CHIBA, Junya; INOUE, Masahiko
- 1D7-29** Synthesis and characteristics of alkynyl C-nucleotide oligomers possessing a different linking position of the bases (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) AZUCHI, Junichi; CHIBA, Junya; INOUE, Masahiko
- 1D7-30** Synthesis and evaluation of the small molecule binding to RNA-bulge structure (ISIR, Osaka Univ.) OTABE, Takahiro; NAKATANI, Kazuhiko
- 1D7-31** The synthesis of diamino-naphthyridine derivatives and combination

evaluation with the cytosine bulge structure (ISIR, Osaka Univ.) YU, Gaigai; OTABE, Takahiro; TAKEI, Fumie; NAKATANI, Kazuhiko

**1D7-32\*** Highly efficient invasion by PNA-NLS conjugate and its application to site-selective DNA hydrolysis. (RCAST, The Univ. of Tokyo) AIBA, Yuichiro; HONDA, Yuta; KAMESHIMA, Wataru; HAMANO, Yuya; ACCETTA, Alessandro; SFORZA, Stefano; MARCHELLI, Rosangela; CORRADINI, Roberto; KOMIYAMA, Makoto

Chair: INOUE, Masahiko (17 : 00 ~ 18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(1D7-49, 1D7-50, 1D7-52, 1D7-54)
- 1D7-49** Photo-patterning of DNA brush and its application to microdevices (Faculty of Science, Hokkaido Univ.; RIES, Hokkaido Univ.) SUZUKI, Yasunobu; EGUCHI, Asumi; MATSUO, Yasutaka; NIKURA, Kenichi; IJIRO, Kuniharu
- 1D7-50\*** Direct Fluorescence Monitoring of DNA Base Excision Repair Activities (Department of Chemistry, Stanford Univ.) ONO, Toshikazu; KOOL, Eric
- 1D7-52\*** Triazole-linked DNA as a Primer Surrogate in the Synthesis of First-strand cDNA (Tohoku Univ.) FUJINO, Tomoko; YASUMOTO, Ken-ichi; YAMAZAKI, Naomi; HASOME, Ai; SOGAWA, Kazuhiro; ISOBE, Hiroyuki
- 1D7-54** Design of new photoresponsive DNase based on the reversible hybridization to catalytic loop (Nagoya Univ.) KATO, Kenjiro; LIANG, Xingguo; ASANUMA, Hiroyuki

Monday, March 26, AM

## Nucleic acid

Chair: XU, Yan (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2D7-01, 2D7-02, 2D7-03, 2D7-04, 2D7-05, 2D7-06)
- 2D7-01** Synthesis and Interaction Behavior of Peptide Ribonucleic Acid (PRNA)-PNA-DNA Chimeras and Application to Expression Control of Genetic Information-3 (IMRAM, Tohoku Univ.) UEMATSU, Ryohei; MIZUTANI, Tatsuya; SAKAMOTO, Seiji; ARAKI, Yasuyuki; MATSUYAMA, Yohei; YAMAYOSHI, Asako; MURAKAMI, Akira; WADA, Takehiko
- 2D7-02** Interactive analysis of macrocyclic hexaoxazole (6OTD) dimers with long telomeric G-quadruplex (Tokyo Univ of Agri and Tech (TUAT)) IIDA, Keisuke; TERA, Masayuki; Hirokawa, Takatsugu; Shin-ya, Kazuo; NAGASAWA, Kazuo
- 2D7-03** Quartet formation of a guanine derivative with an isopropyl group: Solution behavior and crystal structures of the G-quartets. (Graduate School of Engineering, Osaka Univ., ALCA(JST), Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) INUI, Yuji; MIYAZAKI, Soushi; FUKUZUMI, Shunichi; KOJIMA, Takahiko
- 2D7-04** Sensitive detection of DNA G-quadruplex by Thioflavin T (Konan Univ. FIRST; Konan Univ. FIBER; Panasonic Corp. ATRL) MAEDA, Ryuichi; FUJIMOTO, Takeshi; YAKU, Hidenobu; MURASHIMA, Takashi; SUGIMOTO, Naoki; MIYOSHI, Daisuke
- 2D7-05** Identification of TERRA binding specificity of TAF15 (Shizuoka Univ.) YUKAWA, Nina; TAKAHAMA, Kentaro; OYOSHI, Takanori
- 2D7-06** Synthesis of the caged G-quadruplex ligand (Tokyo Univ of Agri and Tech (TUAT)) NAKAMURA, Takahiro; IIDA, Keisuke; TERA, Masayuki; Shin-ya, Kazuo; SEIMIYA, Hiroyuki; NAGASAWA, Kazuo

Chair: OYOSHI, Takanori (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2D7-08, 2D7-09, 2D7-11, 2D7-12)
- 2D7-08** Telomere Length Measurement of Single Chromosome by PNA and Single-strand Specific Endonuclease (RCAST, The Univ. of Tokyo) MUNEOKA, Satoshi; ISHIZUKA, Takumi; SUMAOKA, Jun; KOMIYAMA, Makoto
- 2D7-09\*** Regulation of Gene Expression by Intermolecular RNA G-quadruplex (Faculty of Medicine, Univ. of Miyazaki, RCAST, The Univ. of Tokyo) XU, Yan; ITO, Kenjiro; KOMIYAMA, Makoto
- 2D7-11** Effect of molecular environments on the behaviors of biomolecules (28): G-quadruplex formations of guanine-rich sequences derived from open reading frames in natural mRNAs (FIRST, Konan Univ. and FIBER, Konan Univ.) KAWASAKI, Yu; ENDOH, Tamaki; SUGIMOTO, Naoki
- 2D7-12\*** Effect of molecular environments on the behaviors of biomolecules (29): Translational halts at elongation mediated by RNA quadruplex formation in open reading frame of natural mRNAs (FIBER, Konan Univ.; FIRST, Konan Univ.) ENDOH, Tamaki; KAWASAKI, Yu; SUGIMOTO, Naoki

Chair: MIYOSHI, Daisuke (11 : 20 ~ 12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2D7-15, 2D7-16, 2D7-18, 2D7-19, 2D7-20)
- 2D7-15** Identification about the function of TLS on telomere (Shizuoka Univ.) SHIMIZU, Mai; TADA, Shota; OYOSHI, Takanori
- 2D7-16\*** Identification of G-quadruplex recognition mechanism of TLS (Shizuoka Univ.) TAKAHAMA, Kentaro; TAKADA, Asami; OYOSHI, Takanori

- 2D7-18** The oxidation of G-quadruplex DNA by UVA radiation with riboflavin (Tokushima Bunri Univ.) MORIKAWA, Masayuki; OYOSHI, Takanori; KOBAYASHI, Takanobu; KOMORI, Rie; MIYAZAWA, Hiroshi; KINO, Katsuhito
- 2D7-19** Observation of Intramolecular Folding in Three Tandem Guanine Repeats of Human Telomeric DNA using Optical Tweezers (Kyoto Univ.) SANNOHE, Yuta; KOILARA, Deepak; MASHIMO, Tomoko; YU, Zhongbo; MAO, Hanbin; SUGIYAMA, Hiroshi
- 2D7-20** Synthesis of macrocyclic hexaoxazole dimers and evaluation of their stabilizing ability against G-quadruplex structure. (Tokyo Univ of Agri and Tech (TUAT)) TSUBOUCHI, Gen; IIDA, Keisuke; SHIN-YA, Kazuo; TERA, Masayuki; NAGASAWA, Kazuo

### Monday, March 26, PM

Chair: KOMIYAMA, Makoto (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2D7-28, 2D7-29, 2D7-31, 2D7-32)
- 2D7-28** Effect of molecular environments on the behaviors of biomolecules (30): Regulation for the transcriptional activity by the non-canonical structure formations in a template DNA (FIRST, Konan Univ. ; FIBER, Konan Univ.;) ISONO, Noburu; TATEISHI, Hisae; SUGIMOTO, Naoki
- 2D7-29\*** Effect of molecular environments on the behaviors of biomolecules (31): PCR-free detection of telomerase activity with cycling probe technology using RNase H and probe RNA (FIRST, Konan Univ. ; FIBER, Konan Univ. ; ATRL, Panasonic Corp.) YAKU, Hidenobu; MURASHIMA, Takashi; MIYOSHI, Daisuke; SUGIMOTO, Naoki
- 2D7-31** Synthesis and 19F NMR spectra of artificial oligodeoxynucleotides possessing Bis(trifluoromethyl)benzene unit to monitor the changes of DNA structures (Graduate School of Engineering, Kyoto Univ.) TSUDA, Takuya; TANABE, Kazuhito; NISHIMOTO, Sei-ichi
- 2D7-32\*\*** Histones Probe the size of DNA at Single Nucleotide Resolution (Nagoya Univ.) SERAG, Maged; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu

Chair: KAJI, Noritada (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2D7-35, 2D7-36, 2D7-37, 2D7-38, 2D7-40)
- 2D7-35** Measurements of Enzyme reaction and characterization on DNA of physical property using the RfS-QCM (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) UEMURA, Kensuke; KAWASAKI, Takayoshi; OKAHATA, Yoshio
- 2D7-36** Analysis of pullulan property on substrates using the RfS-QCM (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) KOBAYASHI, Shinya; KAWASAKI, Takayoshi; OKAHATA, Yoshio
- 2D7-37** Analysis of DNA interaction of naphthalene diimide carrying ferrocene and  $\beta$ -cyclodextrin and its application to electrochemical detection of double stranded DNA in homogenous medium (Kyushu Institute of Technology) UMEDA, Yuta; SATO, Shinobu; TAKENAKA, Shigeori
- 2D7-38\*** PCR-free oral cancer diagnosis by FND-based electrochemical telomerase assay (Kyushu Inst. Tech.) SATO, Shinobu; MORI, Kumiko; KODAMA, Masaaki; HABU, Manabu; NISHIHARA, Tatsuji; TOMINAGA, Kazuhiro; TAKENAKA, Shigeori
- 2D7-40** The development of an alternative method of the telomerase activity detection by fluorescence quenching (Konan Univ.) KAWAMURA, Koji; MURASHIMA, Takashi; MIYOSHI, Daisuke; YAKU, Hidenobu

Chair: TAKENAKA, Shigeori (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2D7-42, 2D7-43, 2D7-44, 2D7-45, 2D7-47)
- 2D7-42\*** Effect of molecular environments on the behaviors of biomolecules (32):Tetraplex formation of telomeric repeat DNA in reverse micelle (FIBER, Konan Univ.; FIRST, Konan Univ.) PRAMANIK, Smritimoy; NAGATOISHI, Satoru; SUGIMOTO, Naoki
- 2D7-43** Effect of molecular environments on the behaviors of biomolecules (33):Interaction study of Y-box binding protein YB-1 with nucleic acids (FIBER, Konan Univ.; FIRST, Konan Univ.) NAGATOISHI, Satoru; NISHIKATA, Takahito; SUGIMOTO, Naoki
- 2D7-44** Detection of small mass changes in biomolecular reactions by using a highly-sensitive quartz crystal microbalance with a flow injection system (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) YOSHIMINE, Hiroshi; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 2D7-45\*** Information acquisition of RNA structures in aqueous solutions by using a Quartz-crystal microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) FURUSAWA, Hiroyuki; YOSHIDA, Aya; OKAHATA, Yoshio
- 2D7-47** Dynamic viscoelasticity measurements of a DNA-gel film prepared on a Quartz crystal microbalance based on an admittance analysis (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) YAMASHITA, Akihiro; FURUSAWA, Hiroyuki; OKAHATA, Yoshio

### Tuesday, March 27, AM

Chair: NAKANO, Shuichi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3D7-01, 3D7-02, 3D7-03, 3D7-04, 3D7-06)

- 3D7-01** Performance evaluation of PSO-5 as a fluorometric imaging probe for potassium ion in the living cell (Kyushu Institute of Technology) SOTA, Kojiro; OZAWA, Shinsuke; OHTSUKA, Keiichi; SATO, Shinobu; TAKENAKA, Shigeori
- 3D7-02** Fluorometric imaging of an intercellular potassium ion using DNA-peptide conjugate probe (Kyushu Institute of Technology) OHZAWA, Shinsuke; SOTA, Kojiro; MATSUDA, Tomoki; NAGAI, Takeharu; YOSHIURA, Yukiko; NAKAZAWA, Koji; SATO, Shinobu; TAKENAKA, Shigeori
- 3D7-03** Investigation of the immobilization of a DNA duplex on the gold surface using naphthalene diimide derivatives carrying thiol parts at both ends (Kyushu Institute of Technology) YAMAMURA, Kosuke; SATO, Shinobu; TAKENAKA, Shigeori
- 3D7-04\*** RNA detection by a fluorescence probe in a metastable complex form (Kyoto Univ.Institute of Advanced Energy) MATSUMOTO, Katsuhiko; NAKATA, Eiji; SAITO, Isao; MORII, Takashi
- 3D7-06** Synthesis and fluorescence properties of dye/bispyrene-conjugated RNA probes (Kyoto Inst. of Tech.) SANADA, Yuya; UEDA, Takako; KOBORI, Akio; YAMAYOSHI, Asako; MURAKAMI, Akira

Chair: SATO, Shinobu (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3D7-08, 3D7-09, 3D7-11, 3D7-12)
- 3D7-08** Effect of molecular environments on the behaviors of biomolecules (34): Effect of molecular crowding on the stability of RNA duplexes with single mismatches (FIRST, Konan Univ. and FIBER, Konan Univ.) MURAKAMI, Kentaro; TATEISHI-KARIMATA, Hisae; ENDOH, Tamaki; NAKANO, Shu-ichi; SUGIMOTO, Naoki
- 3D7-09\*** Effect of molecular environments on the behaviors of biomolecules (35) : Quantitative analysis for the stability of DNA structures in a hydrated ionic liquid (FIBER, Konan Univ.; FIRST, Konan Univ.) TATEISHI, Hisae; SUGIMOTO, Naoki
- 3D7-11** Electrochemical Evaluation of Deamination Activity in APOBEC3G with DNA Probes Immobilized onto Gold Electrode (Univ. of Toyama) AOKI, Shun; SATO, Hitoshi; CHIBA, Junya; KOUNO, Takahide; MATSUO, Hiroshi; INOUE, Masahiko
- 3D7-12\*** Analyses of the interaction between heavy metal ion and mismatched base pair containing 5-fluorouracil (Tokyo Univ. of Sci., Kanagawa Univ.) FUKUSHI, Miyako; ONO, Akira; TORIGOE, Hidetaka

Chair: KOBORI, Akio (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3D7-15, 3D7-18, 3D7-19, 3D7-20)
- 3D7-15** Young Scholar Lectures of CSJ Nucleic acid devices responding to cellular environmental factors (FIRST, Konan Univ.; FIBER, Konan Univ.) MIYOSHI, Daisuke
- 3D7-18** Characterization of interaction between heme and all-parallel G-quadruplex DNAs assembled from d(TTAGGG) or d(TTAGGGT) (Department of Chemistry, Univ of Tsukuba) SHIMIZU, Haruna; SUZUKI, Yasuhito; TAI, Hulin; YAMAMOTO, Yasuhiko
- 3D7-19** Novel amphiphilic DNA for construction of two-dimensional nanostructures on hydrophobic-hydrophilic interface (ISIR, Osaka Univ.) NAKISHI, Shingo; SHIBATA, Tomonori; DOHNO, Chikara; NAKATANI, Kazuhiko
- 3D7-20** Evaluation of Binding of Coumarin fluorochrome to DNA and RNA. (ISIR, Osaka Univ.) TSUDA, Tetsuya; UMEMOTO, Shiori; HUKUZUMI, Takeo; NAKATANI, Kazuhiko

### Tuesday, March 27, PM

Chair: KUZUYA, Akinori (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3D7-28, 3D7-30, 3D7-32, 3D7-33)
- 3D7-28\*** Effect of molecular environments on the behaviors of biomolecules (36): Quantitative analysis of DNA adsorption and desorption at graphene oxide nano surface (FIRST, Konan Univ. FIBER, Konan Univ.) FUJIMOTO, Takeshi; NAKANO, Shu-ichi; SUGIMOTO, Naoki; MIYOSHI, Daisuke
- 3D7-30\*** Effect of molecular environments on the behaviors of biomolecules (37): The factor that determines the reaction efficiency of the hairpin dimerization of RNA oligonucleotides (FIRST, Konan Univ.; FIBER, Konan Univ.) NAKANO, Shu-ichi; HIRAYAMA, Hidenobu; YAMAGUCHI, Daisuke; MIYOSHI, Daisuke; SUGIMOTO, Naoki
- 3D7-32** Double stranded DNA detection in homogenous solution using  $\beta$ -cyclodextrin and ferrocenylnaphthalene diimide (Kyushu Institute of Technology) TAKENAKA, Hirotomo; SATO, Shinobu; TAKENAKA, Shigeori
- 3D7-33\*** Development of an electrochemical analysis technique for the interaction of ferrocenylnaphthalene diimide (FND) derivatives with DNA immobilized on the electrode (Kyushu Institute of Technology) LIU, Yinyin; SATO, Shinobu; TAKENAKA, Shigeori

Chair: FUJII, Masayuki (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(3D7-35, 3D7-36, 3D7-37, 3D7-38, 3D7-40)

- 3D7-35** Intramolecular Friedel-Crafts Alkylation by DNA-Based Hybrid Catalyst (Graduate School of Science, Kyoto Univ.) PARK, Soyoung; IKEHATA, Keiichi; WATABE, Ryo; HIDAKA, Yuta; SUGIYAMA, Hiroshi
- 3D7-36** Development of a new type of DNA-Based hybrid catalyst for asymmetric synthesis (Graduate School of Science, Kyoto Univ.) PARK, Soyoung; IKEHATA, Keiichi; HIDAKA, Yuta; SUGIYAMA, Hiroshi
- 3D7-37** Development of a novel chemical ligation for the stabilization of DNA nanostructures. (Kansai Univ.) KITAWAKI, Yusuke; HAMANO, Masami; KUZUYA, Akinori; OHYA, Yuichi
- 3D7-38\*** Synthesis and properties of RNA-duplex-bindable oligodiaminosaccharides conjugated with vitamin E (The Univ. of Tokyo) IWATA, Rintaro; WADA, Takeshi
- 3D7-40** Synthesis of Vitamin E-Conjugated Neomycin Derivatives for Liver Delivery of siRNA (The Univ. of Tokyo) NAKAYAMA, Futoshi; IWATA, Rintaro; WADA, Takeshi

### Nucleic acid

Chair: KOBORI, Akio (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(3D7-42, 3D7-44, 3D7-45, 3D7-46, 3D7-47)
- 3D7-42\*** Investigation on selective RISC formation by introducing an intercalator into siRNA (Nagoya Univ.) ITO, Hiroshi; LIANG, Xingguo; ASANUMA, Hiroyuki
- 3D7-44** Effect of siRNA involving acyclic scaffold on the RNA interference (Nagoya Univ.) ITO, Hiroshi; TAKAI, Junya; MURAYAMA, Keiji; URUSHIHARA, Masaaki; ASANUMA, Hiroyuki
- 3D7-45** Design of siRNA involving a dye pair towards the selective fluorescent monitoring of RISC (Nagoya Univ.) URUSHIHARA, Masaaki; ITO, Hiroshi; KASHIDA, Hiromu; LIANG, Xingguo; ASANUMA, Hiroyuki
- 3D7-46** Non-toxic Intracellular Delivery of siRNA by Amphiphilic Peptides and Silencing of hTERT (Univ. of Kinki) FUJIAKI, Shutaro; FUJII, Masayuki
- 3D7-47** Enzymatic synthesis of siRNA bearing C-5 polyamine modifiedpyrimidine nucleoside in their 3'-overhang regions (Gunma Univ., Graduate School of Engineering) MASUDA, Tomokazu; KIMURA, Shingo; OZAKI, Hiroaki

Chair: OZAKI, Hiroaki (17 : 00~17 : 30)

- \* 16:50-17:00: interval for laptop PC connection.(3D7-49, 3D7-51)
- 3D7-49\*** Regulation of RISC function by photo-reactive oligonucleotides (II) Optimization of introduction position of Psoralen-conjugated adenosine into antisense oligonucleotides (Kyoto Inst. of Tech.) MATSUYAMA, Yohei; YAMAYOSHI, Asako; KOBORI, Akio; MURAKAMI, Akira
- 3D7-51** Inhibition of RISC functions by antisense oligonucleotides containing a linker moiety (Kyoto Inst. of Tech.) YAMAYOSHI, Asako; MUKAI, Takatoshi; KOBORI, Akio; MURAKAMI, Akira

### Wednesday, March 28, AM

Chair: WADA, Takehiko (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4D7-01, 4D7-02, 4D7-03, 4D7-05, 4D7-06)
- 4D7-01** Application of a nanomechanical DNA origami device to pH sensor. (Kansai Univ.) YAMANAKA, Yusei; TAMAKI, Takuya; SAKAI, Yusuke; YAMAZAKI, Takahiro; XU, Yan; KUZUYA, Akinori; OHYA, Yuichi; KOMIYAMA, Makoto
- 4D7-02** Construction of a new nanomechanical DNA origami device with four flexible joints (Kansai Univ.) MINAMIDA, Shinya; HASHIZUME, Mirai; KUZUYA, Akinori; OHYA, Yuichi
- 4D7-03\*** To reveal the Cre recombinase reaction mechanism using a defined DNA nanostructure (Department of Chemistry, Graduate School of Science Kyoto Univ. Institute for Integrated Cell-Material Sciences, Kyoto Univ.) KATSUDA, Yousuke; ENDO, Masayuki; OU, Keiyu; HIDAKA, Kumi; SUGIYAMA, Hiroshi
- 4D7-05** Direct visualization of single molecular behavior of RNA polymerase in the designed DNA nanostructure (Kyoto Univ. Dept. of Science; Kyoto Univ. iCeMS) TATSUMI, Koichi; ENDO, Masayuki; TERUSHIMA, Kosuke; KATSUDA, Yousuke; HIDAKA, Kumi; SUGIYAMA, Hiroshi
- 4D7-06** Sequence-Selective Single Molecular Alkylation with a Pyrrole-Imidazole Polyamide Visualized in the DNA Nanoscaffold (Graduate School of Science, Kyoto Univ.) YOSHIDOME, Tomofumi; ENDO, Masayuki; BANDO, Toshikazu; SUGIYAMA, Hiroshi

Chair: KUZUYA, Akinori (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4D7-08, 4D7-09, 4D7-10, 4D7-11, 4D7-12, 4D7-13)
- 4D7-08<sup>#</sup>** Enhanced thermal-stability of DNA origami structures by photo-cross-linking and its application for self-assembly (Kyoto Univ. Graduate School of Science; Kyoto Univ. iCeMS) ARIVAZHAGAN, Rajendran; ENDO, Masayuki; HIDAKA, Kumi; SUGIYAMA, Hiroshi
- 4D7-09<sup>#</sup>** Photo-regulation of DNA nanostructures (Kyoto Univ. Graduate School of Science; Kyoto Univ. iCeMS) YANG, Yangyang; ENDO, Masayuki; HIDAKA, Kumi; SUGIYAMA, Hiroshi
- 4D7-10** Transcriptional regulation by mechanical operation of DNA nanos-

structure (Kyoto Univ. Graduate School of Science; Kyoto Univ. iCeMS) ENDO, Masayuki; MIYAZAKI, Ryoji; EMURA, Tomoko; HIDAKA, Kumi; SUGIYAMA, Hiroshi

- 4D7-11** Arranging functional proteins on DNA origami via zinc finger (Kyoto Univ., Institute of Advanced Energy) NISHIGUCHI, Yasuhiro; LIEW, Fong Fong; NAKATA, Eiji; MORII, Takashi
- 4D7-12** Crosslinking of DNA duplexes via photodimerization of stilbazoles (Nagoya Univ.) DOI, Tetsuya; SAKAKIBARA, Takumi; HAYASHI, Takamitsu; FUJII, Taiga; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 4D7-13** Synthesis of novel Nile Red analogs and application for DNA labeling (Gunma Univ.) NAKAMURA, Masahide; NAKAMORI, Kazuya; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo

Chair: KASHIDA, Hiromu (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4D7-15, 4D7-17, 4D7-18, 4D7-19, 4D7-20)
- 4D7-15\*** Development of the time-resolved CD measurement system with high sensitivity for structure change detection of biomolecules (XI) - Studies on structural dynamics of d(A-T) oligomer - (IMRAM, Tohoku Univ.) MURAKAMI, Makoto; HAMADA, Yoshiki; ARAKI, Yasuyuki; SAKAMOTO, Seiji; WADA, Takehiko
- 4D7-17** Solid-phase synthesis of 2,2,7-trimethylguanosine cap using S-phenyl phosphorothioate derivatives (Tokyo Institute of Technology) YAMADA, Ken; SUZUKI, Makoto; YOKOUCHI, Akira; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 4D7-18** Synthesis of 2'-ribonucleotide 5'-triphosphates having modified nucleobases and incorporation of those derivatives by RNA polymerase (Tokyo Institute of Technology) TSUNODA, Hirosuke; YAMAZAKI, Kazufumi; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 4D7-19** A novel method for DNA synthesis by the chemoselective phosphorylation using 2'-deoxyribonucleosides as monomer units (Univ. of Tokyo) NAKADA, Takuya; WADA, Takeshi
- 4D7-20** Oligoribonucleotide synthesis by using 4-methoxybenzylloxymethyl (MBOM) as a new 2'-OH protecting group (Univ. of Tokyo; Frontier Sciences) NUKAGA, Yohei; WADA, Takeshi

### Wednesday, March 28, PM

Chair: KATOH, Teru (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4D7-28, 4D7-29, 4D7-31, 4D7-32, 4D7-33)
- 4D7-28** High-throughput screening of chemical libraries for the discovery of RNA-binding compounds (ISIR, Osaka Univ.) MURATA, Asako; HARADA, Yasue; FUKUZUMI, Takeo; UMEMOTO, Shiori; IM, Seongwang; HAGIHARA, Masaki; NAKATANI, Kazuhiko
- 4D7-29\*** Application for The Fluorescent Detection of Single Nucleotide Difference Using Hairpin-primer (ISIR, Osaka Univ.) CHEN, Xi; TAKEI, Fumie; DOHNO, Chikara; NAKATANI, Kazuhiko
- 4D7-31** Synthesis and photoreactive properties of the modified DNA containing benzofenone moieties (Gunma Univ.) MUROGA, Hiroshi; TAMURA, Yuji; MORIGUTI, Tomohisa; SHINOZUKA, Kazuo
- 4D7-32** Reaction-based fluorescence probe for nucleic acid detection (RIKEN) SNAEYOSHI, Hisao; ABE, Hiroshi; UDA, Miwako; TSUNEDA, Satoshi; ITO, Yoshihiro
- 4D7-33** Development of Dumbbell-form DNA probe the silylated pyrene (Gunma Univ.) KANAZAWA, Nozomi; WATANABE, Shinji; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo

### Nucleic acid

Chair: KUWAHARA, Masayasu (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4D7-35, 4D7-36, 4D7-37, 4D7-38, 4D7-39)
- 4D7-35** Improvement of VEGF-binding ability of DNA aptamer by *in silico* maturation and its characterization (Tokyo Univ. of Agric. & Technol.) FUKAYA, Takahiro; NONAKA, Yoshihiko; ABE, Koichi; IKEBUKURO, Kazunori
- 4D7-36** Development of a Bound/Free separation system using an aptamer and a CaPNA (Tokyo Univ. of Agric. & Technol.) IKEBUKURO, Kazunori; MITA, Chifuku; ABE, Koichi; NONAKA, Yoshihiko; FUKAYA, Takahiro
- 4D7-37** Development of aptamer labeled with GDH by zinc finger protein fused GDH (Tokyo Univ. of Agric. & Technol.) TATSUMI, Atsuro; ABE, Koichi; FUKAYA, Takahiro; NONAKA, Yoshihiko; SODE, Koji; IKEBUKURO, Kazunori
- 4D7-38** Stepwise functionalization of RNA aptamers by assembling the ribonucleopeptide complex (IAE, Kyoto Univ.; CREST, JST) TAMURA, Tomoki; NAKANO, Shun; NAKATA, Eiji; MORII, Takashi
- 4D7-39\*** Real-time monitoring of transmitters on cell surface by nucleic acid aptamer. (Kyushu Univ.) TOKUNAGA, Takeshi; NAMIKI, Shigeyuki; YAMADA, Katsuhiko; IMAISHI, Takahiro; NONAKA, Hiroshi; HIROSE, Kenzo; SANDO, Shinsuke

Chair: NONAKA, Hiroshi (15 : 50~17 : 00)

- \* 15:40-15:50: interval for laptop PC connection.(4D7-42, 4D7-43, 4D7-45,

4D7-46, 4D7-48)

- 4D7-42** Screening and characterization of DNA aptamers which bind to alpha-fetoprotein (Tokyo Univ. of Agric. & Technol.) SAITO, Taiki; YOSHIDA, Wataru; ABE, Koichi; IKEBUKURO, Kazunori
- 4D7-43\*** Creating and functional evaluation artificial nucleic acid aptamer by CE-SELEX (Graduate School of Engineering, Gunma Univ.) KASAHARA, Yuuya; IRISAWA, Yuuta; KUWAHARA, Masayasu
- 4D7-45** Synthesis and fluorescent properties of ATP aptamer modified by the silylated perylene. (Gunma Univ.) KAGEYAMA, Manatsu; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo
- 4D7-46\*** Flow cytometric detection of amyloid beta oligomers using magnetic beads modified with amyloid protein oligomer-specific aptamers. (Tokyo Univ. of Agric. & Technol.) TSUKAKOSHI, Kaori; ABE, Koichi; TAKEDA, Kazuo; FUJIMURA, Yuu; SODE, Koji; IKEBUKURO, Kazunori
- 4D7-48** Structure/function analyses of anticancer drug-binding aptamers (Univ. of Gunma) IMAIZUMI, Yuri; UMEDA, Maki; KITAZUME, Syunsuke; KUWAHARA, Masayasu

**Room E1**  
4th Bldg. Independence Wing D310

**Natural Products Chemistry**

**Monday, March 26, AM**

**Fatty acids, polyphenols, and the related compounds**

Chair: KITA, Masaki (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2E1-01, 2E1-02, 2E1-04, 2E1-05, 2E1-06)
- 2E1-01** Efficient synthetic method of five-membered lactams utilizing Bischler-Napieralski reaction (2) (Faculty of Science and Technology, Keio Univ.) ONOZUKA, Masao; ADACHI, Satoshi; SAIKAWA, Yoko; NAKATA, Masaya
- 2E1-02\*** Total Synthesis of Lactonamycin (Faculty of Science and Technology, Keio Univ.) ADACHI, Satoshi; WATANABE, Kana; IWATA, Yusuke; KAMEDA, Shunsuke; MIYAOKA, Yoshihito; ONOZUKA, Masao; SAIKAWA, Yoko; NAKATA, Masaya
- 2E1-04** Asymmetric Total Synthesis of (3R,23R)-Eushearilide (Tokyo Univ. of Science) TONOI, Takayuki; SHIINA, Isamu
- 2E1-05** Asymmetric Total Synthesis of (21R,22S)-Astakolactin (Tokyo Univ. of Science) SHIINA, Isamu; MAMEDA, Keisuke
- 2E1-06** Synthesis of Derivatives of Yuzu-lactone (Tokyo Univ. of Science) SHIINA, Isamu; WANG, Yanwen
- Chair: TAKIKAWA, Hiroshi (10:10~11:10)
- \* 10:00-10:10: interval for laptop PC connection.(2E1-08, 2E1-09, 2E1-10, 2E1-11, 2E1-12, 2E1-13)
- 2E1-08** Total Synthesis and Structural Revision of Hericerin (Faculty of Engineering, Osaka Institute of Technology) KOBAYASHI, Shoji; INOUE, Tomoharu; KURODA, Hiroyuki; MASUYAMA, Araki
- 2E1-09** Synthetic Study of Hericenones (Faculty of Engineering, Osaka Institute of Technology) KOBAYASHI, Shoji; TAMANOI, Hidetsugu; KURODA, Hiroyuki; MASUYAMA, Araki
- 2E1-10** Synthetic Studies on the Macrolactone Moiety of Mycalolide B (Univ. of Tsukuba) OKA, Hirotaka; USUI, Akihiro; ISHITSUKA, Tomoya; KITA, Masaki; KIGOSHI, Hideo
- 2E1-11** Synthetic Studies on Mycalolide B, a Marine Macrolidewith an Actin-depolymerizing Activity (Univ. of Tsukuba) USUI, Akihiro; OKA, Hirotaka; ISHITSUKA, Tomoya; KITA, Masaki; KIGOSHI, Hideo
- 2E1-12** Synthetic study of biselide E (Univ. of Tsukuba) ONOZAKI, Yuto; YAMADA, Takuya; KAWAMURA, Dai; SATO, Yosuke; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 2E1-13** Synthetic study of biselides A and B. (Univ. of Tsukuba) SATOH, Yosuke; YAMADA, Takuya; ONOZAKI, Yuto; HAYAKAWA, Ichiro; KIGOSHI, Hideo

Chair: TANAKA, Hiroshi (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(2E1-15, 2E1-16, 2E1-17, 2E1-18, 2E1-20)
- 2E1-15** Asymmetric Total Synthesis of (1S,2R,4R,5R,9S)-Merrillianin (Tokyo Univ. of Science) IIZUMI, Takashi; YAMADA, Tetsuro; KAGEYAMA, Yosuke; SHINOHARA, Shoujirou; SHIINA, Isamu
- 2E1-16** Asymmetric Total Synthesis of (1S,2R,4R,5S,9S)-Merrillianin (Tokyo Univ. of Science) IIZUMI, Takashi; YAMADA, Tetsuro; KAGEYAMA, Yosuke; SHINOHARA, Shoujirou; SHIINA, Isamu
- 2E1-17** Asymmetric Total Synthesis of (-)-Tetrahydrolipstatin via Modified Kinetic Resolution of Racemic Propargylalcohol (Tokyo Univ. of Science) UMEZAKI, Yuma; KURODA, Nobutaka; IIZUMI, Takashi; SHIINA, Isamu

- 2E1-18\*** Synthetic Study on BE-43472B (Graduate School of Science and Technology, Tokyo Institute of Technology) YAMASHITA, Yu; HIRANO, Yoichi; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 2E1-20** Synthetic Study on BE-43472B : Stereoselective Installation of C11 Methyl Group. (Graduate School of Science and Technology, Tokyo Institute of Technology) YAMASHITA, Yu; HIRANO, Yoichi; TAKIKAWA, Hiroshi; SUZUKI, Keisuke

**Monday, March 26, PM**

Chair: URABE, Daisuke (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(2E1-28, 2E1-29, 2E1-30, 2E1-31, 2E1-32, 2E1-33)
- 2E1-28** Synthetic study on saptomycin H (Tokyo Institute of Technology) MAEZAWA, Yoshihiko; KITAMURA, Kei; ANDO, Yoshio; MATSUMOTO, Takashi; SUZUKI, Keisuke
- 2E1-29** Efficient synthesis of aglycon of pluramycins (Tokyo Institute of Technology) KITAMURA, Kei; MAEZAWA, Yoshihiko; ANDO, Yoshio; MATSUMOTO, Takashi; SUZUKI, Keisuke
- 2E1-30** Synthetic studies on the total synthesis of naphthocyclinone antibiotics (Department of chemistry, Tokyo Institute of Technology) HORI, Subaru; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 2E1-31** Synthetic study on naphthospirozone A (Tokyo Institute of Technology) SAKATA, Juri; ANDO, Yoshio; OMORI, Ken; SUZUKI, Keisuke
- 2E1-32** The Synthesis of Fluorescent-labeled Epigallocatechin Gallate Derivatives by Imidation of  $\alpha$ -Ketoamide with Hydroxylamine. (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) TANAKA, Hiroshi; TANIMOTO, Yosuke; KUMAZOE, Motofumi; SUEMASU, Yumi; TACHIBANA, Hirofumi; TAKAHASHI, Takashi
- 2E1-33** Synthetic Study of the Landomycinone Skeleton via Intramolecular Masamune-Bergmann Cyclization. (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) TANAKA, Hiroshi; YAMAGUCHI, Sho; TAKAHASHI, Takashi

**Tuesday, March 27, AM**

**Fatty acids, polyphenols, and the related compounds**

Chair: TAKAMURA, Hiroyoshi (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3E1-01, 3E1-02, 3E1-03, 3E1-04, 3E1-05, 3E1-06)
- 3E1-01** Convenient System for Copper(II)-Catalyzed O-Arylation of TertiaryAlcohols with Triarylborane(III)/Iodobenzene diacetate. (Graduate School of Science, Tohoku Univ.) HAYASHI, Daisuke; HARADA, Syuji; SATO, Itaru; HIRAMA, Masahiro
- 3E1-02** Synthetic Study of Ustiloxin D (Graduate School of Science, Tohoku Univ.) HARADA, Syuji; HAYASHI, Daisuke; SATO, Itaru; HIRAMA, Masahiro
- 3E1-03** Synthetic Studies on Presporolide(1) (Graduate School of Science, Tohoku Univ.) OZEKI, Eri; TERAYAMA, Kanae; YAMASHITA, Shuji; HIRAMA, Masahiro
- 3E1-04** Synthetic Studies on Presporolide(2) (Faculty of Science, Tohoku Univ.) TERAYAMA, Kanae; OZEKI, Eri; YAMASHITA, Shuji; HIRAMA, Masahiro
- 3E1-05** Stereoselective Synthesis of the C1-C16 Fragment of Goniiodomin A (Graduate School of Life Sciences, Tohoku Univ.) NAKAJIMA, Motohiro; FUWA, Haruhiko; SASAKI, Makoto
- 3E1-06** A Convergent Synthesis of the C12-C36 Fragment of Goniiodomin A (Graduate School of Life Sciences, Tohoku Univ.) MATSUKIDA, Seiji; SAITO, Tomoyuki; FUWA, Haruhiko; SASAKI, Makoto

Chair: SATO, Itaru (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(3E1-08, 3E1-09, 3E1-10, 3E1-11, 3E1-12)
- 3E1-08** Synthetic studies on 13-demethyllyngbyalide B (Graduate School of Life Sciences, Tohoku Univ.) YAMAGATA, Naoya; FUWA, Haruhiko; SASAKI, Makoto
- 3E1-09** Studies toward the Total Synthesis of Iriomoteolide-2a (Graduate School of Life Sciences, Tohoku Univ.) ICHINOKAWA, Naoki; FUWA, Haruhiko; SASAKI, Makoto
- 3E1-10** Studies toward the Total Synthesis of a Marine Toxin Polycavernoside A (Graduate School of Life Sciences, Tohoku Univ.) KASAI, Yusuke; ITO, Takanori; SASAKI, Makoto
- 3E1-11** Asymmetric Total Synthesis of the Assumed Structure of Actinolactomycin and Determination of Its True Structure (Tokyo Univ. of Science) UMEZAKI, Yuma; KURODA, Nobutaka; OUCHI, Mizue; SHIINA, Isamu
- 3E1-12\*** Asymmetric Total Synthesis of Nonactin and Its Derivatives via Kinetic Resolution of Racemic Propargylalcohol (Tokyo Univ. of Science) UMEZAKI, Yuma; KURODA, Nobutaka; OUCHI, Mizue; SHIINA, Isamu

Chair: FUWA, Haruhiko (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(3E1-15, 3E1-16, 3E1-17,

3E1-18, 3E1-19, 3E1-20)

- 3E1-15** Synthetic study of Kosinostatin A-E rings (Kyusyu Institute of Technology) MATSUURA, Taisuke; MATSUZAKI, Hiroki; ARAKI, Keiichirou; FUKUZUMI, Noriyuki; OKAUCHI, Tatsuo; KITAMURA, Mitsuru
- 3E1-16** Confirmation of the Absolute Configuration at C44-C50 of Amphidinol 3 (Graduate School of Sciences, Kyushu Univ.) MANABE, Yoshiyuki; KANEMOTO, Mitsunori; EBINE, Makoto; TORIKAI, Kohei; MATSUMORI, Nobuaki; MURATA, Michio; OISHI, Tohru
- 3E1-17** Total Synthesis and Absolute Configurational Determination of (-)-Gummiferol (Okayama Univ.) WADA, Hiroko; LU, Nan; TAKAMURA, Hiroyoshi; KADOTA, Isao
- 3E1-18** Synthetic Study of Enigmazole A (Okayama Univ.) KISHI, Takayuki; FUJISAWA, Yuka; TAKAMURA, Hiroyoshi; KADOTA, Isao
- 3E1-19** Synthesis of the C79-C97 Fragment of Symbiodinolide (Okayama Univ.; Kanagawa Univ.) FUJIWARA, Takayuki; TAKAMURA, Hiroyoshi; KADOTA, Isao; UEMURA, Daisuke
- 3E1-20** Synthetic study of dehydrodigalloyl group (School of Science and Technology, Kwansei Gakuin Univ.) HIROKANE, Tsukasa; YAMADA, Hidetoshi

## Tuesday, March 27, PM

Chair: TORIKAI, Kohei (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3E1-28, 3E1-30, 3E1-32)
- 3E1-28\*** Synthetic Studies on PPAPs (Dept. of Chem. and BioChem., Adv. Sch. of Sci. and Engin., Waseda Univ.) UWAMORI, Masahiro; SAITO, Aya; NAKADA, Masahisa
- 3E1-30\*** Synthetic Studies on Gambieric Acid A (Graduate School of Life Sciences, Tohoku Univ.) ISHIGAI, Kazuya; HASHIZUME, Keisuke; FUWA, Haruhiko; SASAKI, Makoto
- 3E1-32\*** Total Synthesis of Riccardin C and Cavicularin, Macrocyclic Bisbenzyl Natural Products (Graduate School of Science and Technology, Tokyo Institute of Technology) TAKIGUCHI, Hiromu; OHMORI, Ken; SUZUKI, Keisuke

Chair: SATAKE, Masayuki (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(3E1-35, 3E1-36, 3E1-37, 3E1-38, 3E1-39, 3E1-40)
- 3E1-35** Structural elucidation of the novel polyol compounds, amdigenols, produced by the dinoflagellate *Amphidinium* sp. (Life Science Research Center, Gifu Univ.; Faculty of Engineering, Gifu Univ.; Faculty of Science, Kanagawa Univ.) INUZUKA, Toshiyasu; YAMAMOTO, Yutaka; YAMADA, Kaoru; UEMURA, Daisuke
- 3E1-36** Biological Activities of Novel Macrolides Leptolyngbyolides from Marine Cyanobacteria (Faculty of Science and Technology, Keio Univ.) MORITA, Maho; OHNO, Osamu; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 3E1-37** Isolation and Structures of the Macrolides Biselyngbyasides from Marine Cyanobacteria (Faculty of Science and Technology, Keio Univ.) MORITA, Maho; OHNO, Osamu; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 3E1-38** Analysis of Interaction between Ladder-Shaped Polyethers and Their Binding Motifs (Univ. of Osaka) FUJIWARA, Tomomi; UJIHARA, Satoru; TSUCHIKAWA, Hiroshi; TORIKAI, Kohei; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio
- 3E1-39** Amphotericin B-ergosterol interactions in lipid membrane as viewed by solid-state NMR (Univ. of Osaka;) NAKAGAWA, Yasuo; UMEGAWA, Yuichi; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio
- 3E1-40** Detection of proteins that interact with Ladder-shaped polyether Yessotoxin (Univ. of Osaka) HAYASHI, Kanako; TAMATE, Rie; UJIHARA, Satoru; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio; SUGIYAMA, Naoyuki

Chair: MATSUMORI, Nobuaki (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(3E1-42, 3E1-43, 3E1-44, 3E1-45, 3E1-46)
- 3E1-42** Structures of New Polycyclic Ether Toxins from the Red Tide Dinoflagellate *Karenia brevisulcata* in New Zealand (The Univ. of Tokyo; Cwathron Institute) HAMAMOTO, Yuka; SATAKE, Masayuki; TACHIBANA, Kazuo; HOLLAND, Patrick; BEUZENBERG, Veronica; SHI, Feng
- 3E1-43** Synthetic study for structure determination of polycyclic ether KBT-F (Univ. of Tokyo) SASAKI, Koji; HAMAMOTO, Yuka; SATAKE, Masayuki; TACHIBANA, Kazuo
- 3E1-44** Study on the Action Mechanism of an Anticancer Macrolide Aplyronine A with a Fluorescent Probe (Univ. of Tsukuba) YONEDA, Kozo; HIRAYAMA, Yuichiro; YAMAGISHI, Kota; KITA, Masaki; SUGIYAMA, Yuka; MIWA, Yoshihiro; KIGOSHI, Hideo
- 3E1-45** Study on the Target Proteins of an Antitumor Macrolide Aplyronine A with Photoaffinity Probes (1) (Univ. of Tsukuba) YAMAGISHI, Kota; HIRAYAMA, Yuichiro; YONEDA, Kozo; FUJISAWA, Ryosuke; KITA, Masaki; KIGOSHI, Hideo
- 3E1-46\*** Study on the Target Proteins of an Antitumor Macrolide Aplyronine

A with Photoaffinity Probes (2) (Univ. of Tsukuba) HIRAYAMA, Yuichiro; YONEDA, Kozo; YAMAGISHI, Kota; KITA, Masaki; KIGOSHI, Hideo

## Wednesday, March 28, AM

### Fatty acids, polyphenols, and the related compounds

Chair: YAMADA, Hidetoshi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4E1-01, 4E1-02, 4E1-03, 4E1-04, 4E1-05, 4E1-06)
- 4E1-01** Synthetic studies on Reidispongolide A, an actin-depolymerizing Macrolide (Faculty of Science and Technology, keio) SUZUKI, Kazushi; TORIIHARA, Eisuke; AKIYAMA, Satoshi; TERUYA, Toshiaki; OHNO, Osamu; SUENAGA, Kiyotake
- 4E1-02** Synthetic Study on Biselyngbyasides (Keio Univ.) NAKAJIMA, Naoya; TANABE, Yurika; OHKUBO, Akihumi; SUENAGA, Kiyotake
- 4E1-03** Synthetic Studies on Avermectin B1a (Graduate School of Science, Tohoku Univ.) NAKANO, Aoi; YAMASHITA, Shuji; HIRAMA, Masahiro
- 4E1-04** Synthetic Study of Kedarcidin Chromophore (Graduate School of Science, Tohoku Univ.) HIRAI, Keiichiro; OGAWA, Kouki; SATO, Itaru; HIRAMA, Masahiro
- 4E1-05** Synthetic Study of Cyanosporaside (Graduate School of Science, Tohoku Univ.) YAMADA, Kei; YAMAGUCHI, Takaya; SATO, Itaru; HIRAMA, Masahiro
- 4E1-06** Synthetic Study of Aspercyclides (Graduate School of Science, Tohoku Univ.) YOSHINO, Tatsuya; SATO, Itaru; HIRAMA, Masahiro

Chair: FUJIWARA, Kenshu (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4E1-08, 4E1-09, 4E1-10, 4E1-11, 4E1-12, 4E1-13)
- 4E1-08** Concise Total Synthesis of Neopeltolide and Development of a Focused Library of Structural Analogues (Graduate School of Life Sciences, Tohoku Univ.) NOTO, Kenkichi; KAWAKAMI, Masato; SAITO, Asami; SUGA, Yuto; FUWA, Haruhiko; SASAKI, Makoto
- 4E1-09** Synthesis and Biological Evaluation of Structurally Simplified Analogues of Gambierol, A Potent Blocker of Voltage-Gated Potassium Channels (Graduate School of Life Sciences, Tohoku Univ.; Graduate School of Agricultural Science, Tohoku Univ.; Faculdade de Veterinaria, Universidade de Santiago de Compostela) SUGA, Yuto; FUWA, Haruhiko; SASAKI, Makoto; KONOKI, Keiichi; YOTSU-YAMASHITA, Mari; ALONSO, E.; VALE, C.; BOTANA, L.M.
- 4E1-10** Synthesis and Biological Assessment of (-)-Exiguolide Analogues. (Graduate School of Life Sciences, Tohoku Univ.; Institute of Development, Aging and Cancer, Tohoku Univ.; Tohoku Univ. School of Medicine) MIZUNUMA, Kana; FUWA, Haruhiko; SASAKI, Makoto; SUZUKI, Takaya; KUBO, Hiroshi
- 4E1-11** Synthetic study of myriocin (Kochi Univ.) KINUTANI, Takahiro; ICHIKAWA, Yoshiyasu
- 4E1-12** Asymmetric synthesis of [6]-gingerol (Waseda Univ.) FUKUSHIMA, Kazunori; KAMIKIHARA, Keigo; QIU, Fangming; IRII, Hiroyuki; MATSUZAKA, Teruki; OKAMOTO, Mayumi; SHIMIZU, Isao
- 4E1-13** Synthetic study of Roxbin B (School of Science and Technology, Kwansei Gakuin Univ.) YAMAGUCHI, Sayuri; ASHIKAGA, Yoshiki; YAMADA, Hidetoshi

Chair: ICHIKAWA, Yoshiyasu (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4E1-15, 4E1-16, 4E1-17, 4E1-19, 4E1-20)
- 4E1-15** Studies toward Stereoselective installation of the A-ring Bromine group of Armatol F (Faculty of Sci., Hokkaido Univ.) HIROSE, Yuta; FUJIWARA, Kenshu; SATO, Daisuke; KATOONO, Ryou; KAWAI, Hidetoshi; SUZUKI, Takanori
- 4E1-16** An approach to install a bromine group in the D-ring of Armatol F (Grad. Sch. of Science, Hokkaido Univ.) TANAKA, Keita; FUJIWARA, Kenshu; KATAGIRI, Yasushi; KATOONO, Ryo; KAWAI, Hidetoshi; SUZUKI, Takanori
- 4E1-17\*** Asymmetric Total Synthesis of (1S,2R,4S,5S,9R)-Merrillianin (Tokyo Univ. of Science) IIZUMI, Takashi; YAMADA, Tetsuro; SHINOHARA, Shoujiro; KAGEYAMA, Yousuke; KUBOKI, Teppei; SHIINA, Isamu
- 4E1-19** Asymmetric Total Synthesis of (1S,2R,4S,5R,9R)-Merrillianin (Tokyo Univ. of Science) IIZUMI, Takashi; YAMADA, Tetsuro; SHINOHARA, Shoujiro; KAGEYAMA, Yousuke; SHIINA, Isamu
- 4E1-20** Synthesis of sphingomyelin analogues toward elucidation of the microdomain properties (School of Science and Technology, Kwansei Gakuin Univ.) YAMAGUCHI, Sho; KURITA, Mayuko; YAMAMOTO, Tetsuya; SLOTTE, J.P.; KATSUMURA, Shigeo

## Wednesday, March 28, PM

Chair: YAMASHITA, Shuji (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4E1-28, 4E1-29, 4E1-30, 4E1-31, 4E1-32, 4E1-33)
- 4E1-28** Study of the Mukaiyama aldol-type reaction of a  $\gamma$ -pyrone (Univ. of Tsukuba) TAKEMURA, Takuma; TANABE, Satoshi; HAYAKAWA,

Ichiro; KIGOSHI, Hideo

- 4E1-29** Second-generation synthesis of aplyronine A. (Univ. of Tsukuba) KOBAYASHI, Shinichi; KOBAYASHI, Kenichi; FUJII, Yusuke; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 4E1-30** Synthetic studies of a hybrid compound of aplyronine A and swinholid A. (Univ. of Tsukuba) TAKENO, Koichi; EBIHARA, Yuta; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 4E1-31** Synthesis of Heliannuol E by using  $\alpha$ -Selective Propargylic Substitution (Tokyo Institute of Technology, School of Bioscience and Biotechnology) KANEKO, Misaki; KOBAYASHI, Yuichi
- 4E1-32** Synthesis of cyclobakuchiol A by using  $S_N2'$  type allylic substitution (Tokyo Institute of Technology; Department of bimolecular Engineering) SAKAI, Masahiro; KOBAYASHI, Yuichi
- 4E1-33** Synthetic study of dermocanarin II (Department of Chemistry, Tokyo Institute of Technology; School Pharmacy, Tokyo Univ. of Pharmacy and Life Sciences; SORST) YAMAGUCHI, Satoru; TAKAHASHI, Nobuyuki; YUYAMA, Daisuke; SUZUKI, Keisuke; MATSUMOTO, Takashi

Chair: KOBAYASHI, Yuichi (14 : 40~15 : 10)

- \* 14:30-14:40: interval for laptop PC connection.(4E1-35, 4E1-36, 4E1-37)
- 4E1-35** Chemoselective deprotection of silyl ethers by DIBALH: development and application (School of Science, The Univ. of Tokyo) ISHIIHARA, Shuji; KURANAGA, Takefumi; SATAKE, Masayuki; TACHIBANA, Kazuo
- 4E1-36** Three-Components Coupling Reaction with Aldehyde, Acyl Fluoride and Trimethylsilylmethyl Phosphonate (Hokkaido Univ.) UMEZAWA, Taiki; SEINO, Tomoya; MATSUDA, Fuyuhiko
- 4E1-37** Synthesis of the EF-ring of CTX3C : The attachment of the F-ring to the E-ring in a stereoselective manner (Faculty of Sci., Hokkaido Univ.) NOGOSHI, Keisuke; FUJIWARA, Kenshu; KATOONO, Ryou; KAWAI, Hidetoshi; SUZUKI, Takanori

**Room E2**  
4th Bldg. Independence Wing D311

## Natural Products Chemistry

Monday, March 26, AM

### Terpenes, Steroids

Chair: HAYAKAWA, Ichiro (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2E2-01, 2E2-02, 2E2-03, 2E2-04, 2E2-05, 2E2-06)
- 2E2-01** Synthetic studies on Taxol (1) (Keio Univ.) NOZAKI, Yasuyoshi; KODAMA, Keisuke; YAMAZAKI, Hirohisa; ISHIMOTO, Takeru; TANAKA, Yuta; SATO, Takaaki; CHIDA, Noritaka
- 2E2-02** Synthetic Studies on Taxol(2) (Keio Univ.) YAMAZAKI, Hirohisa; NOZAKI, Yasuyoshi; KODAMA, Keisuke; ISHIMOTO, Takeru; TANAKA, Yuta; SATO, Takaaki; TIDA, Noritaka
- 2E2-03** Synthetic Studies of Azadiractin AB-ring (Graduate School of Science, Tohoku Univ.) MUTAI, Yosuke; HIMURO, Masafumi; YAMASHITA, Shuji; HIRAMA, Masahiro
- 2E2-04** Synthetic Study of Azadiractin CD-Ring (Graduate School of Science, Tohoku Univ.) HIMURO, Masafumi; MUTAI, Yosuke; YAMASHITA, Shuji; HIRAMA, Masahiro
- 2E2-05** Synthetic studies on Strongylophorine 2 (Graduate School of Nanobioscience, Yokohama City Univ.) OIKAWA, Yuya; ISHIKAWA, Yuichi; OIKAWA, Masato
- 2E2-06** Synthetic study on the hydrophilic moiety of scyphostatin (Faculty of Pharmacy, Keio Univ.) SUZUKI, Masashi; INAMI, Yoshikazu; SUGAI, Takeshi; SHOJI, Mitsuru

Chair: SHIINA, Isamu (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2E2-08, 2E2-09, 2E2-10, 2E2-11, 2E2-12, 2E2-13)
- 2E2-08** Synthetic Study of Limonin (Graduate School of Science, Tohoku Univ.) NARUKO, Akito; NAKAZAWA, Yuki; YAMASHITA, Shuji; HIRAMA, Masahiro
- 2E2-09** Synthetic Study of Azadiradione (Graduate School of Science, Tohoku Univ.) YAMADA, Takahiro; NARUKO, Akito; NAKAZAWA, Yuki; YAMASITA, Shuji; HIRAMA, Masahiro
- 2E2-10** Studies on Polyfunctionalized Steroids via Domino Cyclization (Tohoku Univ.; Keio Univ.) SUZUKI, Eriko; UEDA, Minoru; SUGAI, Takeshi; SHOJI, Mitsuru
- 2E2-11** Synthetic study of carnosic acid based on diastereoselective domino cyclization (Faculty of Pharmacy, Keio Univ.) MACHIDA, Takuya; UEMURA, Koichi; HIGASHI, Toshinori; SUGAI, Takeshi; SHOJI, Mitsuru
- 2E2-12** Synthetic Study of Sarcophytonolide C (Okayama Univ.) IWAMOTO, Kohei; NAKAO, Eiji; TAKAMURA, Hiroyoshi; KADOTA, Isao

- 2E2-13** Total Synthesis of Heronapyrrole C Based on the Biomimetic Cyclization (Graduate School of Sci., Osaka City Univ.) MATSUO, Tomoki; MITANI, Hikaru; KODAMA, Takeshi; TACHI, Yoshimitsu; MORIMOTO, Yoshiki

Chair: OIKAWA, Masato (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2E2-15, 2E2-17, 2E2-19)
- 2E2-15\*** Total synthesis of 13-oxingenol (Univ. of Tsukuba) OHYOSHI, Takayuki; FUNAKUBO, Shota; MIYAZAWA, Yamato; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 2E2-17\*** Synthetic Study of Atropurpuran (Fac. of Pharm. Sci., Tokyo Univ. of Sci.) SUZUKI, Takahiro; SASAKI, Aya; EGASHIRA, Naoki; KOBAYASHI, Susumu
- 2E2-19\*** A Study Toward Total Synthesis of Ryanodine (Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo) NAGATOMO, Masanori; TABUCHI, Toshiki; URABE, Daisuke; INOUE, Masayuki

Monday, March 26, PM

Chair: SHOJI, Mitsuru (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2E2-28, 2E2-30, 2E2-32, 2E2-33, 2E2-34)
- 2E2-28\*** Construction of the taxane skeleton on the basis of a [6+2] cycloaddition reaction (Hokkaido Univ.) HANADA, Ryosuke; MITACHI, Katsuhiko; TANINO, Keiji
- 2E2-30\*** An elucidation of the ultra energy transfer ability of marine carotenoids in photosynthesis based on organic synthesis (Kwansei Gakuin Univ.) KAJIKAWA, Takayuki; IWASHITA, Takashi; FRANK, H.A.; HASHIMOTO, Hideki; KATSUMURA, Shigeo
- 2E2-32** Synthesis of fucoxanthin derivatives by using the chemoselective Modified-Julia olefination of the aldehyde possessing a  $\beta$ -epoxyketone group (Kwansei Gakuin Univ.) OKUMURA, Satoshi; KAJIKAWA, Takayuki; KOSUMI, Daisuke; HASHIMOTO, Hideki; KATSUMURA, Shigeo
- 2E2-33** Synthesis of fucoxanthin derivatives toward elucidation of the effect caused by allenic function (Kwansei Gakuin Univ.) YANO, Koki; KAJIKAWA, Takayuki; KOSUMI, Daisuke; HASHIMOTO, Hideki; KATSUMURA, Shigeo
- 2E2-34\*** Synthesis and stereochemical assignment of 5'-hydroxyphyloquinone (Univ. of Hyogo) LEE, Changwoo; KOSUGI, Makiko; KASHINO, Yasuhiro; SUGIMURA, Takashi

Tuesday, March 27, AM

### Terpenes, Steroids

Chair: NAKAO, Yoichi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3E2-01, 3E2-02, 3E2-03, 3E2-04, 3E2-05, 3E2-06)
- 3E2-01** The study of relationship between sargageranone analogues and antibacterial activities (Aoyama Gakuin Univ.) TAKAHASHI, Hironori; KIMURA, Junji
- 3E2-02** Germination stimulants for root parasitic plant, produced by dokudami (Weed Science Center, Utsunomiya Univ.) KISUGI, Takaya; XIE, Xiaonan; YONEYAMA, Kaori; UCHIDA, Kenichi; YOKOTA, Takao; NOMURA, Takahito; YONEYAMA, Koichi
- 3E2-03** Studies on cytotoxic compounds from *Euphorbia jolkini* (Kanagawa Univ.) MARU, Norihito; YOKOTA, Keisuke; WATABE, Taeko; UEMURA, Daisuke
- 3E2-04** Separation and Characterization of cis-Lycopene Isomers (Kagome Co., Ltd., The Univ. of Shiga Prefecture) HONDA, Masaki; KUDOU, Tatsuya; INOUE, Yoshinori; TAKEHARA, Munenori; KUMAGAI, Tsutomu
- 3E2-05** Thermal trans-cis Isomerization of Lycopenes (The Univ. of Shiga Prefecture) INOUE, Yosinori; NISHIKAWA, Tomoya; TAKEHARA, Munenori; KUMAGAI, Tsutomu; HONDA, Masaki
- 3E2-06** Synthesis of peridinin derivative shifted ylidenebutenolide group (Kwansei Gakuin Univ.) HANANOKI, Shohei; HASEGAWA, Shinji; KAJIKAWA, Takayuki; KATSUMURA, Shigeo

Chair: MATSUMORI, Nobuaki (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3E2-08, 3E2-09, 3E2-10, 3E2-11, 3E2-12, 3E2-13)
- 3E2-08** Stereochemical Analysis of Cristaxenicin A (Department of Chemistry and Biochemistry, School of Advanced Science and Engineering, Waseda Univ.) ISHIGAMI, Shintaro; NAKAO, Yoichi; KAWAZU, Shin-ichiro; MATSUMOTO, Yoshitsugu; GOTO, Yasuyuki
- 3E2-09** Isolation and structure elucidation of the cytotoxic compound from the mixture of marine organism. (Department of Chemistry and Biochemistry, School of Advanced Science and Engineering, Waseda Univ.) MACHIDA, Koshi; NAKAO, Yoichi
- 3E2-10** Synthesis and stereochemistry of bisabolane derivatives (Rikkyo Univ.; RIKEN) MIYAZAKI, Rurina; KITAZAWA, Mihiro; HIROTA, Hiroshi; ONUKI, Hiroyuki; KURODA, Chiaki
- 3E2-11** Determination of absolute configuration of the macrocyclic diester portion in satratoxin H via acetal formation with a chiral ketone. (Keio Univ.;

- RIKEN ASI; Kyoto Pharm. Univ.) SAIKAWA, Yoko; KOSHINO, Hiroyuki; HASHIMOTO, Kimiko; NAKATA, Masaya
- 3E2-12** Determination of the Absolute Configuration of 1,3-Diols using a Chiral Cyclohexanone Derivative(1) (RIKEN ASI; Saitama Univ.; Kyoto Pharm. Univ.) YASUDA, Masayuki; TAKAHASHI, Shunya; MASTUOKA, Koji; HASHIMOTO, Kimiko; KOSHINO, Hiroyuki
- 3E2-13** Determination of the Absolute Configuration of 1,3-Diols using a Chiral Cyclohexanone Derivative(2) (RIKEN ASI; Saitama Univ.; Kyoto Pharm. Univ.) KOSHINO, Hiroyuki; YASUDA, Masayuki; MASTUOKA, Koji; HASHIMOTO, Kimiko; TAKAHASHI, Shunya

Chair: OGURI, Hiroki (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(3E2-15, 3E2-16, 3E2-17, 3E2-18, 3E2-19, 3E2-20)
- 3E2-15** Synthetic Study of Caged SAAF for Elucidating Signaling Pathway of Ciona intestinalis Sperm (Osaka Univ.) FUJIMOTO, Daichi; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio; OISHI, Tohru; YOSHIDA, Manabu; MORISAWA, Masaaki
- 3E2-16** Synthesis of fluorescence-labeled progesterone (Univ. of Waseda; Shimizu Co.Ltd) MATSUI, Akinori; KOBAYASHI, Shun; OKAMOTO, Mayumi; SHIMIZU, Isao
- 3E2-17** A New Concise Synthesis of (+)-Ipomeamarone (Osaka City Univ.) DEGUCHI, Taku; USUKI, Yoshinosuke; IIO, Hideo
- 3E2-18** Synthesis of Acyclic Terpene Analog by Means of a Repetitive Unit-linkage Reaction (Graduate School of Sci., Osaka City Univ.) ANDO, Yumi; MANABE, Atsushi; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 3E2-19** Synthetic Study of Pentalenolactone F (Faculty of Eng. and Grad. School of Sci. and Tec., Niigata Univ.) SUZUKI, Toshio; SATOH, Shouta; HAGIWARA, Hisahiro; HOSHI, Takashi
- 3E2-20** Synthetic Studies on Bruceantin (Dept. of Chem. and BioChem., Adv. Sch. of Sci. and Engin., Waseda Univ.) FUJII, Tomohiro; NIWA, Takashi; NAKADA, Masahisa

## Tuesday, March 27, PM

Chair: SUZUKI, Toshio (13:30~14:40)

- \* 13:20-13:30: interval for laptop PC connection.(3E2-28, 3E2-29, 3E2-30, 3E2-31, 3E2-32, 3E2-33, 3E2-34)
- 3E2-28** Total Synthesis of Englerin A Based on [3+2]-Cycloaddition Reaction of Platinum-Containing Carbonyl Ylide (Tokyo Institute of Technology) TAZAWA, Aoi; KUSAMA, Hiroyuki; IWASAWA, Nobuharu
- 3E2-29** Synthetic studies on the cyathane skeleton with Radical Cyclization (Graduate School of Life Sciences, Tohoku Univ.) ITTO, Kaori; SHU, Xu; ARIMOTO, Hirokazu
- 3E2-30** Synthetic studies on Itol A (Graduate School of Life Sciences, Tohoku Univ.) HARADA, Shota; ISHIBIKI, Miho; XU, Shu; ARIMOTO, Hirokazu
- 3E2-31** Studies toward Total Synthesis of Didemnaketal B (Graduate School of Life Sciences, Tohoku Univ.) SEKINE, Kumiko; FUWA, Haruhiko; SASAKI, Makoto
- 3E2-32** Synthetic Studies of Psiguadial B, a Hybrid Natural Product (Hokkaido Univ.) UEMATSU, Ryohei; TANINO, Keiji
- 3E2-33** Asymmetric Total Synthesis of Cyanthiwigin AC (Hokkaido Univ.) SUGAWARA, Tomokazu; KITAMURA, Juri; TAKAHASHI, Yu; TANINO, Keiji
- 3E2-34** Design and concise synthesis of aza-artemisinins (Graduate School of Science, Hokkaido Univ.; Graduate school of Chemical Science and Engineering, Hokkaido Univ.) HIRUMA, Takahisa; OCHIAI, Kyohei; OGURI, Hiroki; OIKAWA, Hideaki

## Sugar

Chair: TANAKA, Hiroshi (14:50~15:50)

- \* 14:40-14:50: interval for laptop PC connection.(3E2-36, 3E2-37, 3E2-38, 3E2-39, 3E2-40)
- 3E2-36** 1,2-cis Selective Radical C-Glycosylation of Pyranosides with 2,3-trans Carbamate Group (RIKEN, Advanced Science Institute) MANABE, Shino; AIHARA, Yoshiyuki; ITO, Yukishige
- 3E2-37** Stereoselective Synthesis of *P*-modified  $\alpha$ -Glycosyl Phosphates by the Oxazaphospholidine Approach (The Univ. of Tokyo) NORO, Mihoko; FUJITA, Shoichi; WADA, Takeshi
- 3E2-38** Direct Synthesis of Sugar Oxazoline Derivative by a Novel Condensing Agent (Graduate School of Engineering, Tohoku Univ.) NOGUCHI, Masato; FUJIEDA, Tsukasa; SHODA, Shin-ichiro
- 3E2-39** Stereoselective Synthesis of UDP-galactose Derivative Controlled by Silylene Protecting Group (RIKEN ASI, ERATO JST) SAKAMOTO, Yasuharu; OHTA, Tsuyoshi; ITO, Yukishige
- 3E2-40\*** Synthetic study of a tetra-branched hentriacontasaccharide of mycobacterial arabinan (RIKEN Advanced Science Institute; ERATO JST) ISHIWATA, Akihiro; ITO, Yukishige

Chair: WADA, Takeshi (16:00~17:00)

- \* 15:50-16:00: interval for laptop PC connection.(3E2-43, 3E2-44, 3E2-45, 3E2-46, 3E2-47, 3E2-48)
- 3E2-43** Coupling Efficiency of Solid-Phase Synthesis Using Fmoc-Asn(Sugar)-

- OH (Tokai Univ.) HATA, Tomoya; HANEDA, Katsuji; INAZU, Toshiyuki
- 3E2-44** Preparation of 6-Methoxy-8-oxo-purine- $\beta$ -nucleoside by Using Intramolecular Glycosylation (Aoyama Gakuin Univ.) NITTA, Daisuke; SUGIMURA, Hideyuki
- 3E2-45** Influence of hyaluronan environments on Aldol reaction (Department of Materials and Life Science, Seikei Univ.) ISHIKAWA, Takashi; NORITAKE, Hiroto; TOTANI, Kiichiro
- 3E2-46** Selective oxidation at 6-position of hexose for conjugation and labeling of glycoconjugates (Grad. Sch. of Sci., Osaka Univ.) MUKOUZAKA, Natsumi; FUJIMOTO, Yukari; FUKASE, Koichi
- 3E2-47** Enantiospecific synthesis of [5,5]spiroacetal from aldose via higher-carbon sugar derived by tandem aldol-aldol reaction (Dept. of Chem., College of Sci.& Tech., Meisei Univ) MIURA, Daisuke; KANO, Ryo; FUJIMOTO, Takashi; MACHINAMI, Tomoya
- 3E2-48** Stereoselective synthesis of ketose by the application of asymmetric aldol reaction in aqueous media (Dept. of Chem., College of Sci.& Tech., Meisei Univ) KANO, Ryou; MIURA, Daisuke; FUJIMOTO, Takashi; MACHINAMI, Tomoya

Chair: FUJIMOTO, Yukari (17:10~18:10)

- \* 17:00-17:10: interval for laptop PC connection.(3E2-50, 3E2-51, 3E2-52, 3E2-53, 3E2-54, 3E2-55)
- 3E2-50** New Transformation Reactions of Glycosyl Boranophosphates (Univ. of Tokyo) SATO, Kazuki; WADA, Takeshi
- 3E2-51** Electrochemical generation and accumulation of glycosyl triflates of oligosaccharides using electrochemical methods. (Graduate School of Engineering, Kyoto Univ.) SAIGUSA, Yoshihiro; NOKAMI, Toshiki; YOSHIDA, Junichi
- 3E2-52** Synthesis of glycoside by improved Koenigs-Knorr method using ferulic acid derivatives for aglycon (Meiji Univ. graduate school; Organic synthetic chemistry laboratory) SHOJI, Masashi; MIYAKOSHI, Tetsuo
- 3E2-53** Highly Efficient Glycosylation of Unprotected Sugar (Graduate School of Engineering, Tohoku Univ.) TAKAGI, Yuka; ISHIHARA, Masaki; NOGUCHI, Masato; SHODA, Shin-ichiro
- 3E2-54** facile synthesis of glycosyl fluorides from unprotected sugars (Graduate School of Engineering, Tohoku Univ.) KUROZU, Yoshihiro; ISHIHARA, Masaki; NOGUCHI, Masato; SHODA, Shin-ichiro
- 3E2-55** Transglycosylation reaction by using triethylsilylated donor substrate under reductive condition (Graduate School of Engineering, Tohoku Univ.) ISHIHARA, Masaki; AIZAWA, Nozomi; NOGUCHI, Masato; SHODA, Shin-ichiro

## Wednesday, March 28, AM

### Sugar

Chair: OKAMOTO, Ryo (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4E2-01, 4E2-02, 4E2-03, 4E2-05, 4E2-06)
- 4E2-01** Synthetic study of *N*-linked oligosaccharides using stereoinversion of the C-2 hydroxyl group of a glucose residue (Department of Materials and Life Science, Seikei Univ.) IWATA, Kodai; ARAKI, Chihiro; IWAMOTO, Shogo; SABUROMARU, Miyuki; MATSUZAKI, Yuji; TOTANI, Kiichiro
- 4E2-02** Synthetic study of the *N*-linked G3M9 oligosaccharide using universal monosaccharide unit. (Department of Materials and Life Science, Seikei Univ.) SHINODA, Yuki; IWATA, Kodai; ARAKI, Chihiro; IWAMOTO, Shogo; MATSUSHIMA, Hikaru; SABUROMARU, Miyuki; OTA, Takashi; MATSUZAKI, Yuji; TOTANI, Kiichiro
- 4E2-03\*** Efficient and stereoselective synthesis of disaccharide fragment of incednine (Keio Univ.; Faculty of Science and Technology) OHTANI, Takashi; SAKAI, Shohei; TAKADA, Akira; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 4E2-05** New method for solid-phase synthesis of peptidoglycan fragments (Grad. Sch. of Sci., Osaka Univ.) KADONAGA, Yuichiro; FUJIMOTO, Yukari; FUKASE, Koichi
- 4E2-06\*** Synthesis of peptidoglycan fragment library for analysis of receptor recognition (Osaka Univ.) WANG, Ning; HUANG, Cheng-yuan; FUJIMOTO, Yukari; FUKASE, Koichi

Chair: HIRAI, Go (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4E2-08, 4E2-09, 4E2-11, 4E2-12)
- 4E2-08** Synthesis of ureglycosides using unprotected sugar (Kochi Univ.) MINAMI, Takahiro; SAEKI, Nobuyoshi; ICHIKAWA, Yoshiyasu
- 4E2-09\*** Synthesis of novel glycolipid characterized as membrane protein integrase on *Escherichia coli* cells (Bioorganic Research Institute, Suntory Foundation for Life Sciences) NAGASE, Ryohei; SHIMAMOTO, Keiko; MAEDA, Masahide; KUSUMOTO, Shoichi; NISHIYAMA, Ken-ichi
- 4E2-11** Synthesis of Functionalized Glycopolymers by Living Coordination Polymerization (Tokyo Institute of Technology) OHIRA, Shuichi; TANAKA, Hiroshi; TOMITA, Ikuyoshi; TAKAHASHI, Takashi
- 4E2-12\*** Fluorous tag Strategy for the Synthesis of Heparan Sulfates (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) TANAKA, Hiroshi; TATENO, Yusuke; TAKAHASHI, Takashi



## Room E3

4th Bldg. Independence Wing D312

## Natural Products Chemistry

Monday, March 26, AM

## Amino Acids, Peptides

Chair: FUJIMOTO, Yukari (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(2E3-01, 2E3-02, 2E3-03, 2E3-04, 2E3-05, 2E3-06)

**2E3-01** Synthesis of 3-Substituted-2-pyridone-6-carboxylic Acid Derivatives (Graduate School of Sci., Osaka City Univ.) SHIRAI, Kazumitsu; SHINADA, Tetsuro; OHFUNE, Yasuhumi**2E3-02** Synthesis of Novel Peptide Composed of  $\alpha$ -Amino Squaric Acid using Iterative linkage Reactions (Graduate School of Sci., Osaka City Univ.) MAEDA, Kentaro; MATSUMOTO, Ryotaro; SHINADA, Tetsuro; OHFUNE, Yasufumi**2E3-03** Synthetic Study of Optically Active Amino Acids Using Chiral Isocyanooacetic Acid Ester. (Graduate School of Sci., Osaka City Univ.) YAMADA, Ginji; OE, Kentaro; SHINADA, Tetsuro; OHFUNE, Yasuhumi**2E3-04** Asymmetric synthesis of IKM-159, a subtype-selective antagonist for AMPA receptor. (Graduate School of Nanobioscience, Yokohama City Univ.) TOKIWA, Kazuya; SUGAMATA, Yutaro; ISHIKAWA, Yuichi; SAKAI, Ryuichi; OIKAWA, Masato**2E3-05** Synthesis and activity of analogs of IKM-159, a subtype-selective AMPA receptor antagonist. (Graduate School of Nanobioscience, Yokohama City Univ.) SUGAMATA, Yutaro; TOKIWA, Kazuya; KASORI, Yuuki; KATAYAMA, Lisa; MURAKAMI, Etsuko; ISHIKAWA, Yuichi; SAKAI, Ryuichi; OIKAWA, Masato**2E3-06** Synthetic studies on acromelic acid A via [2+2] cycloaddition (Graduate School of Nanobioscience, Yokohama City Univ.) KASORI, Yuuki; OIKAWA, Yuya; ISHIKAWA, Yuichi; OIKAWA, Masato

Chair: IJIMA, Yuusuke (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(2E3-08, 2E3-09, 2E3-10, 2E3-11, 2E3-12)

**2E3-08** Structures and Biological Properties of the Novel Peptides from *Xylocopa apendiculata circumvolans* (Graduate School of Sci., Osaka City Univ.) KAWAKAMI, Hiroko; SHINADA, Tetsuro; OHFUNE, Yasufumi; SHIGA, Sakiko; GOTO, Shin G**2E3-09** Synthetic Study of Conformationally Restricted 2,6-Diaminopimelic Acid Derivatives (Graduate School of Sci., Osaka City Univ.) WAKABAYASHI, Yuuka; SUEUCHI, Yuki; SHIMAMOTO, Keiko; SHINADA, Tetsuro; OHFUNE, Yasufumi**2E3-10** Efficient chemoenzymatic synthesis of *meso*-diaminopimelic acid derivatives, and application for peptidoglycan fragment synthesis. (Grad. Sch. of Sci., Osaka Univ.) MATSUO, Yusuke; PRADIPTA, Ambara Rachmat; FUJIMOTO, Yukari; FUKASE, Koichi**2E3-11** Synthesis of molecular probes for analysis of Nod1-immunostimulating mechanism of peptidoglycan and their biological activity (Osaka Univ.; Graduate School of Science) FUJIKI, Katsumasa; HASEGAWA, Mizuhito; INOHARA, Naohiro; FUJIMOTO, Yukari; FUKASE, Koichi**2E3-12\*** Studies toward asymmetric synthesis of dysibetaine CpA (Graduate School of Nanobioscience, Yokohama City Univ.) SAKAI, Michihiro; SASAKI, Shota; ISHIKAWA, Yuichi; SAKAI, Ryuichi; SWANSON, G.T.; OIKAWA, Masato

Chair: ISHIKAWA, Yuichi (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(2E3-15, 2E3-17, 2E3-19)

**2E3-15\*** Stereoselective Synthesis of  $E$ - $\alpha$ ,  $\beta$ -Dehydroamino Acid Esters Using  $\alpha$ -(Diphenylphosphono)glycine Derivatives (Graduate School of Sci., Osaka City Univ.) YASUNO, Yoko; YAMADA, Takeshi; SHINADA, Tetsuro; OHFUNE, Yasufumi**2E3-17\*** New synthetic method for total chemical protein synthesis by using peptide- $\alpha$ -guanidine derivatives as a key compound (Osaka Univ.) OKAMOTO, Ryo; KAJIHARA, Yasuhiro**2E3-19\*** Solid-state NMR analysis of a reconstituted transmembrane model peptide DIVS6 of voltage-gated sodium channel lipid bilayers (The Univ. of Tokyo, Osaka Univ.) YOSHINAKA, Ai; EGAWA, Ayako; IKEDA, Keisuke; FUJIWARA, Toshimichi; TACHIBANA, Kazuo

## Monday, March 26, PM

Chair: SHINADA, Tetsuro (13:30~14:40)

\* 13:20-13:30: interval for laptop PC connection.(2E3-28, 2E3-29, 2E3-31, 2E3-32, 2E3-33, 2E3-34)

**2E3-28** Synthetic Study of Antimycin A Library on solid support (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) IJIMA, Yusuke; KIMATA,

Chair: TOTANI, Kiichiro (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4E2-15, 4E2-17, 4E2-18, 4E2-19)

**4E2-15\*** Synthesis of Dextran-based Imaging Agent to Visualize the Process of Bone Regeneration. (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) YAMAGUCHI, Sho; TANAKA, Hiroshi; ISHIKAWA, Hidefumi; JO, Jun-ichiro; AOKI, Ichio; TABATA, Yasuhiko; TAKAHASHI, Takashi**4E2-17** Synthetic study of the synthesis of highly branched complex type N-glycans from bi-antennary N-glycan (Osaka Univ.) MAKI, Yuta; OKAMOTO, Ryo; KAJIHARA, Yasuhiro**4E2-18** Synthesis of (S)-CHF-linked Sialylgalactose (RIKEN-ASI) NISHIZAWA, Eri; KATO, Marie; OKADA, Mitsuaki; HIRAI, Go; KOSHINO, Hiroyuki; MIYAGI, Taeko; SODEOKA, Mikiko**4E2-19\*** Synthesis and Biological Activity of Sialidase-resistant Ganglioside GM3 Analogues (RIKEN-ASI) KATO, Marie; HIRAI, Go; NISHIZAWA, Eri; OONUMA, Kana; KOSHINO, Hiroyuki; MIYAGI, Taeko; SODEOKA, Mikiko

## Wednesday, March 28, PM

Chair: TABANO, Kin-Ichi (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(4E2-28)

**4E2-28 CSJ Award for Creative Works** Functional Analysis of Bioactive Glycoconjugates Based on Organic Synthesis and Bioimaging (Grad. Sch. Sci., Osaka Univ.) FUKASE, Koichi

Chair: ISHIWATA, Akihiro (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(4E2-35, 4E2-36, 4E2-37, 4E2-38, 4E2-39, 4E2-40)

**4E2-35** Synthesis and immunomodulatory activity of parasitic bacterial lipid A; tetra-acylated *H. pylori* lipid A. (Grad. Sch. of Sci., Osaka Univ.) KITAYAMA, Naohiro; SHIMOYAMA, Atsushi; SAEKI, Akinori; IKUJI, Teppei; FUJIMOTO, Yukari; FUKASE, Koichi**4E2-36** Synthesis and immunomodulatory activity of parasitic bacterial lipid A; *P. gingivalis* (Grad. Sch. of Sci., Osaka Univ.) SAEKI, Akinori; SHIMOYAMA, Atsushi; KASAMATSU, Chika; KITAYAMA, Naohiro; FUJIMOTO, Yukari; FUKASE, Koichi**4E2-37#** Synthesis of mono- and bis-sialylated N-glycan motifs as molecular probes (Osaka Univ.) ZHOU, Jiazhou; BAO, Guangming; TANAKA, Katsunori; FUKASE, Koichi**4E2-38** Synthesis of pseudo glycopeptides using 1,3-diol derivative (Tokai Univ.) ITO, Yuki; INAZU, Toshiyuki**4E2-39** Synthesis of homogeneous sialylglycoprotein by use of an efficient synthetic method of sialylglycopeptide-thioester (Department of Chemistry, Graduate School of Science, Osaka Univ.) MURAKAMI, Masumi; IZUMI, Masayuki; OKAMOTO, Ryo; KAJIHARA, Yasuhiro**4E2-40** Conformational control of D-glucose by using of a 2,4-O-(2,2'-Bibenzylbis(methylene)) bridge (Kwansei Gakuin Univ.; School of Science and Technology) ASHIKAGA, Yoshiki; HIROKANE, Tsukasa; YAMADA, Hidetoshi

Chair: TANAKA, Katsunori (15:50~16:40)

\* 15:40-15:50: interval for laptop PC connection.(4E2-42, 4E2-43, 4E2-44, 4E2-45, 4E2-46)

**4E2-42** Syntheses of the Amino Sugar Containing Glycoconjugates on Gold Surface and Observation of Carbohydrate-Carbohydrates Interaction (Department of Chemistry, Okayama Univ. of Sci.) YAMADA, Haruo; SHIKANO, Jun**4E2-43** Synthesis of nLc4 glycoconjugate derivatives immobilized on Sensor Chip (Okayama Univ. of Sci.) YAMADA, Haruo; FURUSHOU, Yamato**4E2-44** Efficient synthesis of L-fucose based on regioselective protection of D-arabinose and one-carbon elongation on the non-reducing end (Faculty of Pharmacy, Keio Univ.) SEKI, Takakazu; SYOJI, Mitsuru; SUGAI, Takeshi**4E2-45** Photo-degradation of LPS and Inhibition of Macrophage Activation-by Anthraquinone-boronic Acid Hybrids (Keio Univ.; Faculty of Science and Technology) MIURA, Takuya; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu**4E2-46** One-pot Synthesis of Glycosides from Biomass in Ionic Liquids (Keio Univ.; Faculty of Science and Technology) SEKINE, Maiko; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Osamu; TAKAHASHI, Takashi

- 2E3-29\*** Synthesis of Proposed Structure of Mannopeptimycin Aglycon (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) KOINUMA, Hirotsugu; FUSE, Shinichiro; KINBARA, Atsushi; DOI, Takayuki; TAKAHASHI, Takashi
- 2E3-31** Sequence Dependency of Linear Tetrapeptides in Cyclization Reaction (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) MURATA, Masashi; KATO, Tamaki; NISHINO, Norikazu
- 2E3-32** Direct Synthesis of Amino Acid Derivatives through Novel Overman Rearrangement (Keio Univ.) OISHI, Hiroki; SATO, Takaaki; CHIDA, Noritaka
- 2E3-33** Isolation and Structure Determination of a New Cyclic Depsipeptide from an Unidentified Marine Cyanobacterium (Keio Univ.) KAJIYAMA, Yuji; OHNO, Osamu; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 2E3-34** Synthetic Study on Bisebromamides (Keio Univ.) SHIMIZU, Yuto; WATANABE, Atsushi; TESHIGAWARA, Seiji; SUENAGA, Kiyotake

## Tuesday, March 27, AM

### Amino Acids, Peptides

Chair: FUKUZAWA, Seketsu (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3E3-01, 3E3-02, 3E3-03, 3E3-04, 3E3-05, 3E3-06)
- 3E3-01** Synthetic Study on Miuraenamide A, an Antibacterial Cyclic Depsipeptide (Keio Univ.) TOHYAMA, Koh; TOKUZUMI, Keita; ITOH, Kayoko; TORIIHARA, Eisuke; SUENAGA, Kiyotake
- 3E3-02** Conformational analysis of glutathione in solution by theoretical method (Kochi Univ.) KATO, Ryo; KANENO, Daisuke
- 3E3-03** Synthesis of tumor-targeting peptides by ring-closing metathesis & template-assisted reaction on solid-supports (Osaka Univ.; RIKEN, Center for Molecular Imaging Science) IWATA, Takayuki; TAHARA, Tsuyoshi; NOZAKI, Satoshi; WATANABE, Yasuyoshi; TANAKA, Katsunori; FUKASE, Koichi
- 3E3-04** Peptide Thioester Formation by the Modification of Cys-Pro Ester (CPE) Autoactivating Unit. (Univ. of Osaka; IPR) KAMAUCHI, Akitaka; KAWAKAMI, Toru; AIMOTO, Saburo
- 3E3-05** Synthetic Study of Isodesmosine, a COPD Biomarker (Faculty of Science and Technology, Sophia Univ.) KOSEKI, Yohei; YANUMA, Hiroto; HAYASHI, Takahiro; SUGIMURA, Takanori; YAMADA, Haruka; USUKI, Toyonobu
- 3E3-06** Synthetic study of microcyclamides GL546A and GL546B: Fluorous mixture synthesis of the reported structures (Niigata Univ. of Pharmacy and Applied Life Sciences) WATANABE, Masashi; NAKAMURA, Yutaka; KOJIMA, Masaru; TAKEUCHI, Seiji

Chair: USUKI, Toyonobu (10:10~11:20)

- \* 10:00-10:10: interval for laptop PC connection.(3E3-08, 3E3-09, 3E3-10, 3E3-11, 3E3-12, 3E3-13, 3E3-14)
- 3E3-08** Studies on chemical biology of fat accumulation inhibitor, ternatin (Kanagawa Univ. Dept. of Chemistry) MASUDA, Shun; TANAKA, Yoko; UEMURA, Daisuke
- 3E3-09<sup>#</sup>** N-Methoxyglycyl residue at N-terminus of peptides for selective attaching and detaching of fluorescent labeling groups (Institute for Protein Research, Osaka Univ.) PURWATI, Euis Maras; TAINOSHO, Akira; AIMOTO, Saburo; HARA, Toshiaki
- 3E3-10** Synthesis and Conformational Analysis of Dipeptides Containing Deuterated Proline (Department of Materials Chemistry, Tokai Univ.) SUZUKI, Eisuke; OBA, Makoto; NISIIYAMA, Kozaburo
- 3E3-11** Studies on chemical synthesis of hydrophobic peptides (Tokai Univ.) TANO, Chiharu; KATAYAMA, Hidekazu; HOJO, Hironobu
- 3E3-12** Synthesis of 4-substituted macrocyclic hexaoxazole as a G-quadruplex stabilization agent (Tokyo Univ. of Agriculture and Technology) OTAKE, Terumi; IDA, Keisuke; NAKAMURA, Takahiro; NAGASAWA, Kazuo; SHINYA, Kazuo; MAZIMA, Satoki
- 3E3-13** Synthesis and reconstitution of double transmembrane peptide for investigating recognition principle of interaction by ladder shaped polycyclic ether (Univ. of Tokyo) YAMADA, Kazuya; FUKUZAWA, Seketsu; TACHIBANA, Kazuo
- 3E3-14** Catalytic Dehydrative S-Allylation of Cysteine-Containing Peptides toward Lipopeptide Chemistry (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) TANAKA, Shinji; NITA, Yukari; JAISANKAR, Parasuraman; KITAMURA, Masato

### Alkaloids

Chair: TADANO, Kin-Ichi (11:30~12:20)

- \* 11:20-11:30: interval for laptop PC connection.(3E3-16, 3E3-19, 3E3-20)
- 3E3-16** Young Scholar Lectures of CSJ Synthesis of Bioactive Compounds through C-H Bond Arylation (Grad. Sch. Sci., Nagoya Univ.) YAMAGUCHI, Junichiro
- 3E3-19** Sequential Sigmatropic Rearrangements of Enantiopure Allylic Diols (Keio Univ.) NAKAYAMA, Yasuaki; KITAMOTO, Katsunori; SAMPEI, Mana; ICHIKI, Masato; FURUYA, Naoya; SATO, Takaaki; CHIDA,

Noritaka

- 3E3-20** Synthetic study of Gephyrotoxin via the N-methoxyamide (Keio Univ.) SHIROKANE, Kenji; TAKAYAMA, Nobuaki; SATO, Takaaki; CHIDA, Noritaka

## Tuesday, March 27, PM

Chair: TANAKA, Katsunori (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(3E3-28, 3E3-30, 3E3-31, 3E3-33)
- 3E3-28\*** Intramolecular azide-allyl alcohol cyclization: Synthesis of unsaturated imine via [3+2] cyclization process and application to natural product synthesis (Graduate School of Materials Science, Nara Institute of Science and Technology) HAYASHI, Kyohei; TANIMOTO, Hiroki; ZHANG, Huan; NISHIYAMA, Yasuhiro; MORIMOTO, Tsumoru; KAKIUCHI, Kiyomi
- 3E3-30\*** Study on the transformation reaction of propargyl alcohol by alkyl azide (Graduate school of materials science, Nara Institute of Science and Technology) ZHANG, Huan; TANIMOTO, Hiroki; NISHIYAMA, Yasuhiro; MORIMOTO, Tsumoru; KAKIUCHI, Kiyomi
- 3E3-31<sup>#</sup>** Total Synthesis of Dragmacidin D via Direct C-H Couplings (Dept Chem, Nagoya Univ) MANDAL, Debashis; YAMAGUCHI, Atsushi; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
- 3E3-33** Synthetic Study of Dimeric Pyrrolidinoindoline Alkaloids with Biomimetic Strategy (Graduate School of Science and Technology, Kumamoto Univ.) MUKAEDA, Yuri; ISHIKAWA, Hayato

Chair: ISHIKAWA, Hayato (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(3E3-35, 3E3-36, 3E3-37, 3E3-38, 3E3-39, 3E3-40)
- 3E3-35** Design and synthesis of truncated norzoanthamine (Univ. of Tokyo; School of Science) INOUE, Hironori; TOKITA, Kazuho; FUKUZAWA, Seketsu; TACHIBANA, Kazuo
- 3E3-36** Structure-Activity Relationship of truncated norzoanthamine (Univ. of Tokyo; School of Science) TOKITA, Kazuho; INOUE, Hironori; FUKUZAWA, Seketsu; TACHIBANA, Kazuo
- 3E3-37** Exploration for the binding proteins of ritterazine B, a cytotoxic alkaloid from the tunicate Ritterella tokioka (Univ. of Tokyo; School of Science) MAEDA, Takahiro; FUKUZAWA, Seketsu; TACHIBANA, Kazuo
- 3E3-38** Synthesis of alkaloids possessing the 2β,4β,5α-substituted piperidine core via the one-pot asymmetric 6π-azaelectrocyclization (Kwansei Gakuin Univ., School of Science and Technology) KOBAYASHI, Shohei; KITAMURA, Takao; TAKEUCHI, Yoshiki; SAKAGUCHI, Taku; KATSUMURA, Sigeo
- 3E3-39** [4+4] Reaction of conjugated imines mediated by amines or alcohols (Osaka Univ.) MATSUMOTO, Risa; TANAKA, Katsunori; FUKASE, Koichi
- 3E3-40** Synthetic Study of Yuremamine Based on [3+2]-Cycloaddition of Platinum-Containing Azomethine Ylide (Tokyo Institute of Technology) OHYAMA, Tomoya; KUSAMA, Hiroyuki; IWASAWA, Nobuharu

Chair: OGURI, Hiroki (15:50~16:50)

- \* 15:40-15:50: interval for laptop PC connection.(3E3-42, 3E3-43, 3E3-44, 3E3-45, 3E3-46, 3E3-47)
- 3E3-42** Stereoselective synthesis of disubstituted cyclopentane skeleton by intramolecular 1,3-dipolar cycloaddition (Tokyo Univ. of Agriculture and Technology) FUKAHORI, Yusuke; TAKAYAMA, Youhei; IMAOKA, Takuya; NAGASAWA, Kazuo
- 3E3-43** Synthetic Studies on Zetekitoxin AB (Department of Biotechnology and Life, Faculty of Technology, Tokyo Univ. of Agriculture and Technology) AKIMOTO, Takafumi; IMANISHI, Shizuka; IWAMOTO, Osamu; NAGASAWA, Kazuo
- 3E3-44** Synthetic studies on Palau'amine (Hokkaido Univ.; Laboratory of Organic Chemistry II) TAKEUCHI, Kohei; KAIHARA, Yukari; NAMBA, Kosuke; TANINO, Keiji
- 3E3-45** Synthetic study on calyciphylline F (Hokkaido Univ.) FUCHIGAMI, Ryuichi; NAMBA, Kosuke; TANINO, Keiji
- 3E3-46** Synthetic Studies on Zoanthenol ABC-ring Based on Radical Reactions (Graduate School of Science, Tohoku Univ.) SUDA, Naoki; YAMASHITA, Shuji; HIRAMA, Masahiro
- 3E3-47** Studies on the Total Syntheses of Complandines (Graduate School of Science, Tohoku Univ.; Graduate School of Pharmaceutical Science, Kyoto Univ.) ZHAO, Le; TSUKANO, Chihiro; TAKEMOTO, Yoshiji; HIRAMA, Masahiro

Chair: NANBA, Kosuke (17:00~17:50)

- \* 16:50-17:00: interval for laptop PC connection.(3E3-49, 3E3-50, 3E3-51, 3E3-52, 3E3-53)
- 3E3-49** Divergent and expeditious synthesis of multicyclic alkaloids inspired by biosynthetic strategy (Graduate School of Chemical Sciences and Engineering & Graduate School of Science, Hokkaido Univ..) MIZOGUCHI, Haruki; OGURI, Hiroki; OIKAWA, Hideaki
- 3E3-50** Synthesis of natural product analogs containing a bispyrrolidinoindoline scaffold: Generation of three-dimensional structural variations through stereochemical diversifications (Graduate School of Chemical Science and

Engineering, Hokkaido Univ.; Graduate School of Science, Hokkaido Univ.)  
WADA, Mitsuhiro; MURATA, Takahisa; OGURI, Hiroki; OIKAWA, Hideaki

- 3E3-51** Synthetic study on cylindradines (Tokyo Univ. of Agriculture and Technology) KANOU, Kyouhei; IMAOKA, Takuya; NAGASAWA, Kazuo  
**3E3-52** Synthetic study on Ammosamide B (Tokyo Univ. of Agriculture and Technology) TAKAYAMA, Youhei; TATEKABE, Shinya; NAGAWARA, Kazuo  
**3E3-53** Structures and biological activities of halichonines, novel sesquiterpene alkaloids isolated from the marine sponge *Halichondria okadai* (Keio Univ.; Nagoya Univ.; Kanagawa Univ.; Tokushima Bunri Univ.; ICR, Kyoto Univ.) OHNO, Osamu; TODOROKI, Seiji; YOSHIMURA, Hideaki; MARU, Norihito; MAEKAWA, Ken; IMAGAWA, Hiroshi; WAKAMIYA, Atsushi; SUENAGA, Kiyotake; UEMURA, Daisuke

### Others

Chair: OHNO, Osamu (18:00~18:30)

- \* 17:50-18:00: interval for laptop PC connection.(3E3-55, 3E3-56, 3E3-57)  
**3E3-55** Biosynthetic study of ionophore polyether; Functional analysis of flavin-dependent monooxygenase involved in kijimicin biosynthesis (Graduate School of Science, Hokkaido Univ.) SUZUKI, Gaku; SIMAYA, Mayu; MINAMI, Atsushi; OGURI, Hiroki; OIKAWA, Hideaki  
**3E3-56** Biosynthetic study of ionophore polyether : Functional analysis of flavin-dependent monooxygenase and epoxide hydrolase (Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) SATO, Kyohei; SHIMAYA, Mayu; MINAMI, Atsushi; WATANABE, Kenji; OGURI, Hiroki; OIKAWA, Hideaki  
**3E3-57** Biosynthetic study of jawsamycin: characterization of modification enzymes (Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) KARIYA, Ryo; SEO, Takashi; MINAMI, Atsushi; OIKAWA, Hideaki

### Wednesday, March 28, AM

#### Others

Chair: TOSHIMA, Kazunobu (9:00~10:10)

- \* 8:50-9:00: interval for laptop PC connection.(4E3-01, 4E3-03, 4E3-04, 4E3-05, 4E3-06)  
**4E3-01\*** Mechanism analysis of vancomycin dimers effective against vancomycin-resistant bacteria (Graduate School of Life Sciences, Tohoku Univ.) NAKAMURA, Jun; YAMASHIRO, Hidenori; HAYASHI, Sayaka; YAMAMOTO, Mami; MIURA, Kenji; MAKI, Hideki; YOSHIDA, Osamu; XU, Shu; ARIMOTO, Hirokazu  
**4E3-03** Identification of the target molecule of the vancomycin derivative by photoaffinity labeling method (Graduate School of Life Sciences, Tohoku Univ.) NAKAMURA, Jun; ICHIKAWA, Ryota; TAKASAWA, Takafumi; YAMASHIRO, Hidenori; MAKI, Hideki; XU, Shu; ARIMOTO, Hirokazu  
**4E3-04** Synthetic Studies of the Lower Segment of Perforatumone (Department of Applied Chemistry, Keio Univ.) TOUATI, Marianne Ayaka; SAKAMOTO, Shu; TAKAO, Ken-ichi; TADANO, Kin-ichi  
**4E3-05** Synthetic Studies of Clavilactone A (Department of Applied Chemistry, Keio Univ.) NANAMIYA, Ryuki; NAMBA, Ayumi; TAKAO, Ken-ichi; TADANO, Kin-ichi  
**4E3-06** Synthetic Studies of (-)-Tetrodotoxin and 5-Deoxytetrodotoxin (Department of Applied Chemistry, Keio Univ.) YASHIRO, Hitomitsu; WAKUI, Takashi; TAKARABE, Toshimasa; TAKAO, Ken-ichi; TADANO, Kin-ichi

Chair: NAKADA, Masahisa (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4E3-08, 4E3-09, 4E3-10, 4E3-12, 4E3-13)  
**4E3-08#** Modified Clemmensen reduction for the deoxygenation of aldehydes (Graduate School of Life Sciences, Tohoku Univ.) TOYAMA, Takayuki; NAKAMURA, Jun; XU, Shu; ARIMOTO, Hirokazu  
**4E3-09** Novel IBX oxidation cleavage of alcohols to the dehomologated carboxylic acids (Tohoku Univ.) SATOH, Masahide; ITTO, Kaori; XU, Shu; ARIMOTO, Hirokazu  
**4E3-10\*** Synthetic Studies of GKK1032As (Department of Applied Chemistry, Keio Univ.) SHIMIZU, Yuta; TAKAO, Ken-ichi; TADANO, Kin-ichi  
**4E3-12** Medicinal chemistry of vancomycin using Pd-mediated cross-coupling (4) (Graduate School of Life Sciences, Tohoku Univ.) TOYAMA, Takayuki; NAKAMA, Yuki; YOSHIDA, Osamu; YODA, Masanori; YAMASHIRO, Hidenori; NAKAMURA, Jun; XU, Shu; MAKI, Hideki; ARIMOTO, Hirokazu  
**4E3-13** Synthesis of vancomycin dimers effective against vancomycin-resistant bacteria (Graduate School of Life Sciences, Tohoku Univ.) GAMOU, Keizou; NAKAMURA, Jun; YAMASHIRO, Hidenori; MAKI, Hideki; XU, Shu; ARIMOTO, Hirokazu

Chair: KITA, Masaki (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4E3-15, 4E3-16, 4E3-17, 4E3-19, 4E3-20)

- 4E3-15** Synthetic Studies on marine natural product, Polymaxenolides: fundamental studies on formation of the dihydropyran ring and synthesis of the upper segment. (Department of Applied Chemistry, Keio Univ.) MATSUDA, Yutaka; KAWAGUCHI, Tomonori; KOYAMA, Takayuki; SAIKAWA, Yoko; NAKATA, Masaya  
**4E3-16** Synthetic studies of the cembrane unit of polymaxenolide, marine natural product (Faculty of Science and Technology, Keio Univ.) KATO, Masaya; MATSUDA, Yutaka; SAIKAWA, Yoko; NAKATA, Masaya  
**4E3-17\*** Metabolic Study of Endogenous Nitrated Nucleotide Using Chemical Probe (Tohoku Univ.; Graduate School of Life Sciences, Kumamoto Univ.; Graduate School of Medical Sciences) SAITO, Yohei; SAWA, Tomohiro; AKAIKE, Takaaki; ARIMOTO, Hirokazu  
**4E3-19** Study on Novel fluorescent probe based on Nitrated Nucleotide (Tohoku Univ.; Graduate School of Life Sciences, Kumamoto Univ.; Graduate School of Medicinal Sciences) TAKAHASHI, Eriko; SAITO, Yohei; ITO, Chiaki; SAWA, Tomohiro; AKAIKE, Takaaki; ARIMOTO, Hirokazu  
**4E3-20\*** Synthesis of New Nitroxyl Radical Spin Probes for In Vivo Electron Paramagnetic Resonance Imaging (Tohoku Univ.) WANG, Xiaolei; ITTO, Kaori; XU, Shu; FUJII, Hirokazu; HIRATA, Hiroshi; ARIMOTO, Hirokazu

### Wednesday, March 28, PM

Chair: ARIMOTO, Hirokazu (13:40~14:40)

- \* 13:30-13:40: interval for laptop PC connection.(4E3-29, 4E3-30, 4E3-31, 4E3-32, 4E3-33, 4E3-34)  
**4E3-29** Search for compounds controlling histone modification from marine natural sponge. (Department of Chemistry and Biochemistry, School of Advanced Science and Engineering, Waseda Univ.) KINA, Yuto; NAKAO, Yoichi; KIMURA, Hiroshi; HAYASHI, Yoko  
**4E3-30** Biosynthetic study about the unique amino acid starter of icednine biosynthesis (Graduate School of Science and Engineering, Tokyo Institute of Technology) TAKAISHI, Makoto; KUDO, Fumitaka; EGUCHI, Tadashi  
**4E3-31** Biosynthetic gene cluster for macrolactam glycoside antibiotic cremimycin (Graduate School of Science and Engineering, Tokyo Institute of Technology) AMAGAI, Keita; KUDO, Fumitaka; EGUCHI, Tadashi  
**4E3-32** Study on Fluorescent Compounds in Citrus Peel (Ehime Univ.; Kyoto Univ.) KURAMOTO, Makoto; NAKAHIRA, Yuuya; KONDO, Naoshi; OGAWA, Yuichi; YAMAMOTO, Kazuya; MOMIN, MD. Abdul; IDO, Kyouhei  
**4E3-33** Study pertaining to efficient using of unused lacquer liquid which lack drying characteristic (Univ. of Meiji) MASUMOTO, Shin; HONDA, Takayuki; MIYAKOSHI, Tetsuo  
**4E3-34** Extraction and Isolation of Shikimic Acid from Ginkgo Biloba Leaves Utilizing an Ionic Liquid that Dissolves Cellulose (Faculty of Science and Technology, Sophia Univ.) USUKI, Toyonobu; YASUDA, Nanae; FUJITA, Masahiro; RIKUKAWA, Masahiro

Chair: TADANO, Kin-ichi (14:50~16:00)

- \* 14:40-14:50: interval for laptop PC connection.(4E3-36, 4E3-39, 4E3-40, 4E3-41, 4E3-42)  
**4E3-36 CSJ Award for Young Chemists** Bioorganic Studies on the Key Natural Products from Venomous Mammals and Marine Invertebrates (Grad. Sch. of Pure and Applied Sci., Univ. of Tsukuba) KITA, Masaki  
**4E3-39** Study of the antitumor and anti-inflammatory substances from marine origin (Univ. of Tsukuba) KAWAMURA, Atsushi; GISE, Baro; KITA, Masaki; KIGOSHI, Hideo  
**4E3-40** Screening for UV-Absorbing Compounds from *Mastigias papua* (Keio Univ.) TANAKA, Ayana; MIYAMOTO, Kenji; UEMURA, Daisuke  
**4E3-41** Screening for novel inhibitors of fat accumulation from *Valeriana fauriei* (Keio Univ.) YUKI, Keiji; IKEDA, Mariko; MIYAMOTO, Kenji; UEMURA, Daisuke  
**4E3-42** Studies on long-carbon-chain compounds from symbiotic marine dinoflagellate *Symbiodinium* sp. (Kanagawa Univ.) YOKOTA, Keisuke; MARU, Norihito; YAMADA, Kaoru; UEMURA, Daisuke

## Room F1

4th Bldg. Independence Wing D401

### Inorganic Chemistry

Sunday, March 25, AM

#### Layered Material

Chair: KAMESHIMA, Yoshikazu (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(1F1-01, 1F1-02, 1F1-03, 1F1-05)  
**1F1-01** Surface modification of a novel layered silicate HUS-1 (Hiroshima Univ.) TORII, MASATO; IDE, Yusuke; SADAKANE, Masahiro; SANO, Tsuneji

- 1F1-02** Delamination of layered octosilicate by ion exchange with didecyl-dimethylammonium ions (Faculty of Science and Engineering, Waseda Univ.; Kagami Memorial Laboratory for Materials Science and Technology, Waseda Univ.) OSADA, Shimon; IRIBE, Aoi; KURODA, Kazuyuki
- 1F1-03\*** Surface modification of a layered silicate, octosilicate, for the adsorption of cationic dye (Graduate school of creative science and engineering, Waseda Univ.) SOHMIYA, Minoru; NAKAMURA, Takanori; OGAWA, Makoto
- 1F1-05\*** Electrochemical Intercalation of [Ru(bpy)<sub>3</sub>] Complex Ions into the Interlayer Space of Multilayered Manganese Oxide film and Its Ion-exchange and Electrochemical Properties (Univ. of Yamaguchi) TOMONO, Kazuaki; YAMAGUCHI, Ryota; INOUE, Ryota; NAKAYAMA, Masaharu

### Layered Material, Titania

Chair: MORIMOTO, Kazuya (10:10~10:50)

- \* 10:00-10:10: interval for laptop PC connection.(1F1-08, 1F1-09, 1F1-10)
- 1F1-08** Silica and titania coating of carbon fiber (Waseda Univ.; Graduate School of Creative Science and Engineering) YOSHIDA, Takaaki; HASHIMOTO, Ryoya; HIRATA, Masatoshi; OGAWA, Makoto
- 1F1-09** Fabrication of porous titania films with small mesopores and crystallization of the frameworks (AIST) KIMURA, Tatsuo; CHANDRA, Debraj
- 1F1-10\*** Intercalation of Magnesium into Graphite-like Layered Material of Composition BC<sub>2</sub>N and Specific Resistance of Intercalation Compound (Osaka Electro-Communication Univ.) KAWAGUCHI, Masayuki; KURASAKI, Akihiro; ENOMOTO, Hiroyuki

### Layered Material

Chair: AISAWA, Sumio (11:00~11:50)

- \* 10:50-11:00: interval for laptop PC connection.(1F1-13, 1F1-15, 1F1-16, 1F1-17)
- 1F1-13\*** Solvent Effect on Anion-exchange Reaction of Carbonate Layered Double Hydroxide in Carboxylic Acid/Alcohol Solution (Okayama Univ.) TANAKA, Toshiyuki; KAMESHIMA, Yoshikazu; NISHIMOTO, Shunsuke; MIYAKE, Michihiro
- 1F1-15** Preparation and photocatalytic activity of Zn-Cr layered double hydroxide containing various interlayer anion species. (Osaka Prefecture Univ.) TADANAGA, Kiyoharu; HIRATA, Naoya; TATSUMISAGO, Masahiro
- 1F1-16** Synthesis of Mg-Fe layered double hydroxide and its reducing property with sugar alcohol (Ehime Univ.; NIMS) MORIMOTO, Kazuya; TAMURA, Kenji; SATO, Hisako; YAMADA, Hirohisa
- 1F1-17** The ion-exchange reaction of cesium ion onto Na-type Taeniolite. (Showa Pharm. Univ.) SUZUKI, Noriko; WATANABE, Yuijro; CHIKUMA, Toshiyuki

### Sunday, March 25, PM

#### Nanosheet

Chair: AISAWA, Sumio (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(1F1-34)
- 1F1-34 CSJ Award for Creative Works** Synthesis of Two-dimensional Inorganic Nanosheets and Developments of Their Functionalities (NIMS) SASAKI, Takayoshi
- Chair: OGAWA, Makoto (15:40~16:30)
- \* 15:30-15:40: interval for laptop PC connection.(1F1-41, 1F1-42, 1F1-43, 1F1-44, 1F1-45)
- 1F1-41** Hybrid multilayer films through layer-by-layer assembly of tungsten oxide nanosheet with porphyrin and their structural characterization (International Center for Materials Nanoarchitectonics, NIMS) AKATSUKA, Kosho; FUKUDA, Katsutoshi; EBINA, Yasuo; HAGA, Masa-aki; SASAKI, Takayoshi
- 1F1-42** Fabrication of mono- and multilayer films of neatly tiled titania nanosheets via spin-coating method. (International Center for Materials Nanoarchitectonics, NIMS) MATSUBA, Kazuaki; AKATSUKA, Kosho; FUJIMOTO, Kenjiro; ITO, Shigeru; SASAKI, Takayoshi
- 1F1-43** Synthesis of perovskite-type oxide nanosheets of  $M_2Na_4Nb_7O_{22}$  ( $M = \text{Ca, Sr}$ ) (MANA, NIMS) EBINA, Yasuo; AKATSUKA, Kosho; FUKUDA, Katsutoshi; SASAKI, Takayoshi
- 1F1-44** Preparation of An Electrically Conductive Nanosheet by Soft-Chemical Exfoliation of Na<sub>0.9</sub>MoO<sub>4</sub> (International Center for Materials Nanoarchitectonics, NIMS) OZAWA, Tadashi C.; KIM, Dae Sung; FUKUDA, Katsutoshi; FUKUE, Asuka; SASAKI, Takayoshi
- 1F1-45** Synthesis of transition-metal hydroxide nanocones with tuned compositions (International Center for Materials Nanoarchitectonics, National Institute for Materials Science) MA, Renzhi; LIU, Xiaohu; BANDO, Yoshio; SASAKI, Takayoshi

### Layered Material, Nanosheet

Chair: OZAWA, Tadashi (16:40~17:20)

- \* 16:30-16:40: interval for laptop PC connection.(1F1-47, 1F1-48, 1F1-49, 1F1-50)
- 1F1-47** Suppression of vibrational energy deactivation of Iridium(III) complex by encapsulated into layered silicates (Graduate School of Engineering, Tokyo Institute of Technology) SUGIYAMA, Motohiko; MOCHIZUKI, Dai; MAITANI, Masato; WADA, Yuji
- 1F1-48** Synthesis of Alternate Layered Nanostructures of Metal Oxides by One Step (Graduate School of Science and Engineering, Tokyo Institute of Technology) KUMAGAI, Kozue; MOCHIZUKI, Dai; MAITANI, Masato; WADA, Yuji
- 1F1-49** Preparation of Luminescent Nanosheets derived from Lanthanide-Doped Bi<sub>2</sub>SrTa<sub>2</sub>O<sub>9</sub> (Kyushu Univ.) OKAMOTO, Yohei; IDA, Shintaro; ISHIHARA, Tatsumi
- 1F1-50** Synthesis and catalytic activities for water oxidation of dinuclear manganese complex / semiconductor nanosheet composite (Niigata Univ.) MIYAGAWA, Tomoki; ZHANG, Xiaohong; YAGI, Masayuki

### Monday, March 26, AM

#### Solid State Chemistry

Chair: KOBAYASHI, Yoji (9:20~10:00)

- \* 9:10-9:20: interval for laptop PC connection.(2F1-03, 2F1-04, 2F1-05, 2F1-06)
- 2F1-03** Synthesis of Iron Phosphates with Imidazole (Ichinoseki National College of Technology; Tohoku Univ. Institute for Materials Research; Tohoku Fukushi Univ. Kansei Fukushi Research Center) YOSHIDA, Kazuki; OHSHIMA, Eriko; SUGIYAMA, Kazumasa; KIKUCHI, Masae
- 2F1-04** High-pressure synthesis and structure of Mo<sub>3</sub>S<sub>4</sub>; a new polymorph of a Chevrel phase compound Mo<sub>6</sub>S<sub>8</sub> (Hiroshima Univ.) FUKUOKA, Hiroshi; MASUOKA, Kumi; HANAOKA, Teruhiko; INUMARU, Kei
- 2F1-05** High-temperature and high-pressure synthesis of new sodium germanides (Hiroshima Univ. Graduate School of Eng.) WATANABE, Erika; SAITO, Daisuke; FUKUOKA, Hiroshi; INUMARU, Kei
- 2F1-06** Structural Phase Transition of Li<sub>2</sub>MnSiO<sub>4</sub> (Yamaguchi Univ.; Univ. Tokyo) NAKAYAMA, Noriaki; ITOYAMA, Takanobu; FUJIWARA, Keiko; NAKATSUKA, Akihiko; ISOBE, Masahiko; UEDA, Yutaka

Chair: FUKUOKA, Hiroshi (10:10~10:50)

- \* 10:00-10:10: interval for laptop PC connection.(2F1-08, 2F1-10, 2F1-11)
- 2F1-08\*** New titanium oxyhydrides: Part 1 (Kyoto Univ.) KOBAYASHI, Yoji; HERNANDEZ, Olivier; SAKAGUCHI, Tatsunori; YAJIMA, Takeshi; ROISNEL, Thierry; TSUJIMOTO, Yoshihiro; MORITA, Masaki; NODA, Yasuto; YUUKI, Mogami; ATSUSHI, Kitada; OHKURA, Masatoshi; HOSOKAWA, Saburo; LI, Zhaofei; HAYASHI, Katsuro; KUSANO, Yoshihiro; KIM, Jungeun; TSUJI, Naruki; FUJIWARA, Akihiko; MATSUSHITA, Yoshitaka; TAKEGOSHI, Kiyonori; INOUE, Masashi; TAKANO, Mikio; KAGEYAMA, Hiroshi
- 2F1-10** New titanium oxyhydrides: Part 2 (Kyoto Univ.) SAKAGUCHI, Tatsunori; HERNANDEZ, Olivier; YAJIMA, Takeshi; ROISNEL, Thierry; TSUJIMOTO, Yoshihiro; MORITA, Masaki; NODA, Yasuto; YUUKI, Mogami; ATSUSHI, Kitada; OHKURA, Masatoshi; HOSOKAWA, Saburo; LI, Zhaofei; HAYASHI, Katsuro; KUSANO, Yoshihiro; KIM, Jungeun; TSUJI, Naruki; FUJIWARA, Akihiko; MATSUSHITA, Yoshitaka; KAZUYOSHI, Yoshimura; TAKEGOSHI, Kiyonori; INOUE, Masashi; TAKANO, Mikio; KOBAYASHI, Yoji; KAGEYAMA, Hiroshi
- 2F1-11** New titanium oxyhydrides: Part 3 (Kyoto Univ.) YAJIMA, Takeshi; HERNANDEZ, Olivier; SAKAGUCHI, Tatsunori; ROISNEL, Thierry; TSUJIMOTO, Yoshihiro; MORITA, Masaki; NODA, Yasuto; YUUKI, Mogami; ATSUSHI, Kitada; OHKURA, Masatoshi; HOSOKAWA, Saburo; LI, Zhaofei; HAYASHI, Katsuro; KUSANO, Yoshihiro; KIM, Jungeun; TSUJI, Naruki; FUJIWARA, Akihiko; MATSUSHITA, Yoshitaka; KAZUYOSHI, Yoshimura; TAKEGOSHI, Kiyonori; INOUE, Masashi; TAKANO, Mikio; KOBAYASHI, Yoji; KAGEYAMA, Hiroshi

Chair: KAGEYAMA, Hiroshi (11:00~12:00)

- \* 10:50-11:00: interval for laptop PC connection.(2F1-13)
- 2F1-13 CSJ Award for Creative Works** Research on Synthesis, Structure Analysis, and Property Measurements of New Functional Oxide Materials (ICR, Kyoto Univ.) SHIMAKAWA, Yuichi

### Monday, March 26, PM

#### Syntheses and reactions

Chair: MAEDA, Kazuyuki (13:30~14:20)

- \* 13:20-13:30: interval for laptop PC connection.(2F1-28, 2F1-30, 2F1-31, 2F1-32)
- 2F1-28\*** Defect Controlled Room Temperature Ferromagnetism in Co-doped Barium Titanate Nanocrystals (Indian Assoc. Cultivation Science; Tokyo Tech) RAY, Sugata; ITOH, Mitsuru

- 2F1-30** Property of zirconium compound/activated carbon composites prepared by ultrasonication (Okayama Univ.) NANBA, Daichi; KAMESHIMA, Yoshikazu; NISHIMOTO, Shunsuke; MIYAKE, Michihiro
- 2F1-31** A Kinetic Study on the Hydrobromination of Silicon in the Presence of Abrasive Grains (Univ. of Yamaguchi; Graduate School of Science and Engineering) TOMONO, Kazuaki; OKAMURA, Yuuki; FURUYA, Hiroto; MIYAMOTO, Seiji; SUMIMOTO, Michinori; KOMATSU, Ryuichi; NAKAYAMA, Masaharu
- 2F1-32** Preparation of the blue potassium molybdenum bronze nanowires via solid phase transformation under hydrothermal conditions (Graduate School of Sciences, Kobe Univ.) NISHIDA, Takamasa; EDA, Kazuo

### Structures and Properties

Chair: INUMARU, Kei (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(2F1-34, 2F1-36, 2F1-38)
- 2F1-34\*** Bond Formation between Xe and  $d^{10}$  metal-ions grafted in MFI-type Zeolite observed at 300 K (Okayama Univ.; Kyoto Institute of Technology) TORIGOE, Hiroe; ODA, Akira; ITADANI, Atsushi; OHKUBO, Takahiro; YUMURA, Takashi; KOBAYASHI, Hisayoshi; KURODA, Yasushige
- 2F1-36\*** Proton dynamics in an oxalate-bridged coordination polymer having acidic sites (Kyoto Univ.; Univ. Tokyo ISSP; JASRI/SPRING-8; JST-CREST) SADAKIYO, Masaaki; YAMADA, Tepei; YAMADA, Takeshi; NAGOE, Atsushi; KOFU, Maiko; YAMAMURO, Osamu; SUGIMOTO, Kunihisa; FUJIWARA, Akihiko; KITAGAWA, Hiroshi
- 2F1-38** Study of Akaganite composition and property (Univ. of Kanazawa Institute of Technology) SATO, Ryo; YAMAKI, Satoru; OYABU, Matashige

Chair: NAKAYAMA, Noriaki (15 : 30~16 : 10)

- \* 15:20-15:30: interval for laptop PC connection.(2F1-40, 2F1-41, 2F1-42, 2F1-43)
- 2F1-40** Synthesis and fluorescent behavior of Metal-pyrene phosphonate (Tokyo Univ. of Agriculture and Technology) KURODA, Tomoya; KONDOU, Atsushi; MAEDA, Kazuyuki
- 2F1-41** Crystal structures and magnetic properties of oxygen-deficient perovskites ( $Sr_xCa_{2-x}FeGaO_5$  (ICR, Kyoto Univ.) YAMADA, Marina; TOHYAMA, Takenori; CHEN, Weitun; ICHIKAWA, Noriya; SAITO, Takashi; SHIMAKAWA, Yuichi
- 2F1-42** Chemical modification of inorganic molecule  $Mo_6S_8$  and their ionic conduction (Hiroshima Univ. Graduate School of Eng.) HANAOKA, Teruhiko; INUMARU, Kei; KAI, Hiroyuki; TSUSHIO, Yosinori
- 2F1-43** Pressure Induced Amorphization in  $12CaO \cdot 7Al_2O_3$  Including Anions (MSL, Tokyo Tech) HARA, Hana; ATOU, Toshiyuki; KIM, Sung Wng; HOSONO, Hideo

### Porous Materials

Chair: EDA, Kazuo (16 : 20~17 : 10)

- \* 16:10-16:20: interval for laptop PC connection.(2F1-45, 2F1-46, 2F1-47, 2F1-48, 2F1-49)
- 2F1-45** Crystal Structure and Water Content of Cobalt Exchanged Sodium GTS-type Titanosilicates (Yamaguchi Univ.) FUJIWARA, Keiko; TAMAKI, Tatsuya; KISHIMORI, Chika; TITORENKOVA, Rositsa; NAKATSUKA, Akihiko; NAKAYAMA, Noriaki
- 2F1-46** Gate adsorption of H<sub>2</sub> and CO<sub>2</sub> on a flexible copper complex (Tokyo Univ. of Agriculture and Technology) KOTANI, Ryosuke; KONDO, Atsushi; MAEDA, Kazuyuki
- 2F1-47** Preparation of one-dimensional metal-organic frameworks with different metal centre (Tokyo Univ. of Agriculture and Technology) SATOMI, Tokuya; KONDO, Atsushi; MAEDA, Kazuyuki
- 2F1-48** Gas Adsorbing Property and Luminescence Behavior of Lanthanoids Coordination Polymers (Hokkaido Univ.) MURAMATSU, Naoki; KAGEYAMA, Yoshiyuki; MARUTA, Goro; TAKEDA, Sadamu
- 2F1-49** Pore structure and function of dodeca tungstosilicic acid ammonium salts sponge crystals. (Hiroshima Univ. Graduate School of Eng.) ISHIKAWA, Tomoya; UYAMA, Takeshi; INUMARU, Kei

### Tuesday, March 27, AM

#### Radiochemistry, Nuclear Chemistry, f-block Elements

Chair: KUBO, Kenya (10 : 00~10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(3F1-07, 3F1-08, 3F1-09, 3F1-10, 3F1-11)
- 3F1-07** Preliminary experiment for hydroxide precipitation of element 104 (Grad. Sch. of Sci., Osaka Univ.) KASAMATSU, Yoshitaka; SHIOHARA, Naoya; KOMORI, Yukiko; KIKUTANI, Yuki; YOKOKITA, Takuya; KINO, Aiko; YOSHIMURA, Takashi; TAKAHASHI, Naruto; KIKUNAGA, Hidetoshi; OHTSUKI, Tsutomu; MITSUGASHIRA, Toshiaki; HABA, Hiromitsu; TAKAMIYA, Koichi; SHINOHARA, Atsushi
- 3F1-08** Extraction of molybdenum and tungsten in oxidation state +5 and +6 from hydrochloric acid with Aliquat 336 (Grad. Sch. of Sci., Osaka Univ.) YOKOKITA, Takuya; KOMORI, Yukiko; KIKUTANI, Yuki; KINO, Aiko; SHIOHARA, Naoya; KASAMATSU, Yoshitaka;

YOSHIMURA, Takashi; TAKAHASHI, Naruto; OOE, Kazuhiro; SHINOHARA, Atsushi

- 3F1-09** Solvent extraction of Zr and Hf with microfluidic devices for rapid liquid-liquid extraction of rutherfordium (Gra. Sch. of Sci., Osaka Univ.) KIKUTANI, Yuki; KINO, Aiko; YOKOKITA, Takuya; NAKAMURA, Kohei; KOMORI, Yukiko; KASAMATSU, Yoshitaka; YOSHIMURA, Takashi; TAKAHASHI, Naruto; SHINOHARA, Atsushi
- 3F1-10** Measurement of Redox Potential of Element 101, Mendeleevium (JAEA; RIKEN; Osaka Univ.; Univ. Mainz) TOYOSHIMA, Atsushi; LI, Zijie; ASAI, Masato; SATO, Nozomi; SATO, Tetsuya; KANEYA, Yusuke; KITATSUJI, Yoshihiro; OOE, Kazuhiro; TSUKADA, Kazuaki; NAGAME, Yuichiro; SCHAEDEL, Matthias; KASAMATSU, Yoshitaka; SHINOHARA, Atsushi; HABA, Hiromitsu; EVEN, Julia
- 3F1-11** Study of determination of the first ionization potential of Lr-Ionization efficiencies of short-lived lanthanide isotopes- (JAEA) SATO, Tetsuya; SATO, Nozomi; ASAI, Masato; TSUKADA, Kazuaki; TOYOSHIMA, Atsushi; OOE, Kazuhiro; KANEYA, Yusuke; KOJIMA, Takayuki; NAGAME, Yuichiro; SCHAEDEL, Matthias; ICHIKAWA, Shinichi

Chair: YOSHIMURA, Takashi (11 : 00~11 : 40)

- \* 10:50-11:00: interval for laptop PC connection.(3F1-13, 3F1-14, 3F1-15, 3F1-16)
- 3F1-13** Chemical states of  $^{57}Fe$  arising from  $^{57}Mn$  implantation in LiH (Nihon Univ., RIKEN, ICU, Tokyo Univ. Sci., Osaka Univ. Kanazawa Univ., NIRS) NAGATOMO, Takashi; KOBAYASHI, Yoshio; KUBO, Kenya; YAMADA, Yasuhiro; MIHARA, Mototsugu; SATO, Wataru; MIYAZAKI, Jun; MAE, Kazuya; SATO, Shinji; KITAGAWA, Atsushi
- 3F1-14** Sb doping effect into  $SnO_2$ -based diluted magnetic semiconductors (The Univ. of Tokyo) SHIMA, Akira; NOMURA, Kiyoshi; OKABAYASHI, Jun
- 3F1-15** Fabrication and magnetic properties of Fe-doped MgO nanoparticles (The Univ. of Tokyo) TAYA, Soichiro; NOMURA, Kiyoshi; OKABAYASHI, Jun; KATAYAMA, Kenji
- 3F1-16** Synthesis and Temperature-dependent Mossbauer Spectra of Novel Mixed-valence Trinuclear Iron Fluorine-substituted Benzoate Complexes (Daido Univ.; Toray Research Center; Univ. of Toho) ONAKA, Satoru; OGISO, Ryo; SAKAI, Yoichi; NAKAMOTO, Tadashi; TAKAHASHI, Masashi; TAKAYAMA, Tsutomu

### Tuesday, March 27, PM

#### polyoxometalate

Chair: ITO, Takeru (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(3F1-25, 3F1-27, 3F1-28, 3F1-29)
- 3F1-25\*** Synthesis and Oxidation Catalysis of Tetrazine Containing  $\alpha$ -,  $\beta$ -, and  $\gamma$ -Keggin Silicotungstates (The Univ. of Tokyo) KIKUKAWA, Yuji; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 3F1-27** Synthesis of Novel Intercluster Compound by Reaction of the Gold(I)/Carboxylate/ $P(p\text{-tolyl})_3$  Complex with Keggin-type Polyoxometalate (Kanagawa Univ. Fac. of Sci.) NOMIYA, Kenji; YOSHIDA, Takuya
- 3F1-28** Hydrogen-bonded Tetramer of Hexatantalate (Kwansei Gakuin Univ.; Univ. of Hyogo) OZAWA, Yoshiki; MATSUMOTO, Miki; YAGASAKI, Atsushi
- 3F1-29\*** Composites of Metal Nanoparticles and Heteropoly Acids for Reversible Hydrogen Storage as Protons and Electrons (School of Engineering, The Univ. of Tokyo) ITAGAKI, Shintaro; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

Chair: TSUNASIMA, Ryo (14 : 10~15 : 10)

- \* 14:00-14:10: interval for laptop PC connection.(3F1-32, 3F1-33, 3F1-34, 3F1-35, 3F1-36, 3F1-37)
- 3F1-32** Synthesis and Characterization of a Novel Dipalladium-Substituted  $\gamma$ -Keggin Silicotungstate (School of Engineering, The Univ. of Tokyo) HIRANO, Tomohisa; UEHARA, Kazuhiro; KAMATA, Keigo; MIZUNO, Noritaka
- 3F1-33** Synthesis of Novel Sandwich-Type Silicotungstates with Dinuclear Rare-Earth Metal Cores (School of Engineering, The Univ. of Tokyo) SUGAWA, Midori; KIKUKAWA, Yuji; HIRANO, Tomohisa; SUZUKI, Kosuke; MIZUNO, Noritaka
- 3F1-34** Reversible Interlayer-Cation-Exchange Properties of the Layered Dialuminum-Substituted Silicotungstate Trimers (The Univ. of Tokyo) KIKUKAWA, Yuji; YAMAGUCHI, Kazuya; HIBINO, Mitsuhiko; MIZUNO, Noritaka
- 3F1-35** Synthesis and Characterization of  $[\alpha\text{-GeW}_{11}\text{O}_{39}\text{Ru}(\text{DMSO})]^{5-}$  and  $[\beta\text{-GeW}_{11}\text{O}_{39}\text{Ru}(\text{DMSO})]^{6-}$  and their electrochemical behavior. (Hiroshima Univ.; JST PRESTO) SHIMIZU, Noriko; SADAKANE, Masahiro; OGO, Shuhei; OZEKI, Tomoji; SHIKAMA, Hideyasu; KOBAYASHI, Yusuke; IDE, Yusuke; SANO, Tsuneji
- 3F1-36** Synthesis and characterization of mono-rutenium substituted Dawson-type phosphotungstate (Hiroshima Univ.; JST PRESTO) OGO, Shuhei; MIYAMOTO, Mayumi; IDE, Yusuke; SANO, Tsuneji; SADAKANE, Masahiro
- 3F1-37** The ionic conductivity of  $\epsilon\text{-[PMo}_9\text{O}_{36}(\text{OH})_4\{\text{La}(\text{H}_2\text{O})_4\}\text{Br}_3\text{16H}_2\text{O}$ .

(Dept. of Applied Chemistry, College of Engineering, Chubu Univ.) KATO, Masaya; ISHIKAWA, Eri; IMAEDA, Kenichi; WATANABE, Makoto

Chair: ISHIKAWA, Eri (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(3F1-39, 3F1-40, 3F1-41, 3F1-42, 3F1-43, 3F1-44)
- 3F1-39** Three-Dimensional Ordered Arrays of Large Hollow Frameworks in Organic-Inorganic Ionic Crystals Based on Polyoxometalates with Tetranuclear Metal Cores (School of Engineering, The Univ. of Tokyo) SUZUKI, Kosuke; KIKUKAWA, Yuji; UCHIDA, Sayaka; MIZUNO, Noritaka
- 3F1-40** Selective Sorption of Olefins by Halogen-Substituted Macrocation-Polyoxometalate Porous Ionic Crystals (School of Arts and Sciences and School of Engineering, The Univ. of Tokyo) UCHIDA, Sayaka; EGUCHI, Ryo; NAKAMURA, Shinnosuke; KUROSAWA, Noriyuki; MIZUNO, Noritaka
- 3F1-41** Synthesis and Reactivity of Bis( $\mu$ -hydroxo)divanadium Substituted Polyoxometalate (The Univ. of Tokyo) UEHARA, Kazuhiro; FUKAYA, Keisuke; MIZUNO, Noritaka
- 3F1-42** Synthesis of hybrid layered crystal composed of polyoxometalate and long-tailed alkylamine (Tokai Univ.; Tokyo Tech.) ITO, Takeru; IDE, Ryuta; HASEGAWA, Shinsuke; NARUKE, Haruo
- 3F1-43** Enantioselective isolation and aqueous solution chemistry of chiral sandwich-type polyoxotungstates  $[\text{Ln}(\alpha_2\text{-P}_2\text{W}_{17}\text{O}_{61})_2]^{17-}$  (Chemical Resources Laboratory, Tokyo Institute of Technology) IJIMA, Jun; NARUKE, Haruo
- 3F1-44** Crystal Structure and Magnetic Properties of A Preyssler type POM Including Lanthanide Ion,  $\text{K}_{12}[\text{GdP}_3\text{W}_{30}\text{O}_{110}]$  (Graduate school of science, Hiroshima Univ.) KATO, Chisato; NISHIHARA, Sadafumi; TSUNASHIMA, Ryo; TATEWAKI, Yoko; INOUE, Katsuya

Chair: SUZUKI, Kosuke (16 : 30~17 : 10)

- \* 16:20-16:30: interval for laptop PC connection.(3F1-46, 3F1-47, 3F1-48)
- 3F1-46** Preparations and structural characterizations of novel polyoxometalate compounds containing high-nuclearity silver clusters (Tokyo Institute of Technology) KURASAWA, Mariko; OZEKI, Tomoji
- 3F1-47** Synthesis and photochromism of organic-inorganic hybrid materials comprising of chelating agents and Keggin-type polyoxometalates with or without lanthanide elements (Tokyo Institute of Technology) SHIKAMA, Hideyasu; OZEKI, Tomoji
- 3F1-48\*** Fingerprinting of molecular metal oxide nano-clusters by the electrophoretic mobility (Univ. of Yamaguchi) TSUNASHIMA, Ryo; YOSHIDA, Mamoru; ISHIGURO, Katsuya

## Room F2

4th Bldg. Independence Wing D403

### Energy and Related Chemistry

Monday, March 26, PM

#### Photo-energy Conversion

Chair: NAKATA, Kazuya (13 : 10~14 : 20)

- \* 13:00-13:10: interval for laptop PC connection.(2F2-26, 2F2-28, 2F2-29, 2F2-30, 2F2-31, 2F2-32)
- 2F2-26\*** Study on single mechanoluminescent particle as light source (National Institute of Advanced Industrial Science and Technology (AIST), Measurement Solution Research Center) TERASAKI, Nao; YAMADA, Hiroshi; XU, Chao-nan
- 2F2-28** Studies on the improvement of water-splitting activity of  $\text{TiO}_2$  nanotube array photoelectrodes (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) IMAI, Tetsuya; OZAWA, Hironobu; ARAKAWA, Hironori
- 2F2-29** Solar water splitting catalyzed by a copper oxide thin film modified photoelectrode (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) KIMPARA, Hironari; OZAWA, Hironobu; ARAKAWA, Hironori
- 2F2-30** Photochemical Hydrogen Production from Ammonia Borane Using Visible Light (Osaka Prefecture Univ.) MATSUDA, Chiaki; CHIKU, Masanobu; HIGUCHI, Eiji; INOUE, Hiroshi
- 2F2-31** Effects of metal doping on the water-splitting activity of tungsten trioxide thin film photoelectrodes (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) YANAGI, Akihiro; OZAWA, Hironobu; ARAKAWA, Hironori
- 2F2-32** Studies on the water-splitting activity of metal-doped hematite photoelectrodes (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) MACHIDA, Yuya; OZAWA, Hironobu; ARAKAWA, Hironori

Chair: EINAGA, Yasuaki (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(2F2-34, 2F2-35, 2F2-36,

2F2-37, 2F2-38)

- 2F2-34** Photo-induced  $\text{H}_2$  evolution from  $\text{H}_2\text{O}$  with porphyrin-carbon nanotubes-colloidal Ir (Appl Chem, Kyushu Inst Tech) ARAI, Toru; YOSHITAKE, Shohei; YUASA, Takashi; UCHIDA, Kento; MATSUMOTO, Seigo
- 2F2-35** Photoinduced Electron Transfer in The Membrane Composed of Methyl Viologen / Inorganic-Layered Material (Tokyo metropolitan Univ. ; Takagi Lab.) FUJIMURA, Takuya; MASUI, Dai; TACHIBANA, Hiroshi; INOUE, Haruo; SHIMADA, Tetsuya; TAKAGI, Shinsuke
- 2F2-36\*** Energy Transfer Dynamics of [26]/[28]Hexaphyrin-Bodipy Hybrids (POSTECH) SHIN, Jiyoung; KIM, Kilsuk; LIM, Jong Min; KIM, Kimoon; KIM, Dongho
- 2F2-37** Adsorption Behaviors of Cationic Antimony(V) Porphyrin Complexes on the Clay Surface (Tokyo Metropolitan Univ. ;Takagi Lab., PRESTO/JST) TSUKAMOTO, Takamasa; MASUI, Dai; SHIMADA, Tetsuya; INOUE, Haruo; TAKAGI, Shinsuke
- 2F2-38** Synthesis of cationic pyrene derivatives and their energy transfer reaction on the clay surface. (Tokyo Metropolitan Univ.) HAGIWARA, Satomi; ISHIDA, Yohei; MASUI, Dai; SHIMADA, Tetsuya; INOUE, Haruo; TAKAGI, Shinsuke

Chair: ARAI, Toru (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(2F2-40, 2F2-42, 2F2-43, 2F2-45)
- 2F2-40\*** Metal cations modulate the pigment-protein interaction in the light-harvesting I reaction center complex from thermophilic purple bacteria (Kobe Univ.) KIMURA, Yukihiko; INADA, Yuta; ARIKAWA, Teruhisa; NUMATA, Tomoko; YONG, Li; OTOMO, Sei; OHNO, Takashi
- 2F2-42** High Frequency Pulse EPR Studies of Oxygen Evolving Complexin Cyanobacterial Photosystem II (Institute of Multidisciplinary Research for Advanced Materials, Tohoku Univ.; Okayama Univ. ;) MATSUOKA, Hideto; SHEN, Jian-ren; ITO, Shinya; OHBA, Yasunori; YAMAUCHI, Hideto
- 2F2-43\*** Mechanism of visible light induced photocurrent generation at an antimony sulfide / nanoporous metal oxide electrode (Niigata Univ.) SHOJI, Akinori; UENO, Tatsuya; KABAKI, Hideyuki; OUCHI, Kosei; YAGI, Masayuki
- 2F2-45** Preparation and photoanodic properties of antimony selenide deposited on nanoporous titanium dioxide electrode (Niigata Univ.) UENO, Tatsuya; SHOJI, Akinori; KABAKI, Hideyuki; OUCHI, Kosei; YAGI, Masayuki

Chair: YAGI, Masayuki (16 : 40~17 : 10)

- \* 16:30-16:40: interval for laptop PC connection.(2F2-47, 2F2-48, 2F2-49)
- 2F2-47** Electrochemical Reduction of Carbon Dioxide by using of Copper Rubenate Metal Organic Framework. (ATRL, Panasonic Co.) HINOGAMI, Reiko; YOTSUHASHI, Satoshi; DEGUCHI, Masahiro; ZENITANI, Yuji; HASHIBA, Hiroshi; YAMADA, Yuka
- 2F2-48** Electrochemical reduction of carbon dioxide at boron-doped diamond electrodes (KAST, Tokyo Univ. of Science, Keio Univ., CREST) NAKATA, Kazuya; ADACHI, Taiga; OZAKI, Takuya; OCHIAI, Tsuyoshi; MURAKAMI, Taketoshi; EINAGA, Yasuaki; FUJISHIMA, Akira
- 2F2-49** Electrochemical reduction of carbon dioxide at polyaniline modified Boron-Doped Diamond electrode (Tokyo Univ. of Science; Kanagawa Academy of Science and Technology) KAGAWA, Tomoya; NAKATA, Kazuya; ADACHI, Taiga; EINAGA, Yasuaki; OCHIAI, Tsuyoshi; SAKAI, Hideki; MURAKAMI, Taketoshi; ABE, Masahiko; FUJISHIMA, Akira

Tuesday, March 27, AM

#### Chemical Energy Conversion

Chair: GOKON, Nobuyuki (9 : 00~9 : 40)

- \* 8:50-9:00: interval for laptop PC connection.(3F2-01, 3F2-02, 3F2-03, 3F2-04)
- 3F2-01** Chemical Energy Conversion of Concentrated Solar Energy (99) Solar Upgrade of Methane Using Dry Reforming in Direct Contact Bubble Reactor (Tokyo Tech) KHALID, Alali; KANEKO, Hiroshi; SEKIGUCHI, Hidetoshi; TAMAURA, Yutaka
- 3F2-02** Development of a novel solar concentration system for solar thermochemical reactions (Tokyo Tech, Tamaura laboratory) TANAKA, Yasuto; KANEKO, Hiroshi; SATO, Tatuya; UEDA, Takeshi; TAMAURA, Yutaka
- 3F2-03** Chemical Energy Conversion of Concentrated Solar Energy (101) Analysis of solid chemistry after  $\alpha$  oxygen releasing reaction (Tokyo Tech) KUROSAWA, Noria; KANEKO, Hiroshi; TAMAURA, Yutaka
- 3F2-04\*** Chemical Energy Conversion of Concentrated Solar Energy (102) Reactivity of  $\text{CeO}_2\text{-Li}_2\text{O}$  Solid Solutions in the  $\text{O}_2$ -releasing Step (Tamaura Laboratory, Tokyo Institute of Technology) MENG, Qinglong; LEE, Chongil; SHIGETA, Satoshi; KANEKO, Hiroshi; TAMAURA, Yutaka

Chair: KANEKO, Hiroshi (9 : 50~10 : 30)

- \* 9:40-9:50: interval for laptop PC connection.(3F2-06, 3F2-07, 3F2-08, 3F2-09)
- 3F2-06** Thermochemical water-splitting by reactive ceramic materials(22)

Rietveld analysis of cerium oxide for two-step thermochemical water-splitting cycle (Niigata Univ.) TANAKA, Yoshiki; KONDO, Ken; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya

**3F2-07** Thermochemical water-splitting by reactive ceramic materials (23) kinetics of thermal reduction step of two-step thermochemical water splitting cycle using CeO<sub>2</sub>. (Niigata Univ.) SATO, Yusuke; KONDO, Ken; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya

**3F2-08** Thermochemical water-splitting by reactive ceramic materials (24) Activity and reactivity research of cerium oxide for thermochemical two-step water splitting cycle (Niigata Univ.) SAGAWA, Sachi; AOYAGI, Daiki; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya

**3F2-09** Thermochemical water-splitting by reactive ceramic materials (25) A new reactor system with an internally circulating fluidized bed under direct solar irradiation-VI (Niigata Univ.) OMORI, Kei; SAITO, Megumi; MATAGA, Tetsuro; GOKON, Nobuyuki; KODAMA, Tatsuya

Chair: GOKON, Nobuyuki (10 : 40~11 : 30)

\* 10:30-10:40: interval for laptop PC connection.(3F2-11, 3F2-12, 3F2-13, 3F2-14, 3F2-15)

**3F2-11** Chemical Energy Conversion of Concentrated Solar Energy (103) Thermogravimetric analysis of Oxygen releasing reaction with CeO<sub>2</sub>-ZrO<sub>2</sub> based reactive ceramics (Tokyo Tech) SHIGETA, Satoshi; GOTO, Asobu; LEE, Chon-il; MO, Keiryu; KANEKO, Hiroshi; TAMAURA, Yutaka

**3F2-12** Chemical Energy Conversion of Concentrated Solar Energy (104) Effect of second dopant of Ce<sub>0.8</sub>Zr<sub>0.1</sub>M<sub>0.1</sub>O<sub>2-δ</sub> (M = La, Sr, Nd, Ba) on reaction rate in  $\gamma$ -releasing step (Tokyo Tech, Tamaura laboratory) GOTO, Asobu; SHIGETA, Satoshi; LEE, Chon-il; MO, Keiryu; KANEKO, Hiroshi; TAMAURA, Yutaka

**3F2-13** Chemical Energy Conversion of Concentrated Solar Energy (105) Kinetic Analysis of CeO<sub>2</sub> Reactive Ceramics in the Oxidation Process (Tamaura Lab, Tokyo Tech.) LEE, Chongil; MENG, Qinglong; KANEKO, Hiroshi; TAMAURA, Yutaka

**3F2-14** Conversion of Concentrated Solar Energy to Chemical Energy (97) Thermochemical reduction of ceria-zirconia reactive ceramics at high oxygen partial pressure (Tokyo Institute of Technology) KANEKO, Hiroshi; LEE, Chon-il; TAMAURA, Yutaka

**3F2-15** Conversion of Concentrated Solar Energy to Chemical Energy (107) Enhancement of solar thermal reduction of reactive ceramics on Tokyo Tech rotary-type solar reactor (Tokyo Institute of Technology) TAMAURA, Yutaka; SHIGETA, Satoshi; KANEKO, Hiroshi

### Energy-saving Material

Chair: TATSUMI, Takashi (11 : 40~12 : 20)

\* 11:30-11:40: interval for laptop PC connection.(3F2-17)

**3F2-17 CSJ Award for Technical Development** Development and Industrialization of Novel Zeolite Water Vapor Adsorbent (Mitsubishi Chemical Corporation; Mitsubishi Chemical Group Science and Technology Research Center, INC.; Mitsubishi Plastic, INC.) KAKIUCHI, Hiroyuki; TAKEWAKI, Takahiko; TANIGAWA, Yuuichi; IWADE, Miki; KUBOKAWA, Seichi

### Tuesday, March 27, PM

#### Solid Electrolyte, Capacitor, Secondary Battery

Chair: YOKOSHIMA, Tokihiko (13 : 30~14 : 20)

\* 13:20-13:30: interval for laptop PC connection.(3F2-28, 3F2-29, 3F2-30, 3F2-31, 3F2-32)

**3F2-28** Preparation of Li<sub>2</sub>S-GeS<sub>2</sub> solid electrolyte thin films by pulsed laser deposition (Osaka Prefecture Univ.) HAYASHI, Akitoshi; ITO, Yusuke; SAKUDA, Atushi; OTOMO, Takamasa; TATSUMISAGO, Masahiro

**3F2-29** Low temperature synthesis of Al-added Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> solid electrolyte by the sol-gel method (Osaka Prefecture Univ.) TADANAGA, Kiyoharu; TAKANO, Ryouhei; HAYASHI, Akitoshi; TATSUMISAGO, Masahiro

**3F2-30** Preparation and characterization of highly sodium ion conducting Na<sub>3</sub>PS<sub>2</sub>-Na<sub>4</sub>Si<sub>4</sub> solid electrolytes (Osaka Prefecture Univ.) HAYASHI, Akitoshi; TANIBATA, Naoto; NOI, Kousuke; TATSUMISAGO, Masahiro

**3F2-31** Fabrication and evaluation of all-solid-state Al/air batteries using KOH-ZrO<sub>2</sub> solid electrolytes (Toyohashi Univ. of Technology) ESAKI, Takuma

**3F2-32** Preparation of MnO<sub>2</sub>-carbon nanotubes composites for the application to all solid-state electrochemical capacitors (Osaka Prefecture Univ.) TADANAGA, Kiyoharu; SHIMAMOTO, Kazushi; TATSUMISAGO, Masahiro

Chair: MIYAZAKI, Kohei (14 : 30~15 : 10)

\* 14:20-14:30: interval for laptop PC connection.(3F2-34, 3F2-35, 3F2-36, 3F2-37)

**3F2-34** Preparation of Na<sub>2</sub>S composite electrodes by mechanical milling and their application to all-solid-state sodium secondary batteries (Osaka Prefecture Univ.) HAYASHI, Akitoshi; SHIINO, Takumi; NAGAO, Motohiro; TADANAGA, Kiyoharu; TATSUMISAGO, Masahiro

**3F2-35** Surface modification of lithium cobalt oxide with a cyanide-bridged metal complex (Osaka Prefecture Univ.) TADANAGA, Kiyoharu;

TERAGAWA, Shingo; TSUCHIYAMA, Kohei; MAKIURA, Rie; TATSUMISAGO, Masahiro

**3F2-36** Deposition condition of non-aqueous electrodeposition of SnOC composite anode for lithium secondary battery (Waseda Univ.) YOKOSHIMA, Tokihiko; TOYODA, Ayano; NARA, Hiroki; MOMMA, Toshiyuki; OSAKA, Tetsuya

**3F2-37** Electrochemical Analysis of the Interface of Li<sub>2</sub>S-P2S<sub>5</sub> Solid Electrolytes/Li Metal Electrodes Using Microelectrodes (Osaka Prefecture Univ.) TSUJIWAKI, Wataru; HIGUCHI, Eiji; CHIKU, Masanobu; INOUE, Hiroshi

Chair: TADANAGA, Kiyoharu (15 : 20~16 : 20)

\* 15:10-15:20: interval for laptop PC connection.(3F2-39, 3F2-40, 3F2-41, 3F2-43)

**3F2-39** Observation of a LiCoO<sub>2</sub> positive electrode of Li-ion Battery by TOF-SIMS (Kogakuin Univ.; Mitsui Chemicals) OHNISHI, Miwa; MATSUOKA, Osamu; NOGI, Hidenobu; SAKAMOTO, Tetsuo

**3F2-40** Relationship between Structure of Overcharge Protection Agents for Lithium Ion Batteries and Overcharge Protection Effect (2) (Hitachi, Ltd. Hitachi Research Laboratory) IWAYASU, Norio; TAKAHASHI, Ko

**3F2-41\*** Electrochemical Charge-Discharge Behaviors of Anion-Exchange-Ionomer-Modified Zinc Oxide Electrodes (Kyoto Univ.) MIYAZAKI, Kohei; LEE, You-shin; FUKUTSUKA, Tomokazu; ABE, Takeshi

**3F2-43\*** Indigo Derivatives as Positive-Electrode Materials for Use in Rechargeable Non-Aqueous Batteries (Research Institute for Ubiquitous Energy Devices, National Institute of Advanced Industrial Science and Technology (AIST)) YAO, Masaru; KURATANI, Kentaro; SANO, Hikaru; SENOH, Hiroshi; KIYOBAYASHI, Tetsu

### Materials

Chair: MIYAZAKI, Kohei (16 : 30~17 : 30)

\* 16:20-16:30: interval for laptop PC connection.(3F2-46, 3F2-47, 3F2-49, 3F2-50)

**3F2-46** A theoretical deduction of the shape and size of nanocarbons suitable for hydrogen adsorption (Tokai Univ.) ISHIKAWA, Shigeru

**3F2-47\*** Hydrogen Storage on Calix arene (Crown Research Inc.) ENDOU, Hajime; KOGA, Yuji; MAKINO, Kenichi; NAKANO, Masahiro; OHTO, Keisuke; SHUDO, Toshio

**3F2-49** Enhancement of the proton transport properties in polyaspartic acid thin films (Kyoto Univ.; JST PRESTO) NAGAO, Yuki

**3F2-50\*** Thermoelectric figure of merit  $ZT$  of a  $\tau$ -type organic conductor  $\tau$ -(P-S,S-DMEDT-DSDTF)<sub>2</sub>(AuBr<sub>2</sub>)<sub>1+y</sub> including selenium (Grad. School of Sci., Osaka City Univ.) YOSHINO, Harukazu; NAKADA, Haruki; PAPAVALASSIOU, George C.; ANYFANTIS, George C.; MURATA, Keizo

## Room F3

4th Bldg. Independence Wing D404

### Asian International Symposium -Catalysts and Catalysis-

Tuesday, March 27, PM

Chair: MURAMATSU, Atsushi (13 : 00~14 : 30)

**3F3-25<sup>#</sup> Invited Lecture** Aerobic oxidation of sulfides to sulfoxides over manganese oxides prepared by different methods (Tokyo Metropolitan Univ.) Taketoshi, Ayako; Haruta, Masatake (13:00~13:30)

**3F3-28<sup>#</sup> Invited Lecture** Progress toward nanowire device assembly technology (The Univ. of Tokyo) LI, Yanbo; WANG, Daoai; ZHONG, Miao; DELAUNAY, Jean-Jacques; KUBOTA, Jun; DOMEN, Kazunari (13:30~14:00)

**3F3-31<sup>#</sup> Invited Lecture** Photocatalytic conversion of carbon dioxide into methanol over layered double hydroxide catalysts (Chiba Univ.) Ahmed, Naveed; Izumi, Yasuo (14:00~14:30)

Chair: SATO, Satoshi (14 : 50~17 : 00)

**3F3-36<sup>#</sup> Keynote Lecture** Hydrothermal Synthesis of Zeolites with Three-Dimensionally Ordered Mesoporous-Imprinted Structure (Univ. of Massachusetts Amherst) FAN, Wei (14:50~15:50)

**3F3-43<sup>#</sup> Invited Lecture** Intermetallic Pt<sub>3</sub>Ti Nanoparticles: Efficient Catalytic Centers for Exhaust Purification and Energy Applications (NIMS) Govindachetty Saravanan (16:00~16:30)

**3F3-46<sup>#</sup> Invited Lecture** Development of functional graphene-based electrodes for supercapacitor and advanced Li-ion battery (Tohoku Univ.) Sathish, Marappan (16:30~17:00)

## Room F4

4th Bldg. Independence Wing D406

## Material Chemistry

Sunday, March 25, AM

Chair: NISHIJIMA, Yoshiaki (9:00~9:50)

\* 8:50-9:00: interval for laptop PC connection.(1F4-01, 1F4-02, 1F4-03, 1F4-04, 1F4-05)

**1F4-01** Preparation of silica-based mesostructured materials by using polydimethylsiloxane-polyethyleneglycol diblock copolymers as templates (Faculty of Science and Engineering, Waseda Univ.) TODA, Asuka; ABE, Takuya; KAWAHARA, Kazufumi; FUKUSHIMA, Yuta; KANNO, Yosuke; KURODA, Kazuyuki

**1F4-02** Preparation of mesoporous titania-silica composite thin films by using polydimethylsiloxane-polyethyleneglycol diblock copolymers as templates (Faculty of Science and Engineering, Waseda Univ.) ABE, Takuya; TODA, Asuka; FUKUSHIMA, Yuta; KAWAHARA, Kazufumi; KANNO, Yosuke; KURODA, Kazuyuki

**1F4-03** Expanding the structural periodicity of uniaxially aligned mesostructured silica films (School of Science and Engineering, Waseda Univ.) HAYASE, Saeko; KUBO, Wataru; KANNO, Yosuke; FUKUSHIMA, Yuta; MIYATA, Hirokatsu; KURODA, Kazuyuki

**1F4-04** Preparation of a mesostructured material from a porphyrin derivative containing triethoxysilyl groups and energy transfer from the porphyrin ring to a chlorophyll derivative (Faculty of Science and Engineering, Waseda Univ.) KANEKO, Shuya; NASU, Shintaro; KURODA, Kazuyuki

**1F4-05** Shape Control of Au Nanoparticles Using a Photocatalytic Mesoporous Oxide Template and the Photocatalytic Properties (Toyo Hashi Univ. of Tech.) OKUNO, Teruhisa; KAWAMURA, Go; MUTO, Hiroyuki; MATSUDA, Atsunori

Chair: ALBRECHT, Ken (10:00~10:50)

\* 9:50-10:00: interval for laptop PC connection.(1F4-07, 1F4-08, 1F4-10, 1F4-11)

**1F4-07** Electrochemical Preparation of Platinum Nanoboxes Using Silver Cubes as a Template (Nagoya Univ.) NAKANO, Megumi; OKAZAKI, Ken-ichi; TORIMOTO, Tsukasa

**1F4-08\*** Shape Control of Ag Nanoparticles in the Tubular Mesopores Using Surface Plasmon-Induced Charge Separation (Toyo Hashi Univ. of Tech.) KAWAMURA, Go; MURAKAMI, Mai; OKUNO, Teruhisa; MUTO, Hiroyuki; MATSUDA, Atsunori

**1F4-10** Construction of plasmonic materials using Au/Ag alloy (Yokohama National Univ.) NISHIJIMA, Yoshiaki; AKIYAMA, Syunsuke

**1F4-11** Optical properties of localized surface plasmon resonance with periodic/random configurations (Yokohama National Univ.) NISHIJIMA, Yoshiaki

Chair: NEGISHI, Yuichi (11:00~12:10)

\* 10:50-11:00: interval for laptop PC connection.(1F4-13, 1F4-15, 1F4-16, 1F4-17, 1F4-18, 1F4-19)

**1F4-13\*** Supramolecular hybrid of metal nanoparticles and semiconducting single-walled carbon nanotubes assembled via fluorine-carbazole copolymer (Kyushu Univ.) OZAWA, Hiroaki; TOSHIMITSU, Fumiyouki; IDE, Natsuko; FUJIGAYA, Tsuyohiko; NIIDOME, Yasuro; NAKASHIMA, Naotoshi

**1F4-15** Study of formation mechanism and surface condition of copper fine particles prepared from CuO (Division of Material Science and Engineering, Faculty of Engineering, Hokkaido Univ.) UCHIDA, Yoshiki; NARUSHIMA, Takashi; YONEZAWA, Tetsu

**1F4-16** Preparation and their properties of platinum alloy nanoparticles having linear polyethyleneimine derivative as a ligand (Tokyo Univ. of Science, Faculty of Science and Technology) IMAI, Takanori; ABE, Yoshimoto; ABE, Noritaka; GUNJI, Takahiro

**1F4-17** Au-Pt Bimetal Assembly in Phenylazomethine Dendrimer (Tokyo Tech) KANG, Ling-chen; ALBRECHT, Ken; YAMAMOTO, Kimihisa

**1F4-18** Dendrimer-encapsulated precise Platinum subnanoparticle. (Chem. Res. Lab., Tokyo Ins Tech.) HONGO, Yushi; IMAOKA, Takane; YAMAMOTO, Kimihisa

**1F4-19** Fabrication of FeCo-Containing Nanocomposite Magnets with Exchange Interaction (Univ. of Tsukuba; Kyoto Univ.) OBATA, Yoshie; SATO, Ryota; TERANISHI, Toshiharu

Sunday, March 25, PM

Chair: NIIDOME, Yasuro (13:20~14:30)

\* 13:10-13:20: interval for laptop PC connection.(1F4-27, 1F4-28, 1F4-29, 1F4-30, 1F4-32)

**1F4-27** Exchange Coupling Interaction in  $L1_0$ -FePd/ $\alpha$ -Fe Nanocomposite Magnets with Optimum Nanostructure (Univ. of Tsukuba; Kyoto Univ.)

OHSHIMA, Tsubasa; SATO, Ryota; TERANISHI, Toshiharu

**1F4-28** Metal nano particle black shielding materials (SUMITOMO OSAKA CEMENT CO., LTD) NOZOE, Tsutomu

**1F4-29** Synthesis and Optical Properties of Gold Nanoparticle Network Covered with Polystyrene (Graduate School of Engineering, Osaka City Univ.) HIRAMATSU, Kuniaki; NISHI, Hiroyasu; KOBATAKE, Seiya

**1F4-30\*** In-situ Heating TEM Observation of Gold Nanocluster Coated with Glutathione (Hokkaido Univ.; Nagoya Univ.; Tokyo Univ. of Sci.; Univ. of Tokyo) NARUSHIMA, Takashi; TOKUNAGA, Tomoharu; NEGISHI, Yuichi; TSUKUDA, Tatsuya; YONEZAWA, Tetsu

**1F4-32\*** Preparation of metal sulfide and phosphide particles by a hot soap technique and their application to all-solid-state batteries (Osaka Prefecture Univ.; JST-CREST) ASO, Keigo; HAYASHI, Akitoshi; TATSUMISAGO, Masahiro

Chair: IMAOKA, Takane (14:40~16:00)

\* 14:30-14:40: interval for laptop PC connection.(1F4-35, 1F4-37, 1F4-39, 1F4-41)

**1F4-35\*\*** Ultimately Simple One-pot Synthesis of Spherical Mesoporous TiO<sub>2</sub> Nanoparticles in Supercritical Methanol (Kochi Univ. of Technology) WANG, Pengyu; KOBIRO, Kazuya

**1F4-37\*** The Synthesis and Properties of Noble PdRu Solis-solution Alloy Nanoparticles (Kyoto Univ., Graduate School of Science) KUSADA, Kohei; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi

**1F4-39\*** Room temperature fabricated organic device using metal nanoink (Okayama Univ. RCIS) KANEHARA, Masayuki; TAKEYA, Jun; UEMURA, Takafumi; MURATA, Hideyuki; TAKIMIYA, Kazuo; TERANISHI, Toshiharu

**1F4-41\*** Preparation of chitin nanofibers-gold nanometallic blend by phase transfer method (Graduate School of Engineering, Tottori Univ.) SHERVANI, Zameer; YUKAWA, Taisuke; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

Chair: TAKEOKA, Yukikazu (16:10~17:20)

\* 16:00-16:10: interval for laptop PC connection.(1F4-44, 1F4-46, 1F4-48, 1F4-49, 1F4-50)

**1F4-44\*** Size Effect of Water Oxidation Nanoparticle Cocatalysts for Visible-Light-Driven Overall Water Splitting (Univ. of Tsukuba, Univ. of Tokyo, Kyoto Univ.) YOSHINAGA, Taizo; XIONG, Anke; IKEDA, Takahiro; MAEDA, Kazuhiko; DOMEN, Kazunari; TERANISHI, Toshiharu

**1F4-46\*** Control of Nanodot Patterns of Phenylazomethine Dendrimers (Chem. Res. Lab., Tokyo Ins Tech.) HIRANO, Isao; IMAOKA, Takane; YAMAMOTO, Kimihisa

**1F4-48** Enhancement of photocatalytic activity by c(+) plane faced ZnO spherical particles doped with noble metal nanoparticles (Kyusyu Institute of Technology) SANO, Keiichi; IKENO, Shinya; HANEDA, Hajime; SAITO, Noriko; HARUYAMA, Tetsuya

**1F4-49** Preparation of silica microcapsules containing nematic liquid crystal (AIST-Kansai) SHIMIZU, Yo; MIYAMOTO, Kouji; SHIOKAWA, Kumi; FUJIWARA, Masahiro

**1F4-50** Transparency of poly(dimethylsiloxane) based nanocomposite with highly dispersed zirconia nanoparticle (Sumitomo Osaka Cement Co.Ltd; Kyoto Univ.) HARADA, Kenji; OTSUKA, Takeshi; CHUJO, Yoshiki

Chair: KOBAYASHI, Hirokazu (17:30~18:40)

\* 17:20-17:30: interval for laptop PC connection.(1F4-52, 1F4-53, 1F4-54, 1F4-55, 1F4-56, 1F4-57, 1F4-58)

**1F4-52** Two-photon-driven photochromic device with large-area near-field lighting array (NIMS) ISOZAKI, Katsuhiko; OCHIAI, Takao; TAGUCHI, Tomoya; MIKI, Kazushi

**1F4-53** Novel Silicide-Based Composite Particulates: Synthesis and Lithium-ion Battery Negative Electrode Performance (Toyota Central R&D Laboratories, Inc.) ITAHARA, Hiroshi; OHSUNA, Tetsu; KOBAYASHI, Tetsuro; ASAOKA, Takahiko; SAITO, Yasuyoshi

**1F4-54** Novel Preparative Method for Gallium Nanoparticles Utilizing Its Liquid-Metallic Property (Department of science, Hokkaido Univ.) SUDO, Shinya; SUGIKAWA, Kouta; NAGATA, Shunjiro; KOKADO, Kenta; SADA, Kazuki

**1F4-55** Fabrication of mono dispersed secondary particle by using micro flow device, and its structural color (Graduate School of Engineering, Nagoya Univ.) TESHIMA, Midori; TAKEOKA, Yukikazu; SEKI, Takahiro; KAWANO, Ryuji; YOSHIOKA, Shinya; TAKEUCHI, Syouji

**1F4-56** Synthesis of Silicon Quantum Dots Functionalized with Sugar Chains and Their Fluorescence Property in Aqueous Solution (Faculty of Systems Engineering, Wakayama Univ.) MACHIYA, Kazuki; NAKAHARA, Yoshio; KOUMOTO, Daiki; FURUIKE, Tetsuya; TAMURA, Hiroshi; KIMURA, Keiichi

**1F4-57** Increase in Both Pore Size and Particle Diameter of Aqueous Colloidal Mesoporous Silica Nanoparticles by the Addition of Trialkylbenzene (Faculty of Science and Engineering, Waseda Univ.) UJIIE, Hiroto; YAMADA, Hironori; URATA, Chihiro; YAMAUCHI, Yusuke; KURODA, Kazuyuki

**1F4-58** Influence of sol-gel catalyst on formation of colloidal mesoporous silsesquioxane nanoparticles (Faculty of Science and Engineering, Waseda Univ.) ONISHI, Kenta; KANEKO, Shuya; YAMADA, Hironori; URATA, Chihiro; YAMAUCHI, Yusuke; KURODA, Kazuyuki



Monday, March 26, AM

Chair: GUNJI, Takahiro (9:00~9:50)

\* 8:50-9:00: interval for laptop PC connection.(2F4-01, 2F4-04, 2F4-05)

**2F4-01 Young Scholar Lectures of CSJ** Aqueous Solution Approaches for Precise Syntheses of Inorganic Nanomaterials (Faculty of Science and Technology, Keio Univ.) OAKI, Yuya

**2F4-04** Effect of Molten Salt Composition on the Ion-Exchange-Induced Phase Separation in Sodium Borosilicate Glass (Kyoto Inst. Tech.) KADONO, Kohei; YAMAWAKI, Kengo; WAKASUGI, Takashi

**2F4-05** TiO<sub>2</sub> thin films fabricated by the non-aqueous sol-gel method with different precursors (National Institute of Advanced Industrial Science and Technology) HORIUCHI, Tatsuro

Chair: OAKI, Yuya (10:00~10:50)

\* 9:50-10:00: interval for laptop PC connection.(2F4-07, 2F4-08, 2F4-09, 2F4-10, 2F4-11)

**2F4-07** Sol-gel synthesis of anionic ladder-like polysilsesquioxane with hexagonally stacked structure (Kagoshima Univ.; NIMS) KANEKO, Yoshiro; TOYODOME, Hisaya; IYI, Nobuo

**2F4-08** Mass spectrometry of ions and neutrals generated by pulsed magnetron sputtering source under the conditions of forming films (Department of chemistry, Faculty of science, Tohoku Univ.) MATSUSAKI, Hiromi; TAMURA, Tetsuro; KOYASU, Kiichirou; YAMAMOTO, Hiroaki; ISHIHARA, Daiki; TSUKAMOTO, Keizo; MISAIZU, Fuminori

**2F4-09** Synthesis and characterization of linear oligosiloxanes using Wilkinson's catalyst (Tokyo Univ. of Science, Faculty of Science and Technology) KONDO, Natsuko; ABE, Yoshimoto; ABE, Noritaka; GUNJI, Takahiro

**2F4-10** Synthesis and characterization of 1,10-phenanthroline platinum complexes having ethylenediamine as a ligand. (Tokyo Univ. of Science, Faculty of Science and Technology) SHIMURA, Yusuke; ABE, Yoshimoto; GUNJI, Takahiro; ABE, Noritaka

**2F4-11** Synthesis and characterization of polysilsesquioxane havingarylsulfonic acid as a side chain (Tokyo Univ. of Science, Faculty of Science and Technology) YAMAMOTO, Kazuki; ABE, Yoshimoto; ABE, Noritaka; GUNJI, Takahiro

Chair: HORIUCHI, Tatsuro (11:00~12:00)

\* 10:50-11:00: interval for laptop PC connection.(2F4-13, 2F4-14, 2F4-15, 2F4-16, 2F4-18)

**2F4-13** Synthesis of Zirconium Polymer Coupling Agents and Their Properties (Tokyo Univ. of Science, Faculty of Science and Technology) OSADA, Yusuke; ABE, Yoshimoto; ABE, Noritaka; GUNJI, Takahiro

**2F4-14** Synthesis and properties of silsesquioxane polymer (Tokyo Univ. of Science, Faculty of Science and Technology) TAKAI, Shoto; ABE, Yoshimoto; ABE, Noritaka; GUNJI, Takahiro

**2F4-15** Super hydrophilicity of silica coatings and its aging variation (Univ. of Hyogo) HIRAGUCHI, Daiki; DAIKO, Yusuke; MINESHIGE, Atsushi; YAZAWA, Tetsuo

**2F4-16\*** Preparation of oriented zeolite compacts in magnetic field (Kumamoto Univ.; National Institute for Materials Science) MATSUNAGA, Chika; UCHIKOSHI, Tetsuo; SUZUKI, Tohru; SAKKA, Yoshio; MATSUDA, Motohide

**2F4-18** Physical properties improvement of Myanmar lacquer sappy addition of organic silicon compound (Meiji Univ.) FUJITA, Daisuke; LU, Rong; MIYAKOSHI, Tetsuo

Asian International Symposium  
-Materials Chemistry-

Monday, March 26, PM

Chair: NISHIHARA, Hiroshi (13:00~14:10)

**2F4-25\* Keynote Lecture** Organometallics for Energy Conversion in Solar Cells and OLEDs (Hong Kong Baptist Univ., P.R. China) WONG, Wai-Yeung (13:00~13:30)

**2F4-28\* Invited Lecture** Self-assembly under nonequilibrium conditions: Emergence of kinetically controlled superstructures of cyanine J-aggregates (Kyushu Univ.; CREST; IRCMS) Morikawa, Masa-aki; Kimuzuka, Nobuo (13:30~13:50)

**2F4-30\* Invited Lecture** Vector control of electron transfer through potential-programmed dendrimers (Tokyo Institute of Technology) IMAOKA, Takane; YAMAMOTO, Kimihisa (13:50~14:10)

Chair: KIMIZUKA, Nobuo (14:10~15:30)

**2F4-32\* Invited Lecture** Proton-induced Cyclization of Donor (D)-Acceptor (A), Arylethynylantraquinone and D-A-D, Bis(arylethynyl)anthraquinone to Form Pyrylium and Dipyrlylium Salts with Unique Properties (Kyoto Univ.) PRABHAKARA RAO, Koya (14:10~14:30)

**2F4-34\* Invited Lecture** Synthesis and Photochemical Behaviors of Platonic Hexahedron Composed of Six Organic Faces with an Inscribed Au Cluster (Univ. of Tsukuba; Kyoto Univ.; CREST; PRESTO) SAKAMOTO,

Masanori; TANAKA, Daisuke; TERANISHI, Toshiharu (14:30~14:50)

**2F4-36\* Invited Lecture** Formulation of novel lipid-based materials via molecular assembly in phospholipid/cholesterol/water system (Tokyo City Univ.) KUROIWA, Takashi; SAITOU, Takatoshi; KANAZAWA, Akihiko (14:50~15:10)

**2F4-38\* Invited Lecture** Electrocatalytic oxidation of ethanol on AuPd alloy nanoparticles prepared by sputter deposition in ionic liquid (Nagoya Univ.) OKAZAKI, Ken-ichi (15:10~15:30)

Chair: TERANISHI, Toshiharu (15:30~16:40)

**2F4-40\* Keynote Lecture** Surface structure control of metal nanocrystals (Xiamen Univ, P.R. China) Huang, Xiaoqing; Wu, Binghui; Tang, Shaoheng; Chen, Guangxu; Dai, Yan; Zheng, Nanfeng (15:30~16:00)

**2F4-43\* Invited Lecture** Nanocoatings and 3D Architectures Prepared via Layer-by-Layer Self-Assembly (Univ. Hyogo; Toyohashi Univ. Technol.; Hiroshima Univ.) Daiko, Yusuke; Yazawa, Tetsuo; Muto, Hiroyuki; Matsuda, Atsunori; Katagiri, Kiyofumi (16:00~16:20)

**2F4-45\* Invited Lecture** Coordination Programming of Photofunctional Molecular Materials (Univ. Tokyo) SAKAMOTO, Ryota (16:20~16:40)

Material Chemistry

Chair: CHIGANE, Masaya (17:00~17:50)

\* 16:50-17:00: interval for laptop PC connection.(2F4-49, 2F4-51, 2F4-53)

**2F4-49\*** Dependence of equilibria of metal-fluoro complexes on fluorine scavenging in the liquid phase deposition reaction (Kobe Univ.) MIZUHATA, Minoru; IKUTA, Hirotaka

**2F4-51\*** Surface modification of porous silica with the liquid phase deposition process using solid materials for fluorine scavenger. (Kobe Univ.) HASEGAWA, Takashi; MATSUMOTO, Satoru; MIZUHATA, Minoru

**2F4-53** Inhibition of inhomogeneous nucleation in the liquid phase deposition (Kobe Univ.) MIZUHATA, Minoru; LI, Chunman

Tuesday, March 27, AM

Chair: NIIDOME, Yosuro (9:00~9:50)

\* 8:50-9:00: interval for laptop PC connection.(3F4-01, 3F4-02, 3F4-03, 3F4-04, 3F4-05)

**3F4-01** Novel structure electrode for electrochemical devices (Panasonic Corporation Advanced Technology Research Laboratories) HIRAYAMA, Tetsuaki; AIZAWA, Masato; GYOTEN, Hisaaki

**3F4-02** Development of Carbon thin film based on fullerene derivatives (Mitsubishi Chemical Corporation) YANO, Tomomi; KASAI, Tetsuo

**3F4-03** Photochemical modification of DLC films with oxygen functionalities and its chemical structure control (Natl. Inst. of AIST) NAKAMURA, Takako; OHANA, Tsuguyori

**3F4-04** Orientation and Morphology of Carbon Nanotubes Prepared under High Magnetic Fields (Faculty of Science Shinshu Univ.) SAKAGUCHI, Ayumi; HAMASAKI, Atom; OZEKI, Sumio

**3F4-05** Effect of electrolyte on intercalation of sodium into graphite-like layered material BC<sub>2</sub>N by electrochemical method (Osaka Electro-Communication Univ.; Kawaguchi Laboratory.) YAMADA, Kaoru; KAWAGUCHI, Masayuki

Chair: NAKAMURA, Takako (10:00~11:00)

\* 9:50-10:00: interval for laptop PC connection.(3F4-07, 3F4-09, 3F4-11)

**3F4-07\*** Supramolecular hybridization of gold nanoparticles and semiconducting single-walled carbon nanotubes via porphyrin-fluorene copolymer (Kyushu Univ.) NAKASHIMA, Naotoshi; OZAWA, Hiroaki; TOSHIMITSU, Fumiyouki; IDE, Natsuko; FUJIGAYA, Tsuyohiko; NIIDOME, Yasuro

**3F4-09\*** Fabrication of Nitrogen-Doped Amorphous Carbon Thin Films by Chemical Vapor Deposition Method (Materials and Structures Laboratory, Tokyo Institute of Technology) INOUE, Yasunori; MORI, Takuma; KITANO, Masaaki; NAKAJIMA, Kiyotaka; HARA, Michikazu

**3F4-11\*** Formation mechanism of one-dimensional exotic-nanocarbons (Tokyo Tech, J-Power) TAKASHIMA, Akito; ONOE, Jun; NISHII, Toshiaki

Chair: HARA, Michikazu (11:10~11:50)

\* 11:00-11:10: interval for laptop PC connection.(3F4-14, 3F4-16)

**3F4-14\*** One-step Liquid-phase Synthesis of Functional Carbon Nanomaterials by Resistance Heating Method (Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.; Tokyo Natl. Col. of Tech.) YAMAGIWA, Kiyofumi; AYATO, Yusuke; SHIROISHI, Hidenobu; KUWANO, Jun

**3F4-16\*** Pore size control of monodispersed starburst carbon spheres (Toyota Central R&D Labs Inc.) TATSUDA, Narihito; YANO, Kazuhisa

Tuesday, March 27, PM

Chair: OYAIZU, Kenichi (14:30~15:30)

\* 14:20-14:30: interval for laptop PC connection.(3F4-34)

**3F4-34** CSJ Award for Creative Works Development and Molecular Mechanism of High Modulus and High Toughness Double-Network Hydrogels (Faculty of Advanced Life Science, Hokkaido Univ.) GONG,

Jian Ping

Chair: SADA, Kazuki (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(3F4-41, 3F4-42, 3F4-43, 3F4-44, 3F4-45, 3F4-46)
- 3F4-41** Preparation of Polymer Nanofibers Using Anodic Porous Alumina (Tokyo Metropolitan Univ., KAST, Mitsubishi Rayon) KOBAYASHI, Kenichi; YANAGISHITA, Takashi; UOZU, Yoshihiro; NISHIO, Kazuyuki; MASUDA, Hideki
- 3F4-42<sup>#</sup>** Temperature effect on characteristics of bio-organic thin film transistor based on DNA gate dielectric (The faculty of engineering, Chiba Univ..) LIANG, Lijuan; MITSUMURA, Yasushi; FUKUSHIMA, Tomoo; NAKAMURA, Kazuki; KOBAYASHI, Norihisa; UEMURA, Sei; KAMATA, Toshihide
- 3F4-43** Polythiophene/Acceptor Composite Layers via Vapor-Phase Polymerization and their Photocurrent Conversion (Dept. Appl. Chem., Waseda Univ.) OKAZAKI, Fumiaki; MINAGAWA, Kaoru; SUGA, Takeo; NISHIDE, Hiroyuki
- 3F4-44** Selective Self-Assembly of TEMPO/Ionic Liquid into Micro-Domains and their Morphological Investigation (Dept. Appl. Chem., Waseda Univ.) AOKI, Kohei; TAKAHASHI, Shusaku; SUGA, Takeo; NISHIDE, Hiroyuki
- 3F4-45** Particle size-controlled synthesis of polymer nanoparticles using tandem acoustic emulsification and its application to structural color material (Tokyo Tech; Yokohama National Univ.) NAKABAYASHI, Koji; KOJIMA, Maya; FUCHIGAMI, Toshio; ATOBE, Mahito
- 3F4-46** Synthesis of Organic-Metallic Hybrid Liquid Crystal Based on Dendrimer Architecture (Tokyo Institute of Technology) AZUMA, Keisuke; IMAOKA, Takane; YAMAMOTO, Kimihisa

Chair: YANAGISHITA, Takashi (16 : 50~17 : 40)

- \* 16:40-16:50: interval for laptop PC connection.(3F4-48, 3F4-49, 3F4-51)
- 3F4-48** Synthesis and Properties of Network Polymers via Internal Cross-linking of Metal-Organic Framework (Graduate School of Sciences and Engineering, Hokkaido Univ.) ISHIWATA, Takumi; FURUKAWA, Yuki; SUGIKAWA, Kota; KOKADO, Kenta; SADA, Kazuki
- 3F4-49\*** Alighment of Lamellar Crystal of Main Chain Liquid Crystal Polyester and Thermal Conductivity (Kaneka Co; Univ. of Tokyo Institute of Technology) YOSHIIHARA, Shusuke; EZAKI, Toshiaki; NAKAMURA, Mitsuru; WATANABE, Junji; MATSUMOTO, Kazuaki
- 3F4-51\*** Composite Structure by Metal-polyiodide,  $I_n^-$ , within Hydrophilic Polymer [V]; Dynamic Amphiphilicity by Polyiodide with Higher Order Structure in Polymer. (Res. React. Inst., Kyoto Univ.) KAWAGUCHI, Akio

Chair: NAKAJIMA, Satoshi (17 : 50~18 : 50)

- \* 17:40-17:50: interval for laptop PC connection.(3F4-54, 3F4-56, 3F4-58)
- 3F4-54\*** Mechanical properties and molecular orientation of deoxyribonucleic acid solid films (Kyushu Univ., DIC Corporation, JASRI) MATSUNO, Hisao; ZHAN, Jie; KOIKE, Jun-ichiro; HORIGOME, Misao; OGAWA, Hiroki; MASUNAGA, Hiroyasu; TANAKA, Keiji
- 3F4-56\*** Photoresponsive Property of Gel Assembly through Molecular Recognition (Graduate School of Science, Osaka Univ.) KOBAYASHI, Yuichiro; KOBAYASHI, Ryosuke; YAMAGUCHI, Hiroyasu; TAKASHIMA, Yoshinori; HASHIDZUME, Akihito; HARADA, Akira
- 3F4-58\*** Preparation of optically transparent chitin nanofiber/acrylic resin composite film (Graduate School of Engineering, Tottori Univ.) IFUKU, Shinsuke; MOROOKA, Shin; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

### Wednesday, March 28, AM

Chair: YONEZAWA, Tetsu (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4F4-01, 4F4-03, 4F4-05)
- 4F4-01\*** Synthesis, Thermal Properties, and Applications of POSS Ionic Liquids (Graduate School of Engineering, Kyoto Univ.) JEON, Jong-hwan; TANAKA, Kazuo; CHUJO, Yoshiki
- 4F4-03\*** Synthesis and Properties of Fullerene Derivatives for Enhancing Open Circuit Voltage of Organic Photovoltaics (Osaka Municipal Tech. Res. Inst.; Ryukoku Univ.) MATSUMOTO, Fukashi; HIRAI, Aya; IWASAWA, Tetsuo; MORIWAKI, Kazuyuki; TAKAO, Yuko; OHNO, Toshinobu
- 4F4-05\*** Solution Processable Heterocycle-containing V-Shape  $\pi$ -Conjugated Semiconductors with High Carrier Mobilities (ISIR, Osaka Univ.) OKAMOTO, Toshihiro; MITSUI, Chikahiko; YAMAGISHI, Masakazu; SOEDA, Junshi; HIROSE, Yuri; NAKAHARA, Katsumasa; SATO, Hiroyasu; YAMANO, Akihito; UEMURA, Takafumi; TAKEYA, Junichi

Chair: TSUTSUMI, Osamu (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4F4-08, 4F4-10, 4F4-12)
- 4F4-08\*** Synthesis of Mesoporous Organosilica containing Ruthenium Tris (bipyridine) complex in the Pore Wall and Construction of Organic-based Heterogeneous Photocatalyst (Toyota Central R&D Labs., Inc., JST-CREST) TAKEDA, Hiroyuki; TANI, Takao; INAGAKI, Shinji
- 4F4-10\*** Fluorescent nanoparticle incorporated resin (Faculty of Engineering, Hokkaido Univ.) YONEZAWA, Tetsu; UDAGAWA, Satoshi
- 4F4-12\*** Fabrication of SERS Active Porous Coordination Polymers Encapsulating Gold Nanorods (Graduate School of Science, Hokkaido Univ.)

SUGIKAWA, Kouta; FURUKAWA, Yuki; ISHIWATA, Takumi; NAGATA, Shunjiro; KOKADO, Kenta; SADA, Kazuki

Chair: INAGAKI, Shinji (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4F4-15, 4F4-17, 4F4-19)
- 4F4-15\*** Withdrawn
- 4F4-17\*** Pd-immobilized Nanoporous Polymers Fabricated through Polymerization-induced Phase Separation: Their Microscopic Structure and Catalytic Activities. (Kawamura Inst. Chem. Res.) OGASAWARA, Shin; KATO, Shinji
- 4F4-19\*** Pd-immobilized Polymer Nanocomposite Coatings: A Repetitively-usable and Highly-active Pd Film Catalyst (Kawamura Inst. Chem. Res.; Toho Univ.) IMAZEKI, Yukie; OGASAWARA, Shin; KATO, Shinji

### Wednesday, March 28, PM

Chair: OKAMOTO, Toshihiro (13 : 30~14 : 40)

- \* 13:20-13:30: interval for laptop PC connection.(4F4-28, 4F4-29, 4F4-30, 4F4-31, 4F4-32, 4F4-33, 4F4-34)
- 4F4-28** Synthesis of adamantane ionic liquids (Graduate School of Engineering, Kyoto Univ.) HIRAOKA, Tatsuhiro; TANAKA, Kazuo; CHUJO, Yoshiki
- 4F4-29** Aggregation behavior of zwitterionic porphyrins in solution or on clay surfaces (Tokyo Metropolitan Univ.) EYAMA, Takaaki; YOGO, Yuko; SHIMADA, Tetsuya; MASUI, Dai; TACHIBANA, Hiroshi; INOUE, Haruo; TAKAGI, Shinsuke
- 4F4-30** Charge transport properties of triphenylamine derivatives thin film. (Faculty of Engineering, Chiba Univ.) MAKI, Kota; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 4F4-31** Development of Two-Dimensional Ion Conductors through Self-Assembly of Ionic Liquids (The Univ. of Tokyo; Tokyo Univ. of Agriculture and Technology) SAKUDA, Junji; YOSHIO, Masafumi; ICHIKAWA, Takahiro; TAGUCHI, Satomi; OHNO, Hiroyuki; KATO, Takashi
- 4F4-32** Preparation of composite material based on gold nanoparticles and ionic liquid (Graduate School of Materials Science, Nara Institute of Science and Technology) HAYAKAWA, Yu; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 4F4-33** Construction of Network Polymer by Internally Cross-linking Reaction of Metal-Organic Framework based on Cyclodextrins (Graduate School of Science, Hokkaido Univ.) FURUKAWA, Yuki; ISHIWATA, Takumi; SUGIKAWA, Kouta; KOKADO, Kenta; SADA, Kazuki
- 4F4-34\*** Synthesis of Diels-Alder Adducts of Pentacene (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Education.) SONG, Zhiyi; JIA, Zhiying; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

Chair: MIZUHATA, Minoru (14 : 50~15 : 30)

- \* 14:40-14:50: interval for laptop PC connection.(4F4-36, 4F4-37, 4F4-38, 4F4-39)
- 4F4-36** Strong X-ray diffraction of a mesoporous silica film pretreated with chlorotrimethylsilane (Frontier Research Center, Canon Inc.) KUBO, Wataru; TAKAHASHI, Masahiko; KOMOTO, Atsushi; OKAMOTO, Kohei; MIYATA, Hirokatsu
- 4F4-37** Preparation of mesostructured silica films by extremely slow withdrawal speed dip-coating process (Frontier Research Center, CANON INC.) TAKAHASHI, Masahiko; KUBO, Wataru; KOMOTO, Atsushi; OKAMOTO, Kohei; MIYATA, Hirokatsu
- 4F4-38** Influence of Hot-wall temperature on the chemical and optical properties of  $Cu_2ZnSnS_4$  Thin Film Prepared by RF Sputtering (Kanazawa Institute of Technology) ICHIKAWA, Yusuke; SAKAGAMI, Takuya; KUNISHITA, Hiroki; SAKAMOTO, Mune-aki; KUSANO, Eiji
- 4F4-39** Electrodeposition of titanium dioxide thin films from aqueous solution of titanium-lactic acid complex for dye-sensitized solar cells (Osaka Mun. Tech. Res. Inst.) CHIGANE, Masaya; SHINAGAWA, Tsutomu

Chair: MIYATA, Hirokatsu (15 : 40~16 : 20)

- \* 15:30-15:40: interval for laptop PC connection.(4F4-41, 4F4-43)
- 4F4-41\*** Fabrication of a free-standing urushi films and their adhesion behavior onto versatile substrates. (JST, ERATO Takahara Soft Interfaces Project) WATANABE, Hirohmi; FUJIMOTO, Aya; TAKAHARA, Atsushi
- 4F4-43\*** Thin film formation and Application of New Layered Compounds Based on  $MnO_2$  (Yamaguchi Univ.) NAKAYAMA, Masaharu; SHAMOTO, Mitsuhiro; MITO, Shunsuke; TOMONO, Kazuaki

## Room F5

4th Bldg. Independence Wing D407

## Catalysts and Catalysis

Sunday, March 25, AM

## organic synthesis • polymerization

Chair: MIZUGAKI, Tomoo (9:00 ~ 10:00)

\* 8:50-9:00: interval for laptop PC connection.(1F5-01, 1F5-02, 1F5-03, 1F5-04, 1F5-05)

**1F5-01** Aerobic alcohol oxidation in a flow system with nanoporous gold catalyst (Graduate School of Science, Tohoku Univ.; WPI-Advanced Institute for Materials Research, Tohoku Univ.; Institute for Materials Research, Tohoku Univ.) HATAKEYAMA, Naoya; ASAO, Naoki; YAMAMOTO, Yoshinori; CHEN, Mingwei; ZHANG, Wei; INOUE, Akihisa

**1F5-02** Nickel catalyzed C-O bond formation between primary alcohol and aryl iodide (Graduate School of Engineering, Kyoto Univ.) HIROTA, Jyunichi; ASAKURA, Hiroyuki; TERAMURA, Kentaro; TANAKA, Tsunehiro

**1F5-03** Nanoporous Gold-Catalyzed Silylation of Alcohols (Graduate School of Science, Tohoku Univ.; WPI Advanced Institute for Materials Research, Tohoku Univ.; Institute for Materials Research, Tohoku Univ.) ISHIKAWA, Yoshifumi; ASAO, Naoki; YAMAMOTO, Yoshinori; CHEN, Mingwei; ZHANG, Wei; INOUE, Akihisa

**1F5-04** Catalytic Bromination of Aromatic Compounds by Metal-Zeolite Composite (Okayama Univ.) TAKAMI, Keishi; NISHINA, Yuta

**1F5-05\*** Development of the catalysts for bromination of hydrocarbons (Okayama Univ.) NISHINA, Yuta

Chair: NISHINA, Yuta (10:10 ~ 11:10)

\* 10:00-10:10: interval for laptop PC connection.(1F5-08, 1F5-09, 1F5-10, 1F5-11, 1F5-12, 1F5-13)

**1F5-08** Development of a Silica-Supported Vanadium Catalyst for 1,3-Isomerization of Allylic Alcohols (Osaka Univ.) SUEOKA, Shoichiro; MATSUNO, Tsuyoshi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

**1F5-09** Catalytic addition of aromatic C-H bonds to alkenes by the utilization of Ru/CeO<sub>2</sub> (Kyoto Univ.) NAGAO, Masahiro; MIURA, Hiroki; WADA, Kenji; HOSOKAWA, Saburo; INOUE, Masashi

**1F5-10** Michael reaction of nitroalkanes and conjugated enones using polyamine dendrimer catalysts (Osaka Univ.) MAENO, Zen; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

**1F5-11** Heck reaction assisted with PdO nanoparticles stabilized on a linear polystyrene in water (Osaka Institute of Technology) OHTAKA, Atsushi; YAMAGUCHI, Tomohiro; TERATANI, Takuto; SHIMOMURA, Osamu; NOMURA, Ryoki

**1F5-12** Cooperative catalysis of Pd complex and amine on silica surface for Heck reaction (Tokyo Institute of Technology) NODA, Hiroto; MOTOKURA, Ken; MIYAJI, Akimitsu; BABA, Toshihide

**1F5-13** [Rh(OH)(cod)]<sub>2</sub> as a Rh-Hydride Precursor for Catalytic Olefin Isomerization and Cyclobutene Synthesis (Tokyo Institute of Technology) MOTOKURA, Ken; NAKAYAMA, Kohei; MIYAJI, Akimitsu; BABA, Toshihide

Chair: MOTOKURA, Ken (11:20 ~ 12:00)

\* 11:10-11:20: interval for laptop PC connection.(1F5-15, 1F5-16, 1F5-17)

**1F5-15** Synthesis of various biologically active heterocyclic compounds using recyclable silica supported Ruthenium complex (Univ. of Tokyo) MURUGULLA, Adharvana Chari; D., Shobha; ZAZYBIN, Alexey; SASAKI, Takehiko

**1F5-16** Syntheses of 1,2-disilyl ethenes from vinylsilanes with the aid of the Rh catalyst supported on solid oxides (Kyoto Univ.) TSUKADA, Shinji; MIURA, Hiroki; WADA, Kenji; HOSOKAWA, Saburo; INOUE, Masashi

**1F5-17\*** Hydrotalcite-supported Gold Nanoparticle Catalyst for Highly Chemoselective Reduction of Epoxides to Alkenes (Osaka Univ.) NOUJIMA, Akifumi; YAMAMOTO, Isao; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

## Sunday, March 25, PM

Chair: WADA, Kenji (13:10 ~ 14:10)

\* 13:00-13:10: interval for laptop PC connection.(1F5-26, 1F5-27, 1F5-28, 1F5-29, 1F5-30, 1F5-31)

**1F5-26** Preparation of chiral modifiers for enantioselective hydrogenation on Pd/C catalyst (Univ. of Hyogo) NAKATSUJI, Makoto; MAMEDA, Takuya; SANO, Yoshie; MISAKI, Tomonori; SUGIMURA, Takashi

**1F5-27** Acetalization of Benzaldehyde by Pd-Ag Catalyst (Osaka Prefecture University) NITTA, Ryoichi; SATO, Masaaki

**1F5-28** Effective Esterification by Microwave Heating in the Presence of Molecular Sieves (Osaka Prefecture Univ.) KUME, Hiroyuki; SATO, Masaaki

## complexes/clusters

**1F5-29\*** A DFT study of mechanism for the aerobic oxidation of methanol on Au clusters (Institute for Molecular Science, The Graduate Univ. for Advanced Studies) SANGITA, Karanjit; SAKURAI, Hidehiro; BOBUATONG, Karan; FUKUDA, Ryoichi; EHARA, Masahiro

**1F5-30** The Effect of The Kinds of Organic Linkers on The Catalytic Activities of Zr-Containing MOF Anchored with Metal Carbonyl Complexes (Graduate School of Engineering, Osaka Prefecture Univ.; Graduate school of Engineering, Osaka Univ.) SAITO, Masakazu; UEDA, Kozou; HORIUCHI, Yu; KAMEGAWA, Takashi; MATSUOKA, Masaya

**1F5-31** Photocatalytic water oxidation with composite cobalt oxides containing La<sup>3+</sup>, Sr<sup>2+</sup> and W<sup>6+</sup> (Osaka Univ.; ALCA, JST) YANO, Kentaro; YAMADA, Yusuke; FUKUZUMI, Shunichi

Chair: KAMEGAWA, Takashi (14:20 ~ 15:20)

\* 14:10-14:20: interval for laptop PC connection.(1F5-33, 1F5-35, 1F5-36, 1F5-37, 1F5-38)

**1F5-33\*** Pd/Au Bimetallic Cluster Catalyst with Crown Jewel Structure: Proposal of New Concept for Catalyst Design (Tokyo Univ. of Science Yamaguchi, Osaka Univ., Metro. Univ.) TOSHIMA, Naoki; ZHANG, Haijun; WATANABE, Tatsuya; OKUMURA, Mitsutaka; HARUTA, Masatake

**1F5-35** Photocatalytic hydrogen evolution with Ni nanoparticles using 2-phenyl-4-(1-naphthyl)quinolinium ion as a photocatalyst (Osaka Univ.; ALCA, JST) MIYAHIGASHI, Takamitsu; YAMADA, Yusuke; KOTANI, Hiroaki; OHKUBO, Kei; FUKUZUMI, Shunichi

**1F5-36** Photocatalytic hydrogen evolution with metal nanoparticles using formic acid or oxalic acid as an electron donor and 2-phenyl-4-(1-naphthyl)quinolinium ion as a photocatalyst (Osaka Univ.; ALCA, JST) MIYAHIGASHI, Takamitsu; YAMADA, Yusuke; KOTANI, Hiroaki; OHKUBO, Kei; FUKUZUMI, Shunichi

## zeolite

**1F5-37** Adsorption process of CO<sub>2</sub> on silicalite-1 by X-ray single crystal structural analysis: effect of coexisting water vapor (National Defense Academy) FUJIYAMA, Shinjiro; KAMIYA, Natsumi; NISHI, Koji; YOKOMORI, Yoshinobu

**1F5-38** Synthesis of 14-membered ring aluminosilicate zeolites and their applications as solid acid catalysts (Chemical Resources Laboratory, Tokyo Institute of Technology) LIU, Ming; YOKOI, Toshiyuki; IMAI, Hiroyuki; TATSUMI, Takashi

Chair: ISHITANI, Haruro (15:30 ~ 16:30)

\* 15:20-15:30: interval for laptop PC connection.(1F5-40, 1F5-42, 1F5-43, 1F5-44, 1F5-45)

**1F5-40\*** Control of acid properties of Beta zeolites by post-treatments and their catalytic performances (Chemical Resources Laboratory, Tokyo Institute of Technology) OTOMO, Ryoichi; YOKOI, Toshiyuki; IMAI, Hiroyuki; NOMURA, Junko; TATSUMI, Takashi

**1F5-42** Evaluation of acid stability of CHA-type zeolite synthesized by interzeolite conversion of FAU-type zeolite (Hiroshima Univ.) YAMANAKA, Naoki; ITAKURA, Masaya; KIZOZUMI, Yoshimichi; IDE, Yusuke; SADAKANE, Masahiro; SANO, Tsuneji

**1F5-43** Effect of Si and Al source on the synthesis of CHA type zeolite (Tokyo Institute of Technology; Chemical Resources Laboratory) HAYASHIDA, Nozomu; IMAI, Hiroyuki; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Takashi

**1F5-44** Effect of acidity on MTO reaction over CHA type zeolite (Tokyo Institute of Technology; Chemical Resources Laboratory) HORAGUCHI, Keiji; IMAI, Hiroyuki; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Takashi

## mesoporous materials

**1F5-45** Synthesis and Catalytic Activity of SBA-15 Functionalized by Alkyl Sulfo Group (Teikyo Univ. of Science & Technology) TOBARI, Yuji; KUGITA, Tuyoisi

Chair: YOKOI, Toshiyuki (16:40 ~ 17:40)

\* 16:30-16:40: interval for laptop PC connection.(1F5-47, 1F5-49, 1F5-51, 1F5-52)

**1F5-47\*** Novel Catalytic System by Incorporating Metal Complexes into Bipyridine-bridged Periodic Mesoporous Organosilica (Toyota Central R&D Labs., Inc.; JST/CREST) WAKI, Minoru; MIZOSHITA, Norihiro; OHASHI, Masataka; TANI, Takao; INAGAKI, Shinji

**1F5-49\*** Enantioselective catalysis with chiral PMO materials, and selective application of the mesoporous host (Dept of Chem, Queen's Univ.) SEKI, Tomohiro; MCELENEY, Kevin; WEBB, Jonathan D.; CRUDDEN, Cathleen M.

- 1F5-51** Synthesis of  $\beta$ -Silyloxy Cyclopropane Carboxylates through Enantioselective Cyclopropanation on Cu-MCM-41 Catalyst (Chemical Resources Laboratory, Tokyo Institute of Technology) KATO, Hiroki; ISHITANI, Haruro; IWAMOTO, Masakazu
- 1F5-52** Carbonyl Ene Reaction on Mesoporous Silica MCM-41s Prepared from Highly Siliceous Starting Material (Chemical Resources Laboratory, Tokyo Institute of Technology) SUGIUCHI, Takumi; ISHITANI, Haruro; IWAMOTO, Masakazu

Chair: KUGITA, Tsuyoshi (17:50~18:20)

- \* 17:40-17:50: interval for laptop PC connection.(1F5-54, 1F5-55, 1F5-56)
- 1F5-54** Catalytic performances of single-site Ti-containing porous silica with higher order structure in the liquid phase selective oxidation reactions (Osaka Univ.) KAMEGAWA, Takashi; SUZUKI, Norihiko; YAMASHITA, Hiromi
- 1F5-55** Preparation of mesoporous SnO<sub>2</sub> by templating methods and its catalytic application (Tokyo Institute of Technology; Chemical Resources Laboratory) TAGUCHI, Jungo; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Takashi
- 1F5-56** Investigation of the state of chromium species on mesoporous Cr-Ti mixed oxides prepared by wall ion exchange method (Chemical Resources Laboratory, Tokyo Institute of Technology) SUH, Inshuk; TANAKA, Masashi; IWAMOTO, Masakazu

## Monday, March 26, AM

### acid · base

Chair: KITANO, Masaaki (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2F5-01, 2F5-02, 2F5-03, 2F5-04)
- 2F5-01** Structure and acid property of the monolayer of niobium oxide over alumina (Graduate School of Engineering, Kyoto Univ.) KITANO, Tomoyuki; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 2F5-02** Structure and acid property of the monolayer of molybdenum and tungsten oxides over alumina (Graduate School of Engineering, Kyoto Univ.) OKAZAKI, Shota; KITANO, Tomoyuki; HAYASHI, Tomohiro; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 2F5-03** Promotion effect of H<sub>2</sub> on n-heptane isomerization over Pt/Mo/H-BEA catalysts (Saitama Institute of Technology; Hokkaido Univ. of Education) KURAMOCHI, Kenta; BABA, Ken-ichi; NAIJO, Nobuaki; ARITANI, Hirofumi; MATSUHASHI, Hiromi
- 2F5-04** Young Scholar Lectures of CSJ Biomass conversion technique using liquid water (CCS, AIST) YAMAGUCHI, Aritomo

Chair: NOMURA, Junko (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(2F5-08, 2F5-10, 2F5-11, 2F5-13)
- 2F5-08\*** Solid Acid Catalysis of Niobium doped titanate nanotubes (Materials and Structures Laboratory, Tokyo Institute of Technology) KITANO, Masaaki; NAKAJIMA, Kiyotaka; HAYASHI, Shigenobu; HARA, Michikazu
- 2F5-10** Direct Synthesis of Unsymmetrical Ethers from Alcohols Catalyzed by Ti<sup>4+</sup>-exchanged Montmorillonite (Osaka Univ.) MATSUNO, Tsuyoshi; IKEDA, Satoshi; SUEOKA, Shoichiro; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 2F5-11\*** Lewis acid properties of early transition metal-oxides in water (Materials and Structures Lab., Tokyo Inst. of Tech.) KOITO, Yusuke; NAKAJIMA, Kiyotaka; KITANO, Masaaki; HAYASHI, Shigenobu; HARA, Michikazu
- 2F5-13** Furfural production from xylose aqueous solution over titanium oxide (Materials and Structures Laboratory, Tokyo Institute of Technology.) NOMA, Ryohei; NAKAJIMA, Kiyotaka; KITANO, Masaaki; HAYASHI, Shigenobu; HARA, Michikazu

Chair: SHISHIDO, Tetsuya (11:20~12:00)

- \* 11:10-11:20: interval for laptop PC connection.(2F5-15, 2F5-17, 2F5-19, 2F5-20, 2F5-21, 2F5-22)
- 2F5-15\*** Selective production of Lactic acid from triose aqueous solution over titania (Materials and Structures Laboratory, Tokyo Institute of Technology.) NAKAJIMA, Kiyotaka; KITANO, Masaaki; HAYASHI, Shigenobu; HARA, Michikazu
- 2F5-17\*** Structural Characteristics and Acid Catalysis for SO<sub>3</sub>H-Bearing Microporous carbon (Materials and Structures Laboratory, Tokyo Institute of Technology) FUKUHARA, Kiichi; KITANO, Masaaki; NAKAJIMA, Kiyotaka; HAYASHI, Shigenobu; HARA, Michikazu

Chair: NAKAJIMA, Kiyotaka (12:00~12:40)

- 2F5-19** Synthesis of 5-hydroxymethylfurfural from fructose by a sulfonated clay catalyst. (Chiba Univ.) ISHIZAKI, Satoshi; MATSUMARU, Teruhisa; HARA, Takayoshi; ICHIKUNI, Nobuyuki; SHIMAZU, Shougo
- 2F5-20** Preparation of Graphene Oxide catalyst the Bromination Activity (Tokyo Univ. of Agriculture and Technology, Nagai Lab) ISOE, Ryosuke; NAGAI, Masatoshi
- 2F5-21** Acid catalytic property of nanoporous W-Zr mixed oxides synthesized through wall-ion exchange (Chemical Resources Laboratory, Tokyo Institute

of Technology) KABEYA, Kohei; HORI, Shunsuke; TANAKA, Masashi; ISHITANI, Haruro; IWAMOTO, Masakazu

- 2F5-22** Preparation of metal substituted Preyssler-type phosphotungstic acid and their thermal stability and activity as acid catalysts. (Hiroshima Univ.) TAKAHASHI, Keita; ICHI, Yutarou; SAHIRO, Koichi; IDE, Yusuke; SADAKANE, Masahiro; SANO, Tsuneji

## Tuesday, March 27, AM

### Environmental

Chair: TANAKA, Masashi (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3F5-01, 3F5-02, 3F5-03, 3F5-04, 3F5-05, 3F5-06)
- 3F5-01** Microwave effects on alcohol oxidations using CrO<sub>2</sub> and MnO<sub>2</sub> (Tokyo Institute of Technology; Graduate School of Science and Engineering) MATSUI, Hiroki; MOCHIZUKI, Dai; MAITANI, Masato; WADA, Yuji
- 3F5-02** Synthesis of core-shell magnetic zeolite and its application for the microwave-enhanced reaction (Tokyo Institute of Technology; Department of Science and engineering, Applied Chemistry) TSUBOIKE, Sachio; MAITANI, Masato; MOCHIDUKI, Dai; WADA, Yuji
- 3F5-03** Enhancement in redox reactions on metal particles by microwave irradiation (Tokyo Institute of Technology; Graduate School of Science and Engineering) IMAI, Takashi; MATSUI, Hiroki; MOCHIZUKI, Dai; MAITANI, Masato; WADA, Yuji
- 3F5-04** Hydrogenation of nitrate in Pd-Cu catalyst and Pd catalyst suspension (Tokai Univ.) IJIMA, Akihiro; IHA, Wakana; ISHIHARA, Yoshimi; MIKAMI, Ikko
- 3F5-05** Comparison of photocatalytic performance of Pt/TiO<sub>2</sub>-Sn-Pd/Al<sub>2</sub>O<sub>3</sub> reaction system with Sn-Pd/TiO<sub>2</sub> catalyst in photocatalytic reduction of nitrate in water (Graduate School of Environmental Science, Hokkaido Univ. Catalysis Research Center, Hokkaido Univ. Research Faculty of Environmental Earth Science, Hokkaido Univ.) HIRAYAMA, Jun; ABE, Ryu; KAMIYA, Yuichi
- 3F5-06** Selective oxidative decomposition of ammonia with ozone in water over oxide catalysts (Graduate School of Environmental Science Research Faculty of Environmental Earth Science, Hokkaido Univ.) ICHIKAWA, Sho-ichi; KAMIYA, Yuichi

Chair: MOCHIZUKI, Dai (10:10~11:00)

- \* 10:00-10:10: interval for laptop PC connection.(3F5-08, 3F5-09, 3F5-10, 3F5-11, 3F5-12)
- 3F5-08** Catalytic dechlorination of harmful organic chlorides with a new type of palladium catalyst (Natl Inst Adv Ind Sci & Technol (AIST)) UKISU, Yuji
- 3F5-09** Effect of Nb-addition on catalytic activity of Pt/MCM-41 for selective catalytic reduction of NO (Chemical Resources Laboratory, Tokyo Institute of Technology) KOMATSUBARA, Masaru; KOGA, Akiko; TANAKA, Masashi; IWAMOTO, Masakazu
- 3F5-10** Evaluation and preparation of Y-added CeO<sub>2</sub>-ZrO<sub>2</sub> catalysts (Toyoashi Univ. of Technology) TOMITA, Jiro; SHIBATA, Mari; OHKITA, Hironobu; MIZUSHIMA, Takanori; KAKUTA, Noriyoshi
- 3F5-11** PM combustion characteristic of Fe/CeO<sub>2</sub> catalyst. (Faculty of Textile Science and Technology, Shinshu Univ.) YASHIMA, Takashi; OKINO, Fujio
- 3F5-12** Development of the CeO<sub>2</sub> based catalysts that convert carbon dioxide into dimethyl carbonate under mild conditions (Chiba Univ.) WATANABE, Kentaro; WADA, Seiki; OKA, Kazuki; AHMED, Naveed; OGURA, Yuta; MORIKAWA, Motoharu; YOSHIDA, Yuusuke; IZUMI, Yasuo

### hydrogenation

Chair: MIZUGAKI, Tomoo (11:10~12:00)

- \* 11:00-11:10: interval for laptop PC connection.(3F5-14, 3F5-15, 3F5-16, 3F5-18)
- 3F5-14** Palladium-based Nanoparticle-Catalyzed Hydrolytic Dehydrogenation of Ammonia Borane for Chemical Hydrogen Storage Derivatives(2) a Molecular Dynamics Examination (Toyama N.C.T.) TSUMORI, Nobuko; SAKAGAMI, Mayu; XU, Qiang
- 3F5-15** Au/Co/Fe Triple-Layered Core-Shell Nanoparticles as Highly Efficient Catalysts for the Hydrolytic Dehydrogenation of Ammonia Borane (Kobe Univ.; AIST) ARANISHI, Kengo; XU, Qiang
- 3F5-16\*\*** Noble-Metal-Free Bimetallic Nanoparticle-Catalyzed Selective Hydrogen Generation from Hydrous Hydrazine (AIST; Kobe Univ.) SINGH, Ashish Kumar; XU, Qiang
- 3F5-18\*** Highly active catalysts based on supported metal nanoparticles for decomposition of formic acid (AIST; Kobe Univ.) YADAV, Mahendra; XU, Qiang

## Tuesday, March 27, PM

Chair: NAKAGAWA, Yoshinao (13:10~14:10)

- \* 13:00-13:10: interval for laptop PC connection.(3F5-26, 3F5-27, 3F5-28, 3F5-30, 3F5-31)
- 3F5-26** Chemoselective Reduction of Nitro Compounds Using Ag@CeO<sub>2</sub>

## Room F6

4th Bldg. Independence Wing D408

## Coordination Chemistry, Organometallic Chemistry

Tuesday, March 27, AM

Chair: ISHIKAWA, Naoto (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(3F6-01, 3F6-02, 3F6-03, 3F6-05, 3F6-06)

**3F6-01** Luminescence of europium complex with ruthenocene (Graduate school of engineering Hokkaido Univ.) SATO, Nao; HUSHIMI, Koji; NAKANISHI, Takayuki; HASEGAWA, Yasuchika**3F6-02** Circularly Polarized Luminescence of Chiral Eu Complexes Containing Bipyridyl ligand (Graduate School of Materials Science, Nara Institute of Science and Technology) UENO, Hiroshi; YUASA, Junpei; Hasegawa, Yasuchika; KAWAI, Tsuyoshi**3F6-03\*** Syntheses and emission properties of the gyroidal lanthanide complexes which keep the coordination structure in solution (Aoyama Gakuin Univ.) TAKAHASHI, Isao; KODAMA, Daisuke; OHTSU, Hideki; HASEGAWA, Miki**3F6-05** Luminescence Spectra of a Gyroidal Eu Complex bridged with 2,2-dimethyl-1,3-propanediamine (College of Science and Engineering, Aoyama Gakuin Univ.) SAKURAI, Shoya; KODAMA, Daisuke; TAKAHASHI, Isao; HASEGAWA, Miki**3F6-06** Emission spectral change of the gyroidal Eu complex by addition of various anions in solutions (College of Science and Engineering, Aoyama Gakuin Univ.) SHIMIZU, Tomohito; TAKAHASHI, Isao; HASEGAWA, Miki

Chair: MASAOKA, Shigeyuki (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(3F6-08, 3F6-09, 3F6-11, 3F6-12, 3F6-13)

**3F6-08** electron spectrum of LB film with a Eu complex aimed at orientational control (College of Science and Engineering, Aoyama Gakuin Univ.) TSUCHIYAGAITO, Junko; FUKAWA, Tomonori; TAKAHASHI, Hiromi; TAKAHASHI, Isao; HASEGAWA, Miki**3F6-09\*** Proton-induced Switching of the Single Molecule Magnetic Properties of a Porphyrin Based Tb(III) Double-decker Complexes (Graduate School of Science, Osaka Univ.) TANAKA, Daisuke; INOSE, Tomoko; OHTA, Yusuke; TANAKA, Hirohumi; SAKAUE, Shohei; ISHIKAWA, Naoto; OGAWA, Takuji**3F6-11** STM observation of protonated and deprotonated porphyrin double-decker single molecular magnets on HOPG (Graduate School of Science, Osaka Univ.) INOSE, Tomoko; TANAKA, Daisuke; OHTA, Yusuke; TANAKA, Hirofumi; IVASENKO, Oleksandr; De Feyter, Steven; ISHIKAWA, Naoto; OGAWA, Takuji**3F6-12** Development of Single-Molecule Magnets from Lanthanide-Nitroxide Radical Complexes (Univ. of Electro-Communications; IMR, Tohoku Univ.) MURAKAMI, Rina; OKAZAWA, Atsushi; YOSHII, Shunsuke; NOJRI, Hiroyuki; ISHIDA, Takayuki**3F6-13** Synthesis and magneto-optical properties of Tb(III) clusters. (Graduate School of Engineering, Hokkaido Univ.) SUZUKI, Yuki; DOI, Yoshihiro; HINATSU, Yukio; ITO, Hajime; NAKANISHI, Takayuki; FUSHIMI, Kouji; HASEGAWA, Yasuchika

Chair: HASEGAWA, Miki (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(3F6-15, 3F6-16, 3F6-17, 3F6-19)

**3F6-15** Luminescent property and Single-Molecule-Magnet behavior of linear Zn(II)-Tb(III)-Zn(II) trinuclear complexes (Nara Women's Univ. ; Osaka Univ. ; Hokkaido Univ.; IMR, Tohoku Univ.) YAMASHITA, Kei; MIYAZAKI, Rie; KATAOKA, Yumiko; KAJIWARA, Takashi; NAKANISHI, Takayuki; HASEGAWA, Yasuchika; NAKANO, Motohiro; YAMAMURA, Tomoo**3F6-16** Anion-Responsive Luminescent Zn(II)-Tb(III)-Zn(II) trinuclear complexes (Nara Women's Univ. ; Hokkaido Univ.) KUSUNOKI, Naoko; KUWATANI, Marina; YAMASHITA, Kei; KATAOKA, Yumiko; NAKANISHI, Takayuki; HASEGAWA, Yasuchika; KAJIWARA, Takashi**3F6-17\*** Effect of Cerium(IV) ion on Oxygen Evolution from Water Catalyzed by a Mononuclear Aquaruthenium Complex bearing Sulfo Groups (IMS; Kyushu Univ.; JST PRESTO) YOSHIDA, Masaki; TORII, Sena; KONDO, Mio; SAKAI, Ken; MASAOKA, Shigeyuki**3F6-19\*** Analysis of Reaction mechanism on the photo excited state in Yb hexaaqua coordination complex (Dept. Chem., Hiroshima Univ. / JST) IWAKURA, Izumi; KOMORI-ORISAKU, Keiko; KOIDE, Yoshihiro

Core-Shell Nanocomposite Catalyst (Osaka Univ.) MATOBA, Motoshi; MIKAMI, Yusuke; FUKUDA, Kotaro; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITUKAWA, Koichiro; KANEDA, Kiyotomi

**3F5-27** Selective Hydrogenolysis of Glycerol to 1,3-Propanediol Using Pt/WO<sub>3</sub> Catalysts (Osaka Univ.) YAMAKAWA, Takayuki; RACHA, Arundhathi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi**3F5-28\*** Preparation of alloy Au-Ni catalysts from Au nanoparticles supported on NiO and the hydrogenolysis of benzylic alcohols. (Kyushu Univ.) NISHIKAWA, Hiroaki; KAWAMOTO, Daisuke; AKITA, Tomoki; HAMASAKI, Akiyuki; OOHASI, Hironori; HONMA, Tetsuo; ISHIDA, Tamao; OKAUE, Yoshihiro; YOKOYAMA, Takushi; TOKUNAGA, Makoto**3F5-30** Development of Surface-modified Pd/SiO<sub>2</sub> Catalyst for Semihydrogenation of Alkynes (Osaka Univ.) TAKAHASHI, Yusuke; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi**3F5-31** Preparation of bimetal nanoparticle catalysts using single-site photocatalyst (Osaka Univ.) FUKU, Kojiro; SAKANO, Toru; KAMEGAWA, Takashi; MORI, Kohsuke; YAMASHITA, Hiromi

Chair: MORI, Kohsuke (14:20~15:20)

\* 14:10-14:20: interval for laptop PC connection.(3F5-33, 3F5-35, 3F5-36, 3F5-37, 3F5-38)

**3F5-33\*** Reaction mechanism of the glycerol hydrogenolysis over Ir-ReO<sub>x</sub>/SiO<sub>2</sub> catalyst and application to erythrytol (School of Engineering, Tohoku Univ.) AMADA, Yasushi; NEI, Genkaku; CHEN, Kaiyou; KAJIKAWA, Yasuteru; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi**3F5-35** Oxidative dehydrogenation of 1-butene with lattice oxygen of V-Mg-Al complex oxide (Department of Chemical, Energy and Environment Engineering, Kansai Univ.) OHNISHI, Syo; IKENAGA, Naoki**3F5-36#** Highly Dispersed Metal Nanoparticles Immobilized Inside MOFs as High-Performance Catalysts for Dehydrogenation of Ammonia Borane (AIST; Kobe Univ.) AIJAZ, Arshad; SHIOYAMA, Hiroshi; XU, Qiang**3F5-37** Performance of ReO<sub>x</sub>-modified Ir catalyst in the hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol (Tohoku Univ.) MORI, Kazuma; CHEN, Kaiyou; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi

## hydrogenolysis

**3F5-38** Ethanol reforming using perovskite oxides as catalyst support (Okayama Univ.) TANAKA, Motoharu; NISHIMOTO, Shunsuke; KAMESHIMA, Yoshikazu; MIYAKE, Michihiro

Chair: IKENAGA, Naoki (15:30~16:30)

\* 15:20-15:30: interval for laptop PC connection.(3F5-40, 3F5-42, 3F5-43, 3F5-45)

**3F5-40\*** Promoting effect of Fe addition to Ni/Mg/Al catalysts in the steam reforming of biomass-derived tar and the model compounds (School of Engineering, Tohoku Univ.) KOIKE, Mitsuru; LI, Dalin; WATANABE, Hideo; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi**3F5-42** Effect of Reductant on Reaction Rate and Ammonia Production in Nitrate Reduction with Palladium-Copper Catalyst (JAEA) KADOWAKI, Haruhiko; MEGURO, Yoshihiro**3F5-43\*** Effect of Support on Formation of Active Sites and Hydrodesulfurization Activities of Rhodium Phosphide Catalysts (Muran Inst. of Tech.) KANDA, Yasuharu; NAKATA, Keisuke; TEMMA, Chisato; SUGIOKA, Masatoshi; UEMICHI, Yoshio**3F5-45** Relation between hydrodesulfurization activities and surface properties on ZSM-5 zeolite-supported rhodium phosphide catalysts (Muran Institute of Technology) SAWADA, Ayaka; KANDA, Yasuharu; SUGIOKA, Masatoshi; UEMICHI, Yoshio

Chair: KANDA, Yasuharu (16:40~17:20)

\* 16:30-16:40: interval for laptop PC connection.(3F5-47, 3F5-48, 3F5-49, 3F5-50)

**3F5-47** Preparation and catalytic cracking property of Beta and Y zeolite-containing silica-aluminas (Mie Univ.) ISHIHARA, Atsushi; INUI, Kentarou; HASHIMOTO, Tadanori; NASU, Hiroyuki**3F5-48** Poisoning Effect of Sulfur Compound on Hydrodenitrogenation over Sulfided NiMoP/Al<sub>2</sub>O<sub>3</sub> Catalyst (Tokyo Univ. of Agriculture and Technology) SUGAI, Hiroki; NAGAI, Masatoshi**3F5-49** Steam reforming of toluene over Co-Fe/Al<sub>2</sub>O<sub>3</sub> catalysts (Tohoku Univ.) ARAGAKI, Kusuke; HISADA, Yuji; WANG, Lei; LI, Dalin; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi**3F5-50#** Steam reforming of methane on Ni/NaCeTi<sub>2</sub>O<sub>6</sub> (IMS) ZHANG, Shenghong; ISHIGURO, Nozomu; MURATSUGU, Satoshi; TADA, Mizuki

Tuesday, March 27, PM

Chair: ITO, Hajime (16 : 10~17 : 20)

- \* 16:00-16:10: interval for laptop PC connection.(3F6-44, 3F6-45, 3F6-46, 3F6-47, 3F6-48, 3F6-49)
- 3F6-44** Sulfur-Bridged Polynuclear Structures Constructed from a Mixture of D- and L-Penicillaminato Digold(I) Complexes and Cobalt(III) Ions (Osaka Univ.) LEE, Raeeun; IGASHIRA, Asako; KONNO, Takumi
- 3F6-45** Linkage of a Mixture of D-Penicillaminato Monogold(I) and Digold(I) Complexes with Cobalt(III) Ions (Osaka Univ.) HASHIMOTO, Yuji; LEE, Raeeun; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi
- 3F6-46** Functional Properties of Gold(I) Complexes Composed of Pyridine-dicarboxamide Scaffolds (Osaka Univ.) GROSS, Annika; MORIUCHI, Toshiyuki; HIRAO, Toshikazu
- 3F6-47** Au Nanoparticles with Ferrocene-Dipeptide Conjugates (Osaka Univ.) MORIUCHI, Toshiyuki; NISHIYAMA, Taiki; HIRAO, Toshikazu
- 3F6-48** Syntheses of Non-Spherical-Shape Gold Clusters and Correlation between Their Geometric and Electronic Structures (Hokkaido Univ. Environmental) SHICHIBU, Yukatsu; KAMEI, Yutarou; KONISHI, Katsuaki
- 3F6-49\*** Exploration of Redox-mediated subnanometer sized Au cluster (Hokkaido Univ.) KAMEI, Yutarou; SHICHIBU, Yukatsu; KONISHI, Katsuaki

Chair: MORIUCHI, Toshiyuki (17 : 30~18 : 30)

- \* 17:20-17:30: interval for laptop PC connection.(3F6-52, 3F6-54, 3F6-55, 3F6-56, 3F6-57)
- 3F6-52\*** Dynamics of structural relaxation and Au-Au bond formation in dicyanoaurate(I) exciplexes (Univ. of Toyama; Riken) IWAMURA, Munetaka; IMAMURA, Tomotsugu; KIMOTO, Kenshi; NOZAKI, Koichi; TAKEUCHI, Satoshi; TAHARA, Tahei
- 3F6-54** Optical Properties of 1,1'-Binaphthyl Au(I) Complexes Having Long Emission Lifetime (Graduate School of Materials, Nara Institute of Science and Technology) ASAJIMA, Kanako; YUASA, Junpei; KAWAI, Tsuyoshi
- 3F6-55** Mechanochromic Photoluminescence and Structural Change of Arylgold(I)-Isocyanide Complexes (Graduate School of Engineering, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) MUROMOTO, Mai; ITO, Hajime
- 3F6-56** Synthesis of imido bridged gold(III) dinuclear complexes and their structural changes upon protonation (Univ. of Toyama) SAITO, Yoshiaki; NUNO, Takahiro; TSUGE, Kiyoshi
- 3F6-57** Synthesis of Gold-Silver Sandwich Clusters within Self-Assembled Cages (Grad. School of Engineering, The Univ. of Tokyo; CREST) OSUGA, Takafumi; MURASE, Takashi; FUJITA, Makoto

## Room F7

4th Bldg. Independence Wing D409

### Coordination Chemistry, Organometallic Chemistry

Monday, March 26, AM

#### Mg, Ca

Chair: MIYAKE, Yoshihiro (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2F7-01, 2F7-02, 2F7-03, 2F7-04, 2F7-05)
- 2F7-01** Synthesis and Reactivity of Magnesium Alkyl Complexes Bearing Monoanionic Amino-amide Ligands (Graduate School of Engineering Science, Osaka Univ.) YAMAMOTO, Koji; TSURUGI, Hayato; MASHIMA, Kazushi
- 2F7-02** Synthesis of Iminopyrrolyl Complexes of Group 2 and Their Catalytic Activity for Ring-opening Polymerization of  $\epsilon$ -Caprolactone (Graduate School of Engineering Science, Osaka Univ.) YAMAMOTO, Keishi; PANDA, Tarun Kanti; YAMAMOTO, Koji; KANEKO, Hiroshi; YI, Yang; TSURUGI, Hayato; MASHIMA, Kazushi

#### V, Nb, Ta

- 2F7-03** Reaction of a Vanadium Nitrido Complex Bearing an Aryloxoide/anilide Mixed Ligand (Department of Chemistry, Tokyo Institute of Technology) ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki
- 2F7-04** Synthesis of Niobium Complexes Bearing Adamantyl-substituted Phenoxide Ligands (Tokyo Tech.) KUROGI, Takashi; ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki
- 2F7-05\*** Syntheses, Structures and Reactivity of Dinuclear Niobium(III) and Tantalum(III) Complexes with Thioether Ligands to Have Catalytic Ability of Regioselective Cyclotrimerization of Alkynes (Dept. Chem., Saitama Univ.;

CACS, Saitama Univ.) MATSUURA, Masatoshi; FUJIHARA, Takashi; NAGASAWA, Akira

Chair: NISHIURA, Masayoshi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2F7-08, 2F7-10, 2F7-11, 2F7-12, 2F7-13)
- 2F7-08\*** Reductive cleavage of carbon-halogen bond by tantalum complexes with  $\alpha$ -diimine ligands via ligand-based redox processes (Graduate School of Engineering Science, Osaka Univ.) SAITO, Teruhiko; TANAHASHI, Hiromasa; NISHIYAMA, Haruka; TSURUGI, Hayato; MASHIMA, Kazushi
- 2F7-10** Synthesis and Some Reactions of Alkyltantalum Complexes Bearing a Cyclopentadienyl-carboranyl Ligand (Graduate School of Engineering Science, Osaka Univ.) YAMAMOTO, Koji; TSURUGI, Hayato; QUI, Zaozao; ARTEAGA-MUELLER, Rocío; MASHIMA, Kazushi
- 2F7-11** Ligand transformation reactions between Tantalum-Iridium hydrido complex bearing monocyclopentadienyl derivatives and heteroatom-containing ligands (Graduate School of Tokyo Institute of Technology) KINO, Masashi; OISHI, Masataka; SUZUKI, Hiroharu

#### Cr, Mo, W

- 2F7-12** Carbon-halogen Bond Cleavage of Alkyl Halides by Dinuclear Chromium Complexes and the Application for Radical Reactions (Graduate School of Engineering Science, Osaka Univ.) HAYAKAWA, Akio; SUGINO, Yoshitaka; TSURUGI, Hayato; MASHIMA, Kazushi
- 2F7-13** Dehalogenation Reaction Catalyzed by Dinuclear Paddlewheel Complexes of Group 6 Metals (Graduate School of Engineering Science, Osaka Univ.) SUGINO, Yoshitaka; HAYAKAWA, Akio; TSURUGI, Hayato; MASHIMA, Kazushi

Chair: KOMURO, Takashi (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2F7-15, 2F7-16, 2F7-17, 2F7-18, 2F7-19)
- 2F7-15** Synthesis and Reactivity of Dinuclear Molybdenum Dinitrogen Complex Bearing Ferrocene-substituted PNP Ligands (School of Engineering, The Univ. of Tokyo) KURIYAMA, Shogo; ARASHIBA, Kazuya; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 2F7-16** Synthesis and Reactivity of Molybdenum Dinitrogen Complexes Bearing Asymmetric PNP-type Pincer Ligands (School of Engineering, The Univ. of Tokyo) KINOSHITA, Eriko; ARASHIBA, Kazuya; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 2F7-17** Synthesis of molybdenum dinitrogen complexes with an arsenic-containing pincer ligand (School of Engineering, The Univ. of Tokyo) TAABE, Yoshiaki; KURIYAMA, Shogo; ARASHIBA, Kazuya; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 2F7-18** Unique Reactivity of Low-valent Tungsten Complexes Generated from Tungsten(VI) Species by Bis(trimethylsilyl)cyclohexadiene (Graduate School of Engineering Science, Osaka Univ.) TANAHASHI, Hiromasa; FEGLER, Waldemar; TSURUGI, Hayato; OKUDA, Jun; MASHIMA, Kazushi
- 2F7-19\*** Synthesis and Reactivity of Molybdenum Dinitrogen Complexes Bearing Cyclopentadienyl Ligands (School of Engineering, The Univ. of Tokyo) MIYAZAKI, Takamasa; TANABE, Yoshiaki; YUKI, Masahiro; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

#### Monday, March 26, PM

Chair: SUNADA, Yuusuke (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2F7-28, 2F7-29, 2F7-30, 2F7-31, 2F7-32, 2F7-33)
- 2F7-28** Synthesis and Properties of a Base-Stabilized Hydrido(hydroborylene) tungsten Complex (Graduate School of Science, Tohoku Univ.) WATANABE, Takahito; TOBITA, Hiromi
- 2F7-29** Photoreactions of a Hydrido(hydrogermylene)tungsten Complex with Carboxylic Acids (Department of Chemistry, Graduate School of Science, Tohoku Univ.) FUKUDA, Tetsuya; HASHIMOTO, Hisako; TOBITA, Hiromi
- 2F7-30** Reactions of Tungsten and Molybdenum Complexes Having an  $\eta^3$ - $\alpha$ -Silabenzyl Ligand with Carbonyl Compounds: Influence of the Change of the Metal Center Toward Reactivity (Graduate school of Science, Tohoku Univ.) KANNO, Yuto; KOMURO, Takashi; TOBITA, Hiromi

#### Mn, Re

- 2F7-31** Reaction of an alkyne and a coordinately unsaturated Mn complex within the crystal of a porous coordination network (School of Engineering, The Univ. of Tokyo; CREST) NISHIGUCHI, Satoshi; INOKUMA, Yasuhide; FUJITA, Makoto
- 2F7-32** Synthesis and Photoisomerization of Manganese Tricarbonyl Complexes Bearing a Pincer-Type Ligand (Tokyo Institute of Technology) ISHIKAWA, Tomoyuki; TAKAYA, Jun; IWASAWA, Nobuharu
- 2F7-33** Synthesis and reactivities of transition metal complexes bearing electron accepting moiety. (School of Engineering; The Univ. of Tokyo) HIGUCHI, Yu; NAKAJIMA, Kazunari; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

Chair: TAKAYA, Jun (14 : 40~15 : 20)

\* 14:30-14:40: interval for laptop PC connection.(2F7-35, 2F7-36, 2F7-37, 2F7-38)

**2F7-35** Synthesis of N-confused porphyrin rhenium(V) complex that serves as cooperating catalyst in the oxygen atom transfer reaction (Department of Chemistry and Biochemistry Graduate School of Engineering Kyushu Univ.) YAMAMOTO, Takaaki; TOGANO, Motoki; FURUTA, Hiroyuki

### Cu, Au, Zn

**2F7-36** Cu-Catalyzed Carboxylation of Vinylaluminums: Formal Alkylative or Reductive Carboxylation of Alkynes via Methy- or Hydroalumination (RIKEN) TAKIMOTO, Masanori; HOU, Zhaomin

**2F7-37** Synthesis and Structural Analysis of Pincer Au(III) Complexes with SNS Tridentate Ligand and Acetylide Ligand (Univ. of Tsukuba) OBATA, Benio; KUWABAE, Junpei; KANBARA, Takaki

**2F7-38** Mononuclear zinc catalyst for amide-cleaved esterification of  $\beta$ -hydroxyethylamides: sequence-selective peptide bond cleavage at serine residues (Graduate School of Engineering Science, Osaka Univ.) NISHII, Yuji; HIGUCHI, Takafumi; KITA, Yusuke; MASHIMA, Kazushi

### Tuesday, March 27, AM

Chair: SUGIMOTO, Hideki (9 : 00 ~ 9 : 50)

\* 8:50-9:00: interval for laptop PC connection.(3F7-01, 3F7-02, 3F7-03, 3F7-04)

**3F7-01** Reactions of the [3:1] Site-differentiated [4Fe-4S] Cluster Having a Tridentate Thiolate (Grad. Sch. Sci. and Res. Ctr. Mat. Sci, Nagoya Univ.) TERADA, Tamaki; LIU, Dong; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki

**3F7-02** Evaluation of Chlorination Reaction of Horseradish Peroxidase Having Fe-Porphycene (Osaka Univ.) KIHARA, Yushi; OOHORA, Koji; ONODA, Akira; HAYASHI, Takashi

**3F7-03** Synthesis of an [8Fe-6S-O] Cluster from the Reaction of a Dinuclear Iron(II) Thiolate/Alkoxide Complex with S<sub>8</sub> and H<sub>2</sub>O (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) OHTA, Shun; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**3F7-04\*** Elucidation of Oxygen Activation Reaction Mechanism in Terminal Oxidase, Cytochrome *c* Oxidase with chemical Models (IMCE and I<sup>2</sup>CNER, Kyushu Univ.) LIU, Jing-gang; OHOTA, Takehiro; NARUTA, Yoshinori

Chair: HIKICHI, Shiro (10 : 00~10 : 50)

\* 9:50-10:00: interval for laptop PC connection.(3F7-07, 3F7-08, 3F7-09, 3F7-10)

**3F7-07** Reaction of Superoxide with Transcriptional Factor for Oxidative Stress Sensor, SoxR Containing [2Fe-2S] Clusters (ISIR, Osaka Univ.) FUJIKAWA, Mayu; KOBAYASHI, Kazuo; KOZAWA, Takahiro

**3F7-08** Syntheses of Reduced State Models of the Active Site of [NiFe] Hydrogenase from the Reactions of (CO)<sub>4</sub>Fe(StBu)<sub>2</sub> or [(CO)<sub>2</sub>(CN)<sub>2</sub>Fe(dithiolate)]<sup>2-</sup> with Ni(0) Complexes (School of Science, Nagoya Univ.; Graduate School of Science, Nagoya Univ.; Research Center for Materials Science, Nagoya Univ.) NAGAHARA, Atsumu; LI, Zilong; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**3F7-09** Possibility of Spin Equilibrium in a One-electron Oxidized Product of an Iron(III) Porphyrin Complex. (School of Medicine, Toho Univ.; Toho Univ., Faculty of Science) IKEZAKI, Akira; TAKAHASHI, Masashi; NAKAMURA, Mikio

**3F7-10\*** Withdrawn

Chair: OKAMURA, Taka-aki (11 : 00~11 : 50)

\* 10:50-11:00: interval for laptop PC connection.(3F7-13, 3F7-15, 3F7-16)

**3F7-13\*** Ligand Exchange Reaction of Highly Oxidized [4Fe-4S] Clusters Bearing Amides and Formation of a [Fe-4Fe-4S] Clusters (Grad. Sch. Sci., RCMS, Nagoya Univ.) TANIFUJI, Kazuki; YAMADA, Norihiro; TAJIMA, Tomoyuki; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**3F7-15** Synthesis of Coordinatively Unsaturated Mononuclear Metal Complexes with Bis(imidazolyl)borate Ligand and Their Oxygen Activation Ability (Kanagawa Univ) CHIBA, Yosuke; NAKAZAWA, Jun; HIKICHI, Shiro

**3F7-16\*** Functional Analysis of Non-heme Diiron Protein and the Mutants Having Different Coordination Environment (Osaka Univ.) OKAMOTO, Yasunori; ONODA, Akira; HAYASHI, Takashi

### Tuesday, March 27, PM

Chair: TAKI, Masayasu (13 : 00~13 : 50)

\* 12:50-13:00: interval for laptop PC connection.(3F7-25, 3F7-26, 3F7-27, 3F7-28, 3F7-29)

**3F7-25** Synthesis and structures of highly oxidized [8Fe-7S] clusters modeling the nitrogenase P-cluster (Graduate School of Science, Nagoya Univ.; Research Center for Materials Science, Nagoya Univ.) SHIN, Kanyou; OHTA, Shun; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**3F7-26** [3:1] Site-differentiated [4Fe-4S]<sup>3+/2+/1+</sup> Clusters Carrying a Tridentate Thiolate and a Carboxylate (Grad. Sch. Sci. and Res. Ctr. Mat. Sci., Nagoya Univ.) NAKAMURA, Tomohiko; TERADA, Tamaki; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki

**3F7-27** Preparation and Reaction Behavior of Reconstituted Myoglobin with Tetrahydrocorrin Cobalt Complex toward Vitamin B12-binding Protein (Osaka Univ.) MORITA, Yoshitsugu; OOHORA, Koji; ONODA, Akira; HAYASHI, Takashi

**3F7-28** Synthesis and Structures of Hydroxo-Bridged Mn<sub>4</sub> and Mn<sub>3</sub>Ca Clusters Using H<sub>2</sub>O as the Oxygen Source (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) KOGAWA, Yumiko; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**3F7-29** Preparation of a Copper Complex in the Active Site of Chemically Modified Subtilisin (Nara Institute of Science and Technology) GONDA, Katsuya; MATSUO, Takashi; HIROTA, Shun

Chair: ISHIDA, Hitoshi (14 : 00~14 : 50)

\* 13:50-14:00: interval for laptop PC connection.(3F7-31, 3F7-32, 3F7-33, 3F7-34)

**3F7-31** Formation Mechanism of Mononuclear Copper(II) Superoxo Complex (Osaka Univ.) OKUBO, Yuri; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

**3F7-32** Reactivity of Mononuclear Copper(II) Superoxo Complex (Osaka Univ.) OKUBO, Yuri; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

**3F7-33** Mechanistic studies on the reaction of tyrosinase model complex systems with distorted coordination structures (Graduate School of Engineering, Nagoya Institute of Technology) SHIROTA, Tsuyoshi; TOYAMA, Tomoaki; KAJITA, Yuji; INOMATA, Tomohiko; OZAWA, Tomohiro; FUNAHASHI, Yasuhiro; MASUDA, Hideki

**3F7-34\*** The Role of Tyrosine Residue in the Methane Activation at the Dicopper Site of pMMO: A DFT Study (Institute for Materials Chemistry and Engineering and International Research Center for Molecular System, Kyushu Univ., ) SHIOTA, Yoshihito; GERGELY, Juhasz; YOSHIZAWA, Kazunari

Chair: OOHORA, Koji (15 : 00~15 : 50)

\* 14:50-15:00: interval for laptop PC connection.(3F7-37, 3F7-38, 3F7-39, 3F7-40, 3F7-41)

**3F7-37** Covalent Labeling of Mitochondrial Proteins with a Rosamine-based Zinc Fluorescent Probe (Kyoto Univ.) OSHIDA, Yoshimasa; TAKI, Masayasu; YAMAMOTO, Yukio

**3F7-38** Synthesis of trinuclear [MoFe<sub>2</sub>S<sub>4</sub>] clusters and an asymmetric [MoFe<sub>2</sub>S<sub>5</sub>] cluster using [Cp\*MoS<sub>3</sub>] as a precursor (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) MIYAZAKI, Kousuke; NAGASAWA, Takayuki; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**3F7-39** Synthesis and Properties of Desoxtungsten(IV), Monooxotungsten (VI) Complexes Having Two Intramolecular NH...S Hydrogen Bonds (Graduate School of Science, Osaka Univ.) OMI, Yui; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka

**3F7-40** Synthesis and Properties of Desoxomolybdenum Enzyme Model Complexes in Nonpolar Solvents (Graduate School of Science, Osaka Univ.) HASENAKA, Yuki; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka

**3F7-41** Synthesis of Cubane-Type [MoFe<sub>3</sub>S<sub>4</sub>] and Dicubane-Type [MoFe<sub>3</sub>S<sub>4</sub>]<sub>2</sub> Clusters Bearing a Bis(pyrazolyl)methyl Siloxy ligand (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) SENDA, Shunsuke; OHKI, Yasuhiro; TATSUMI, Kazuyuki

Chair: OHKI, Yasuhiro (16 : 00~16 : 40)

\* 15:50-16:00: interval for laptop PC connection.(3F7-43, 3F7-45, 3F7-46)

**3F7-43\*** Construction of an Artificial Metalloenzyme containing a Rhodium Complex within the Cavity and its Catalytic Activity for Polymerization (Osaka Univ.) FUKUMOTO, Kazuki; ONODA, Akira; HAYASHI, Takashi

**3F7-45** Characterization of relationships between intramolecular aromatic ring stacking and anti-tumor activity in platinum (II) complex (Kanazawa Univ.) KIWADA, Tatsuto; KATO, Masahiro; OGAWA, Kazuma; ODANI, Akira

**3F7-46** Antitumor activities of a palladium complex with a Schiff base ligand derived from D-(+)-glucosamine and quinoline (Okayama Univ. of Sci.) KAWAMOTO, Keisuke; SHIBAHARA, Takashi; OGURA, Shunichihiro; YANO, Shigenobu

## Room F8

4th Bldg. Independence Wing D410

### Functions of Materials

Sunday, March 25, AM

### Energy Conversion

Chair: YAMAMOTO, Takashi (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1F8-01, 1F8-02, 1F8-03,

1F8-05)

- 1F8-01** CO<sub>2</sub> Fixation by Deep-sea Neutrophilic Fe-oxidizing Bacteria (RCAST, Univ. Tokyo) MOGI, Taketo; ISHII, Takumi; NAKAMURA, Ryuhei; HASHIMOTO, Kazuhito
- 1F8-02**<sup>#</sup> Synthesis of organic dyes having thienocarbazole donor moiety for dye-sensitized solar cells (Graduate School of Science, Tohoku Univ.) ZHAO, Jian; JIN, Tienan; UZZAMAN, Md. Akhtar; ISLAM, Ashraf; HAN, Liyuan; YAMAMOTO, Yoshinori
- 1F8-03**<sup>\*</sup> Coadsorption effects of benzoic acid derivatives on organic solar cells using surface complexes of TiO<sub>2</sub> and dicyanomethylene compounds (RCAST, The Univ. of Tokyo) NAGATA, Morio; FUJISAWA, Jun-ichi; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 1F8-05**<sup>\*</sup> Fabrication of photoelectric conversion systems utilizing metal half-shell array structures (Nihon Univ., The Univ. of Shiga Prefecture/Kyushu Univ.) SUGAWA, Kosuke; HIRONO, Shuichi; OTSUKI, Joe; AKIYAMA, Tsuyoshi; YAMADA, Sunao

Chair: MIZOGUCHI, Hiroshi (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(1F8-08, 1F8-10, 1F8-12, 1F8-13)

- 1F8-08**<sup>\*</sup> Photocatalytic hydrogen evolution with platinum loaded methylacrylate-bridged periodic mesoporous organosilica (TOYOTA Central R&D Labs., Inc.) OHASHI, Masataka; MAEGAWA, Yoshifumi; YAMANAKA, Ken-ichi; GOTO, Yasutomo; TAKEDA, Hiroyuki; OHSUNA, Tetsu; TANI, Takao; INAGAKI, Shinji

### Electronic and Magnetic Functions

- 1F8-10**<sup>#</sup> Edge-state in the ACFs, HNO<sub>3</sub>-ACFs and Its Residue Compounds (Department of Chemistry, Tokyo Institute of Technology) HAO, Si-jia; TAKAI, Kazuyuki; JOLY, V. L. Joseph; KIGUCHI, Manabu; ENOKI, Toshiaki; SUMII, Ryohei; AMEMIYA, Kenta
- 1F8-12**<sup>#</sup> Oxidation-induced Magnetism in Nano-graphite (Dept. of Chem., Tokyo Institute of Tech.) KUMAR, Rajeev; TAKAI, Kazuyuki; KIGUCHI, Manabu; SI-JIA, Hao; ENOKI, Toshiaki
- 1F8-13**<sup>#</sup> Electrochemical properties of organic-metallic hybrid polymer films (NIMS, JST-CREST) PANDEY, Rakesh Kumar; MORIYAMA, Satoshi; HIGUCHI, Masayoshi

Chair: SUGAWA, Kosuke (11:20~12:10)

\* 11:10-11:20: interval for laptop PC connection.(1F8-15, 1F8-17, 1F8-18, 1F8-19)

- 1F8-15**<sup>\*</sup> Possible Verway-Type Transition in Pb<sub>3</sub>Rh<sub>2</sub>O<sub>15</sub> (Tokyo Inst. Tech., LGS, Oregon State Univ.) MIZOGUCHI, Hiroshi; RAMIREZ, A. P.; ZAKHAROV, L. N.; SLEIGHT, A. W.; SUBRAMANIAN, M. A.
- 1F8-17** Magnetic properties of the layered assembly using Co-Ni LDH nanosheets (Keio Univ.) NAMBA, Hiroaki; YAMAMOTO, Takashi; EINAGA, Yasuaki
- 1F8-18** Superconducting Properties of Surface-Modified Boron-Doped Diamond (Keio Univ.) NATSUI, Keisuke; YAMAMOTO, Takashi; WATANABE, Takeshi; EINAGA, Yasuaki
- 1F8-19** Superconducting Properties of Copper Oxides Nanoparticles with Surface Modification (Keio Univ.) IWASAKI, Kei; YAMAMOTO, Takashi; EINAGA, Yasuaki

### Sunday, March 25, PM

#### Biological Function

Chair: IKEDA, Atsushi (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(1F8-28, 1F8-29, 1F8-30, 1F8-32)

- 1F8-28** Synthesis and cellular cytotoxicity of carbon nanosphere (Iwate Univ.) AISAWA, Sumio; HOTTA, Masato; TAKAHASHI, Satoshi; HIRAHARA, Hidetoshi; NARITA, Eiichi
- 1F8-29** An application of carbohydrate-functionalized carboxilane dendrimer for drug carrier (Saitama Univ.; AIST) OTOMO, Kentaro; AIZAWA, Hiroaki; KATAOKA, Sho; KOYAMA, Tethuo; MATHUOKA, Koji; HATANNO, Ken
- 1F8-30**<sup>\*</sup> Nano-Bio Functions of Organic Nanotubes: Refolding Assist of Proteins and Release Control of Drugs (NTRC-AIST) KAMETA, Naohiro; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 1F8-32**<sup>\*</sup> Doxorubicin Encapsulation and Release from Organic Nanotubes Having Hydrophobic and Anionic inner surface (NTRC-AIST) DING, Wuxiao; KAMETA, Naohiro; MINAMIKAWA, Hiroyuki; WADA, Momoyo; SHIMIZU, Toshimi; MASUDA, Mitsutoshi

Chair: MASUDA, Mitsutoshi (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(1F8-35, 1F8-37, 1F8-39)

- 1F8-35**<sup>#</sup> Synthesis of cholesterol-gelatin for the cellular uptake of protein and immune-reactions (RIKEN) KADENGDLU, Pallavi; HEBISHIMA, Takehisa; TAKESIMA, Shin-nosuke; ITO, Mika; ABE, Hiroshi; AIDA, Yoko; AIGAKI, Toshiro; ITO, Yoshihiro
- 1F8-37**<sup>\*</sup> Novel Drug Delivery System with Mechanical Stimulus (National

Institute for Materials Science (NIMS) IZAWA, Hironori; KAWAKAMI, Kohsaku; SUMITA, Masato; TATEYAMA, Yoshitaka; HILL, Jonathan; ARIGA, Katsuhiko

- 1F8-39**<sup>\*</sup> Aminocyclodextrin, a New pH-Responsive Carrier of Fullerene to Cancer Cells (NAIST) NOBUSAWA, Kazuyuki; AKIYAMA, Motohisa; IKEDA, Atsushi; OGAWA, Takuya; TAKEYA, Tatsuo; NAITO, Masanobu

Chair: HATANNO, Ken (15:50~16:50)

\* 15:40-15:50: interval for laptop PC connection.(1F8-42, 1F8-43, 1F8-44, 1F8-45, 1F8-46, 1F8-47)

- 1F8-42** Preparation of calcium silicate microcapsules encapsulating proteins and their application to drug delivery (AIST-Kansai; Natl. Inst. Animal Health) FUJIWARA, Masahiro; SHIOKAWA, Kumi; KUBOTA, Takayuki
- 1F8-43** Stabilization Effect of Cyclodextrin-Grafted Chitosan for Insulin (Tokyo Univ. Sci., NIMS) DAIMON, Yuki; IZAWA, Hironori; KAWAKAMI, Kohsaku; SAKAI, Hideki; ABE, Masahiko; HILL, Jonathan; ARIGA, Katsuhiko
- 1F8-44**<sup>#</sup> Interaction of organic-metallic hybrid polymers with DNA (NIMS, JST-CREST) LI, Jinghua; MURAKAMI, Tatsuya; HIGUCHI, Masayoshi
- 1F8-45** Fabrication of chemiluminescent protein encapsulated virus capsule for the sensitive tracking in the cells (Faculty of science, Hokkaido Univ.; RIES, Hokkaido Univ.) SUGIMURA, Naotoshi; NIKURA, Kenichi; NAGAKAWA, Keita; SAWA, Hirofumi; SAITO, Kenta; NAGAI, Takeharu; IJIRO, Kuniharu
- 1F8-46** Formulation of lipid nanotube network in hydrogel (Tokyo Medical & Dental Univ.) ITO, Yoshitaka; SEKINE, Yurina; SASAKI, Yoshihiro; AKIYOSHI, Kazunari
- 1F8-47** Photoresponsive nanocontainer using fusion of vesicles containing Malachite Green derivative (Nara National College of Technology) UDA, Ryoko

Chair: IJIRO, Kuniharu (17:00~17:20)

\* 16:50-17:00: interval for laptop PC connection.(1F8-49)

- 1F8-49**<sup>\*</sup> Lipid nanodisc formation by the self-assembly of newly designed amphiphilic helical peptides (The Scripps Research Institute (TSRI)) IMURA, Tomohiro; LEMAN, LUKE J; MARYANOFF, Bruce E; GHADIRI, Reza M

### Monday, March 26, AM

#### Photochromism

Chair: KAWAI, Tsuyoshi (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(2F8-01, 2F8-03, 2F8-05)

- 2F8-01**<sup>\*</sup> Active photoreorientation behavior of liquid crystalline azobenzene diblock copolymer films (Graduate School of Engineering, Nagoya Univ.) SANO, Masami; NAGANO, Shusaku; SHINOHARA, Yuya; AMEMIYA, Yoshiyuki; SEKI, Takahiro
- 2F8-03**<sup>\*</sup> Mechanical motion and mechanism of azobenzene crystals upon photo irradiation (Grad. Sch. Sci., Eng., Ehime Univ.) NAKAMURA, Jun; OJIMA, Naoko; SATO, Koichi; KOSHIMA, Hideko
- 2F8-05**<sup>\*</sup> Preparation of the Metastable 2-D Ordering of Diarylethene by Photo-Induced Phase Transition at the Liquid-Solid Interface (Graduate School of Engineering, Kyoto Univ.) SAKANO, Takeshi; MATSUDA, Kenji

Chair: KOBATAKE, Seiya (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(2F8-08, 2F8-10, 2F8-12, 2F8-13)

- 2F8-08**<sup>\*</sup> Real Time Holography with Fast Photochromic Molecule (Aoyama Gakuin Univ.) ISHII, Norihito; KATO, Tetsuya; ABE, Jiro
- 2F8-10**<sup>\*</sup> Novel photochromism of binaphthyl-bridged imidazole dimer (Aoyama Gakuin Univ.; Mitsubishi Gas Chemical Company, Inc.) HATANNO, Sayaka; HORINO, Takeru; TOKITA, Atsuhiko; OSHIMA, Toyoji; ABE, Jiro
- 2F8-12** Fast photochromism of 1,1'-binaphthyl-bridged imidazole dimer (Aoyama Gakuin Univ.) KATO, Tetsuya; ABE, Jiro
- 2F8-13** Photochemical control of the chiral nematic phase by fast photochromic molecules (Aoyama Gakuin Univ.) YAMAGUCHI, Tetsuo; KATO, Tetsuya; ABE, Jiro

Chair: ABE, Jiro (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(2F8-15, 2F8-16, 2F8-17, 2F8-18, 2F8-19, 2F8-20)

- 2F8-15** Synthesis and Properties of Photoresponsive Silica Nanoparticles by Reversible Addition-Fragmentation Chain Transfer Radical Polymerization (Graduate School of Engineering, Osaka City Univ.) SENO, Ryuta; KOBATAKE, Seiya
- 2F8-16** Photoinduced Crystal Fragmentation of a Diarylethene Derivative (Graduate School of Engineering, Osaka City Univ.) OKUYAMA, Tomohiro; KOBATAKE, Saiya
- 2F8-17** Irreversible Thermal Bleaching Reaction of Diarylethene Closed-ring Forms with Thiophene-dioxide Group (Graduate School of Engineering, Osaka City Univ.) SHOJI, Hiroaki; KOBATAKE, Seiya
- 2F8-18** Polymorphism and Photochromism of a Diarylethene Having Propyl Groups at the Reactive Carbons (Graduate School of Engineering, Osaka



City Univ.) KITAGAWA, Daichi; KOBATAKE, Seiya

- 2F8-19** Photochromism of Diarylethenes Having a Phenol Ring (Hyogo Univ. of Teacher Edu.; Ryukoku Univ.; Tokyo Univ. of Pharm. and Life Sci.; RIKEN; AIST; Rikkyo Univ.) YAMAGUCHI, Tadatsugu; KAMIHASHI, Yusuke; OZEKI, Toru; UYAMA, Ayaka; KASUNO, Megumi; SUMARU, Kimio; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo; MORIMOTO, Masakazu
- 2F8-20** Single-Crystalline photochromism of diarylethene having non-symmetrical substituents (Rikkyo Univ.) SAKAKIBARA, Daisuke; MORIMOTO, Masakazu; IRIE, Masahiro

### Monday, March 26, PM

Chair: TAMAOKI, Nobuyuki (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(2F8-28, 2F8-29, 2F8-30, 2F8-31, 2F8-32, 2F8-33)
- 2F8-28** Water-soluble photochromic diarylethene derivation (Rikkyo Univ.) HORIUCHI, Masahiro; MORIMOTO, Masakazu; IRIE, Masahiro
- 2F8-29** Photoinduced reversible epitaxial microcrystal growth of a photochromic diarylethene on (110) surface of SrTiO<sub>3</sub> (Ryukoku Univ.) SAKIYAMA, Shingo; YAMAZOE, Seiji; UYAMA, Ayaka; NISHIMURA, Naoto; MORIMOTO, Masakazu; YOKOJIMA, Satoshi; KOJIMA, Yuko; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 2F8-30** Photochromism and wettability change of a diarylethene derivative having malachite green moiety. (Ryukoku Univ.) TATSUMI, Yuto; UCHIDA, Kingo
- 2F8-31** Photochromic Reactions of Diarylethene Derivatives Having an Azulene Ring at the Ethene Moiety (Ryukoku Univ.; Mitsubishi Chemical; Tokyo Institute of Technology; Tokyo Univ. of Pharmacy and Life Sciences; Riken) UCHIDA, Kingo; KITAI, Junichiro; KOBAYASHI, Takao; HATAKEYAMA, Makoto; UCHIDA, Waka; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro
- 2F8-32** Chiral photochromic properties of diarylethenes in human serum albumin (Yokohama National Univ.) FUKAGAWA, Mai; KAWAMURA, Izuru; UBUKATA, Takashi; YOKOYAMA, Yasushi
- 2F8-33** Effect of the alkyl chain length on the photoinduced isothermal phase transitions for triphenylene derivatives having six alkoxyazobenzene units (Ryukoku Univ.; AIST Kansai) TANAKA, Daisuke; SHIRASU, Tatsuya; SHIMIZU, Yo; UCHIDA, Kingo

Chair: YOKOYAMA, Yasushi (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(2F8-35, 2F8-36, 2F8-37, 2F8-38, 2F8-39, 2F8-40)
- 2F8-35** Light-driven Continuous Unidirectional Rotation of Glass flakes on the Cholesteric Liquid Crystal Doped with a Planar Chiral Azobenzene Derivative (Research Institute for Electric Science, Hokkaido Univ.) AKASAKA, Takehito; THOMAS, Reji; TAMAOKI, Nobuyuki
- 2F8-36** Surface buckling behavior of azobenzene polymer layer/elastomer substrate systems (Graduate School of Engineering, Nagoya Univ.) LIAO, Wan-yu; NAGANO, Shusaku; SEKI, Takahiro
- 2F8-37** Photochromism of origo-2-phenylthiazole (Nara Inst. Sci. Tech.) YAMAMOTO, Kyohei; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2F8-38** Dynamical Control of Photochromism using Crystalline-State Photoisomerization (Tokyo Inst. of Tech.) SEKINE, Akiko; INA, Sayaka; JOHMOTO, Kohei; UEKUSA, Hidehiro
- 2F8-39** Photochromism of terarylene homodimer with multiple hydrogen bonding. (Graduate School of Materials Science, Nara Institute of Science and Technology) TANIGUCHI, Toshihide; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2F8-40** Charge Transfer Isomerization of Photochromic Terarylene (Nara Inst. Sci. Tech.) KAJIKI, Yoshiyuki; FUKUMOTO, Sayo; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

Chair: UCHIDA, Kingo (15:50~16:50)

- \* 15:40-15:50: interval for laptop PC connection.(2F8-42, 2F8-43, 2F8-44, 2F8-45, 2F8-46, 2F8-47)
- 2F8-42** Photomechanical Bending of Magnetically Oriented Microcrystal Film of Salicylideneaniline (Ehime Univ.; Kyoto Univ.) KOSHIMA, Hideko; MATSUDOMI, Masafumi; UEMURA, Yutaro; NAKAMURA, Jun; KIMURA, Fumiko; KIMURA, Tsunehisa
- 2F8-43** Fluorescence switching by using fast photochromic [2.2]PC-bridged imidazole dimer (Aoyama Gakuin Univ.) MUTOH, Katsuya; ABE, Jiro
- 2F8-44** Spectroelectrochemistry of [2.2]paracyclophane-bridged imidazole dimer (Aoyama Gakuin Univ.) NAKANO, Emi; MUTOH, Katsuya; ABE, Jiro
- 2F8-45** Photochromism of Novel Bisarylidenedols. (Yokohama National Univ.) OGAWA, Hatsune; OKAMOTO, Akiko; YONEZAWA, Noriyuki; UBUKATA, Takashi; YOKOYAMA, Yasushi
- 2F8-46** Fluorescence switching of photochromic bisarylcoumarin family (Yokohama National Univ.) SUZUKI, Kazushi; UBUKATA, Takashi; YOKOYAMA, Yasushi
- 2F8-47** Solvent Responsive Structural Colored Balloons and the Functionalization (Grad. School of Eng., Kyoto Univ.) INOUE, Masafumi; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

Chair: MORIMOTO, Masakazu (17:00~17:30)

- \* 16:50-17:00: interval for laptop PC connection.(2F8-49, 2F8-50, 2F8-51)
- 2F8-49** New Stealth-type Photochromism of Phenanthrene-Ethylene Dyad (Grad. Sch. of Eng., Osaka Pref. Univ.; Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) NAKANISHI, Yusuke; KAWAKAMI, Jun; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 2F8-50** Bleaching behaviors of naphthopyran derivatives with hydroxyl group in polymer matrices (Graduate School of Chiba Univ.) MASE, Tomohiro; MIYAGAWA, Nobukazu
- 2F8-51** Solid-State Photochromism of Chromenes (Graduate School of Arts & Sciences, The Univ. of Tokyo) UEKI, Keigo; HARADA, Jun; OGAWA, Keiichiro

### Tuesday, March 27, AM

#### Photochromism

Chair: NABETANI, Yu (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3F8-01, 3F8-03, 3F8-05)
- 3F8-01\*** Photochromic terarylenes having elimination units at reactive carbons (Graduate School of Materials Science, Nara Institute of Science and Technology) NAKAGAWA, Hisako; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 3F8-03\*** Sensitivity Enhancement and Temperature-dependent Properties of Photochromic Terarylenes Derivatives (Nara Inst. Sci. Tech.) FUKUMOTO, Sayo; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 3F8-05\*** Driving and Photo-control of Motility of a Bio-nano-motor by a Novel Photochromic Nucleotide Analogue (Hokkaido Univ.) KAMEI, Takashi; FUKAMINATO, Tsyoshi; TAMAOKI, Nobuyuki

Chair: NAKASHIMA, Takuya (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(3F8-08, 3F8-10, 3F8-11, 3F8-12, 3F8-13)
- 3F8-08\*** Photoswitchable Microtubule Destabilizing Molecules: Substituent Dependence of Microtubule Depolymerization (Hokkaido Univ., RIES) FUKAMINATO, Tsyoshi; KAMEI, Takashi; TAMAOKI, Nobuyuki
- 3F8-10** Photoisomeric Behavior of Amphiphilic Polymers Bearing Spirobenzopyran Moiety at the End Group in Aqueous Solution (Faculty of Systems Engineering, Wakayama Univ.) NAKAMURA, Jin; NAKAHARA, Yoshio; KIMURA, Keiichi

#### Inorganic-Organic Hybrid

- 3F8-11** Multi-emitting phenomena by the hybrid films of Iridium(III) complex and clays (Ehime Univ.; Ehime Univ.; NIMS) NAKATANI, Yasuhiko; MORIMOTO, Kazuya; OHARA, Keishi; NAGAOKA, Shin-ichi; TAMURA, Kenji; SATO, Hisako
- 3F8-12** Control of the high pressure field applied to cationic dyes intercalated in clay minerals (Yamaguchi Univ.) NISHIOKA, Yukihiko; TENMA, Yuta; TOMINAGA, Makoto; TANI, Seiji; SUZUKI, Yasutaka; KAWAMATA, Jun
- 3F8-13** Photo-chemical behavior of photo-functional silica hybrid material. (Tokyo Metropolitan Univ.) YAMAMOTO, Daisuke; NABETANI, Yu; SHIMADA, Tetsuya; YANO, Kazuhisa; TACHIBANA, Hiroshi; INOUE, Haruo

Chair: FUKAMINATO, Tsyoshi (11:20~12:10)

- \* 11:10-11:20: interval for laptop PC connection.(3F8-15, 3F8-16, 3F8-17, 3F8-18, 3F8-19)
- 3F8-15** Nanostructure and photochemical reaction of azobenzene/niobate nanocomposites (Tokyo Metropolitan Univ.) MATSUKURA, Shoichi; NABETANI, Yu; HAYASAKA, Yuika; TACHIBANA, Hiroshi; INOUE, Haruo
- 3F8-16** Morphology Analysis of Azobenzene/niobate Nanocomposites (Tokyo Metropolitan Univ.) NABETANI, Yu; HAYASAKA, Yuika; TAKAMURA, Hazuki; TACHIBANA, Hiroshi; INOUE, Haruo
- 3F8-17** Effect of Phenol Adsorption on Spectroscopic Properties of Rhodamine Dyes Incorporated in Surfactant/Titanate Nanosheet Hybrids (Interdisciplinary Faculty of Science and Engineering, Shimane Univ.) SASAI, Ryo; AOTO, Fumitaka
- 3F8-18** Development of a Light-Harvesting Photocatalytic System for CO<sub>2</sub> Reduction Using a Hybrid of a Ru(II)-Re(I) Complex and Mesoporous Organosilica (Tokyo Tech., Toyota Central R&D Lab., AIST, CREST/JST) UEDA, Yutaro; TAKEDA, Hiroyuki; INAGAKI, Shinji; KOIKE, Kazuhide; YUI, Tatsuto; ISHITANI, Osamu
- 3F8-19** Mounting of rare earth/organic hybrid light-harvesting antennas into the soft nano-space host and their optical properties (Shimane Univ.) NISHIYAMA, Katsura; WATANABE, Yasuhiro; WATANABE, Keiichi; HARADA, Takashi

### Tuesday, March 27, PM

Chair: NAGANO, Shusaku (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(3F8-34, 3F8-36, 3F8-38)
- 3F8-34\*** Preparation and Analysis of Polymer Films Containing Core-Shell

Type Poly(vinylpyrrolidone)/Ceria Nanoparticles (National Institute of Advanced Industrial Science and Technology (AIST)) ITOH, Toshio; UCHIDA, Toshio; IZU, Noriya; MATSUBARA, Ichiro; SHIN, Woosuck

- 3F8-36\*** Organization of niobate liquid crystalline nanosheets with the electric field. (Tokyo Univ. of Agriculture and Technology ; Kyushu Institute of Technology) NONO, Yoshihiro; NAKATA, Munetaka; NAKATO, Teruyuki  
**3F8-38\*** Liquid crystal phase of montmorillonite dispersions and tuning of their structure and property by addition of polymers (Fukuoka Inst. Technol.) MIAYMOTO, Nobuyoshi; HASHIDUME, Nobuo; TAKASHIMA, Reiya; YAMAMOTO, Shinya

Chair: KANEKO, Yoshiro (15 : 40~16 : 40)

\* 15:30-15:40: interval for laptop PC connection.(3F8-41, 3F8-43, 3F8-44, 3F8-45, 3F8-46)

- 3F8-41\*** Energy and Electron Transfer from Mesostructured Organosilica Framework to Guest Molecules (Toyota Central R&D Labs., Inc.; JST-CREST; Nagoya Univ.) MIZOSHITA, Norihiro; YAMANAKA, Ken-ichi; HIROTO, Satoru; SHINOKUBO, Hiroshi; TANI, Takao; INAGAKI, Shinji  
**3F8-43** Solar cell properties of n-Si/graphene based thin film (Univ. of Hyogo) MIMURA, Taito; MATSUO, Yoshiaki  
**3F8-44** Study of photophysics of self-organized complex of gold nanoparticle and perylene derivative (UEC;SOGOSHI lab.) KUROKI, Yoshiro; YASUTAKE, Mikio; SOGOSHI, Norihiro  
**3F8-45** Liquid crystal phase of the colloidal dispersions of layered perovskites nanosheets (Univ. of Fukuoka Institute Technology) YAMAMOTO, Shinya; MIYAMOTO, Nobuyoshi; SASAKI, Takayoshi; EBINA, Yasuo  
**3F8-46** Vertically aligned hexagonal structures of silica / block copolymer surfactants hybrid films induced by phase transition (Grad. Sch. Eng., Nagoya Univ.; VBL, Nagoya Univ.; Presto, JST) KAMA, Yuko; HARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro

Chair: TAKAISHI, Shinya (16 : 50~17 : 50)

\* 16:40-16:50: interval for laptop PC connection.(3F8-48, 3F8-49, 3F8-51, 3F8-52, 3F8-53)

- 3F8-48** Induction of chirality from chiral ladder-like polysilsesquioxanes to pyrene derivatives (Kagoshima Univ.; Ehime Univ.) TOYODOME, Hisaya; HIGO, Yuhei; SATO, Hisako; KANEKO, Yoshiro

### Photochemical System

- 3F8-49\*** Thermoresponsive Photoluminescent Behavior of Cyclic Trinuclear Gold Complexes (Ritsumeikan Univ.) FUJISAWA, Kaori; UNO, Kenjiro; MAMIYA, Junichi; SHISHIDO, Atsushi; TSUTSUMI, Osamu  
**3F8-51** Liquid-crystallinity and photoluminescent behavior of rod-like-shaped gold complexes with isocyanide ligands (Ritsumeikan Univ.) IZUMI, Yuichi; TAMAI, Syo; ONISHI, Yusuke; FUJISAWA, Kaori; UNO, Kenjiro; TSUTSUMI, Osamu  
**3F8-52** Liquid-crystalline properties of cyclic trinuclear gold complexes with pyrazole ligands and their photoluminescence behavior (Ritsumeikan Univ.) TAMARU, Masakazu; UNO, Kenjiro; FUJISAWA, Kaori; TSUTSUMI, Osamu  
**3F8-53** Evaluation of Up-conversion based on Triplet-Triplet Annihilation in Polymer thin films (Faculty of Engineering, Shizuoka Univ.; Research Institute of Electronics, Shizuoka Univ.) ITO, Jun; KAWAI, Hideki

Chair: TSUTSUMI, Osamu (18 : 00~18 : 30)

\* 17:50-18:00: interval for laptop PC connection.(3F8-55, 3F8-56, 3F8-57)

- 3F8-55** Luminescent Mechanochromism of Au-isocyanide Complex Possessing Cholesterol Moieties (Grad. Sch. Eng., Chiba Univ.; Grad. Sch. Sci. and Eng., Hokkaido Univ.) YAGAI, Shiki; KAWAGUCHI, Kohsuke; KARATSU, Takashi; KITAMURA, Akihiko; KURENUMA, Sayaka; ITO, Hajime  
**3F8-56#** Luminescence Enhancement Research of Doped Co-Crystal Systems (Tohoku Univ.) LI, Jinpeng; TAKAISHI, Shinya; KATOH, Keiichi; YAMASHITA, Masahiro; SAWABE, Kosuke; TAKENOBU, Taishi  
**3F8-57** Withdrawn

Wednesday, March 28, AM

### Optical Property

Chair: MIYAKE, Michihiro (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4F8-01, 4F8-02, 4F8-03, 4F8-04, 4F8-05, 4F8-06)

- 4F8-01** Optical chirality of lanthanide complexes evaluated with Circularly Polarized Luminescence Microscope Systems (Graduate School of Materials Science, Nara Institute of Science and Technology) TAKAGI, Junichi; YUASA, Junpei; TSUMATORI, Hiroyuki; KAWAI, Tsuyoshi  
**4F8-02** Two-photon Absorption Cross Sections of Nanoparticles of a Violanthrone Derivative (Yamaguchi Univ.) KAKUICHI, Masaki; KASATANI, Kazuo; MORITA, Yuki; TENMA, Yuta; KAWAMATA, Jun  
**4F8-03** Studies on electronic structures and two-photon absorption properties of tetra(phenylacridine) molecules (AIST; Osaka Univ.; Graduate School of Science, Hiroshima Univ.) MINAMIDE, Shu; KAMADA, Kenji; OHTA, Koji; ITO, Soichi; YONEDA, Kyohei; KISHI, Ryohei; NAKANO,

Masayoshi; FUKU-EN, Shin-ichi; YAMAMOTO, Yohsuke

- 4F8-04** Two-photon absorption properties of cycloparaphenylene (AIST; Nagoya Univ.) NAMIKAWA, Tomotaka; KAMADA, Kenji; OHTA, Koji; SEGAWA, Yasutomo; ITAMI, Kenichiro

### Separation Property

- 4F8-05** Metal Scavenging by Bipyridine-bridged Periodic Mesoporous Organosilica (Toyota Central R&D Labs., Inc.; JST/CREST) WAKI, Minoru; MIZOSHITA, Norihiro; TANI, Takao; INAGAKI, Shinji  
**4F8-06** Unique sorption properties of Caesium-Potassium salt of lacunary phosphotungstate (Hokkaido Univ.) MIURA, Yu-ki; KAMIYA, Yuichi

Chair: KUWABARA, Tetsuo (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4F8-08, 4F8-10, 4F8-12)

- 4F8-08\*** Synthesis of a Novel Hydrophobic Porous Coordination Polymer and Its CO<sub>2</sub> Adsorption Property (RITE) WATABE, Tsuyoshi; NISHIZAKA, Yosuke; YOGO, Katsunori  
**4F8-10\*** Sorption performance of alkali metal ion-exchanged acid clays (Okayama Univ.) SHA, Rula; KAMESHIMA, Yoshikazu; NISHIMOTO, Shunsuke; MIYAKE, Michihiro  
**4F8-12\*** Estimation of Affinity Coefficients of Activated Carbon for Organic Vapors Using Molar Polarization (National Institute of Occupational Safety and Health, Japan) ABIKO, Hironobu

Chair: KAMIYA, Yuichi (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(4F8-15, 4F8-17, 4F8-18, 4F8-19, 4F8-20)

- 4F8-15\*** Development of the cell separation method with Euglena (Nagoya Univ.; FIRST, Nagoya Univ.) OKAMOTO, Yukihiro; NAKAKITA, Yukihiro; SANO, Takahiro; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu  
**4F8-17** Preparation of CO<sub>2</sub> selective membrane by the liquid phase nano coating process. (Univ. of Hyogo) FUNAOKA, Tatsuya; DAIKO, Yusuke; MINESHIGE, Atsushi; YAZAWA, Tetsuo  
**4F8-18** Selective Inclusion of *trans*-Fatty Acids in Nonpolar Solvents by Cyclodextrin Hosts (Osaka Univ.;Osaka Institute of Technology) HAMADA, Mitsuyo; KIDA, Toshiyuki; MURAOKA, Masahiro; NAKATSUJI, Yoji; AKASHI, Mitsuru  
**4F8-19** Development of Barium-responsive color change indicator (Interdisciplinary Graduate School of Medicine and Engineering, Univ. of Yamanashi) GUO, Haocheng; KUWABARA, Tetsuo  
**4F8-20** Synthesis and complexation behavior of novel azobenzene-modified cyclodextrins having a functional group (Interdisciplinary Graduate School of Medicine and Engineering, Univ. of Yamanashi) SUGIYAMA, Kosuke; KUWABARA, Tetsuo

## Room G1

4th Bldg. Independence Wing D411

### Catalysts and Catalysis

Sunday, March 25, AM

surface/adsorption/structure/physical properties/  
calculation

Chair: MITSUDOME, Takato (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1G1-01, 1G1-02, 1G1-03, 1G1-04, 1G1-06)

- 1G1-01** The investigation of reaction path of ethanol transformation over Ni/SiO<sub>2</sub>-ZrO<sub>2</sub> (Tokyo Gakugei Univ.) HIRATA, Tomohiro; OGAWA, Haruo; YOSHINAGA, Yusuke  
**1G1-02** Effect of carbon number of alkoxy on the size of Ni nanocluster catalyst (Chiba Univ.) KITAGAWA, Hirotake; ICHIKUNI, Nobuyuki; TSUKUDA, Tatsuya; HARA, Takayoshi; SHIMAZU, Syogo  
**1G1-03** Structural analysis of Mo carbide nanoparticles under reduced pressure and their propene hydrogenation activity (Chiba Univ.) ICHIKUNI, Nobuyuki; ISHIZAWA, Hideki; HARA, Takayoshi; SHIMAZU, Shogo  
**1G1-04\*** An in-situ electrical conductivity measurement of Au catalysts (AIST) MAEDA, Yasushi; IIZUKA, Yasuo; KOHYAMA, Masanori  
**1G1-06** In situ XAFS study on core-shell Pt-Au/C and Pt-Pd/C catalysts in PEFC MEA under voltage operating conditions (Univ. Electro-Commun.; Honda R&D Co., Ltd.; AIST; JASRI/Spring-8; Inst. Molec. Sci.) NAGAMATSU, Shin-ichi; ARAIA, Takashi; YAMAMOTO, Masakuni; OYANAGI, Hiroyuki; ISHIZAKA, Takayuki; KAWANAMI, Hajime; URUGA, Tomoya; TADA, Mizuki; IWASAWA, Yasuhiro

### catalyst preparation

Chair: ICHIKUNI, Nobuyuki (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1G1-08, 1G1-09, 1G1-11, 1G1-13)
- 1G1-08** Catalyses by Gold Supported on ceria with various nanostructures (Yokohama National Univ.) TSUTSUMI, Kanae; YOSHITAKE, Hideaki
- 1G1-09\*** Synthesis of PtRu/C Nanoparticle Catalysts with High Loading Weight by Electron Beam Irradiation Reduction Method (Osaka Univ.) OHKUBO, Yuji; KAGEYAMA, Satoru; SEINO, Satoshi; KUGAI, Junichiro; NAKAGAWA, Takashi; UENO, Koji; YAMAMOTO, Takao A.
- 1G1-11\*** Preparation and Catalytic Performances of Surface Matrix-Protected Mn Cluster on SiO<sub>2</sub> for Selective Epoxidation (IMS) MURATSUGU, Satoshi; WENG, Zhihuan; TADA, Mizuki
- 1G1-13** Hydrogenation of nitriles on supported Ru cluster catalysts (IMS) WANG, Fei; MURATSUGU, Satoshi; ISHIGURO, Nozomu; TADA, Mizuki

Chair: MURATSUGU, Satoshi (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(1G1-15, 1G1-16, 1G1-17, 1G1-19)
- 1G1-15** Correlation of electronic state and catalytic activity of hydrothermalite supported AuPd bimetallic nanoparticles catalyst (JAIST) YAKITA, Yusuke; NISHIMURA, Shun; EBETANI, Kohki
- 1G1-16** Deposition process for PVP-protected Pt nanoparticles on oxide supports (Kyushu Univ.) KIMURA, Kana; EINAGA, Hisahiro; TERAOKA, Yasutake
- 1G1-17\*** Development of Silver Nanoparticle Catalysts for Highly Chemoselective Reductions (Osaka Univ.) MITSUDOME, Takato; MIKAMI, Yusuke; MATOBA, Motoshi; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 1G1-19** Precise size-control of supported metal catalyst using photo-responsive Ag nanocolloid (Osaka Univ.) MORI, Kohsuke; KUMAMI, Akihito; YAMASHITA, Hiromi

### Sunday, March 25, PM

#### oxidation

Chair: TERAMURA, Kentaro (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(1G1-27, 1G1-28, 1G1-29, 1G1-30, 1G1-31)
- 1G1-27** Epoxidation of Alkenes with Hydrogen Peroxide by a Selenium-Containing Dinuclear Peroxotungstate (School of Engineering, The Univ. of Tokyo) KAMATA, Keigo; ISHIMOTO, Ryo; HIRANO, Tomohisa; UEHARA, Kazuhiro; MIZUNO, Noritaka
- 1G1-28** Efficient Heterogeneous Epoxidation of Alkenes Catalyzed by a Supported Tungsten Oxide (School of Engineering, The Univ. of Tokyo; Advanced Materials Research Center Nippon Shokubai Co., Ltd.) NOJIMA, Susumu; KAMATA, Keigo; YONEHARA, Koji; SUMIDA, Yasutaka; HIRATA, Kazuhisa; MIZUNO, Noritaka
- 1G1-29** Efficient Oxidation of Sulfides with Hydrogen Peroxide Catalyzed by a Divanadium-substituted Phosphotungstate (School of Engineering, The Univ. of Tokyo) YAMAURA, Taiyo; KAMATA, Keigo; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 1G1-30** Addition effect of slight amounts of noble metals on the performance of Pd catalyst for direct synthesis of H<sub>2</sub>O<sub>2</sub> (Chemical Resources Laboratory, Tokyo Institute of Technology) YAMANO, Hitoshi; DEGUCHI, Takashi; IWAMOTO, Masakazu
- 1G1-31\*** Synthesis of Amides from Ammonia and Alcohols with Manganese Oxide OMS-2 (School of Engineering, The Univ. of Tokyo) YAMAGUCHI, Kazuya; KOBAYASHI, Hiroaki; OISHI, Takamichi; MIZUNO, Noritaka

Chair: DEGUCHI, Takashi (14 : 30~15 : 10)

- \* 14:20-14:30: interval for laptop PC connection.(1G1-34, 1G1-35, 1G1-36, 1G1-38, 1G1-39)
- 1G1-34** Pd-catalyzed highly regioselective oxidation of internal olefins using water as an oxygen source (Osaka Univ.) YOSHIDA, Syuhei; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 1G1-35** Selective photocatalytic oxidation of alcohol using Cu/Nb<sub>2</sub>O<sub>5</sub>/TiO<sub>2</sub> (Graduate School of Engineering, Kyoto Univ.) SATANI, Manami; FURUKAWA, Shinya; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 1G1-36\*** Cu(OH)<sub>x</sub>/OMS-2 as an Efficient Heterogeneous Catalyst for the Oxidative Homocoupling of Terminal Alkynes (School of Engineering, The Univ. of Tokyo) OISHI, Takamichi; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

#### photocatalyst

Chair: MAEDA, Kazuhiko (15 : 10~16 : 40)

- 1G1-38** Photocatalytic reduction of carbon dioxide in water over various layered double hydroxide (LDH) (Graduate School of Engineering, Kyoto Univ.) IGUCHI, Shoji; TERAMURA, Kentaro; SHISHIDO, Tetsuya;

TANAKA, Tsunehiro

- 1G1-39** Photocatalytic reduction of carbon dioxide in water over Ni-In layered double hydroxide (Ni-In LDH) (Graduate School of Engineering, Kyoto Univ.) MIZUNO, Yuto; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro
- \* 15:30-15:40: interval for laptop PC connection.(1G1-41, 1G1-42, 1G1-43, 1G1-44, 1G1-45, 1G1-46)
- 1G1-41** Microwave-assisted hydrothermal syntheses of metal oxide photocatalysts with visible light response (Faculty of Science, Tokyo Univ. of Science) SOMA, Kota; IWASHINA, Katsuya; SAITO, Kenji; KUDO, Akihiko
- 1G1-42** Photocatalytic H<sub>2</sub> evolution over Cu<sub>0.5</sub>Ag<sub>0.5</sub>Ga<sub>1-x</sub>In<sub>1-x</sub>S<sub>2</sub> under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) YAMATO, Kohei; HAKARI, Yuichiro; AOYAMA, Tetsuji; SAITO, Kenji; KUDO, Akihiko
- 1G1-43** Solar hydrogen production over composite sulfide photocatalysts of Cu<sub>0.8</sub>Ga<sub>0.8-x</sub>In<sub>x</sub>Zn<sub>0.4</sub>S<sub>2</sub> (Faculty of Science, Tokyo Univ. of Science) HAKARI, Yuichiro; AOYAMA, Tetsuji; SAITO, Kenji; KUDO, Akihiko
- 1G1-44\*** Enhanced photocatalytic H<sub>2</sub> evolution of Zinc indium oxide/oxy-sulfide composite under visible light irradiation (Hokkaido Univ.) MEI, Zongwei; YE, Jinhua
- 1G1-45\*** heterogeneous photocatalytic H<sub>2</sub> generation and CO<sub>2</sub> fixation over cubic and orthorhombic NaNbO<sub>3</sub> (Hokkaido Univ., National Institute for Materials Science) LI, Peng; KAKO, Tetsuya; YE, Jinhua
- 1G1-46\*** Synthesis of Mesoporous Zinc Germanium Oxynitride for CO<sub>2</sub> Photoreduction under Visible Light (Hokkaido Univ.) ZHANG, Ning; KAKO, Tetsuya; YE, Jinhua

Chair: KUDO, Akihiko (16 : 50~17 : 50)

- \* 16:40-16:50: interval for laptop PC connection.(1G1-48, 1G1-50, 1G1-52)
- 1G1-48\*** Photocatalytic and photoelectrochemical water splitting under visible light using BaTaO<sub>2</sub>N (The Univ. of Tokyo) MAEDA, Kazuhiko; DOMEN, Kazunari
- 1G1-50\*** Development of Active Mn Water Oxidation Catalysts Based on a Spectroelectrochemical Study of the Reaction Mechanism (The Univ. of Tokyo, JST/ERATO) TAKASHIMA, Toshihiro; NAKAMURA, Ryuhei; HASHIMOTO, Kazuhito
- 1G1-52\*** Development of New Z-scheme Type Photocatalytic CO<sub>2</sub> Reduction Systems with Metal Complex - Semiconductor Hybrids (Tokyo Tech.) SEKIZAWA, Keita; MAEDA, Kazuhiko; KOIKE, Kazuhide; YUI, Tatsuto; DOMEN, Kazunari; ISHITANI, Osamu

Chair: KATAYAMA, Masao (18 : 00~18 : 30)

- \* 17:50-18:00: interval for laptop PC connection.(1G1-55, 1G1-56, 1G1-57)
- 1G1-55\*** Acid Treatment on Oxy-sulfide Photocatalysts to Achieve Enhanced Hydrogen Production from Water with Visible Light (Department of Engineering, Univ. of Tokyo) ZHAO, Wen; MATSUKAWA, Michinori; MAEDA, Kazuhiko; DOMEN, Kazunari
- 1G1-56\*** Visible-light-driven water oxidation over IO<sub>3</sub><sup>-</sup>/I<sup>-</sup> photocatalyst modified with two different cocatalysts (Department of Engineering, The Univ. of Tokyo) MA, Su Su Khine; MAEDA, Kazuhiko; ABE, Ryu; DOMEN, Kazunari
- 1G1-57\*** Preparation of Core-shell Ta<sub>3</sub>N<sub>5</sub> Photocatalysts for Water Splitting (School of Engineering, The Univ. of Tokyo) WANG, Daoai; LI, Yanbo; KUBOTA, Jun; DOMEN, Kazunari

### Monday, March 26, AM

#### photocatalyst

Chair: TERAMURA, Kentaro (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2G1-01, 2G1-02, 2G1-03, 2G1-04, 2G1-05, 2G1-06)
- 2G1-01** Effect of Ir-doping on visible light response of La-substituted PbTiO<sub>3</sub> photocatalysts (Faculty of Science, Tokyo Univ. of Science) AKIBA, Hiroki; IWASHINA, Katsuya; SAITO, Kenji; KUDO, Akihiko
- 2G1-02** Photocatalytic property of Ir-doped NaNbO<sub>3</sub> prepared by a hydrothermal method under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) IWASHINA, Katsuya; SAITO, Kenji; KUDO, Akihiko
- 2G1-03** Codoping effect of metal ions on photocatalytic property of SrTiO<sub>3</sub>:Ir with visible light response (Faculty of Science, Tokyo Univ. of Science) ASAI, Rikako; JIA, Qingxin; SAITO, Kenji; KUDO, Akihiko
- 2G1-04** Effects of flux treatments on the photocatalytic activity of BaTaO<sub>2</sub>N for water splitting (The Univ. of Tokyo) OKUBO, Shun; MORIYA, Yosuke; TAKATA, Tsuyoshi; KUBOTA, Jun; DOMEN, Kazunari
- 2G1-05** Effects of flux treatments on photocatalytic activity of Ta<sub>3</sub>N<sub>5</sub> for water splitting (The Univ. of Tokyo) ABE, Yuki; MORIYA, Yosuke; KATAYAMA, Masao; TAKATA, Tsuyoshi; KUBOTA, Jun; DOMEN, Kazunari
- 2G1-06** Effects of flux treatments on the photocatalytic activity of tantalum oxynitride (The Univ. of Tokyo) TAKASE, Masafumi; MORIYA, Yosuke; KUBOTA, Jun; DOMEN, Kazunari

Chair: KUBOTA, Jun (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2G1-08, 2G1-09, 2G1-10,

2G1-11, 2G1-12, 2G1-13)

- 2G1-08** CO<sub>2</sub> reduction using water as an electron donor over Ag-loaded NaTaO<sub>3</sub> doped with alkaline-earth metals (Tokyo Univ. of Science) NAKANISHI, Haruka; NAKAMURA, Aki; WATO, Tomoaki; SAITO, Kenji; KUDO, Akihiko
- 2G1-09** CO<sub>2</sub> reduction using water as an electron donor over KCaSrTa<sub>3</sub>O<sub>15</sub> photocatalyst prepared by soft processes (Tokyo Univ. of Science) WATO, Tomoaki; SAITO, Kenji; KUDO, Akihiko
- 2G1-10** Fabrication of Ag/TiO<sub>2</sub> hybrid nanotubes and their photocatalytic activities. (Shinshu Univ.) KATOU, Yukie; SUZUKI, Masahiro; HANABUSA, Kenji
- 2G1-11** Sunlight-induced photocatalytic oxidation of cyclohexane to cyclohexanone on titania - based catalysts under a carbon dioxide atmosphere (Hiroshima Univ.) HATTORI, Hideya; IDE, Yusuke; SADAKANE, Masahiro; SANO, Tsuneji
- 2G1-12** Sunlight induced selective oxidation of benzene and phenol on TiO<sub>2</sub> supported Au nanoparticle under a carbon dioxide atmosphere (Hiroshima Univ.) OGINO, Ryo; IDE, Yusuke; SADAKANE, Masahiro; SANO, Tsuneji
- 2G1-13** Photoconversion of carbon dioxide into fuels using layered double hydroxide semiconductor and water photooxidation catalysts separated with the polymerelectrolyte film (Chiba Univ., Graduate School of Science) MORIKAWA, Motoharu; AHMED, Naveed; OGURA, Yuta; IZUMI, Yasuo

Chair: INUMARU, Kei (11:20~12:00)

- \* 11:10-11:20: interval for laptop PC connection.(2G1-15, 2G1-16, 2G1-17, 2G1-18)
- 2G1-15** Photocatalytic reduction of nitrobenzene over dihydroxynaphthalene-modified Pt-TiO<sub>2</sub> under irradiation of visible light (Osaka Univ.) SETO, Hiroki; KAMEGAWA, Takashi; YAMASHITA, Hiromi
- 2G1-16** Correlation between photoluminescence properties and photocatalytic activities of the Pt complex supported onto mesoporous silica materials (Osaka Univ.) MORI, Kohsuke; WATANABE, Kentaro; YAMASHITA, Hiromi
- 2G1-17** Photocatalytic production of hydrogen peroxide from water and dioxygen using mesoporous silica-alumina supporting 2-phenyl-4-(1-naphthyl) quinolinium ion and iridium catalysts (Osaka Univ.; ALCA, JST) NOMURA, Akifumi; YAMADA, Yusuke; FUKUZUMI, Shunichi
- 2G1-18** Acceleration Effect of Mononuclear Cu Complex on Photocatalytic Oxygenation of *p*-Xylene Catalyzed by 9-Mesityl-10-Methylacridinium Ion (Osaka Univ.; ALCA, JST) MAEDA, Kazuki; YAMADA, Yusuke; FUKUZUMI, Shunichi

## Monday, March 26, PM

Chair: SHISHIDO, Tetsuya (13:10~14:00)

- \* 13:00-13:10: interval for laptop PC connection.(2G1-26, 2G1-27, 2G1-28, 2G1-29)
- 2G1-26** Photo-excited carrier transfer from semiconductor photoelectrode to metal oxide cocatalyst for oxygen evolution studied by in situ XAFS (Keio Univ.) YOSHIDA, Masaaki; YOMOGIDA, Takumi; HATA, Takahisa; TOYOSHIMA, Ryo; NITTA, Kiyofumi; KATO, Kazuo; MASUDA, Takuya; NITANI, Hiroaki; ABE, Hitoshi; TAKAKUSAGI, Satoru; URUGA, Tomoya; ASAKURA, Kiyotaka; UOSAKI, Kohei; KONDOH, Hiroshi
- 2G1-27** Relation between crystallinity of photocatalysts and recombination kinetics of photogenerated charge carriers (Toyota technological institute) OHKAWA, Masahiro; INUKAI, Manabu; YAMAKATA, Akira; KAMIYA, Itaru
- 2G1-28** Photoexcited-electron migration to precious metal-cocatalysts on photocatalysts for water splitting by IR spectroscopy (The Univ. of Tokyo) LU, Xuwang; BANDARA, Athula; KATAYAMA, Masao; YAMAKATA, Akira; KUBOTA, Jun; DOMEN, Kazunari
- 2G1-29** Charge-Carrier Dynamics in Nitrogen-Doped TiO<sub>2</sub> Powder Studied by Femtosecond Time-Resolved Diffuse Reflectance Spectroscopy (Toyota Central R&D Labs., Inc.) YAMANAKA, Ken-ichi; MORIKAWA, Takeshi

Chair: SAYAMA, Kazuhiro (14:10~14:40)

- \* 14:00-14:10: interval for laptop PC connection.(2G1-32, 2G1-33, 2G1-34)
- 2G1-32** Correlation between activity and structure of atomically dispersed vanadium oxide on silica (Graduate School of Engineering, Kyoto Univ.) TAKAYAMA, Yoshihisa; TERAMURA, Kentaro; SATO, Toru; SHISHIDO, Tetsuya; TANAKA, Tunehiro
- 2G1-33** Photooxidation of amine and alcohol by niobium oxide (Graduate School of Engineering, Kyoto Univ.) OHNO, Yasuhiro; FURUKAWA, Shinya; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tunehiro
- 2G1-34** Effects on reaction temperature of photo-SCR with NH<sub>3</sub> on a TiO<sub>2</sub> photocatalyst (Graduate School of Engineering, Kyoto Univ.) YAMAMOTO, Akira; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tunehiro

## Tuesday, March 27, AM

### photocatalyst

Chair: IZUMI, Yasuo (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3G1-01, 3G1-02, 3G1-03, 3G1-04, 3G1-05, 3G1-06)
- 3G1-01** The study of high efficient layered FTO/WO<sub>3</sub>/BiVO<sub>4</sub> photoelectrode for producing hydrogen from water (Tokyo Univ. of Science, AIST) FUJIMOTO, Issei; SAITO, Rie; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro
- 3G1-02** Relationship between Photoelectrochemical properties of CuGaSe<sub>2</sub> water-splitting photocathode and its structure (Department of Engineering, Univ. of Tokyo) MORIYA, Makoto; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari
- 3G1-03** Photoelectrochemical properties of iron based pn junction photoelectrodes (NIMS) CAO, Junyu; YE, Jina
- 3G1-04** Improvement of photoelectrochemical performance of SrNbO<sub>2</sub>N as a photoanode for water splitting (The Univ. of Tokyo) URABE, Haruki; SIRITANARATKUL, Bhavin; MAEDA, Kazuhiro; DOMEN, Kazunari
- 3G1-05** Plasmon-Enhanced Photocatalytic Activity of (AgIn)<sub>x</sub>Zn<sub>2(1-x)</sub>S<sub>2</sub> Nanoparticles Hybridized with Au Particles (Graduate School of Engineering, Nagoya Univ.) TAKAHASHI, Takuya; OKAZAKI, Kenichi; KUDOU, Akihiko; KUWABATA, Susumu; TORIMOTO, Tsukasa
- 3G1-06** Preparation and characterization of CuBi<sub>2</sub>O<sub>4</sub> complex oxide (Kitakyushu National College of Technology) DOI, Akane; OBATA, Kenji; MATSUSHIMA, Shigenori

Chair: MORIKAWA, Takeshi (10:10~11:20)

- \* 10:00-10:10: interval for laptop PC connection.(3G1-08, 3G1-09, 3G1-11, 3G1-13)
- 3G1-08** Photocatalytic activity of crystalline carbon nitride for water splitting (Faculty of Eng., The Univ. of Tokyo) HAM, Yeilin; MAEDA, Kazuhiro; TAKANABE, Kazuhiro; DOMEN, Kazunari
- 3G1-09** Photocatalytic Oxidation Mechanism of Nitrogen oxide with Graphite-like Carbon Nitride (g-C<sub>3</sub>N<sub>4</sub>) (AIST) SANO, Taizo; HIRAKAWA, Tsutomu; NEGISHI, Nobuaki; TAKEUCHI, Koji
- 3G1-11** Tin oxide surface modification effect on the photocatalytic activity of TiO<sub>2</sub> (Graduate School of Science and Technology, Kinki Univ.) JIN, Qiliang; FUJISHIMA, Musashi; TADA, Hiroaki
- 3G1-13** Fabrication of Visible Light Sensitive Photocatalytic Ta<sub>3</sub>N<sub>5</sub> Crystal Layers Using Flux-Grown NaTaO<sub>3</sub> Crystal Layers as a Precursor Material (Shinshu U.; Tohoku U.; Tokyo Tech.) SUZUKI, Sayaka; TESHIMA, Katsuya; MORIYA, Yosuke; MARUYAMA, Shingo; TAKATA, Tsuyoshi; YUBUTA, Kunio; ITO, Shun; MATSUMOTO, Yuji; SHISHIDO, Toetsu; DOMEN, Kazunari; OISHI, Shuji

Chair: SAITO, Kenji (11:30~12:10)

- \* 11:20-11:30: interval for laptop PC connection.(3G1-16, 3G1-17, 3G1-18, 3G1-19)
- 3G1-16** Photocatalytic H<sub>2</sub>O<sub>2</sub> Production from Ethanol/O<sub>2</sub> System Using TiO<sub>2</sub> Loaded with Au-Ag Bimetallic Alloy Nanoparticles (Osaka Univ.) TSUKAMOTO, Daijiro; SHIRO, Akimitsu; SHIRAI, Yasuhiro; HIRAI, Takayuki
- 3G1-17** Development of Visible Light-Responsive Metal-Organic Framework Photocatalyst (Osaka Prefecture Univ.; Sumitomo-Chemical Co., Ltd.) TOYAO, Takashi; SAITO, Masakazu; HORIUCHI, Yu; IWATA, Masatoshi; HIGASHIMURA, Hideyuki; MATSUOKA, Masaya
- 3G1-18** Photocatalytic degradation of chlorinated organic compounds on platinum-ion-doped TiO<sub>2</sub> (Yamaguchi Univ. Graduate School of Science and Engineering) SEYAMA, Tomoaki; FUJIWARA, Yuhei; ADACHI, Kent; YAMAZAKI, Suzuko
- 3G1-19** Photoinduced electron transfer from nitrogen-doped Ta<sub>2</sub>O<sub>5</sub> to adsorbed Ru complex (2) (Toyota Central R&D Labs., Inc.) YAMANAKA, Ken-ichi; SATO, Shunsuke; IWAKI, Masayo; KAJINO, Tsutomu; MORIKAWA, Takeshi

## Tuesday, March 27, PM

Chair: TAKATA, Tsuyoshi (13:20~14:20)

- \* 13:10-13:20: interval for laptop PC connection.(3G1-27, 3G1-29, 3G1-31)
- 3G1-27** Photocatalytic and photoelectrochemical properties of K<sub>3</sub>M<sub>3</sub>B<sub>2</sub>O<sub>12</sub> (M = Nb and Ta) doped with Rhodium under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) JIA, Qingxin; SAITO, Kenji; KUDO, Akihiko
- 3G1-29** Arsenic Detoxification by TiO<sub>2</sub> Photo-catalyst (Nippon Sheet Glass Co.Ltd) NAKAMURA, Koichiro; YAMAUCHI, Hiroshi
- 3G1-31** New theory for the origin of photooxidation reaction under visible light irradiation on N-doped TiO<sub>2</sub> (National Institute for Materials Science; JST PRESTO) UMEZAWA, Naoto; YE, Jinhua

Chair: KAMEGAWA, Takashi (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(3G1-34, 3G1-35, 3G1-36, 3G1-37, 3G1-38, 3G1-39)

- 3G1-34** Photocatalytic mineralization of organic compounds over tungsten (VI)oxide-adsorbent composites under visible light irradiation (Kinki Univ.) SAKAGUCHI, Satoshi; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3G1-35** Decomposition of VOC over indium oxide photocatalyst responding to visible light (Kinki Univ.) SASAKI, Yasutomo; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3G1-36** Preparation of gold nanoparticles supported on titanium oxide powder prepared using multi-step photodeposition method and photoinduced hydrogen formation under irradiation of visible light (Kinki Univ.) TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3G1-37** Synthesis of mesoporous WO<sub>3</sub>-TiO<sub>2</sub> composites and their photocatalytic properties (Hiroshima Univ. Graduate School of Eng.) SUGIMOTO, Takashi; SAKO, Kaori; INUMARU, Kei
- 3G1-38** Evaluation of alkaline resistance of a metal element added WO<sub>3</sub> photocatalyst and its photocatalytic activity (Tokyo Univ. of Science, AIST) WADA, Marie; KONISHI, Yoshinari; WANG, Nini; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro
- 3G1-39** Improvement of WO<sub>3</sub> photocatalytic activity for Fe<sup>3+</sup> reduction and O<sub>2</sub> evolution (Tokyo Univ. of Science, AIST) MAJIMA, Yu; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro

Chair: KOMINAMI, Hiroshi (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(3G1-41, 3G1-42, 3G1-43, 3G1-44, 3G1-45, 3G1-46)
- 3G1-41** Substitutional effect of A site in CaTa<sub>4</sub>O<sub>11</sub> on photocatalytic activity for overall water splitting (Faculty of Science, Tokyo Univ. of Science) MATSUI, Motoki; TAKAI, Toru; ISHIHARA, Syogo; JIA, Qingxin; SAITO, Kenji; KUDO, Akihiko
- 3G1-42** Overall water splitting over KNb<sub>3</sub>O<sub>8</sub> photocatalyst prepared by various synthetic methods (Faculty of Science, Tokyo Univ. of Science) TAKAI, Toru; ISHIHARA, Shogo; JIA, Qingxin; SAITO, Kenji; KUDO, Akihiko
- 3G1-43** Loading effect of Au cocatalyst on water splitting over metal oxide photocatalysts (Faculty of Science, Tokyo Univ. of Science) MIURA, Mariko; WATO, Tomoaki; SAITO, Kenji; KUDO, Akihiko
- 3G1-44** Effects of cocatalysts loaded on tungsten oxide photocatalyst on the oxidative energy storage abilities (IIS, Univ. of Tokyo) PARK, Susie; YANG, Fei; SAKAI, Nobuyuki; TATSUMA, Tetsu
- 3G1-45** Effects of changing the mixing ratio of starting materials on water-splitting activity of oxysulfide photocatalyst La<sub>5</sub>Ti<sub>2</sub>MS<sub>2</sub>O<sub>7</sub>(M=Cu,Ag) (The Univ. of Tokyo) NASU, Koki; MORIYA, Yosuke; KUBOTA, Jun; DOMEN, Kazunari
- 3G1-46** Effects of surface acid treatments on LaTiO<sub>2</sub>N photocatalytic activity for water splitting (The Univ. of Tokyo) MATSUKAWA, Michinori; MORIYA, Yosuke; KUBOTA, Jun; DOMEN, Kazunari

Chair: TAKATA, Tsuyoshi (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(3G1-48, 3G1-49, 3G1-50, 3G1-51)
- 3G1-48** The effects of anisotropy of Cu-adsorbed ZnO nanocrystallines and Cu ion site structure on CO photo-PROX reactivity (Chiba Univ.) YOSHIDA, Yusuke; ITOI, Takaomi; IZUMI, Yasuo
- 3G1-49** Effect of amount of adsorbed ammonia on platinum-loaded TiO<sub>2</sub> on photocatalytic oxidation of aqueous ammonia (Tokai Univ.) SHIBUYA, Satoshi; ISHIHARA, Yoshimi; MIKAMI, Ikko
- 3G1-50** Fabrication of Photocatalysts by Anodization of Titanium Alloy (Tohoku Univ.) MIZUKOSHI, Yoshiteru; OHMURA, Kazuyuki; MASAHASHI, Naoya
- 3G1-51** Remediation of drugs by TiO<sub>2</sub>/O<sub>3</sub> (Meisei Univ., GESC) OOTSU, Tomohiko; HIDANO, Yasuyuki; KOIKE, Takayoshi; OYAMA, Toshiyuki; HIDAKA, Hisao

## Room G2

4th Bldg. Independence Wing D412

### Coordination Chemistry, Organometallic Chemistry

Sunday, March 25, AM

Chair: NORO, Shinichiro (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1G2-01, 1G2-02, 1G2-04, 1G2-05, 1G2-06)
- 1G2-01** Crystal Structures and Conductive Properties of Mixed-Valence Coordination Polymers with Octamethylene-Dithiocarbamate (Kinki Univ.) ANMA, Haruhiko; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1G2-02\*** Carrier Transport Properties of Ferroelectric Coordination Polymers (Kinki Univ.; Osaka Univ.) OKUBO, Takashi; TOKUGAWA, Kenta; ANMA, Haruhiko; SEKI, Shu; SAEKI, Akinori; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi

- 1G2-04** One-step Hydroxylation Reaction of Benzene Using the Hydrophilic Copper(II) Complex with Bis-benzimidazolymethane Ligand (Nagoya Institute of Technology) KAMIYA, Miki; KAJITA, Yuji; MASUDA, Hideki
- 1G2-05** Synthesis of new dicopper complex with different coordination environments toward the pMMO active center (Nagoya Institute of Technology) KANEHIRA, Yasuyuki; KAJITA, Yuji; MASUDA, Hideki
- 1G2-06** Mechanism of Catalytic Four-Electron Reduction of Dioxygen by a Copper(II) Complex with an Intramolecular Hydrogen Bonding Site (Osaka Univ.; ALCA, JST) KAKUDA, Saya; OHKUBO, Kei; PETERSON, Ryan L.; KARLIN, Kenneth D.; FUKUZUMI, Shunichi

Chair: KUME, Shoko (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1G2-08, 1G2-09, 1G2-10, 1G2-11, 1G2-12, 1G2-13)
- 1G2-08** Chiral-discriminating ability of chiral ethylenediamine derivative/metal complex toward free amino acids evaluated by ESIMS. (Kansai Univ.) NAKAKOJI, Takashi; SATO, Hirofumi; KAWAASAKI, Hideya; ARAKAWA, Ryuichi; SHIZUMA, Motohiro
- 1G2-09** The synthesis and properties of the linear trinuclear Cu(II) complexes of porphyrin analogue (Res.Inst.Kobe Univ) TSUJIMURA, Yukinori
- 1G2-10** Preparations and Crystal Structures of One-Dimensional Coordination Polymers of Paddle-Wheel Cu(II) Complexes Bearing Polar Ligands (IMRAM, Tohoku Univ.) TAKAHASHI, Kiyonori; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 1G2-11** Evaluation of Adsorption of CO<sub>2</sub> in Porous Copper Complexes Bridged by 1,3-Bis(4-pyridyl)propane Ligand (Graduate School of Environmental Science, Hokkaido Univ.; Research Institute for Electronic Science, Hokkaido Univ.; PRESTO, JST) FUKUHARA, Katsuo; NORO, Shin-ichiro; KUBO, Kazuya; NAKAMURA, Takayoshi
- 1G2-12** Construction of "Fake Molecule" Using Werner-type Cu(II)/Metal Complexes (Hokkaido Univ.; PRESTO, JST) NORO, Shin-ichiro; KUBO, Kazuya; NAKAMURA, Takayoshi
- 1G2-13** Photo-regulated metal binding to self-assembled monolayer of azobenzene ligand on gold (Aoyama Gakuin Univ.; Nara Institute of Science and Technology) KODAMA, Daisuke; TAKAHASHI, Isao; HIROTA, Shun; HASEGAWA, Miki

Chair: OKUBO, Takashi (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(1G2-15, 1G2-17, 1G2-19)
- 1G2-15\*** Fabrication of Metal Nanoparticles/Metal-Organic Frameworks Nanocomposites (FIRST, Konan Univ.) TSURUOKA, Takaaki; KAWASAKI, Hiroko; NAWAFUNE, Hidemi; AKAMATSU, Kensuke
- 1G2-17\*** Dynamic Intramolecular Electron Transfer Controlled by Rotation of Coordinated Pyrimidine on Copper(I) (The Univ. of Tokyo) KUME, Shoko; NISHIHARA, Hiroshi
- 1G2-19\*** Preparation and Properties of Vapochromic Ionic Liquids Containing Metal Complex Cations (Kobe Univ.) FUNASAKO, Yusuke; MOCHIDA, Tomoyuki

### Sunday, March 25, PM

Chair: HITOMI, Yutaka (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(1G2-33, 1G2-35, 1G2-36, 1G2-37, 1G2-38)
- 1G2-33\*** Activation Mechanism of Peroxides by Copper Complexes (Osaka Univ.) TANO, Tetsuro; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 1G2-35** Effects of Formation Process of Complexes Using Unsymmetrical Tripodal Ligands (Osaka City Univ.) TAMURA, Teppei; MORIMOTO, Yoshiko; TACHI, Yoshimitsu
- 1G2-36** Synthesis and Characterization of Mononuclear Copper Active-Oxygen Complexes with tern Ligand Containing Bulky Substituents (Osaka Univ.) KOBAYASHI, Yuki; NOMURA, Takashi; KUBO, Minoru; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; OGURA, Takashi; ITOH, Shinobu
- 1G2-37** Synthesis and crystal structures of diverse Cu(I) ethylene complexes of 3,6-bis(2-pyridyl)-1,2,4,5-tetrazine (Research Institute for Science and Technology, Kinki Univ.; Department of Chemistry, Kinki Univ.) MAEKAWA, Masahiko; MIYAZAKI, Takeshi; OKUBO, Takashi; KURODA, Takayoshi; MUNAKATA, Megumu
- 1G2-38\*** Various network formation composed of CuI and Td-symmetry ligands. (Pohang Univ. of Science and Technology) KITAGAWA, Hakuba; KAWANO, Masaki

Chair: KURODA, Takayoshi (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(1G2-40, 1G2-42, 1G2-44, 1G2-45)
- 1G2-40\*** Enhancement of magnetic bistability by iodine inclusion in a Fe(II)Pd(II) porous coordination polymer (Kyoto Univ.) OHTANI, Ryo; YONEDA, Ko; OHBA, Masaaki; HORI, Akihiro; KITAO, Shinji; SETO, Makoto; KITAGAWA, Susumu
- 1G2-42\*** Highly Selective Alkane Hydroxylation Reaction Catalyzed by Iron Complexes Having an Amidate Coordination (Doshisha Univ.) ARAKAWA, Kengo; HITOMI, Yutaka; KODERA, Masahito
- 1G2-44** Grain Size-dependence of Guest Responsivity of Porous Coordination

Polymers (Kyushu Univ.) MISHIMA, Akio; YONEDA, Ko; OHTANI, Ryo; KITAGAWA, Susumu; KOSHIYAMA, Tomomi; OHBA, Masaaki

**1G2-45** Synthesis of Ferrous Flexible Porous Coordination Polymers and Reversible Host-Guest Charge Transferring Behavior (Kyoto Univ.) SUGIMOTO, Masayuki; HORIKE, Satoshi; KITAGAWA, Susumu

Chair: ITOH, Shinobu (16 : 40~17 : 40)

\* 16:30-16:40: interval for laptop PC connection.(1G2-47, 1G2-48, 1G2-49, 1G2-51, 1G2-52)

**1G2-47** Arene Hydroxylation by Mononuclear Iron(III) Complex with Hydrogen Peroxide as an Oxidant (Doshisha Univ.) HITOMI, Yutaka; SAITOU, Sachi; ARAKAWA, Kengo; KODERA, Masahito

**1G2-48** Synthesis, characterization, and substrate oxidation ability of peroxodiiron(III) complex with a carboxylate-containing dinucleating ligand H<sub>2</sub>BPG<sub>2</sub>E (Doshisha Univ.; Bioinorganic chemistry and Chemical Biology Laboratory) YASUNAGA, Tomohiro; KODERA, Masahito; HITOMI, Yutaka

**1G2-49\*** Study on a Useful Tanabe-Sugano Diagram for Controlling a Spin Crossover Phenomenon (Kagawa Univ.; Kwansei Gakuin Univ.; Okayama Univ. of Sci.; Tohoku Univ.) ISHII, Tomohiko; WATANABE, Ryosuke; MATSUSHIMA, Ryo; IWAKURA, Masanori; OGASAWARA, Kazuyoshi; SAKANE, Genta; YAMASHITA, Masahiro

**1G2-51** Spectroscopic characterization for the conversion of peroxodiiron(III) intermediate to trioxodiiron(IV) active species (Doshisha Univ.) KAWAHARA, Yuka; NOMURA, Takashi; OGURA, Takashi; KOBAYASHI, Yoshio; HITOMI, Yutaka; KODERA, Masahito

**1G2-52** Activation of Hydrogen Peroxide by Mononuclear Nonheme Iron (III)-Amidate Complex in Aqueous Media (Doshisha Univ.) HIRAMATSU, Kazuaki; ARAKAWA, Kengo; HITOMI, Yutaka; KODERA, Masahito

Chair: HAYAMI, Shinya (17 : 50~18 : 50)

\* 17:40-17:50: interval for laptop PC connection.(1G2-54, 1G2-55, 1G2-56, 1G2-57, 1G2-58, 1G2-59)

**1G2-54<sup>#</sup>** Coexistence of Photo-Induced linkage Isomerism and Order-Disorder Dielectric Phase Transition in a 2D Perovskite-Type Layered Complex: (CH<sub>3</sub>NH<sub>3</sub>)Na[Fe(CN)<sub>5</sub>NO]·H<sub>2</sub>O. (IGSES, Kyushu Univ.) YAO, Zishuo; KANEGAWA, Shinji; KANG, Soonchul; SATO, Osamu

**1G2-55** Magnetic Properties of Grid-type Fe<sub>4</sub> Spin-Crossover Cluster Exhibiting Various Spin State Arrangement (Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) MIYAHARA, Kenta; KANEGAWA, Shinji; KANG, Soonchul; SATO, Osamu

**1G2-56** Synthesis and Characterization of Novel C<sub>3</sub>-type Trinuclear Iron Complex (Nagoya Institute of Technology) OGAWA, Takahiko; KAJITA, Yuji; MASUDA, Hideki

**1G2-57** Synthesis and characterization of Fe(III) complex with high selectivity for nitric oxide (Nagoya institute of technology Masuda laboratory) ISHIKAWA, Mai; YANO, Takuma; OZAWA, Tomohiro; MASUDA, Hideki

**1G2-58** Synthesis and reactivity of FeII complexes with SNS pincer type ligand (Department of Frontier Materials, Nagoya Institute of Technology) SUZUKI, Tatsuya; MATSUMOTO, Jun; KAJITA, Yuji; MASUDA, Hideki

**1G2-59** Crystal Structure and Physical Properties of a New Iron(II)-Verdazyl Radical Complex: Elucidation of Anomalous Behavior of 57Fe Moessbauer Spectra Induced by the Dynamics of Crystal Water (Graduate School of Arts and Sciences, The Univ. of Tokyo) KAMEBUCHI, Hajime; OKAZAWA, Atsushi; ENOMOTO, Masaya; HARADA, Jun; OGAWA, Keichiro; OKUBO, Masashi; TRAIN, Cyrille; VERDAGUER, Michel; MARUTA, Goro; TAKEDA, Sadamu; KOJIMA, Norimichi

## Monday, March 26, AM

Chair: KOBAYASHI, Atsushi (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2G2-01, 2G2-02, 2G2-03, 2G2-05)

**2G2-01** Structures and External-Field-Response of Cyanide-Bridged [Fe<sub>3</sub>] Clusters. (IMCE, Kyushu Univ.) KANG, Soonchul; KANEGAWA, Shinji; SATO, Osamu

**2G2-02** Synthesis and Magnetic Properties of Anionic Fe(III) Spin-crossover Complexes Aiming to Use as Building Blocks for Multi-functional Materials (Institute for Materials Chemistry and Engineering, Kyushu Univ.) KANEGAWA, Shinji; KANG, Soonchul; SATO, Osamu

**2G2-03<sup>#</sup>** Ligand Tautomerism-Coupled Multi-Step Spin Transition in Ferric Complex with LIESST (IGSES, Kyushu Univ.) LI, Zhao-yang; KANG, Soonchul; KANEGAWA, Shinji; SATO, Osamu

**2G2-05\*** Development of thermochromic ionic liquids of iron thiolate complexes (Kobe Univ.) INAGAKI, Takashi; TAKAHASHI, Kazuyuki; MOCHIDA, Tomoyuki; SAKURAI, Takahiro; OHTA, Hitoshi

Chair: KANEGAWA, Shinji (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2G2-08, 2G2-10, 2G2-12)

**2G2-08\*** Photo-induced Hydrogen Evolution of 3d-Transition Metal Complexes Possessing Non-innocent Ligands with PCET Ability (Hokkaido Univ., Faculty of Science) MATSUMOTO, Takeshi; UENO, Syo; YANO, Hirokazu; WAKIZAKA, Masanori; KOBAYASHI, Atsushi; CHANG, Hchol; KATO, Masako

**2G2-10\*** Formation of a non-heme iron(IV)-oxo complex by one-electron

reduction of an iron(III)-hydroperoxo complex (Osaka Univ.; ALCA, JST; Ewha Womans Univ.) MORIMOTO, Yuma; NAM, Wonwoo; FUKUZUMI, Shunichi

**2G2-12\*** Magnetic properties of multistable iron grids (Univ. of Tsukuba) MATSUMOTO, Takuto; SHIGA, Takuya; OSHIO, Hiroki

Chair: KOJIMA, Takahiko (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2G2-15, 2G2-16, 2G2-17, 2G2-18, 2G2-19, 2G2-20)

**2G2-15** Effect of proton acceptors on formation of a non-heme iron(IV)-oxo complex using one-electron oxidants and water as an oxygen source (Osaka Univ.; ALCA, JST) NISHIDA, Yusuke; MORIMOTO, Yuma; FUKUZUMI, Shunichi

**2G2-16** Development of new polycyano complexes with multidentate capping ligands and investigation of their molecular assembly (Univ. of Tsukuba) SHIGA, Takuya; OSHIO, Hiroki

**2G2-17** Magnetic Properties of Mn-Substitution Effect in an Iron Mixed Valence Complex (Tokyo Univ. of Science, The Univ. of Tokyo) IDA, Hiroichi; ENOMOTO, Masaya; OKAZAWA, Atsushi; KOJIMA, Norimichi

**2G2-18** Large Hyperfine Magnetic Field of Linear Two-Coordinate Fe Complexes (2) (RIKEN) KOBAYASHI, Yoshio; ITO, Mikinao; MATSUO, Tsukasa; MORI, Masaki; NAKAMURA, Jin; OKAZAWA, Atsushi; KOJIMA, Norimichi; TAMAO, Kohei

**2G2-19** Synthesis and Catalytic Oxidation Activity of Transition Metal Complexes Supported by β-Diketiminato Ligand Containing Phenol Substituents (Osaka Univ.) TAKAICHI, June; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

**2G2-20** Synthesis and Properties of the nano-scale structures of spin crossover complexes (Osaka Univ.) AKETA, Naoki; TANAKA, Daisuke; TANAKA, Hirohumi; TOHYAMA, Hirotaka; INOSE, Tomoko; AKAI, Tomoki; TAMAKI, Takashi; TAJIRI, Hiroh; SAKATA, Osami; OGAWA, Takuji

## Monday, March 26, PM

Chair: FURUKAWA, Shuhei (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2G2-28, 2G2-29, 2G2-30, 2G2-31, 2G2-32, 2G2-33)

**2G2-28** Layer-By-Layer Fabrication of Rod-Shaped Multinuclear Complex on Electrodes and its Permeability of Ions/Molecules (Chuo Univ.) SUZUKI, Takashi; HAGA, Masa-aki

**2G2-29** Fabrication of Fe complex nanowire with spin-crossover property on surface and its electrochemical behavior (Institute of Science and Engineering, Chuo Univ.) KUROIWA, Kazuki; HAGA, Masa-aki

**2G2-30** Synthesis of Iron complexes supported by the 2-pyrrolidinylmethylamine ligand system for an asymmetric catalyst and that reactivity (Osaka City Univ.) MIZOGUCHI, Kohei; MORIMOTO, Yoshiki; TACHI, Yoshimitsu

**2G2-31** The novel tripod complex with bis-pyridylthio-pyridylketyl-methanide containing a M-C bond (Osaka-City Univ. Advanced School of Science, and OCARINA) KINOSHITA, Isamu; NAKATOU, Ayami; MASUDA, Yu; NISHIOKA, Takanori; HIROTSU, Masakazu

**2G2-32** Syntheses of Iron-Sulfur and Iron-Oxo-Sulfur Cluster from Mesityliron Thiolate Complexes (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) HASHIMOTO, Takayoshi; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**2G2-33** Counterion Dependence of the Spin-crossover Transition Temperature of Iron(II) Tetrakis(2-pyridyl)methane Complexes (The Univ. of Electro-Communications) HIROSAWA, Naoki; ISHIDA, Takayuki

Chair: ISHIDA, Takayuki (14 : 40~15 : 50)

\* 14:30-14:40: interval for laptop PC connection.(2G2-35, 2G2-36, 2G2-37, 2G2-38, 2G2-40)

**2G2-35** Synthesis and Application of Novel Magnetic Ionic-liquids (Kagawa Univ.) TAKAGI, Yumiko; OHNISHI, Hirokuni; KUSUNOKI, Yoriko

**2G2-36** Synthesis and structure of μ<sub>3</sub>-O bridged trinuclear iron complexes consisted by furoic acid derivative (JASRI/Spring-8; Kinki Univ.) SUGIMOTO, Kunihisa; YASUDA, Nobuhiro; MASUDA, Takayuki; KURODA-SOWA, Takayoshi; FUJIWARA, Akihiko

**2G2-37** Stabilization of Dinuclear Iron Carbonyl Complexes within a Self-Assembled Hollow Cage (Grad. School of Engineering, The Univ. of Tokyo; CREST) MIYAMOTO, Yumi; HORIUCHI, Shinnosuke; MURASE, Takashi; FUJITA, Makoto

**2G2-38\*** The Evolution of PCP Crystals Studied by Dual Approaches in Experiments and Thermodynamic Control (JST ERATO Kitagawa Integrated Pores Project) UMEMURA, Ayako; FURUKAWA, Shuhei; KITAGAWA, Susumu

**2G2-40\*** Emergence of bistable porosity by crystal downsizing of a dynamic coordination polymer (JST ERATO Kitagawa Integrated Pores Project) SAKATA, Yoko; FURUKAWA, Shuhei; KITAGAWA, Susumu

Chair: HAGA, Masaaki (16 : 00~16 : 40)

\* 15:50-16:00: interval for laptop PC connection.(2G2-43, 2G2-45)

**2G2-43\*** Hierarchical coordination architecture fabricated by spatially-controlled self-assembly (Kyoto Univ.) FURUKAWA, Shuhei; REBOUL, Julien; KITAGAWA, Susumu

**2G2-45\*** Rh porphyrin-based anode catalysts for stationary PEMFCs

(AIST) YAMAZAKI, Shin-ichi; YAO, Masaru; SIROMA, Zyun; FUJIWARA, Naoko; IROI, Tsutomu

Chair: NISHIOKA, Takanori (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(2G2-48, 2G2-50, 2G2-51)  
**2G2-48\*** Bifunctional metalloporphyrin catalyst for carbon dioxide fixation (Okayama Univ.) EMA, Tadashi; MIYAZAKI, Yuki; KOYAMA, Shohei; YANO, Yuya; KORENAGA, Toshinobu; SAKAI, Takashi  
**2G2-50** The characteristics of halosulfite ion having an alkaline earth metal crown ether complex as the counter cation. (Fukuoka Univ. of Education; Kyoto Univ.) NAGASAWA, Isoroku; SHIGEOKA, Ai; KITAGAWA, Hiroshi  
**2G2-51** Synthesis of ion conducting composite of porous coordination polymer and lithium salt. (Kyoto Univ.) KAMITSUBO, Yusuke; HORIKE, Satoshi; FUKUSHIMA, Tomohiro; INUKAI, Munehiro; KITAGAWA, Susumu

## Tuesday, March 27, AM

### Ti, Zr

Chair: OISHI, Masataka (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3G2-01, 3G2-02, 3G2-03, 3G2-04, 3G2-05, 3G2-06)  
**3G2-01** Synthesis and properties of tetrabenzoporphyrin titanyl complex (Faculty of Engineering, Utsunomiya Univ.) MAKIHATA, Daishi; OBA, Toru; ITO, Satoshi  
**3G2-02** Synthesis and Reactivity of Dialkyl- and Diamidotitanium Dinuclear Complexes Bridged by Imido Ligands (Graduate School of Engineering Science, Osaka Univ.) NAGAE, Haruki; TSURUGI, Hayato; MASHIMA, Kazushi  
**3G2-03\*** Transformation of Zirconacyclopentadienes to 4- or 9-Membered Rings with o-Quinones (Catalysis Research Center, Hokkaido Univ.) LI, Haijun; SONG, Zhiyi; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu  
**3G2-04** Novel C-C Bond Cleavage Reactions on Titanocene (Catalysis Research Center, Hokkaido Univ.) MIZUKAMI, Yuki; SONG, Zhiyi; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu  
**3G2-05\*** Development of Double Homologation Reaction Using Zirconium (Catalysis Research Center, Hokkaido Univ.) WANG, Yanqing; LI, Shi; REN, Shenyong; SONG, Zhiyi; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu  
**3G2-06** Synthesis of a Zirconium Complex with an [OSSO]-type bis(*o*-trimethylsilylphenolato) Ligand Bearing a *trans*-Cyclooctane Ring and Alkene Polymerization (Saitama Univ.) KAWAUCHI, Fumihiko; TODA, Tomoyuki; NAKATA, Norio; ISHII, Akihiko

Chair: ISHIDA, Yutaka (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3G2-08, 3G2-09, 3G2-10, 3G2-11, 3G2-12, 3G2-13)  
**3G2-08** Synthesis of Zirconium Complex with an [OSSO]-type Bis(*o*-phenylphenolato) Ligand and the Catalytic Activity for Olefin Polymerizations (Saitama Univ.; RIKEN ASI) TODA, Tomoyuki; NAKATA, Norio; ISHII, Akihiko; MATSUO, Tsukasa; TAMAO, Kohei  
**3G2-09** Ortho C-H bond activation of pyridine derivatives by Zr-Ir polyhydrido complexes (Tokyo Institute of Technology) KIMURA, Shunichi; OISHI, Masataka; SUZUKI, Hiroharu  
**3G2-10** The reaction of triazacyclononane iron chlorido complexes with several hydride reagents. (Tokyo Institute of Technology) ENDOU, Tougo; OISHI, Masataka; SUZUKI, Hiroharu

### Group 3 Metals

- 3G2-11** Rare-Earth-Catalyzed cis-1,4 selective copolymerization of butadiene with ethylene. (RIKEN; Saitama Univ.) YAMAMOTO, Atsushi; NISHIURA, Masayoshi; HOU, Zhaomin  
**3G2-12\*** Unique Reactivity of Tetranuclear Rare-Earth Methylidene Complexes bearing Cyclopentadienyl Ligands (RIKEN) LI, Ting-ting; CHENG, Jianhua; NISHIURA, Masayoshi; HOU, Zhaomin  
**3G2-13** Propargylic C-H Bond Activation of Internal Alkylalkynes by an Alkyltitanium Complex with a Dianionic Ene-diamido Ligand (Graduate School of Engineering Science, Osaka Univ.) NAGAE, Haruki; KANEKO, Hiroshi; TSURUGI, Hayato; MASHIMA, Kazushi

Chair: MASHIMA, Kazushi (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(3G2-15)  
**3G2-15\*** Special Lecture Aspects of Rare-Earth Metal Alkyl Chemistry (Universitaet Tuebingen, Germany) Reiner ANWANDER

## Asian International Symposium -Coordination Chemistry, Organometallic Chemistry, Inorganic Chemistry-

Tuesday, March 27, PM

Chair: KURODA, Kazuyuki and NAKAZAWA, Hiroshi (13 : 00~14 : 10)

- 3G2-25\*** Keynote Lecture Thermolabile Groups in Metal-Organic Frameworks (MOFs) (Massey Univ., New Zealand) TELFER, Shane (13:00~13:30)  
**3G2-28\*** Invited Lecture Soft Optical Materials Composed of Organometallic Rotaxanes (National Tsing Hua Univ., Taiwan; Tokyo Institute of Technology; RIKEN) HORIE, Masaki; WU, Tiendi; SUZAKI, Yuji; ABE, Tomoko; OSAKADA, Kohtaro; HASHIZUME, Daisuke (13:30~13:50)  
**3G2-30\*** Invited Lecture Porous Coordination Networks Composed of a Newly Designed Multi-interactive Ligand (AMS, POSTECH) YAKIYAMA, Yumi (13:50~14:10)

Chair: OSHIO, Hiroki and MASUDA, Hideki (14 : 20~15 : 40)

- 3G2-33\*** Keynote Lecture Towards Conducting Metal-Organic Frameworks (Univ. Sydney, Australia) D' ALESSANDRO, Deanna; KANGA, Jehan; USOV, Pavel; FABIAN, Ces (14:20~14:50)  
**3G2-36\*** Keynote Lecture Assembly Chemistry and Magneto-Structural Correlations of 3d-4f Molecular Nanomagnets (Sun Yat-sen Univ., China) LIU, Jun-Liang; MENG, Zhao-Sha; GUO, Fu-Sheng; TONG, Ming-Liang (14:50~15:20)  
**3G2-39\*** Invited Lecture Structure and Dynamics of Porous Coordination Polymers Derived from Exotic Metals (Kyoto Univ.) Foo, Maw Lin (15:20~15:40)

Chair: ITOH, Shinobu and ISHITANI, Osamu (15 : 50~17 : 20)

- 3G2-42\*** Keynote Lecture Low-valent Metal Chemistry for Small Molecule Activation (KAIST, Korea) LEE, Yunho (15:50~16:20)  
**3G2-45\*** Invited Lecture Biosynthesis of the Iron-Guanylyl-Pyridinol (FeGP) Cofactor of [Fe]-Hydrogenase (Max-Planck-Institute for Terrestrial Microbiology, PRESTO) SHIMA, Seigo (16:20~16:40)  
**3G2-47\*** Invited Lecture Design and Activity Control of Water Oxidation Catalysts Based on Photoisomerization of Mononuclear Ruthenium (II) Monoaquo Complexes (Niigata Univ., PRESTO) YAGI, Masayuki (16:40~17:00)  
**3G2-49\*** Invited Lecture Multinuclear Copper Complexes as Bio-inspired Models for O<sub>2</sub>-activation (Nagoya Inst. Tech., PRESTO) FUNAHASHI, Yasuhiro; MASUDA, Hideki (17:00~17:20)

## Coordination Chemistry, Organometallic Chemistry

Wednesday, March 28, AM

### Ni

Chair: KOGA, Yuji (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(4G2-01, 4G2-02, 4G2-03, 4G2-04, 4G2-05)  
**4G2-01** Catalytic Dehydrogenative Cyclopolymerization of Hydrosilanes and their Reaction Mechanism (Chem. Res. Lab; Tokyo Tech.) TAKAHASHI, Atsushi; FUKUTA, Tomoko; TANABE, Makoto; OSAKADA, Kohtaro  
**4G2-02** Preparation of Novel Dinickel Complexes with Bridging Diphenylsilyl Ligands. Emissive Disilanes Formed via Intramolecular Si-Si Coupling (Chem. Res. Lab.; Tokyo Tech.) YUMOTO, Ryouhei; TANABE, Makoto; OSAKADA, Kohtaro  
**4G2-03** Synthesis and Reactivity of Ni(0)-Imine Complex bearing a NHC Ligand (Faculty of Engineering, Osaka Univ.) OHATA, Tomoya; OHE, Yoshinori; OHASHI, Masato; OGOSHI, Sensuke  
**4G2-04** Reactions of six-membered cyclic nickelenolate with electrophiles (Faculty of Engineering, Osaka Univ.) TANAKA, Atsushi; TAMAKI, Takashi; OHASHI, Masato; OGOSHI, Sensuke  
**4G2-05** Synthesis and Intramolecular *sp*<sup>3</sup> C-H Bond Cleavage Reaction of Bis(2,6-dimethylbenzenethiolato)nickel(II) Complexes (Tokyo Univ. of A & T) KANESO, Yuichi; HIRANO, Masafumi; KOMIYA, Sanshiro

Chair: HIRANO, Masafumi (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(4G2-07, 4G2-08, 4G2-10, 4G2-11, 4G2-12)  
**4G2-07** Dinickel(I) Complexes in Efficient Grignard Cross-Coupling Reactions: a Mechanistic Study (Fukuoka Univ., Faculty of Science) YAMAMOTO, Hitomi; MIYAZAKI, Satoshi; KOGA, Yuji; MATSUBARA, Kouki  
**4G2-08\*** Nickel-Catalyzed [2+2] Cycloaddition of Conjugated Enynes with Alkenes (Fclty of Eng., Osaka Univ.) NISHIMURA, Akira; OGOSHI, Sensuke; OHASHI, Masato  
**4G2-10** Ni(0)/NHC-Catalyzed Enantioselective [2+2+2] Cycloaddition Reaction of Enones and Alkynes (Faculty of Engineering, Osaka Univ.) TOKURA, Hiromu; NISHIMURA, Akira; OHASHI, Masato; OGOSHI,

Sensuke

## Pd

- 4G2-11** Synthesis and Catalytic Properties of a Dipalladium Complex Having the Ligand with [3]Rotaxane Structure (Tokyo Inst. of Tech., Chem. Res. Lab.) SAITO, Takashi; SUZAKI, Yuji; OSAKADA, Kohtaro
- 4G2-12** Ge-Ge Bond-forming Reactions Promoted by a Dipalladium Complex with a Bridging Germylene Ligand (Chem. Res. Lab.; Tokyo Tech.) OMINE, Shumpei; ISHIKAWA, Naoko; TANABE, Makoto; OSAKADA, Kohtaro

Chair: TANABE, Makoto (11:10~12:10)

- \* 11:00-11:10: interval for laptop PC connection.(4G2-14, 4G2-16, 4G2-17, 4G2-18, 4G2-19)
- 4G2-14\*** Synthesis and Functions of NCN-Pincer Pd-Complex-Bound Norvalines (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) OGATA, Kazuki; YOKOI, Tomoya; ISOZAKI, Katsuhiko; SASANO, Daisuke; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 4G2-16** Investigation of Structural Properties of Novel Cavity-shaped Phosphine Ligands and Their Application to Catalytic Reactions (Tokyo Institute of Technology) UMEMOTO, Akinari; SASE, Shohei; GOTO, Kei
- 4G2-17** Catalytic Hydrometallation of Tungsten Hydride to Alkene and Alkyne Promoted by Mono(phosphine or phosphite)palladium(0) Complex (Tokyo Univ. of A & T) ITO, Ryo; IKEDA, Takahiro; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 4G2-18** Selective preparation of trifluorovinylpalladium(II) fluoride via C-F bond activation of tetrafluoroethylene on Pd(0). (Faculty of Engineering, Osaka Univ.) SHIBATA, Mitsutoshi; SAIJO, Hiroki; OHASHI, Masato; OGOSHI, Sensuke
- 4G2-19** Synthesis of cycloheptatrienyl Pd<sub>2</sub>Pt and PdPt<sub>2</sub> sandwich complexes (Graduate School of Engineering, Osaka Univ.; PRESTO-JST) KIMURA, Seita; TACHIBANA, Yuki; USUI, Kentaro; MURAHASHI, Tetsuro; OGOSHI, Sensuke

## Wednesday, March 28, PM

Chair: YAMASHITA, Makoto (13:20~14:20)

- \* 13:10-13:20: interval for laptop PC connection.(4G2-27, 4G2-28, 4G2-29, 4G2-30, 4G2-31)
- 4G2-27** Synthesis and reactivity of dialkyl Pd complex with PS3-type tripodal tetradentate ligand (Graduate School of Engineering, Gunma Univ.) KOGURE, Yuki; TAKEDA, Nobuhiro; UNNO, Masafumi
- 4G2-28** Protonolysis of Benzylpalladium Complexes Having an SNS Tridentate Ligand (Nara Women's Univ.) KAWADA, Yumi; URA, Yasuyuki; KATAOKA, Yasutaka
- 4G2-29** Some Insights into Reaction Mechanism of Radical Carbonylation Reactions of Alkyl Iodides Using a Palladium/Photo-Irradiation Combined System (Graduate School of Science, Osaka Prefecture Univ.) FUSANO, Akira; SUMINO, Shuhei; OKADA, Megumi; FUKUYAMA, Takahide; RYU, Ilhyong
- 4G2-30** Direct Arylation of Arenes by Arylpalladium Acetate Complexes: Experimental Mapping of the Reactivity of Aromatic C-H Bonds (Institute for Chemical Research, Kyoto Univ.) NAKAMURA, Yuki; WAKIOKA, Masayuki; OZAWA, Fumiyuki
- 4G2-31\*** Mechanistic Studies on Hydrometallation Reaction of Silyl Pincer-Type Palladium Hydride Complex with Ethylene: Two Reaction Pathways Based on Dynamic Behavior of Si-H Bond (Tokyo Institute of Technology) TAKAYA, Jun; IWASAWA, Nobuharu

Chair: WAKIOKA, Masayuki (14:30~15:20)

- \* 14:20-14:30: interval for laptop PC connection.(4G2-34, 4G2-35, 4G2-36, 4G2-37, 4G2-38)
- 4G2-34** Synthesis and Structures of Linear Octanuclear Palladium Complexes with Axial Nitrile Ligands (Nara Women's Univ.) NAKAMAE, Kanako; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 4G2-35** Synthesis and Properties of Platinum Complexes Bearing a PBP-Pincer Ligand (Chuo Univ. Faculty of Science and Engineering) OGAWA, Hayato; YAMASHITA, Makoto
- 4G2-36** Synthesis of tetraphosphamacrocyclic ligands bearing alkyl chains and their diplatinum complexes (Grad. School of Sci., Hiroshima Univ.) OZAWA, Masanori; KIMURA, Naohiro; KUBO, Kazuyuki; MIZUTA, Tsutomu
- 4G2-37** Synthesis and Properties of Platinum-acetylide Dendrimer Bridged by Methylene-linked Triarylamine Derivatives (Graduate School of Science, Osaka Univ.) NOMURA, Saki; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka
- 4G2-38** Synthesis and Properties of Acetylene-Bridged Multinuclear N<sup>+</sup>C<sup>-</sup>N Pincer Platinum Complexes (Graduate School of Science, Osaka Univ.) NAGASE, Hitomi; OKAMURA, Taka-aki; MATSUBARA, Hiroshi; ONITSUKA, Kiyotaka

Chair: KUBO, Kazuyuki (15:30~16:20)

- \* 15:20-15:30: interval for laptop PC connection.(4G2-40, 4G2-41, 4G2-42,

4G2-43, 4G2-44)

- 4G2-40** Aggregation-Induced Emission of SCS Pincer Pt(II) Complex (Univ. of Tsukuba) HONDA, Hiroya; OGAWA, Yasuyuki; KUWABARA, Junpei; KANBARA, Takaki
- 4G2-41** Preparation of Oligogermanes Obtained via the Germametallacycle Intermediates and Their Chemical Properties (Chem. Res. Lab.; Tokyo Tech.) TANABE, Makoto; DEGUCHI, Takashi; OSAKADA, Kohtaro
- 4G2-42** Pt-C Bond Cleavage of Diarylplatinum(II) Complexes with Carboxylic Acids (Institute for Chemical Research, Kyoto Univ.) HIHARA, Yoshihiro; WAKIOKA, Masayuki; OZAWA, Fumiyuki
- 4G2-43** Synthesis and E-Selective Allyl Transfer Reaction of Crotylplatinum-Manganese Dinuclear Complexes Having a  $\mu$ - $\eta^1$ : $\eta^2$ -Crotyl Ligand (Tokyo Univ. of A & T) NAKANO, Toshiki; SAITOH, Shun; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 4G2-44** Ring-Opening Reaction Mechanism of Thietanes by Bridged and non-Bridged Acylplatinum-Manganese Dinuclear Complexes (Tokyo Univ. of A & T) ODA, Kenta; ZHAO, Shuang; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

## Room G3

### 4th Bldg. Independence Wing D413

## Applications of Materials

Sunday, March 25, AM

Chair: HATANO, Ken (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(1G3-01, 1G3-02, 1G3-03, 1G3-04, 1G3-05)
- 1G3-01** Development of a new Near-Infrared light emissive luciferin analog for *in vivo* bioimaging tool (The Univ. of Electro-Communications) KITADA, Nobuo; HAMA, Kazutoshi; IWANO, Satoshi; SAITO, Tsuyoshi; NISHIYAMA, Shigeru; HIRANO, Takashi; MAKI, Shojiro; NIWA, Haruki
- 1G3-02** Discovery of New Firefly Luciferin Analogs (The Univ. of Electro-Communications) MIURA, Chihiko; ITO, Kazuto; IWANO, Satoshi; HIRANO, Takashi; MAKI, Shojiro; NIWA, Haruki
- 1G3-03** Development of High-intensity Emitting Conditions on Firefly Bioluminescence System (The Univ. of Electro-Communications) ITO, Kazuto; IWANO, Satoshi; KOJIMA, Satoshi; HIRANO, Takashi; MAKI, Shojiro; NIWA, Haruki
- 1G3-04** High sensitive detection of biological molecules using a graphene-coated interdigitated array electrode (NTT Microsystem Integration Labs. NTT Corp.) UENO, Yoko; FURUKAWA, Kazuaki; HIBINO, Hiroki; TAMECHIKA, Emi
- 1G3-05\*** Thermoresponsive Copolymer Containing a Coumarin-Spiropyran Conjugate as a Reusable Fluorescent Sensor for Cyanide Anion Detection in Water (Osaka Univ.) SUMIYA, Shigehiro; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

Chair: MAKI, Shojiro (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1G3-08, 1G3-10, 1G3-11, 1G3-12, 1G3-13)
- 1G3-08\*** Characterization of immobilized enzymes on a nanoporous film by nanoporous waveguide spectroscopy (Tohoku Univ.; Ibaraki Univ.; IFR; AIST) ARAFUNE, Hiroyuki; HOTTA, Kazuhiro; YAMAGUCHI, Akira; ITOH, Tetsuji; TERAMAE, Norio
- 1G3-10** Application of fluorescence changing detection of lectin based on photoluminescent silole-core carbosilane dendrimer (Saitama Univ.) SUZUKI, Yudai; SAEKI, Hitoshi; KOYAMA, Tetsuo; MATSUOKA, Koji; HATANO, Ken
- 1G3-11** Printed electronics: Lab-on-paper based on electrochemical method and inkjet printing technology (Tokyo Univ.) MAEJIMA, Kento; TOSHIHARU, Enomae; ISOGAI, Akira; SUZUKI, Koji; CITTERIO, Daniel
- 1G3-12** Fabrication and characterization of MWCNT composite electrode with electroplating (Faculty of Life Sciences, Toyo Univ.) OKAMURA, Yosuke; KATO, Kazuo; OKUMA, Hirokazu
- 1G3-13** Chemical Sensors Using Quartz Tuning Forks Bridged with an Oscillating Polymer String (Kagoshima Univ.) OKUBO, Hiroshi; KAMISAKAMOTO, Misao; UEDA, Takehiko

Chair: HIRAI, Takayuki (11:20~12:00)

- \* 11:10-11:20: interval for laptop PC connection.(1G3-15, 1G3-17, 1G3-18)
- 1G3-15\*** External Stimuli-responsive Modulation of Solid-state Fluorescence by Using Luminescent Liquid-Crystalline Materials (Graduate School of Engineering, Osaka Univ.) CHEN, Chien-chih; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 1G3-17** Nobel silver deposition-based electrochromic device with reversible optical transformation between transparent, mirror and black. (Faculty of engineering, Chiba Univ.) TSUBOI, Ayako; KOBAYASHI, Kanae; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 1G3-18** Characterization of vis-NIR emission properties of co-existing



materials containing neodymium(III) complex and electrochemiluminescence material. (Faculty of engineering, Chiba Univ.) KOBAYASHI, Toshiya; KANAZAWA, Kenji; KOBAYASHI, Yukino; SUGIMOTO, Shunichi; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

### Sunday, March 25, PM

Chair: NISHIURA, Masayoshi (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(1G3-26, 1G3-28, 1G3-29, 1G3-30, 1G3-31)
- 1G3-26\*** Thermally Activated Delayed Fluorescence Based on a Spirobifluorene Derivative and Application for Organic Light Emitting Diode (Kyushu Univ.; OPERA) NAKAGAWA, Tetsuya; KU, Sung-yu; WONG, Ken-tsung; ADACHI, Chihaya
- 1G3-28** Syntheses and Photo- and Electroluminescent Properties of Novel Tris-cyclometalated Iridium Complexes Aimed at Near-infrared electroluminescence Devices (Osaka Prefecture Univ.;Technology Research Institute of Osaka Pref.) IKAWA, Shigeru; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki
- 1G3-29** Synthesis and Photo- and Electroluminescent Properties of Novel Yellow-phosphorescent Bis-cyclometalated Iridium Complexes Towards Application to White OLED (Osaka Prefecture Univ.;Technology Research Institute of Osaka Pref.) MIYAZAKI, Miho; IKAWA, Shigeru; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki
- 1G3-30** Synthesis of Starburst Carbazole Trimers Aimed at Application as Host Materials for Solution-processed Phosphorescent OLEDs (Osaka Prefecture Univ.) FUNAGOSHI, Hiroshi; IKAWA, Shigeru; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 1G3-31** Synthesis and Properties of Novel Highly Luminescent  $\pi$ -Conjugated Compounds Bearing a Dipyrrophenazine Skeleton (Osaka Prefecture Univ.; Technology Research Institute of Osaka Prefecture) SHIGEHIRO, Tatsuya; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki

Chair: YAGI, Shigeyuki (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(1G3-33, 1G3-34, 1G3-35)
- 1G3-33** Preparation and evaluation of OLED devices by using coal pitch (Chuo Univ. Faculty of Science and Engineering; Saitama Univ. Graduate School of Science and Engineering; Saitama Univ. Faculty of Engineering) ASAMI, Syunsuke; YAMASHITA, Makoto; YAMAOKA, Miki; KIMURA, Sho; FUKUDA, Takeshi
- 1G3-34#** Substituent effect on EL properties of Ir(III) complexes bearing amidinate ligands (RIKEN) RAI, Virendra Kumar; NISHIURA, Masayoshi; TAKIMOTO, Masanori; HOU, Zhaomin
- 1G3-35** CSJ Award for Technical Development Development of Dielectric Film for IC Packaging Substrates (Ajinomoto Fine-Techno Co., Inc.; Ajinomoto Co., Inc.) NAKAMURA, Shigeo; HAYASHI, Eiichi; YOKOTA, Tadahiko; TAKEUCHI, Koji

Chair: MORIYA, Makoto (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(1G3-40, 1G3-41, 1G3-42, 1G3-43, 1G3-44, 1G3-45)
- 1G3-40** Synthesis of Novel Heterocycle/Phenylene Co-oligomers for Light-Emitting Field Effect transistor (Graduate School of Science, Tohoku Univ.) ONIWA, Kazuki; JIN, Tienan; THANGAVEL, Kanagasekaran; MD, UZZAMAN, Akhtar; SHIMOTANI, Hidekazu; IKEDA, Susumu; TANIGAKI, Katsumi; ASAO, Naoki; YAMAMOTO, Yoshinori
- 1G3-41** Reaction mechanism of functional photo ampholyte compounds generators (Univ. of Chiba) TAKAHARA, Shigeru; SATO, Yusuke
- 1G3-42** Current generation from sodium sulfite and sulfurous acid using carbon fibers anode (Soka Univ.; Kougakuin Univ.) MAEDA, Hidekatsu; NIITU, Takashi; HIGUCHI, Aya; IIZUKA, Miki; NAGAMOTO, Hidetoshi
- 1G3-43** Electrochemical Properties of the Secondary Organic Battery using Dithioamide Derivatives as the Cathode Active Material (Kobe City College of Tech.; Murata Manufacturing Co. Ltd.) KOIZUMI, Takuya; SASAKI, Shunsuke; SATOH, Masaharu; ONOUE, Tomoaki; MIURA, Yozo
- 1G3-44** Redox properties of tetraketopyracene and their application to organic secondary battery (Osaka Electro-Communication Univ.) AONUMA, Shuji; ARAKI, Masashige; SATOH, Masaharu
- 1G3-45** Analysis of Electrochemical Reaction in Graphite Negative Electrode for Lithium-ion Battery Coated with Polyacrylic Acid as Binder (Graduate School of Engineering, Iwate Univ.) UI, Koichi; NIWATA, Yuki; KADOMA, Yoshihiro; KUMAGAI, Naoaki

Chair: YAMAMOTO, Kimihisa (16 : 40~17 : 40)

- \* 16:30-16:40: interval for laptop PC connection.(1G3-47, 1G3-48, 1G3-50, 1G3-51, 1G3-52)
- 1G3-47** Fabrication of Organic Secondary Batteries Based on Cathode-Active Materials of Thiocarbonylhydrazides Exhibiting Three- to Four-Electron Redox (Osaka Pref. Univ.; JEOL Ltd.) SUGIMOTO, Toyonari; SENOO, Kenichiro
- 1G3-48\*** Construction of ionic conduction paths using self-assembly of novel lithium complexes (Ecotopia Science Institute, Nagoya Univ.) MORIYA, Makoto; KATO, Daiki; SAKAMOTO, Wataru; YOGO, Toshinobu
- 1G3-50** Synthesis of novel plastic crystals as thermally durable ionic

conductors (EcoTopia Science Institute, Nagoya Univ.) WATANABE, Takaaki; MORIYA, Makoto; SAKOMOTO, Wataru; YOGO, Toshinobu

**1G3-51** Development of Nano-sized nitrides for non-Pt Electrocatalysts for Oxygen Reduction Reaction Catalysts of Fuel Cells, and Research of Active Sites (The Univ. of Tokyo) OHNISHI, Ryohji; TAKANABE, Kazuhiro; KATAYAMA, Masao; KUBOTA, Jun; DOMEN, Kazunari

**1G3-52** Preparation of Iron Porphyrin and Polyoxytungsstate Supported on Carbon and the Cathode Activity in Fuel Cell (Tokyo Univ. of Agriculture and Technology) SUZAKI, Kohei; NAGAI, Masatoshi

Chair: KUBOTA, Jun (17 : 50~18 : 20)

- \* 17:40-17:50: interval for laptop PC connection.(1G3-54, 1G3-55, 1G3-56)
- 1G3-54** Catalytic activity of platinum nanoparticles and the bimetallic nanoparticles encapsulated in a dendrimer template. (Tokyo Institute of Technology) NAKAHARA, Hidenori; OOMURA, Saori; HONGOUSHI, Yushi; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 1G3-55** Dye-Sensitized Solar Cell Using Triphenylamine Derivatives as a Dye and a Redox mediator (Dept. Appl. Chem., Waseda Univ.) KASHIWAGI, Satomi; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 1G3-56** Apply the amidinorea resins to collecting indium from waste fluid of manufacturing an ITO film (Univ. of Tokyo Denki; Graduate course of Engineering) YAMASHITA, Motoki; TANAKA, Satomi; SHIBA, Ryuichi

### Monday, March 26, AM

Chair: MATSUI, Masaki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2G3-01, 2G3-02, 2G3-03, 2G3-04, 2G3-05)
- 2G3-01** Photophysical Properties and Photostability of Condensed Phenazine-type Fluorescent Dyes in Polymer Films (Kochi Univ.) KAMIMURA, Kazutoshi; MIYAZATO, Kazuyoshi; YOSHIDA, Katsuhira
- 2G3-02** Photophysical Properties and Photostability of Condensed Polycyclic quinoid-type Fluorescent Dyes in Polymer Films (Kochi Univ.) KAMIMURA, Kazutoshi; ITAKURA, Akihiro; YOSHIDA, Katsuhira
- 2G3-03** Synthesis and DSSC application of squarylium dyes bearing various polar functional groups (Osaka Pref. Univ.) KAKIO, Daisuke; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki
- 2G3-04** Synthesis, Absorption and Electrochemical Properties of U-shaped Organic Dyes Based on Squaraine structure for Dye-sensitized Solar Cells (Osaka Pref. Univ.) MINETA, Shohei; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki
- 2G3-05\*** Synthesis and Properties of Squaraine-Based Low Band-Gap Copolymers and Their Application to Bulk-Heterojunction Polymer Solar Cells (Osaka Pref. Univ.) MAEDA, Takeshi; OMORI, Takuya; IWATA, Noriko; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

Chair: YOSHIDA, Katsuhira (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2G3-08, 2G3-11, 2G3-12, 2G3-13)
- 2G3-08** Young Scholar Lectures of CSJ Development of D- $\pi$ -A Fluorescent Dyes Based on a Control of Molecular Arrangement and Orientation and Their Applications to Optoelectronic Devices (Grad. Sch. Eng., Hiroshima Univ.) OYAMA, Yousuke
- 2G3-11** The effect of intermolecular interactions on optical properties of bisazomethine dyes in a crystalline state -2- (Yokohama Natl. Univ.; Chungnam Natl. Univ.; Kyungpook Natl. Univ.) SASAKI, Nah; KIM, Byung-soon; SON, Young-a; KIM, Sung-hoon; MATSUMOTO, Shinya
- 2G3-12** Solid Fluorescence of Dyes Having a Naphthooxazine Skeleton (Gifu Univ.) ANDO, Yukiyo; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Masaki
- 2G3-13** Synthesis and Fluorescence Properties of Thiazole-Boron Complexes Bearing a Iminoketone Ligand (Faculty of Engineering, Gifu Univ.) KUBOTA, Yasuhiro; TANAKA, Syunki; FUNABIKI, Kazumasa; MATSUI, Masaki

Chair: YAGI, Shigeyuki (11 : 20~12 : 00)

- \* 11:10-11:20: interval for laptop PC connection.(2G3-15, 2G3-16, 2G3-17, 2G3-18)
- 2G3-15** Effects of Substituents and Counter Anions on the Melting Point and Fluorescence Properties of Pyridinium Styryl Dyes (Gifu Univ.) OKADA, Ayumi; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui
- 2G3-16** Synthesis and Fluorescence Properties of Novel Pyrimidine Bisbron Complexes (Faculty of Engineering, Gifu Univ.) KUBOTA, Yasuhiro; KASATANI, Kohei; FUNABIKI, Kazumasa; MATSUI, Masaki
- 2G3-17** Synthesis and Fluorescence Properties of Pyrazine Bisbron Complexes (Faculty of Engineering, Gifu Univ.) KUBOTA, Yasuhiro; SAKUMA, Yusuke; FUNABIKI, Kazumasa; MATSUI, Masaki
- 2G3-18** Sensitizing properties of New Indoline Dyes (Gifu Univ.) ONO, Masaomi; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui

### Monday, March 26, PM

Chair: FUNABIKI, Kazumasa (13 : 10~14 : 20)

- \* 13:00-13:10: interval for laptop PC connection.(2G3-26, 2G3-27, 2G3-29, 2G3-30, 2G3-31, 2G3-32)

- 2G3-26** Preparation and Application of Fluoroalkyl End-Capped Oligomer/Boron Nitride Nanocomposites (Hirosaki Univ.) OGASAWARA, Takahumi; SAWADA, Hideo
- 2G3-27\*** Photocatalytic Activity of a Variety of Fluorinated Silica/Titanium Oxide Nanocomposites after Calcination at 1000 ° C (Graduate School of Science and Technology, Hirosaki Univ.; INAX) GUO, Sujuan; YOSHIOKA, Hiroaki; KUDO, Iku; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo
- 2G3-29** Photocatalytic Activity and Application to the Surface Modification of Fluoroalkyl End-Capped Oligomer/Zinc Oxide Nanocomposites-Encapsulated Low Molecular Weight Aromatic Compounds (Hirosaki Univ.; Taiyo Yuden) KUDO, Iku; GOTO, Yuki; SASAZAWA, Kazuo; SAWADA, Hideo
- 2G3-30** Preparation and Thermal Stability of Fluorinated Sulfonic Acid Derivatives/Silica Nanocomposites (Hirosaki Univ.; Nippon Chemical Industrial Co., Ltd.) SOUMA, Saki; KIKUCHI, Mieko; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo
- 2G3-31** Preparation and Thermal Stability of Acrylate Cooligomers Containing Fluoroalkyl Groups/Silica Nanocomposites-Encapsulated a Variety of Low Molecule Weight Aromatic Compounds (Hirosaki Univ.; Goo Chemical Industrial Co., Ltd.) NAGANO, Ruma; KIKUCHI, Mieko; SAKAI, Yoshio; FURUKAWA, Teruo; SAWADA, Hideo
- 2G3-32** Sol-gel Reactions of Fluoroalkyl End-Capped Vinyltrimethoxysilane Oligomer in the Presence of Calcium Carbonate Nanoparticles (Hirosaki Univ.; LIXIL) IDOMUKAI, Satsuki; SAITOU, Tomoya; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo

Chair: HASHIZUME, Mineo (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(2G3-34, 2G3-35, 2G3-36, 2G3-37, 2G3-38, 2G3-39)
- 2G3-34** Radiation Sensor Based on Oxazirone and Thiazirone Derivatives (Saitama Univ. ; TMITRI) TAKIZAWA, Tomohiko; KOUGO, Midori; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya
- 2G3-35** Phenoxazine-type Color Former Gelator for Radiation Detection with Naked Eye (Saitama Univ. ; TMITRI) KOKAJI, Takumi; SHIMOYAMA, Masanori; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya
- 2G3-36** Phenoxazine-type Color Former Organogelator for Radiation Detection with Naked Eye (Saitama Univ. ; TMITRI) ONO, Saori; TAKAHASHI, Jun; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya
- 2G3-37** Photoinduced Reorientation Behavior of Liquid Crystals with Fluorescence Dyes (Chemical Resource Laboratory, Tokyo Institute of Technology) KINOSHITA, Motoi; SHISHIDO, Atsushi
- 2G3-38** Effect of plasma on liquid surface on an aqueous dispersion of TiO<sub>2</sub> nanoparticles (Nippon Menard Cosmetic Co., Ltd.; Plasma Center for Industrial Applications, Nagoya Industries Promotion Corporation; Nagoya Municipal Industrial Research Institute) OKA, Masato; ASANO, Hiroyuki; KITAHARA, Michiro; NAKATA, Satoru; ITO, Michiko; TAKASHIMA, Seigo; ASAMI, Etsuo; AOKI, Takeshi; YAMAGUCHI, Koichi; MURASE, Yoshiaki
- 2G3-39** Novel Environment-friendly Inorganic Yellow Pigments Based on Bismuth Vanadate (Osaka Univ.) WEN, Dusu; HONDA, Taihei; MASUI, Toshiyuki; IMANAKA, Nobuhito

Chair: IMANAKA, Nobuhito (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(2G3-41, 2G3-42, 2G3-43, 2G3-45)
- 2G3-41** Development of Surface Modification of Papers Using Polymer Latices Containing Hydrolysable Emulsifiers (3) Effect of Pretreatment Agent (Shinshu Univ.) OZAKI, Kaori; ITOH, Yoshihiro; NAKATA, Shin
- 2G3-42** Surface Modification of Titanium Substrates Utilizing Silane Coupling Agents and Evaluation of Their Effect on Adhesion Properties to Polyimide Films (Tokyo Univ. of Sci.) FUKAGAWA, Soichiro; OSUGA, Takumi; HASHIZUME, Mineo
- 2G3-43\*** Development of Multifunctional Film with Biomimetic Wrinkle Processing (Department of Industrial Chemistry, Tokyo Univ. of Science) ENDO, Hiroshi; TAMURA, Masahiro; MAEDA, Izumi; IJIMA, Takayuki; KAWAI, Takeshi
- 2G3-45\*** Design of Dismantlable Adhesion Using Acrylic Polymers with Changeable Properties (Graduate School of Engineering, Osaka City Univ.) SATO, Eriko; INUI, Tadashi; MATSUMOTO, Akikazu

## Tuesday, March 27, AM

Chair: TANAKA, Kazuo (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3G3-01, 3G3-03)
- 3G3-01\*** Evaluation of Bioluminescence Activity of Firefly Luciferin Nucleotide Derivatives (The Univ. of Electro-Communications) IWANO, Satoshi; KOJIMA, Satoshi; HIRANO, Takashi; MAKI, Shojiro; NIWA, Haruki
- 3G3-03 CSJ Award for Technical Development** Invention and Development of a Novel Pesticide, Flubendiamide (Nihon Nohyaku Co., Ltd.) TONISHI, Masanori; SEO, Akira; TSUBATA, Kenji; KODAMA, Hiroki; ABE, Noboru

Chair: NOMA, Naoki (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3G3-08, 3G3-12)

- 3G3-08 CSJ Award for Technical Development** Development of New Manufacturing Method of A Silane Coupling Agent for Automobile Tire (Dept. Org. Polym. Mater., Tokyo Tech; Daiso Co.,Ltd.) TAKATA, Toshikazu; YAMADA, Nobuo; KITAGAWA, Motoki; ICHINO, Tomoyuki
- 3G3-12\*** Withdrawn

Chair: KOBORI, Yoshihiro (11 : 20~12 : 00)

- \* 11:10-11:20: interval for laptop PC connection.(3G3-15, 3G3-16, 3G3-17, 3G3-18)
- 3G3-15** Antioxidant activity of the mixture of astaxanthin and lycopene (FUJIFILM Corp.) SAWADA, Toshihiko; YOKOYAMA, Hiroshi; SHIBAMOTO, Tadao; MIYASHITA, Yousuke; TATEISHI, Tomomi; NAGATA, Kouzou
- 3G3-16** New recycling technology for mobile phones using superheated steam (Nippon Telegraph and Telephone Corporation; The Univ. of Tokyo) TAKAHASHI, Kazuo; FURUTANI, Takashi; KUNIOKA, Tatsuya; SOMEMURA, Yoh; MATSUNO, Yasunari
- 3G3-17** Evaluation of microwave-assisted heating ability of the imidazolium salt-presenting silica nanoparticles (Kyoto Univ.; Matsumoto Yushi-Seiyaku Co., Ltd.) OKADA, Hiroshi; TANAKA, Kazuo; CHUJO, Yoshiki
- 3G3-18** Preparation of Photosensitive Indium Niobate Gel Films and Patterning Properties (Kinki Univ.) NOMA, Naoki; MORIYAMA, Kazuya

## Tuesday, March 27, PM

Chair: OHSHITA, Joji (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(3G3-34, 3G3-38)
- 3G3-34 CSJ Award for Technical Development** Development and Practical Applications of New Additive Technologies for Engine Oils (JX Nippon Oil & Energy Corporation Research & Development Division) IGARASHI, Jinichi; KOMIYA, Kenichi; YAGISHITA, Kazuhiko
- 3G3-38\*** Preparation and Absorption Spectra of Fluoroalkyl End-Capped 2-Acrylamide-2-methylpropanesulfonic Acid Oligomer/Ketones Nanocomposites (Hirosaki Univ.; National Institute of Advanced Industrial Science and Technology; Shimane Univ.) KIJIMA, Tetsushi; NISHIDA, Masakazu; FUKAYA, Haruhiko; YOSHIDA, Masato; SAWADA, Hideo

Chair: TACHIKAWA, Tatsuya (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(3G3-41, 3G3-42, 3G3-43, 3G3-44, 3G3-45)
- 3G3-41** Preparation and Thermal Stability of Calcium Fluoride Nanocomposites-Encapsulated a Variety of Low Molecular Weight Aromatic Compounds (Hirosaki Univ.; LIXIL) SAITO, Tomoya; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo
- 3G3-42** Preparation and Thermal Stability of Novel 3,3,3-Trifluoroalactic Acid/Silica Nanocomposite (Hirosaki Univ.; Nippon Chemical Industrial Co., Ltd.) ISE, Shougo; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo
- 3G3-43** Syntheses of Head-to-head Type Styrene Dimers Bearing two Fluoroalkyl End-groups (Shimane Univ.; Hirosaki Univ.) IIZUKA, Mari; OKUNO, Keita; GOTO, Yuki; SAWADA, Hideo; YOSHIDA, Masato
- 3G3-44** Preparation and Thermal Stability of Novel Fluoroalkyl End-capped Styrene Dimers /Silica Nanocomposites (Hirosaki Univ.; Shimane Univ.) OKUNO, Keita; GOTO, Yuki; IIZUKA, Mari; YOSHIDA, Masato; SAWADA, Hideo
- 3G3-45** Synthesis and Photophysical Properties of Novel Lactone-Lactam-type Fluorescent Dyes in solutions, in the solid state and in polymer films (Kochi Univ.) TANAKA, Junpei; SUGUCHI, Tatsuya; YOSHIDA, Katsuhira

Chair: SAWADA, Hideo (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(3G3-47, 3G3-48, 3G3-49, 3G3-50, 3G3-51)
- 3G3-47** Specific Solvatochromism of Novel D-pi-A Pyridinium Dyes in Halogenated Solvents (Hiroshima Univ.; Graduate School of Engineering) ODA, Yuichiro; OYAMA, Yosuke; MIZUMO, Tomonobu; OHSHITA, Joji
- 3G3-48** Water-Soluble Phenazine-type Color Former Organogelator for radiation detection with naked eye (Saitama Univ. ; TMITRI) MOROI, Sousuke; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya
- 3G3-49** Phenazine-type Color Former Organogelator for radiation detection with naked eye (Saitama Univ. ; TMITRI) NAKAMURA, Yutarou; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya
- 3G3-50** Amorphous film of Phenoxazine-type Color Former for Radiation Detection (Saitama Univ. ; TMITRI) TACHIKAWA, Tatsuya; KIKUCHI, Kaori; SEKIGUCHI, Masayuki
- 3G3-51** Radiation Sensor Based on Indolinium Salt with Boronic Acid Pinacol Ester (Saitama Univ. ; TMITRI) NARUMOTO, Tsukasa; KOUGO, Midori; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya

## Room H1

6th Bldg. J611

## Coordination Chemistry, Organometallic Chemistry

Sunday, March 25, AM

Chair: MAEDA, Hiromitsu (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(1H1-01, 1H1-02, 1H1-03, 1H1-04, 1H1-06)

**1H1-01\*** Mesoporous Metal-Organic Frameworks with Size-tunable Cages for Gas Uptakes (AIST; Kobe Univ.) LAN, Ya-qian; XU, Qiang**1H1-02\*** Top-down fabrication of crystalline metal-organic framework nanosheets (Kobe Univ.; AIST) LI, Peizhou; MAEDA, Yasushi; XU, Qiang**1H1-03** Investigation for synthesis and properties of polynuclear metal complexes from Hbpyzp (Department of Chemistry, Faculty of Science, Fukuoka Univ.) WASHIZAKI, Tsubasa; HAMATAKE, Yumi; FUYUHIRO, Akira; HAYAMI, Shinya; NOZAKI, Koichi; KAWATA, Satoshi**1H1-04\*** Synthesis, Structure and Physicochemical properties of porous coordination polymer containing viologen derivative (Institute for Integrated Cell-Material Sciences, Kyoto Univ.) HIGUCHI, Masakazu; NAKAMURA, Kohei; KITAGAWA, Susumu**1H1-06** Controlled synthesis of polymer particles using porous metal complexes as templates (Kyoto Univ.) KASEDA, Tetsuya; UEMURA, Takashi; KITAGAWA, Susumu

Chair: YOSHIYAMA, Tomomi (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(1H1-08, 1H1-09, 1H1-10, 1H1-11, 1H1-12, 1H1-13)

**1H1-08** Introduction and properties of polysilane in coordination nanospaces (Kyoto Univ) KITAO, Takashi; UEMURA, Takashi; NAITO, Masanobu; KITAGAWA, Susumu**1H1-09** Structural determination of scarce natural products within a porous coordination network (The Univ. of Tokyo) ARIYOSHI, Junko; INOKUMA, Yasuhide; FUJITA, Makoto**1H1-10** Formation of Metal-Bridged Assemblies Comprising Linearly Arranged Oligomers of  $\pi$ -Conjugated Acyclic Ligands (Institute of Science and Engineering, Ritsumeikan Univ.) MAEDA, Hiromitsu; NISHIMURA, Yuki**1H1-11** Formation of Metal-Driven  $\pi$ -Space Based on Acyclic Ligands Arranged in Acute Angles (Institute of Science and Engineering, Ritsumeikan Univ.) MAEDA, Hiromitsu; AKUTA, Ryo**1H1-12** Metal Coordination Polymers of Directly Linked Dipyrrolyl Ligands (Institute of Science and Engineering, Ritsumeikan Univ.) MAEDA, Hiromitsu; KOBAYASHI, Hiroaki**1H1-13** Helicity inversion of helical metallofoldamers by metal exchange (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) SAIRENJI, Shiho; AKINE, Shigehisa; NABESHIMA, Tatsuya

Chair: SHINOZAKI, Kazuteru (11:20~12:10)

\* 11:10-11:20: interval for laptop PC connection.(1H1-15, 1H1-16, 1H1-17, 1H1-18, 1H1-19)

**1H1-15** Electrochemical oxygen reduction based on the photochemistry of porphyrin complexes (Univ. of Tokyo) ISHII, Kazuyuki; NGO, Thi Hong Trang**1H1-16** Integration of lipophilic Zn porphyrin derivatives with liposome for construction of effective electron transfer system. (Kyushu Univ.) HATAE, Tatsuru; OKAMURA, Tomoya; KOSHIYAMA, Tomomi; OHBA, Masaaki**1H1-17** synthesis of metallophthalocyanines with perfluorophenyl substituent-sand substituent effects on solid-state properties (School of Science, Kitasato Univ.) INOUE, Yuta; HORI, Akiko; FUJITA, Junichi; YUGE, Hidetaka**1H1-18** Systematic Crystal Structural Analysis of Dialkyltrimethylammonium- $[\text{Ni}(\text{dmit})_2]^-$  Salts with Different Alkyl Chain Length (Tokyo Univ. of Science) TAKIGAWA, Shota; SAEKI, Masahiro; HIRAMA, Satoru; DAI, Kotaro; MIYAMURA, Kazuo**1H1-19** Magnetic Properties of  $S = 3$  nickel(II) trinuclear complexes having various bridges (The Univ. of Electro-Communications; Univ. Calcutta; Univ. Rikkyo; Univ. Tohoku) IDA, Yumi; BISWAS, Rituparna; KAR, Paramita; GHOSH, Ashutosh; MIYAMOTO, Keiko; NOJIRI, Hiroyuki; ISHIDA, Takayuki

Sunday, March 25, PM

Chair: KOJIMA, Takahiko (14:20~15:20)

\* 14:10-14:20: interval for laptop PC connection.(1H1-33, 1H1-35, 1H1-37)

**1H1-33\*** Synthesis and Catalytic Activity of a Dihydroporphyrine Ni(II) Complex (Kyushu Univ.) OKAWARA, Toru; ABE, Masaaki; HASHIMOTO, Koichi; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio**1H1-35\*** Reversible structural conversion of nano-space by ligand exchange in the crystal of Ni(II)-macrocycles of beta-dipeptide (Ochanomizu Univ.;

Bruker AXS Co.Ltd.; Univ. of Tokyo) MIYAKE, Ryosuke; SUGIYAMA, Takeshi; SHIONOYA, Mitsuhiko

**1H1-37\*** Synthesis, molecular structure, properties, and catalytic behavior for styrene polymerization of diaminoquinonediimines nickel(II) complexes (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) OHNO, Keiji; FUJIHARA, Takashi; NAGASAWA, Akira

Chair: NIHEI, Masayuki (15:30~16:30)

\* 15:20-15:30: interval for laptop PC connection.(1H1-40, 1H1-42, 1H1-43, 1H1-45)

**1H1-40\*** Observation and Analysis of Magneto-Chiral Dichroism based on Exciton Chirality (Univ. of Tokyo; Ryukoku Univ.) KITAGAWA, Yuichi; MIYATAKE, Tomohiro; ISHII, Kazuyuki**1H1-42** Redox behavior of a palladium tetranuclear sandwich complex: Reversible C-C bond formation and cleavage between ligands (Graduate School of Engineering, Osaka Univ., PRESTO-JST) SHIRATO, Katsunori; TACHIBANA, Yuki; FUKUSHIMA, Azusa; TAKASE, Kohei; MURAHASHI, Tetsuro; OGOSHI, Sensuke**1H1-43\*** Chirality Induction and Diastereo-Selective Guest Arrangement in Porous Pd(II) Complex Crystals with Crystal Polymorphism (Grad. School of Science, The Univ. of Tokyo) KUBOTA, Ryou; TASHIRO, Shohei; SHIONOYA, Mitsuhiko**1H1-45** Site-Selective Guest Arrangement on the Surface of the Single-Crystalline Nano-Channel Using Various Functional Groups as Anchors (Grad. School of Science, The Univ. of Tokyo) UMEKI, Tsutomu; KUBOTA, Ryou; TASHIRO, Shohei; SHIONOYA, Mitsuhiko

Chair: MURAHASHI, Tetsuro (16:40~17:40)

\* 16:30-16:40: interval for laptop PC connection.(1H1-47, 1H1-49, 1H1-50, 1H1-52)

**1H1-47\*** M2L4 Molecular Capsules Bearing Anthracene Rings: Molecular Recognition and Crystal Structures (Chemical Resources Laboratory, Tokyo Institute of Technology; Bruker AXS K. K.; Univ. of Zurich) KISHI, Norifumi; YOZA, Kenji; SIEGEL, Jay; YOSHIZAWA, Michito; AKITA, Munetaka**1H1-49** M2L4 Molecular Capsules Bearing Anthracene Rings: Functionalization of the Inner Space (Chemical Resources Laboratory, Tokyo Institute of Technology) TSUDA, Shunsuke; OHKAWA, Ryota; LI, Zhiou; YOSHIZAWA, Michito; AKITA, Munetaka**1H1-50\*** Studies on the Catalytic Stability of Pt(II)-based Molecular Catalysts for Hydrogen Production from Water (Kyushu Univ.) YAMAUCHI, Kosei; SAKAI, Ken**1H1-52** Photo-Hydrogen-Evolving Mechanism of Pyridinethiolato-Bridged (Terpyridine)platinum(II) Dimer (Kyushu Univ.) NAKAMURA, Yuki; KOBAYASHI, Masayuki; KONNO, Yosuke; MASAOKA, Shigeyuki; SAKAI, Ken

Chair: HISAEDA, Yoshio (17:50~18:30)

\* 17:40-17:50: interval for laptop PC connection.(1H1-54, 1H1-56, 1H1-57)

**1H1-54\*** Catalysis of coordination polymers composed of a platinum(II) metalloligand in water photo-reduction reaction (Knagawa Univ.) MIYAZAKI, Yuhei; KATAOKA, Yusuke; MORI, Wasuke; KAWAMOTO, Tatsuya**1H1-56** Withdrawn**1H1-57** Emission Color Turning of Vaulted Bis(salicylaldiminato)platinum Complexes with Electron-Donating Substituents (Graduate School of Engineering Science, Osaka Univ) HOSHINO, Makoto; OKADA, Minoru; KOMIYA, Naruyoshi; NAOTA, Takeshi

Tuesday, March 27, AM

## Low Coordination Species of Group 14 Elements

Chair: KAWACHI, Atsushi (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(3H1-01, 3H1-02, 3H1-03, 3H1-04, 3H1-06)

**3H1-01** Studies on Generation of a Silylene Bearing a Bulky Benzyl-substituent (Institute for Chemical Research, Kyoto Univ.; Tokyo Institute of Technology) SASAMORI, Takahiro; MIEDA, Eiko; SASE, Shohei; GOTO, Kei; TOKITOH, Norihiro**3H1-02** A Stable Dialkylsilylene Equilibrated with the Corresponding Dimer in Solution (Graduate School of Science, Tohoku Univ.) ABE, Takashi; TANAKA, Ryoji; ISHIDA, Shintaro; KIRA, Mitsuo; IWAMOTO, Takeaki**3H1-03** Synthesis and Reactivity of an N-Heterocyclic Germylene Distorted by a 7-Membered Chelate Ring (Gakushuin Univ.) ARII, Hidekazu; AMARI, Taiyo; KAWASHIMA, Takayuki; MOCHIDA, Kunio**3H1-04\*** Synthesis and Properties of Silyl-substituted Silylene-NHC Complex (Univ. of Tsukuba) TANAKA, Hiroaki; ICHINOHE, Masaaki; SEKIGUCHI, Akira**3H1-05** Synthesis and Structures of Dialkylsilylene-Copper Complexes (Tohoku Univ.) INAGAWA, Yuichiro; ISHIDA, Shintaro; IWAMOTO, Takeaki

Chair: KANNO, Ken-Ichiro (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(3H1-08, 3H1-10, 3H1-11,

3H1-12)

- 3H1-08\*** Synthesis and Characterization of Bis-Silylene Transition Metal Complexes (Technical Univ. Berlin) INOUE, Shigeyoshi; WANG, Wenyuan; DRIESS, Matthias
- 3H1-10** Synthesis, Structure and Reactivity of the Silylene Complexes of Group 4 Metals (Univ. of Tsukuba) AOKI, Shinji; YOKOYAMA, Taka; LEE, Vladimir Ya.; SEKIGUCHI, Akira
- 3H1-11** Synthesis and Properties of a Palladium Complex bearing a Stable Dialkylphosphinyl Radical as Ligand (Graduate School of Science, Tohoku Univ.) HIRAKAWA, Fumiya; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 3H1-12\*\*** Synthesis, Structures and Reactivity of Aminostannylenes Coordinated by *N*-Heterocyclic Carbenes (Kyoto Univ.) MAYER, Ulrich F.J.; AGOU, Tomohiro; TOKITOH, Norihiro

Chair: AGOU, Tomohiro (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3H1-15, 3H1-16, 3H1-17, 3H1-18, 3H1-19, 3H1-20)
- 3H1-15** Monitoring the Reduction of *N*-Heterocyclic Carbene Adduct of Aluminum Trichloride (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) MATSUOKA, Ryota; SAITO, Masaichi
- 3H1-16** Structures and Reactions of Plumbacyclopentadienylidenes Stabilized by Lewis Bases (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) SAITO, Masaichi; KANEKO, Misumi
- 3H1-17** Synthesis, Structure, and Reactivity of the Isolable Aryl-substituted Silyl Radical (Univ. of Tsukuba) TAIRA, Kanako; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 3H1-18** Synthesis and Properties of a Phenyl-Substituted Cyclohexadienyl Radical (Graduate School of Engineering, Gunma Univ.) ANZAWA, Hideki; OTSUKA, Kyohei; KANNO, Ken-ichiro; KYUSHIN, Soichiro
- 3H1-19** Tetrasilane-1,4-diyl: Synthesis, Structure, and Property of Silicon-centered Biradical Connected by Disilane Chain (Univ. of Tsukuba) NOZAWA, Takeshi; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 3H1-20** Unexpected Formation of Tetradicaloid Spiro-bis([1.1.1]propellane from Heavy Tricyclo[2.1.0.0<sup>2,2</sup>]pentane (Univ. of Tsukuba) ITO, Yuki; LEE, Vladimir Ya.; SEKIGUCHI, Akira

## Tuesday, March 27, PM

### Silyl Anion

Chair: SASE, Shohei (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3H1-28, 3H1-29, 3H1-30, 3H1-31, 3H1-33)
- 3H1-28** Reaction of Dimetalosilane with Diaryldifluorosilanes (Univ. of Tsukuba) FURUYA, Takumi; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 3H1-29** Generation and Reactivity of Trilithiosilane (Univ. of Tsukuba) MIYANO, Masashi; ICHINOHE, Masaaki; SEKIGUCHI, Akira

### Hypervalent Species of Group 14 Elements

- 3H1-30** Synthesis, Structures, and Properties of Dianions of Tetraphenylporphyrin-Silicon Complexes (Graduate School of Engineering, Gunma Univ.; Graduate School of Science, Tohoku Univ.) SUGIKI, Makoto; YOSHIMURA, Kimio; MATSUMOTO, Maiko; ISHIDA, Shintaro; KYUSHIN, Soichiro
- 3H1-31\*** Synthesis of Benzoquinoline-Based Dibenzosilolepines with Pentacoordinate Silicon (Graduate School of Engineering, Kyoto Univ.) TOKORO, Yuichiro; TANAKA, Kazuo; CHUJO, Yoshiki
- 3H1-33** Synthesis of pentacoordinated germanium compounds by reduction of a tetracoordinated germanium compound (Univ. of Tokyo; Gakushuin Univ.) SHIBATA, Yusuke; TSUKADA, Satoru; KANO, Naokazu; KAWASHIMA, Takayuki

### Structure, Reactivity and Properties of Group 14 Element Compounds

Chair: TANAKA, Kazuo (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(3H1-35, 3H1-36, 3H1-37, 3H1-38, 3H1-39)
- 3H1-35** Synthesis, Structures, and Reactions of Silicon-Functionalized Dibenzosilaborins (Graduate School of Science, Hiroshima Univ.) HIROFUJI, Tatsuya; KAWACHI, Atsushi; YAMAMOTO, Yohsuke
- 3H1-36** Cationic 1,4-silyl migration of quinone-fused silole derivatives (Shizuoka Univ.) WATANABE, Takahiro; KAWABE, Chika; SAKAMOTO, Kenkichi
- 3H1-37** Synthesis of Boron-Containing Cyclic Compounds by Intramolecular B-H/C-H Dehydrogenation (Graduate School of Science, Hiroshima Univ.) UEKI, Yukihiro; KAWACHI, Atsushi; YAMAMOTO, Yohsuke
- 3H1-38** Effect of Substituents on Silicon Atoms upon Absorption and Fluorescence Properties of Tetrakis(silylethynyl)pyrene Derivatives (Kanazawa Univ.) SHOJI, Tomokazu; MAEDA, Hajime; SEGI, Masahito
- 3H1-39\*** Diels-Alder Reaction of Reactive Cyclobutadiene with Benzene (Univ. of Tsukuba) INAGAKI, Yusuke; NAKAMOTO, Masaaki; SEKIGUCHI, Akira

Chair: ISHIDA, Shintaro (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(3H1-42, 3H1-43, 3H1-44, 3H1-45, 3H1-46, 3H1-47)
- 3H1-42** Heteroatom-substituted Tetrahedranes (Univ. of Tsukuba) OCHIAI, Tatsumi; NAKAMOTO, Masaaki; SEKIGUCHI, Akira
- 3H1-43** Synthesis of Strained Molecule with  $\pi$  system : Cross Coupling Reaction of Metal Substituted Tetrahedrane (Univ. of Tsukuba) KOBAYASHI, Yuzuru; NAKAMOTO, Masaaki; SEKIGUCHI, Akira
- 3H1-44** Synthesis, Structures and Properties of Linear and Branched Spirosiloxanes (Sagami Chem. Res. Inst.) TANAKA, Ryoji; AKIYAMA, Eiichi
- 3H1-45** Synthesis, Structures, and Reactions of 1,1,3-Trichloro- and 1,1,3,3-Tetrachlorocyclohexasilanes (Graduate School of Engineering, Gunma Univ.) KOGANEZONO, Makoto; OTSUKA, Kyohei; TSURUSAKI, Akihiro; KYUSHIN, Soichiro
- 3H1-46** Synthesis of 1,1,2,2-Tetrachlorocyclopentasilane (Graduate School of Engineering, Gunma Univ.; Faculty of Engineering, Gunma Univ.) TSURUSAKI, Akihiro; IIZUKA, Chisato; OTSUKA, Kyohei; KYUSHIN, Soichiro
- 3H1-47** Synthesis of Trisilylsilane Bearing a Bulky Aryl Group and its Desilylation (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) EBATA, Hiroaki; SAITO, Masaichi

Chair: SASAMORI, Takahiro (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(3H1-49, 3H1-50, 3H1-51, 3H1-52, 3H1-53)
- 3H1-49** Synthesis and Reactions of Trisilylgermane Bearing a Bulky Aryl Group on Germanium (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) KUROKAWA, Nobuaki; SAITO, Masaichi
- 3H1-50** Thermal Reaction of Phenylethynylsilylgermane (Kurashiki Univ. of Science and the Arts) KAJIHARA, Tomohito; NAKA, Akinobu
- 3H1-51** Synthesis, Structure, and Properties of an Octasilasecubane (Graduate School of Engineering, Gunma Univ.; Graduate School of Science, Tohoku Univ.) OTSUKA, Kyohei; ISHIDA, Shintaro; KYUSHIN, Soichiro
- 3H1-52** Skeletal Rearrangement of an Octasilacubane Derivative via Its Dianion (Graduate School of Engineering, Gunma Univ.; Graduate School of Science, Tohoku Univ.) TOMA, Yuki; OTSUKA, Kyohei; ISHIDA, Shintaro; KYUSHIN, Soichiro
- 3H1-53\*** Synthesis of silicon analogues of [7]staffanes and their conjugation between silicon cage (Graduate School of Science, Tohoku Univ.) TSUSHIMA, Daisuke; ISHIDA, Shintaro; KWON, Eunsang; ISOBE, Hiroyuki; IWAMOTO, Takeaki

## Wednesday, March 28, AM

### Oligosilane

Chair: NAMAMOTO, Masaaki (9 : 00 ~9 : 40)

- \* 8:50-9:00: interval for laptop PC connection.(4H1-01, 4H1-02, 4H1-03, 4H1-04)
- 4H1-01** Synthesis of Unsymmetrically Substituted Oligosilanes via Partial Reduction of Dichloro-oligosilanes (Graduate School of Engineering, Gunma Univ.) NIWAYAMA, Yuka; KANNO, Ken-ichiro; KYUSHIN, Soichiro
- 4H1-02** Studies on the End Groups and the Polymerization Degree of Poly(dimethylsilane) (Graduate School of Engineering, Gunma Univ.; Advanced Institute of Materials Science) ICHIKAWA, Keisuke; KYUSHIN, Soichiro; ICHIKAWA, Hiroshi; OKAMURA, Kiyohito; SUZUKI, Kenji
- 4H1-03** Synthesis and photophysical properties of long-chain oligosilanes with push-pull type substituents (Shizuoka Univ.) KIDA, Takeshi; SAKAMOTO, Kenkichi
- 4H1-04** Synthesis and photophysical properties of oligosilanes with carboxylphenyl substituents (Shizuoka Univ.) TOKIWA, Mami; KIDA, Takeshi; SAKAMOTO, Kenkichi

### Multiply-Bonded Compounds of Group 14 Elements

Chair: ISHIDA, Shintaro (9 : 50 ~10 : 50)

- \* 9:40-9:50: interval for laptop PC connection.(4H1-06, 4H1-08, 4H1-10)
- 4H1-06\*** Reaction of Disilyne with Ketone and Oxetane: Syntheses, Structures, and Properties of Alkoxy-substituted Disilenes (Univ. of Tsukuba) TAKEUCHI, Katsuhiko; IKOSHI, Masao; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 4H1-08\*** Attempted Synthesis of Ansa-type Ferrocenyldigermene (Institute for Chemical Research, Kyoto Univ.) MIYAMOTO, Hisashi; SASAMORI, Takahiro; TOKITOH, Norihiro
- 4H1-10\*** Dibromodisilenes: Dissociation into Bromosilylenes and Transformations into Aryl-substituted Disilenes (RIKEN ASI) SUZUKI, Katsunori; MATSUO, Tsukasa; HASHIZUME, Daisuke; TAMAO, Kohei

Chair: INOUE, Shigeyoshi (11 : 00~11 : 40)

- \* 10:50-11:00: interval for laptop PC connection.(4H1-13, 4H1-15, 4H1-16, 4H1-17)
- 4H1-13\*** Elucidation of the Reactivity of Stable 1,2-Dibromodisilene Derivatives and Application toward the Syntheses of Novel Low-coordinated Silicon

Species (Kyoto Univ.) AGOU, Tomohiro; HAN, Joon-soo; SASAMORI, Takahiro; TOKITOH, Norihiro

**4H1-15** Generation and Trap of Disilene with Polycyclic Silicon Skelton (Tohoku Univ.) FURIYA, Yuichi; ISHIDA, Shintaro; IWAMOTO, Takeaki

**4H1-16** Reaction of Disilenyllithium with tetrachlorosilane. (Univ. of Tsukuba) TAMURA, Nozomi; ICHINOHE, Masaaki; SEKIGUCHI, Akira

Chair: NAMAMOTO, Masaaki (11:40~12:00)

**4H1-17\*** Synthesis and Properties of Disilenes Bearing Alkynyl Groups (Institute for Chemical Research, Kyoto Univ.) SATO, Takahiro; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

### Wednesday, March 28, PM

Chair: TANAKA, Ryoji (13:10~14:00)

\* 13:00-13:10: interval for laptop PC connection.(4H1-26, 4H1-27, 4H1-28, 4H1-29, 4H1-30)

**4H1-26** Synthesis, Structure, and Reactivity of a Disilenyilmagnesium Bromide by the Reaction of a Disilyne with Methylmagnesium Bromide (Univ. of Tsukuba) HAGA, Kenshiro; TAKEUCHI, Katsuhiko; ICHINOHE, Masaaki; SEKIGUCHI, Akira

**4H1-27** The mechanistic study of the reaction of disilyne with phenols and the isomerization of phenoxydisilene (Univ. of Tsukuba) TAKEUCHI, Toshihiro; ICHINOHE, Masaaki; SEKIGUCHI, Akira

**4H1-28** Synthesis and Functionalization of Novel Fused Bicyclic Disilenes with Phenyl Groups (Graduate School of Science, Tohoku Univ.) SAITO, Yusuke; ISHIDA, Shintaro; IWAMOTO, Takeaki

**4H1-29** Synthetic Study on a Cyclic Disilene Containing a (Z)-Endiynic Structure (Institute for Chemical Research, Kyoto Univ.) EGAWA, Yasunobu; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

**4H1-30\*** An NHC-Supported Disilanyl Cation: A Base Stabilized Silicon Analog of Vinyl Cation (Univ. of Tsukuba) ASAY, Matthew; YAMAGUCHI, Torahiko; SEKIGUCHI, Akira

Chair: MIZUHATA, Yoshiyuki (14:10~15:00)

\* 14:00-14:10: interval for laptop PC connection.(4H1-32, 4H1-33, 4H1-34, 4H1-36)

**4H1-32\*** Making a Cyclotrigermene from a Digermene (Univ. of Tsukuba) MCNEICE, Kiera; LEE, Vladimir Ya.; SEKIGUCHI, Akira

**4H1-33** Reaction of cyclotrisilene with isocyanides (Univ. of Tsukuba) OHMORI, Yu; ICHINOHE, Masaaki; SEKIGUCHI, Akira

**4H1-34\*** Germanone: The First Isolated Heavy Ketone with a Terminal Oxygen Atom (RIKEN) LI, Liangchun; MATSUO, Tsukasa; HASHIZUME, Daisuke; FUENO, Hiroyuki; TANAKA, Kazuyoshi; TAMAO, Kohei

**4H1-36** Bismuth-catalyzed Carboarylation of Alkynylarenes Using Iminium ions (Hiroshima Univ.) KOMEYAMA, Kimihiro; YAMADA, Takahiro; TAKAKI, Ken

## Room H2 6th Bldg. J612

### Education and History

#### Sunday, March 25, AM

Chair: KUWAHARA, Shota (9:00~9:50)

\* 8:50-9:00: interval for laptop PC connection.(1H2-01, 1H2-02, 1H2-03, 1H2-04, 1H2-05)

**1H2-01** Craft of plane mirror without the stench -unelectrolyzed silver plating method by using EDTA and tin(II) salt integrated with anionic surfactants- (Tokyo Univ. Sci) KANEKO, Sayaka; INOUE, Masayuki

**1H2-02** Detection of reductive sugars utilizing copper(II) compound supported on chitosan (Tokyo Univ. Sci.) OGURA, Shouhei; INOUE, Masayuki

**1H2-03** Development of an experiment about the oxidation of alcohols utilizing gold catalyst supported on chitin (Tokyo Univ. Sci.) HASEGAWA, Sho; INOUE, Masayuki

**1H2-04** A teaching material using analgesic ibuprofen (Graduate School of Education, Hiroshima Univ.) FUJII, Yoshihiro; AMIMOTO, Kiichi

**1H2-05** Density Measurement of Ethanol-Water Mixtures using Microscale Experiment (Kobe College) NAKAGAWA, Tetsuo

Chair: OGINO, Kazuko (10:00~11:00)

\* 9:50-10:00: interval for laptop PC connection.(1H2-07, 1H2-09, 1H2-10)

**1H2-07\*** Development of microscale experiments in physical chemistry for chemical education for undergraduates part I (Chuo Univ.) KUWAHARA, Shota; TAKEDA, Akira; MIYAHARA, Tomorrow; TSUCHIYA, Naomi; KATAYAMA, Kenji

**1H2-09** Development of microscale experiments in physical chemistry for

chemicaleducation for undergraduates(2) (Chuo Univ.) TSUCHIYA, Naomi; YABE, Taeko; KUWAHARA, Shota; KATAYAMA, Kenji

**1H2-10 CSJ Award for Merits for Chemical Education** Development of Teaching Material for Chemical Experiments and Contribution to the Chemistry Regional Chemical Education (Natori High School Miyagi) FUJIKAWA, Takuji

Chair: INOUE, Masayuki (11:10~12:00)

\* 11:00-11:10: interval for laptop PC connection.(1H2-14, 1H2-16)

**1H2-14\*** Development of Microscale Chemistry Kits (Tohoku Univ.) OGINO, Kazuko

**1H2-16 CSJ Award for Merits for Chemical Education** Development of Micro Scale Chemical Experiments Using a Microscope (Okayama Pref. Senior High School; Kibi International Univ.) NINOMIYA, Akio

### Monday, March 26, AM

Chair: MATSUBARA, Shizuo (9:00~9:40)

\* 8:50-9:00: interval for laptop PC connection.(2H2-01, 2H2-02, 2H2-03)

**2H2-01** Development of the demonstrations table of the type which can move (NIER) GOTO, Kenichi

**2H2-02** Development of the kit for biomass energy learning which use apple pomace and hydrogen fuel cell (Komyo Rikagaku Kogyo K.K.) IZUMI, Keisuke; KAWAMURA, Koji; HONMA, Hiroaki; IWASAKI, Tadashi

**2H2-03\*** Inquiry-Based Learning at High School Chemistry (1) Determination of Reaction Ratio by Continuous Variation Method (Hiroshima Univ.; Hagi High School; Chofu High School; Tsurusaki Technical High School) TATSUOKA, Tomoyuki; SHIGEDOMI, Kana; IWASAKI, Akiko; SAKURAI, Keisuke; KOGA, Nobuyoshi

Chair: SAITO, Koichi (9:50~10:50)

\* 9:40-9:50: interval for laptop PC connection.(2H2-06)

**2H2-06 CSJ Award for Chemical Education** Long-time Contribution to Advancement and Spread of Chemistry through Chemical Demonstrations (Emeritus Prof., Tokyo Metropolitan Univ.) IKEMOTO, Isao

Chair: SHIMOI, Mamoru (11:00~12:00)

\* 10:50-11:00: interval for laptop PC connection.(2H2-13)

**2H2-13 CSJ Award for Chemical Education** Contribution to the Project of Promoting Chemical Education and Chemical Education for Women (J.W.U.) ARIKAWA, Yoshiko

### Tuesday, March 27, AM

Chair: NIIDA, Satoshi (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(3H2-01, 3H2-02, 3H2-04)

**3H2-01** New trial of the science communicators training (Univ. of Yamagata) SUGAWARA, Akira; KURIYAMA, Yasunao; KONNO, Susumu

**3H2-02\*** Designing and Developing an Exhibition to Discover Fun and Importance of Chemistry: Case Studies in Special Exhibition with respect to IYC2011"Your Magic? It's Chemistry!" (National Museum of Emerging Science and Innovation) TAKEUCHI, Kei; SHUICHI, Jiro; ANPEIJI, Shigeharu; OHTA, Teruto

**3H2-04 CSJ Award for Merits for Chemical Education** Chemistry Education for Environment and Practices on Science Communication Activities (Fukushima senior high school) HASHIDZUME, Kiyonari

Chair: TAKAHASHI, Mitsuo (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(3H2-08, 3H2-11)

**3H2-08 CSJ Award for Merits for Chemical Education** Contribution to Instructions in High School Club Activities and Developments in Regional Chemical Education (Izumo High School) KATSUBE, Hideko

**3H2-11 CSJ Award for Merits for Chemical Education** Dissemination of Chemistry for Young People (Saitama Prefectural Okegawa High School) TAKAMATSU, Masakatsu

Chair: TAKEUCHI, Kei (11:20~12:00)

\* 11:10-11:20: interval for laptop PC connection.(3H2-15, 3H2-16)

**3H2-15** What is "the chemical literacy" for ordinary citizens? - Messages from the 3.11 disaster - (Institute for Molecular Science, Public Affairs Office) TERAUCHI, Kaede; TERAUCHI, Mamoru

**3H2-16 CSJ Award for Merits for Chemical Education** Contribution to Chemistry Education through Enlightenment Activities for the Youth (Naragakuen Junior High Sch., High Sch.) KUDO, Hiroyuki

### Tuesday, March 27, PM

Chair: TANAKA, Yoshiyasu (13:10~14:10)

\* 13:00-13:10: interval for laptop PC connection.(3H2-26, 3H2-27, 3H2-29)

**3H2-26** Measurement of atmospheric pressure with syringe, force sensor, GPS and Google earth. (Hokkaido Univ. of Education, Sapporo) TAGUCHI, Satoshi; OTAKI, Yumi

**3H2-27\*** Development of the handmade oxygen sensor kit using the air battery for science education (Tokyo National College of Technology)

TAKAHASHI, Mitsuo; SATO, Michiyuk; GOTO, Kenichi; HAYASHI, Seiichi; HORI, Tesuo; YAMAMOTO, Katsuhiro; TERATANI, Shousuke; MATSUBARA, Shizuo

**3H2-29 CSJ Award for Merits for Chemical Education** Development of Chemistry Experiments and Cultivation of Excellent Science Teachers (Center for Higher Educational Development, Tokyo Univ. of Agriculture and Technology) SATO, Tomohisa

Chair: ITO, Masato (14:20~15:20)

\* 14:10-14:20: interval for laptop PC connection.(3H2-33)

**3H2-33 CSJ Award for Chemical Education** Contribution to Succession Planning in Chemical Education and the Advancement and Spread of Chemistry through Development of Novel Teaching Materials (Tokyo Gakuji Univ.) HASEGAWA, Tadashi

Chair: SATO, Tomohisa (15:30~16:00)

\* 15:20-15:30: interval for laptop PC connection.(3H2-40)

**3H2-40 CSJ Award for Merits for Chemical Education** Development of Teaching Materials and Management of Educators'network (Tokyo Metropolitan Toyama Senior High School) TANAKA, Yoshiyasu

Chair: TAGUCHI, Satoshi (16:10~17:00)

\* 16:00-16:10: interval for laptop PC connection.(3H2-44, 3H2-45, 3H2-47)

**3H2-44** Teaching material for the combustion that uses reaction paths of the methane oxidation. (Osaka Science Museum, Nara Univ. of Education) TAKEGAWA, Yukiko; YAMABE, Shin-ichi

**3H2-45\*** Visualization material of particulate and kinetic concepts of chemical equilibria by physical models (Yamaguchi Univ.) MURAKAMI, Kiyofumi; KOMATSU, Yusuke

**3H2-47\*** Guidance of experiments for undergraduate students utilizing different kinds of movies. (Keio Univ. Med.) KUBOTA, Mari; OISHI, Takeshi

Chair: SHIMOI, Mamoru (17:10~18:10)

\* 17:00-17:10: interval for laptop PC connection.(3H2-50)

**3H2-50 CSJ Award for Chemical Education** International Contribution to Chemical Education with the Aid of Internet (Fac. Eng., Soka Univ.) ITO, Masato

### Wednesday, March 28, AM

Chair: ITO, Masato (10:00~10:40)

\* 9:50-10:00: interval for laptop PC connection.(4H2-07, 4H2-09, 4H2-10)

**4H2-07\*** Development of an online language support system for oral presentations delivered in Japanese and English (Waseda Univ.; Osaka Univ.; Mukogawa Women's Univ.; Osaka Jogakuin College) KUNIOSHI, Nilson; HAYASHI, Hiroko; NOGUCHI, Judy; TOJO, Kazuko

**4H2-09** Development of environmental-benign teaching material; application for science world (Kagawa Univ.) TAKAGI, Yumiko; YASUI, Masaki; KAGAWA, Saneyoshi; MAEDA, Keiko

**4H2-10** Junior High School Student's Attitude toward School Science textbook between China and Japan (Kagawa Univ.) TAKAGI, Yumiko; WANG, Shan; SASAKI, Nobuyuki; NISHIHARA, Hiroshi

Chair: TAKAGI, Yumiko (10:50~11:30)

\* 10:40-10:50: interval for laptop PC connection.(4H2-12, 4H2-13, 4H2-14)

**4H2-12** Practice of the Chemical Experiments Study in the Sendai Astronomical Observatory and Development of Interdisciplinary Teaching Materials (Miyagi Univ. of Education) BENI, Tomohiro; AIHARA, Kurumi; TANNO, Hiroki; KOIWA, Keita; KASAI, Kayoko

**4H2-13** "Elements Calendar"-Aiming at Enhanced Public Appreciation of Chemistry Through Elements (Soka Univ.) ITO, Masato M.

**4H2-14\*** New chemical structural formula can express a special stability of 6-pai electrons system (Lab.of Global E.System) SANNO, Hiroshi

**Room H3**  
6th Bldg. J631

### Colloid and Interface Chemistry

#### Sunday, March 25, PM

Chair: KAMEYAMA, Atsushi (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(1H3-28, 1H3-29, 1H3-30, 1H3-32)

**1H3-28** Surfactant effects on the fluorescence properties of perylene nanoparticles prepared by laser ablation in water (Ehime Univ.) SASAKI, Shino; ASAH, Tsuyoshi

**1H3-29** The fabrication of the Anti-Cancer Pure Nano Drugs and Their Size Control (Univ. of Tohoku, IMRAM) IKUTA, Yoshikazu; KASAI, Hitoshi; KOSEKI, Yoshitaka; BABA, Koichi; OKAWA, Hidetoshi; NAKANISHI, Hachiro; MURAKAMI, Tatsuya; IMAHORI, Hiroshi; HASHIDA, Mitsuru;

OKADA, Masahiro; UEDA, Minoru

**1H3-30\*** Preparation of Polystyrene/Magnesium Hydroxide Composite Particles by Seeded Dispersion Sol-Gel Process in an Ionic Liquid (Graduate School of Engineering, Kobe Univ.) KINOSHITA, Keigo; MINAMI, Hideto; YANAGIMOTO, Hiroshi

**1H3-32\*** Study on nanoparticles of PEG-b-Py block copolymers (Tokyo Univ. of Science) IKENAGA, Yusuke; OTSUKA, Hidenori

Chair: OTSUKA, Hidenori (14:40~15:30)

\* 14:30-14:40: interval for laptop PC connection.(1H3-35, 1H3-36, 1H3-37, 1H3-38)

**1H3-35** One-Dimensional Fusion Behavior of Nanocapsules Composed of poly(vinyl alcohol) Nanofilms (Osaka Univ.) OHTA, Tomoya; KONDO, Kenta; KIDA, Toshiyuki; AKASHI, Mitsuru

**1H3-36** Preparation and evaluation of the CMC microgel particles containing silver nanoparticles (Kanagawa Univ.) SANO, Yuto; MIYASAKA, Makoto; KAMEYAMA, Atsushi; KAWAGUCHI, Haruma

**1H3-37** Synthesis of PEDOT nanorods using a soft template of a long-chain amidoamine derivative (Tokyo Univ. of Science) HAGIWARA, Yu; ENDO, Hiroshi; KAWAI, Takeshi

**1H3-38\*** Development of separation technique of platinum-group metals by laser-induced particle formation (JAEA; Quantum Beam Science Directorate) SAEKI, Morihisa; OHBA, Hironori

Chair: TANAKA, Hideki (15:40~16:20)

\* 15:30-15:40: interval for laptop PC connection.(1H3-41, 1H3-43)

**1H3-41\*** Electrochemical Deposition of Metal Nanoparticles on Conductive Substrates by AFM (Institute of Industrial Science, the Univ. of Tokyo) TANABE, Ichiro; SAKAI, Nobuyuki; TATSUMA, Tetsu

**1H3-43\*** Thermodynamics of the exchange of carbon nanotube solubilizers (Kyushu Univ.) KATO, Yuichi; INOUE, Ayaka; NIIDOME, Yasuro; NAKASHIMA, Naotoshi

Chair: NIIDOME, Yasuro (16:30~17:20)

\* 16:20-16:30: interval for laptop PC connection.(1H3-46, 1H3-47, 1H3-48, 1H3-49, 1H3-50)

**1H3-46** Synthesis of copper nanoparticles formed on carbon nanotubes by photo irradiation (Chuo Univ.) NISHIDA, Naoki; MIYASHITA, Akira; TANAKA, Hideki

**1H3-47** Stability of C60 nano-colloids prepared by laser ablation of its powder in pure water. (Ehime Univ.) ARINISHI, Miya; ASAH, Tsuyoshi

**1H3-48** Precise Measurement of Aggregation Size of Polyhydroxylated Fullerenes using Induced Grating Method and the Size Changing based on Solvent-Solvate Interaction (Graduate School of Engineering, Osaka Univ.) NAKAMURA, Yuji; UENO, Hiroshi; KOKUBO, Ken; OSHIMA, Takumi

**1H3-49** Synthesis of gold nanoparticles surrounded by C60 containing thiol derivatives and estimate of their basic properties (Tokyo National College of Technology) YOSHIZAWA, Daisuke; NISHIOKA, Ayami; ISHIKAWA, Yoshie; KUSUNOSE, Takafumi; FUNAHASHI, Masahiro; MACHIDA, Shigeru

**1H3-50** Preparation of graphene oxide by environment-friendly electrochemical method (Department of Polymer Science and Engineering, Yamagata Univ.) SOBE, Yuhei; OKIMOTO, Haruya; SANO, Masahito

### Monday, March 26, AM

Chair: MAENOSONO, Shinya (9:20~10:00)

\* 9:10-9:20: interval for laptop PC connection.(2H3-03, 2H3-04, 2H3-05, 2H3-06)

**2H3-03** Photoswitching of Reversible Dispersion-Coagulation of Azobenzene Derivative Capped Silver Nanoparticles (Tokyo Univ. of Science) TSUJI, Masaki; ENDO, Hiroshi; KAWAI, Takeshi

**2H3-04** Synthesis of Ag:SG triangular nanoplates and their interfection of  $\lambda$  DNA sequence (Chuo Univ.) ITO, Taihei; KOJIMA, Yasuhiro; NISHIDA, Naoki; TANAKA, Hideki

**2H3-05** Synthesis of chiral Ag triangular nanoplates and their chiroptical property (Faculty of Science and Engineering, Chuo Univ.) KOJIMA, Yasuhiro; NISHIDA, Naoki; TANAKA, Hideki

**2H3-06** Crystal-face dependence of hydrogen reactivity of Pd nanocrystal (Faculty of Science, Kyoto Univ.) HEMMI, Kojiro; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi

Chair: TERANISHI, Toshiharu (10:10~11:00)

\* 10:00-10:10: interval for laptop PC connection.(2H3-08, 2H3-09, 2H3-10, 2H3-12)

**2H3-08** Synthesis and Physical Properties of Pd-Cu Alloy Nanoparticles (Graduate School of Science, Kyoto Univ.) HOSAKA, Yoshiteru; KOBAYASHI, Hirokazu; MAESATO, Mituhiko; YAMADA, Teppei; KITAGAWA, Hiroshi

**2H3-09** Synthesis and Hydrogen-Storage Properties of Pd<sub>x</sub>Ni<sub>1-x</sub> Bimetallic Nanoparticles (Kyoto Univ.) SUGAMORI, Takeya; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi

**2H3-10\*** Synthesis and Gas Absorption Properties of Metal Nanocrystals/Porous Coordination Polymer Core/Shell Type Hybrid Nanomaterials (Kyoto Univ.) KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi

**2H3-12** Preparation and Growth Process of Gold-Silver Anisotropic Nanoparticles (Kyoto Prefectural Univ. Division of Applied Life Sciences) KUMAGAI, Keisuke; ISHIDA, Akito

Chair: ISHIDA, Akito (11:10~12:00)

- \* 11:00-11:10: interval for laptop PC connection.(2H3-14, 2H3-16, 2H3-17)
- 2H3-14\*** Correlation of Electron transfer and Chemical Stability in the (Au@Ag)/Au double-shell nanoparticles (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) NISHIMURA, Shun; DAO, Anh Thi Ngoc; MOTT, Derrick; EBITANI, Kohki; MAENOSONO, Shinya
- 2H3-16** Effect of Acetic Acid for Preparation of Platinum Nanoparticles by a Microwave Induced Plasma Method in Liquid Process (Division of Material Science and Engineering, Faculty of Engineering, Hokkaido Univ.) ARAI, Shota; NRUSHIMA, Takashi; YONEZAWA, Tetsu
- 2H3-17\*** Designed Synthesis of Monodisperse Metal/Pt Core/Shell Nanoparticles with Precisely-Tuned Pt Atomic Layers and Their CO Adsorption Properties (Univ. of Tsukuba; Tohoku Univ.; Kyoto Univ.) SATO, Ryota; ITO, Shin-ichi; TOMISHIGE, Keiichi; TERANISHI, Toshiharu

### Monday, March 26, PM

Chair: NEGISHI, Yuichi (13:10~14:10)

- \* 13:00-13:10: interval for laptop PC connection.(2H3-26, 2H3-27, 2H3-28, 2H3-29, 2H3-30, 2H3-31)
- 2H3-26** Preparation of gold nanoparticles involving the micellization of PEG-benzothiol surfactants (Graduate School of Science and Engineering, Kagoshima Univ.) MIHARA, Yuichi; OKAMURA, Hiroaki; KURAWAKI, Jyunnichi; IWAGAWA, Tetsuo; HAMADA, Toshiyuki
- 2H3-27** One-step preparation of mono- and disaccharides-gold nanoparticle hybrid materials (Graduate School of Science and Engineering, Kagoshima Univ.) OKIAYU, Yuta; OKAMURA, Hiroaki; KURAWAKI, Jyunnichi; IWAGAWA, Tetsuo; HAMADA, Toshiyuki
- 2H3-28** Fabrication and Catalytic Function of Gold Nanoparticles Supported on Isothiouonium-terminated Polythiophenes (Tokyo Metropolitan Univ.) OZAWA, Shunsuke; NISHIYABU, Ryuhei; KUBO, Yuji
- 2H3-29** Mechanism on Reduction of Tetrachloride Gold(III) Ions and Spontaneous Formation of Gold Nanoparticles in Sonicated Water (Shinshu Univ.) MIWA, Shoichi; OKADA, Tomohiko; MISHIMA, Shozi; SAKAI, Toshio
- 2H3-30** Gold Nanoparticles Synthesized by Wet Polymer-Reduction Method: Effect of Amino Group on Reduction of Tetrachloride Gold(III) Ions, Morphology and Colloidal Stability of Gold Nanoparticles (Shinshu Univ.) HORIUCHI, Yuya; OKADA, Tomohiko; MISHIMA, Shozi; SAKAI, Toshio
- 2H3-31** Synthesis of Gold Nanoparticles by Sputter Deposition of Au onto Liquid Polyethylene Glycol: Effect of Thiol Concentration and Temperature (GSAIS, Chiba Univ.; REC for NS, Keio Univ.) KATO, Jun-ichi; HATAKEYAMA, Yoshikiyo; MUKAI, Tomohiro; ONISHI, Kei; NISHIKAWA, Keiko

Chair: SAKAI, Toshio (14:20~15:20)

- \* 14:10-14:20: interval for laptop PC connection.(2H3-33, 2H3-34, 2H3-35, 2H3-36, 2H3-37)
- 2H3-33** Scattering spectral changes of a single gold nanoparticle induced by CW laser heating (Institute of Science and Technology, The Univ. of Tokushima) HASHIMOTO, Shuichi; SETOURA, Kenji; WERNER, Daniel; SHIRAIISHI, Ryowya
- 2H3-34** Synthesis and Optical Properties of Thiolated Gold Nanoparticles (Hokkaido Univ. Graduate school of environmental science) NAKAGAWA, Daisuke; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 2H3-35** Isolation and Structural Characterization of Magic-Numbered Gold Cluster Au<sub>130</sub>(thiolate)<sub>50</sub> and Au<sub>187</sub>(thiolate)<sub>68</sub> (Tokyo Univ. of Science) OHYAMA, Tatsuya; SAKAMOTO, Chihiro; TSUKUDA, Tatsuya; NEGISHI, Yuichi
- 2H3-36** Size Control of Au Nano Clusters Prepared by Sputter Deposition onto Ionic Liquids and Solvent Extraction (GSAIS, Chiba Univ.) ONISHI, Kei; HATAKEYAMA, Yoshikiyo; KATO, Jun-ichi; NISHIKAWA, Keiko
- 2H3-37\*** Synthesis of Au Nanoclusters by Sputter Deposition onto Ionic Liquids: Control Factors of Size and Local Structure of Au Nanoclusters (GSAIS, Chiba Univ.) HATAKEYAMA, Yoshikiyo; ONISHI, Kei; KATO, Jun-ichi; ASAKURA, Kiyotaka; NISHIKAWA, Keiko

Chair: NAKASHIMA, Naotoshi (15:30~16:30)

- \* 15:20-15:30: interval for laptop PC connection.(2H3-40, 2H3-42, 2H3-44, 2H3-45)
- 2H3-40\*** Platonic Hexahedron Composed of Six Porphyrin derivatives and Au cluster (Univ. of Tsukuba; CREST-JST) TANAKA, Daisuke; SAKAMOTO, Masanori; TERANISHI, Toshiharu
- 2H3-42\*** Photoinduced Electron Transfer of Porphyrin face-coordinated Au cluster (Univ. of Tsukuba) SAKAMOTO, Masanori; TANAKA, Daisuke; TERANISHI, Toshiharu
- 2H3-44** Synthesis of gold nanoparticles coated with porphyrins (KONAN Univ.) YAMASHITA, Daiki; MURASHIMA, Takashi; AKAMATSU, Kensuke; TSURUOKA, Takaaki
- 2H3-45** Neuron-shaped Au nanocrystals and dendric Au nanowires fabricated

using a long-chain amidoamine derivative (Tokyo Univ. of Science) IMURA, Yoshiro; MORITA, Clara; ENDO, Hiroshi; KAWAI, Takeshi

Chair: KAWAI, Takeshi (16:40~17:20)

- \* 16:30-16:40: interval for laptop PC connection.(2H3-47, 2H3-49, 2H3-50)
- 2H3-47\*** Control of aggregation of gold nanorods and surface-assisted laser desorption/ionization processes of the aggregates (Kyushu Univ.; JST CREST) NIIDOME, Yasuro; FUJII, Masanori; NAKAMURA, Yuki; NAKASHIMA, Naotoshi
- 2H3-49** Spectroscopic properties of Au-Ag core-shell nanorods and oxidation processes of the Ag shells (Department of Applied Chemistry, Graduate School of Engineering, Kyushu Univ.) TSURU, Yukiko; NIIDOME, Yasuro; KIYA, Ayaka; LIU, Fenggo; NAKASHIMA, Naotoshi
- 2H3-50** Cyclic Voltammograms of Au-Ag Core-Shell Nanorods-modified ITO Plate and Their Spectroscopic Properties (Dept. of Appl. Chem., Kyushu Univ.) HAMASAKI, Yuki; TSURU, Yukiko; KIYA, Ayaka; NAKASHIMA, Naotoshi; NIIDOME, Yasuro

### Tuesday, March 27, AM

Chair: TATSUMA, Tetsu (10:00~10:50)

- \* 9:50-10:00: interval for laptop PC connection.(3H3-07, 3H3-08, 3H3-09, 3H3-11)
- 3H3-07** Geometric and Electronic Structure of Size Controlled Platinum Cluster (Chemical resources laboratory, Tokyo institute of technology; ICU) OMURA, Saori; IMAOKA, Takane; CHUN, Wang-jae; YAMAMOTO, Kimihisa
- 3H3-08** Strategy of structure control of Au;Ag;Cu hybrid nanoparticles (Tokyo Institute of Technology ; Graduate School of Science and Engineering) WANG, Dan; CHEN, Zhi; MOCHIZUKI, Dai; MAITANI, Masato; WADA, Yuji
- 3H3-09\*** Structure control of core-shell Ag-Cu nanoparticles under microwave irradiation and the retarded effect of Ag on oxidation of Cu (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) CHEN, Zhi; WANG, Dan; MOCHIZUKI, Dai; MAITANI, Masato; WADA, Yuji
- 3H3-11** Photoelectrochemical properties of organic thin film electrodes containing metal nanoparticles (Kyushu Univ.) TAKAHASHI, Yukina; TAKESHITA, Megumi; MITARAI, Hiroko; YAMADA, Sunao

Chair: OIKAWA, Hidetoshi (11:00~12:00)

- \* 10:50-11:00: interval for laptop PC connection.(3H3-13)
- 3H3-13 CSJ Award for Creative Works** Functional Materials Based on Photoinduced Redox Reactions of Metal Nanoparticles (IIS, The Univ. of Tokyo) TATSUMA, Tetsu

### Tuesday, March 27, PM

Chair: OGAWA, Makoto (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(3H3-34, 3H3-36, 3H3-37, 3H3-38, 3H3-39)
- 3H3-34\*** Effects of Chemical Structures of Oils on Phase Inversions of Pickering Emulsions (Konan Univ.; Department of Chemistry of Functional Molecules) OKUTANI, Hayato; YAMAMOTO, Masahiro; MURAKAMI, Ryo
- 3H3-36** Two-dimensional structure by binary colloidal systems at oil-water interfaces (Institute of Advanced Energy, Kyoto Univ.) TSUCHIYA, Kiyoto; KOZAWA, Daichi; GISLE, Oye; SAKKA, Tetsuo; FUKAMI, Kazuhiro; OGATA, Yukio
- 3H3-37** Fabrication of Zinc Oxide Nanoring Array Using Solvent-Evaporation-Induced Self-Assembling (Nagoya Univ.) MIZUTANI, Mayu; OKAZAKI, Ken-ichi; TORIMOTO, Tsukasa
- 3H3-38** Manipulation of iron oxide nanoparticles-assembled lysozyme crystals by magnetic field (Genesis Research Institute, Inc ; the Univ. of Tokyo) TAKEDA, Yoshihiro; MAFUNE, Fumitaka
- 3H3-39** Preparation of Monodispersible Particles by Membrane Emulsification Using Anodic Porous Alumina (Tokyo Metropolitan Univ., KAST) INOUE, Taito; YANAGISHITA, Takashi; NISHIO, Kazuyuki; MASUDA, Hideki

Chair: TORIMOTO, Tsukasa (15:40~16:40)

- \* 15:30-15:40: interval for laptop PC connection.(3H3-41, 3H3-43, 3H3-44, 3H3-45)
- 3H3-41\*** Influence of Sr(II) on the Formation of Calcium Hydroxyapatite Prepared using Phenyl Phosphate (Shimane Univ.; Faculty of Sci. and Eng.) TANAKA, Hidekazu; NISHIMOTO, Suguru
- 3H3-43** Particle size distributions of organo-functionalized monodisperse silica nanoparticles: effect of concentration of organo silane (Yokohama National Univ.) TAKEDA, Yasunari; KOMORI, Yoshihiko; YOSHITAKE, Hideaki
- 3H3-44** Liquid Phase Synthesis of Antimony-Doped Tin Oxide Nanoparticles for Ink-Coating (IMRAM Tohoku Univ.) AKAMA, Yuki; KANIE, Kiyoshi; MURAMATSU, Atsushi
- 3H3-45\*** Hydrothermal synthesis of organic-modified ceria nanocrystals (Nagoya Institute of Technology) KOBAYASHI, Katsutoshi; HANEDA, Masaaki; OZAWA, Masakuni

Chair: MIYAJIMA, Ken (16 : 50~17 : 40)

- \* 16:40-16:50: interval for laptop PC connection.(3H3-48, 3H3-50, 3H3-52)  
**3H3-48\*** Size control of monodispersed titania-alkylamine hybrid spherical particles by dissolution into alcohol (Waseda Univ.; Graduate School of Creative Science and Engineering) SHIBA, Kota; OGAWA, Makoto  
**3H3-50\*** Preparation of Photocatalysts with Morphology-controlled Rh Nanoparticles (Univ. of Tsukuba; Univ. of Tokyo; Kyoto Univ.) IKEDA, Takahiro; XIONG, Anke; YOSHINAGA, Taizo; MAEDA, Kazuhiko; DOMEN, Kazunari; TERANISHI, Toshiharu  
**3H3-52** Spectral Modification Based on Localized Surface Plasmon Resonance of Au Nanoparticles Deposited on a TiO<sub>2</sub> Film (Institute of Industrial Science, the Univ. of Tokyo) KONISHI, Yohei; TANABE, Ichiro; TATSUMA, Tetsu

Chair: KANIE, Kiyoshi (17 : 50~18 : 30)

- \* 17:40-17:50: interval for laptop PC connection.(3H3-54, 3H3-55, 3H3-56, 3H3-57)  
**3H3-54** Characterization of Au Nanoparticles Formed in Ionic Liquid at Nanopore of Mesoporous Silica by X-ray Irradiation (Osaka Univ., JST/CREST) ARIMURA, Takashi; SAKAMOTO, Taiki; TSUDA, Tetsuya; KUWABATA, Susumu; FUKUI, Ken-ichi; IMANISHI, Akihito  
**3H3-55** Size-controlled Synthesis of CdS Nanoparticles in water-ionic liquid Mixture (Wakayama National College of Technology) HAYASHI, Junjiro; MORI, Midori  
**3H3-56** Synthesis of Metal-Doped CdSe Nanocrystals and Their Optical Properties (Kwansei Gakuin Univ. ; School of science and technology) OZAKI, Masakazu; MIYAMAE, Syouta; TSUBOI, Motohiro; TAMAI, Naoto  
**3H3-57** Synthesis of Precise Size Control of Cu<sub>2</sub>ZnSnS<sub>4</sub> Nanoparticles (Nagoya Univ.) NAGANO, Takahito; SUZUKI, Shushi; KUDO, Akihiko; KUWABATA, Susumu; TORIMOTO, Tsukasa

## Room H4

6th Bldg. J632

### Colloid and Interface Chemistry

Sunday, March 25, PM

#### Monolayer films, LB films (Langmuir-Blodgett)

Chair: IIMURA, Ken-Ichi (12 : 30~13 : 30)

- \* 12:20-12:30: interval for laptop PC connection.(1H4-22, 1H4-23, 1H4-24, 1H4-25, 1H4-27)  
**1H4-22** Morphological Transition from Nanosheet to Nanosphere of Ternary Comb Copolymers with Carbazole Rings (Faculty of Eng. and Graduate School of Sci. and Eng., Saitama Univ.) KANEKO, Yohei; FUJIMORI, Atsuhiko  
**1H4-23** Control of Arrangement for DNA Molecules Chemisorbed to the Organized Molecular Films of Comb Copolymers Containing s-Triazine (Faculty of Eng., and Graduate School of Sci. and Eng., Saitama Univ.) TAGUCHI, Makoto; FUJIMORI, Atsuhiko  
**1H4-24** The surface pressure dependence on the action of vibrio cholerae hemolysin to DMPC/cholesterol on PBS (Saga Univ.) HIRANO, Takaaki; SETO, Hiroshige; IKIGAI, Hajime; NARITA, Takayuki; OISHI, Yushi  
**1H4-25\*** Tuning of the Optical Properties of Merocyanine-Dye Containing LB Films by Hydrothermal Treatment-Rearrangement of J-aggregate associated with the Generation of Superstructures- (Graduate School of Eng., Toin Univ. of Yokohama) MIURA, Yasuhiro; SANO, Motoaki; SUGIMOTO, Tsuneyoshi  
**1H4-27** Nanostructural Control of Biological Molecules Arranged by Using Langmuir-Blodgett Films of Organo-modified Aluminosilicate as a Template (Faculty of Eng. and Graduate School of Sci. and Eng., Saitama Univ., Kunimine Industries Co., Ltd.) ARAI, Shuntaro; KUSAKA, Jun-ichi; KUBOTA, Munehiro; KUROSAKA, Kei-ichi; FUJIMORI, Atsuhiko

Chair: FUJIMORI, Atsuhiko (13 : 40~14 : 40)

- \* 13:30-13:40: interval for laptop PC connection.(1H4-29, 1H4-30, 1H4-32, 1H4-33)  
**1H4-29** The role of subphase species in formation of lead-based perovskite by using alkyl amine (Saga Univ.) TSUKAMOTO, Eri; HIRAMATSU, Kenji; NARITA, Takayuki; ERA, Masanao; OISHI, Yushi  
**1H4-30\*** Fabrication and photo-response of octaalkoxyphthalocyanine-metal oxide semiconductor hybrid Langmuir-Blodgett film (Shinshu Univ.) USAMI, Hisanao; SASAKI, Satoshi  
**1H4-32** Fabrication and structural evaluation of two-dimensional polymer nanosheets composed of tritopic molecular buildingunits on liquid surfaces (Osaka Prefecture Univ.) TSUCHIYAMA, Kohei; MAKIURA, Rie  
**1H4-33\*** Assembly of coordination polymer nanosheets at the air/liquid interfaces and ligand effects to the crystalline domain size (Osaka Prefecture Univ.) MAKIURA, Rie; TSUCHIYAMA, Kohei

Chair: OISHI, Yushi (14 : 50~15 : 50)

- \* 14:40-14:50: interval for laptop PC connection.(1H4-36, 1H4-38, 1H4-40, 1H4-41)  
**1H4-36\*** Structural Analysis and Photo-induced Current Property of Monolayers of Amphiphilic Organic Semiconductor Molecules with Graphene Fragment (Utsunomiya Univ.) AKABANE, Chika; KATO, Norihiro; IIMURA, Ken-ichi; FUKUSHIMA, Takanori; YAMAMOTO, Yohei; AIDA, Takuzo  
**1H4-38\*** Handoperating Technology for Molecular Recognition at the Air-Water Interface (NIMS) MORI, Taizo; OKAMOTO, Ken; ENDO, Hiroshi; HILL, Jonathan; SHINODA, Satoshi; MATSUKURA, Miki; TSUKUBE, Hiroshi; SUZUKI, Yasumasa; KANEKIYO, Yasumasa; ARIGA, Katsuhiko  
**1H4-40** Optical Characteristic Control by Hand Operating at the Air-water Interface (TUS; NIMS) FUJISAWA, Takuya; SAKAKIBARA, Keita; MORI, Taizo; SAKAI, Hideki; ABE, Masahiko; HILL, Jonathan; ARIGA, Katsuhiko  
**1H4-41\*** Adsorption behavior of stearic acid at solid/liquid interface studied by sum frequency generation spectroscopy (Hokkaido Univ., National Institute for Materials Science) ZHANG, Ya; NOGUUCHI, Hidneori; UOSAKI, Kohei

#### Self-assembled Films

Chair: UEMURA, Shinobu (16 : 00~17 : 00)

- \* 15:50-16:00: interval for laptop PC connection.(1H4-43, 1H4-44, 1H4-45, 1H4-46, 1H4-47)  
**1H4-43** In situ gap-mode SERS spectroscopy of self-assembled monolayers on single crystalline gold electrodes. (Hokkaido Univ.) KIMURA, Aya; IKEDA, Katsuyoshi; MURAKOSHI, Kei  
**1H4-44** Electrochemical analysis of self-assembled monolayers consisting of thiophene derivatives on Gold (Max Planck Institute for Polymer Research) IKEDA, Taichi; SHIMODA, Masahiko; BUTT, Hans-juergen  
**1H4-45** Molecular Elongation by Repeated Cross-coupling Reactions on the Self-assembled Monolayer of a Tripod-shaped Trithiol and Electrochemical Determination of Product Yield (Mie Univ.) UMEMURA, Hisashi; KITAGAWA, Toshikazu  
**1H4-46** Preparation of Monolayer of a Dyad Having a Diaryldiazomethane and a Tripod-shaped Trithiol and Trapping of the Photogenerated Carbene (Mie Univ.) NAGAI, Tsubasa; HIRAI, Katsuyuki; KITAGAWA, Toshikazu  
**1H4-47\*** Modification of the surface of silicate glass by various hydroxyporphyrins and the chemical stability and reactivity of its monolayer (Doshisha Univ.) FURUTA, Nao; MIZUTANI, Tadashi

Chair: IKEDA, Taichi (17 : 10~18 : 20)

- \* 17:00-17:10: interval for laptop PC connection.(1H4-50, 1H4-51, 1H4-52, 1H4-53, 1H4-54, 1H4-56)  
**1H4-50** Investigation of molecular packing structures in silica-precursors vertically grown on micro-phase separated monolayers through surface-selective deposition. (Utsunomiya Univ.) MIURA, Takahiro; KATO, Norihiro; IIMURA, Ken-ichi  
**1H4-51** Construction of 2D self-assembled structures using various intermolecular interaction (Fac. Eng., Kumamoto Univ.Grad. Sch. Sci. Tech., Kumamoto Univ.) INAO, Yukari; UEMURA, Shinobu; KUNITAKE, Masashi  
**1H4-52** Electrochemical polymerization of naphthalene grapheme-nanoribbons on surface (Inst. Adv. Energy, Kyoto Univ.) YAMAMOTO, Tomoki; MATSUBARA, Syohei; UKAI, Takuya; NOMOTO, Hiroyuki; SAKAGUCHI, Hiroshi  
**1H4-53** Epitaxial growth of polymers on thin layer graphene (Department of Polymer Science and Engineering, Yamagata Univ.) IKEMURA, Yusuke; SANO, Masahito  
**1H4-54\*** Catalytic enhancement effect with hydrophobic monolayer on gold nanoparticle two-dimensional arrays (NIMS) TAGUCHI, Tomoya; ISOZAKI, Katsuhiko; MIKI, Kazushi  
**1H4-56** Preparation of hydrophobic surface using layer-by-layered Nafion film and the wettability control by electric field. (Toyohashi Univ. of Technology) MOGAMI, Ikki

#### Monday, March 26, AM

Chair: SANO, Masahito (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2H4-01, 2H4-02, 2H4-03, 2H4-05, 2H4-06)  
**2H4-01** Influence of Metal Oxide Layer Formation to Structures of Porphyrin Derivative Assembly Films on Various Scaffolds (Tokyo Univ. of Sci.) UEDA, Daichi; HASHIZUME, Mineo  
**2H4-02** Photoelectrochemical behavior in layered metalloporphyrin ultrathin films (Hokkaido Univ.) SATOH, Shino; IKEDA, Katsuyoshi; MURAKOSHI, Kei  
**2H4-03\*** 2-D Covalent Nanoarchitectures Based on a 'On-site' Equilibrium Polycondensation at Solid-liquid Interface (Kumamoto-Univ.) TANOUE, Ryota; IKEBE, Kiryu; HIGUCHI, Rintaro; UEMURA, Shinobu; KUNITAKE, Masashi  
**2H4-05** Construction of 2-D covalent bond porphyrin networks through Schiff-base coupling at aqueous solution/electrode interface (Fac. Eng.,



Kumamoto Univ., Grad. Sch. Sci. Tech., Kumamoto Univ.) IKEBE, Kiryu; TANOUE, Ryota; HIGUCHI, Rintaro; UEMURA, Shinobu; KUNITAKE, Masashi

- 2H4-06** 2-D hydrogen-bond-directed supramolecular unilamellar vesicles - mechanical stability and retention of the internal water phase in the air (Institute of Industrial Science, Univ. of Tokyo) SAKAINO, Hiroto; SAWAYAMA, Jun; KABASHIMA, Shin-ichiro; YOSHIKAWA, Isao; ARAKI, Koji

Chair: HASHIZUME, Mineo (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2H4-08, 2H4-10, 2H4-11, 2H4-12, 2H4-13)
- 2H4-08\*** Nanopore Control of 2D Binary Self-Assembled Structures (Grad. Sch. Sci. Tech., Kumamoto Univ., KEK, JST-CREST) UEMURA, Shinobu; AONO, Masashi; KOMATSU, Tamikuni; KUNITAKE, Masashi
- 2H4-10** Bio-specific interaction between polymer brush surface and sugar on the cell (Tokyo Univ. of Science) MAEJIMA, Yukie; TAKAHASHI, Yosuke; MIDORIKAWA, Aya; OTSUKA, Hidenori

### Bilayer membrane (vesicle, liposome)

- 2H4-11** Vesicle formation in a dilute nonionic surfactant solution (Tokyo Metropolitan Univ.) KAWABATA, Youhei; ICHIGUCHI, Kunihiro; KATO, Tadashi
- 2H4-12** Coexistence states with vesicles and network structures in a nonionic surfactant solution (Tokyo Metropolitan Univ.) YAMAUCHI, Yosuke; KAWABATA, Youhei; KATO, Tadashi
- 2H4-13** Structural investigation of adsorbed films of surfactants at the solid/water interface by X-ray reflectometry (Utsunomiya Univ.) OGATA, Aoi; IIMURA, Ken-ichi; HIROSAWA, Ichiro; OISHI, Izumi; HOSOKAWA, Minoru

Chair: UEMURA, Shinobu (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2H4-15, 2H4-17, 2H4-19, 2H4-20)
- 2H4-15\*** Self-spreading behavior on nanometer scale step surface of Si(111) with graphene oxide (NTT Basic Research Labs., NTT Corporation) FURUKAWA, Kazuaki; HIBINO, Hiroki
- 2H4-17\*** Characterization of local structure in the lipid bilayer by single molecule observation (Hokkaido Univ.) MOTEGI, Toshinori; NABIKI, Hideki; MURAKOSHI, Kei

### Interfacial Properties (gas-solid, liquid-liquid)

- 2H4-19** IV-SFG Studies on the Alkane / Ionic Liquid [bmim]X(X=PF<sub>6</sub>, [TfSA]) Interfaces (Nagoya Univ. Chemistry) SAKAI, Yasunari; IWAHASHI, Takashi; ISHIYAMA, Tatsuya; MORITA, Akihiro; KIM, Doseok; OUCHI, Yukio
- 2H4-20** Magnetic Fields Effects on Surface Tension of Aqueous Sodium Dodecyl Sulfate Solutions. (Univ. of Shinshu) SANNO, Misaki; HAMASAKI, Atom; OZEKI, Sumio

## Monday, March 26, PM

### Surface Structures, Properties, Functionality

Chair: SUZUKI, Takaomi (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2H4-28, 2H4-30, 2H4-32)
- 2H4-28\*** Magnetic field effects on carbon material prepared from coal tar pitch and clarification of the mechanism (Shinshu Univ.) HAMASAKI, Atom; SAKAGUCHI, Ayumi; SEKINUMA, Yuya; YAMAMOTO, Shou; NISHIHARA, Yoshitaka; SADATOU, Toyonari; OZEKI, Sumio
- 2H4-30\*** Photoinduced Reversible Changes in Morphology of Plasmonic Ag Nanorods on TiO<sub>2</sub> and Application to Versatile Visible-Infrared Photochromism (IIS, Univ. of Tokyo) KAZUMA, Emiko; TATSUMA, Tetsu
- 2H4-32\*** Structural Analysis of Liquid Crystal Nano-Films between Mica Surfaces by Synchrotron X-ray Diffraction Measurement (IMRAM, Tohoku Univ.; WPI-AIMR, Tohoku Univ.; JST-CREST; JASRI/SPring-8) NAKANO, Shinya; MIZUKAMI, Masashi; OHTA, Noboru; YAGI, Naoto; HATTA, Ichiro; KURIHARA, Kazuo

Chair: MIZUKAMI, Masashi (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2H4-35, 2H4-36, 2H4-37, 2H4-38, 2H4-39, 2H4-40)
- 2H4-35** Estimation of step free energy on crystal surface (Shinshu Univ. Faculty of Engineering) YOSHIDA, Mika; ODA, Masayuki; SUZUKI, Takaomi
- 2H4-36** Specific surface free energy and morphology of natural fluorapatite crystal studied by contact angle of liquid droplet (Shinshu Univ.) SHIMADA, Yukari; TAKEMAE, Haruka; SUZUKI, Takaomi
- 2H4-37** Three-dimensional observation of water droplets on multi pillar systems (Yamagata Univ.) TANAKA, Tomoya; MAYAMA, Hiroyuki; NONOMURA, Yosimune
- 2H4-38** Sliding behavior of a droplet on the vibrating hydrophobic substrate (Kagawa Univ.) OHTAKE, Tadashi; FUJII, Yuu; OGAWA, Kazufumi;

IWAMOTO, Naoki

- 2H4-39** Fabrication of Superhydrophobic and Highly Adhesive Ubiquitous Film by Dynamic Wrinkle Processing (Tokyo Univ. of Science) MAEDA, Izumi; TAMURA, Masahiro; ENDO, Hiroshi; KAWAI, Takeshi
- 2H4-40** Accumulation and Functionalization of Colloidal Particles Covered with Graphene (Tokyo Univ. of Science) KONO, Kazumasa; ENDO, Hiroshi; KAWAI, Takeshi

Chair: KANO, Hirofumi (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2H4-42, 2H4-43, 2H4-44, 2H4-45, 2H4-46, 2H4-47)
- 2H4-42** Monitoring Redox Reactivity of Single-Walled Carbon Nanotube by Electrochemical Raman Measurement (Hokkaido Univ.) HOSHINA, Shinji; TAKASE, Mai; YASUDA, Satoshi; MURAKOSHI, Kei
- 2H4-43\*** Characterization of the Electronic Structure of Nanometer-size Single Graphene on Au (111) by Electrochemical Scanning Tunneling Microscopy (Hokkaido Univ.) YU, Li; YASUDA, Satoshi; MURAKOSHI, Kei
- 2H4-44** Electrochemical reactivity changes at boron-doped diamond-like carbon thin films with concentration of boron incorporated (Yamaguchi Univ. Graduate school of Science and Engineering) NARAGINO, Hiroshi; YOSHINAGA, Kohsuke; NAKAHARA, Akira; HONDA, Kensuke
- 2H4-45** Fabrication of wide-optical-gap n-type semiconductor thin film based on silicon and carbon for the solar cell with high conversion efficiency (Yamaguchi Univ. Graduate school of Science and Engineering) NARAGINO, Hiroshi; YOSHINAGA, Kohsuke; NAKAHARA, Akira; HONDA, Kensuke
- 2H4-46** Fabrication of n-type semiconductive polycrystalline diamond by incorporating impurity atoms and application to physical devices of these films. (Univ. of Yamaguchi; Honda lab.) NAKAHARA, Akira; HONDA, Kensuke; NARAGINO, Hiroshi; YOSHINAGA, Kohsuke
- 2H4-47** Relative stabilities of crystal faces of calcite (CaCO<sub>3</sub>) compared by AFM observation (Chuo Univ., Japan) OHTSU, Yohei; YAMAMURA, Ryohei; NIKI, Kaori; SHINDO, Hitoshi

Chair: HONDA, Kensuke (17 : 00~17 : 30)

- \* 16:50-17:00: interval for laptop PC connection.(2H4-49, 2H4-50, 2H4-51)
- 2H4-49** Organic Ion Structure in Carbon Nanospaces and Effect of Electric Potential (Shinshu Univ.; ENCS) FUKANO, Masafumi; FUJIMORI, Toshihiko; IYAMA, Taku; SEGALINI, Julie; OHBA, Tomonori; KANO, Hirofumi; SIMON, Patrice; KANEKO, Katsumi
- 2H4-50** Adsorption and Structure of Carbon Dioxide in Carbon Nanospaces (Shinshu Univ. ENCS) HARA, Tomoya; OHBA, Tomonori; MINAMI, Daiki; ITOH, Tsutomu; FUJIMORI, Toshihiko; KANO, Hirofumi; KANEKO, Katsumi
- 2H4-51** Characterization of Morphology/Electronic Structure of Titanium Oxide Surface using Electrochemical Scanning Tunneling Microscopy (Hokkaido Univ.) FUTASHIMA, Ryo; YASUDA, Satoshi; MURAKOSHI, Kei

## Tuesday, March 27, AM

Chair: OHKUBO, Takahiro (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3H4-01, 3H4-02, 3H4-03, 3H4-04, 3H4-05, 3H4-06)
- 3H4-01** Structural control of coordination polymer 2D networks: Expansion of the lattice by modifying coordinative substituents of porphyrin molecular building units (Osaka Prefecture Univ.) USUI, Ryo; INOUE, Satoshi; NOMOTO, Akihiro; OGAWA, Akiya; MAKIURA, Rie
- 3H4-02** Fabrication of polymer thin films having plant-derived hierarchical structures and their surface properties (Doshisha Univ.) MAEYAMA, Kana; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 3H4-03** Enantiospecific Surface Properties of Polymer Film with Induced Chirality Based on Side-chain Ordering (Department of Applied Chemistry, Kyushu Univ.) IKEDA, Takuya; SHUNDO, Atsuo; KIMIZUKA, Nobuo; TANAKA, Keiji
- 3H4-04** Structural characterization of isocyanide self-assembled monolayers by interfacial vibrational spectroscopy (NIMS GREEN; NIMS MANA; Hokkaido Univ.) ITO, Mikio; NOGUCHI, Hidenori; UOSAKI, Kohei
- 3H4-05** Growth of Ice-like Cluster in 1D hydrophobic nanospaces at Room Temperature (Chiba Univ.; Shinshu Univ.) TAIRA, Seiichi; OHBA, Tomonori; KANEKO, Katsumi; KANO, Hirofumi
- 3H4-06** Characterization of interfacial water structure at titanium dioxide photocatalyst studied by sum frequency generation spectroscopy (National Institute for Materials Science (NIMS)) NOGUCHI, Hidenori; ITO, Mikio; UOSAKI, Kohei

Chair: NOGUCHI, Hidenori (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3H4-08, 3H4-09, 3H4-10, 3H4-12, 3H4-13)
- 3H4-08\*** Hydrated structure of cobalt ion confined in the nanospace of single walled carbon nanotube (Okayama Univ.) AHMMAD, Bashir; NISHI, Masayasu; OHKUBO, Takahiro; KURODA, Yasushige
- 3H4-09** Hydration structure around a zinc ion restricted in cylindrical micropore (Okayama Univ.) NISHI, Masayasu; OHKUBO, Takahiro; AHMMAD, Bashir; ITADANI, Atsushi; KURODA, Yasushige

- 3H4-10\*** Effects of Heat Treatment of Synthetic Calcium Hydroxyapatite Particles on the Protein Adsorption Behavior (Osaka Kyoiku Univ.) KANDORI, Kazuhiko; MIZUMOTO, Saki
- 3H4-12** Analysis of protein adsorption on polymer surfaces prepared under different conditions (Tokyo Tech.) DATE, Takaaki; UEDA, Yuuko; ATARASHI, Hironori; MATSUZAWA, Hideyo; TANAKA, Keiji; SERIZAWA, Takeshi
- 3H4-13** Structural stability of polypeptides confined in hydrophobic nanopores (Chiba Univ.) SHINOHE, Masahiro; OHBA, Tomonori; KANO, Hirofumi

Chair: KANDORI, Kazuhiko (11:20~12:10)

- \* 11:10-11:20: interval for laptop PC connection.(3H4-15, 3H4-16, 3H4-17, 3H4-18, 3H4-19)
- 3H4-15** Synthesis of Silica Molecular Sieve under Nonaqueous Conditions (Okayama Univ. of Sci.) MORISHIGE, Kunimitsu; KONDOU, Yoshiyuki
- 3H4-16** Synthesis conditions examination for sandwich nanocomposite of graphene-periodic mesoporous silica (AIST; Univ. of Toronto) WANG, Zheng-Ming; KUBO Shiori; KOSUGE Katsunori; OZIN, Geoffrey A
- 3H4-17** Elucidation of Working Sites in ZnMFI for H<sub>2</sub>- or CH<sub>4</sub>-Activation Utilizing CO as a Probe Molecule (Okayama Univ.; Kyoto Institute of Technology) ODA, Akira; TORIGOE, Hiroe; ITADANI, Atsushi; OHKUBO, Takahiro; YUMURA, Takashi; KOBAYASHI, Hisayoshi; KURODA, Yasushige
- 3H4-18** Study of synthesis and properties of iron content nano zeolite (Sizuoka Institute Science and Technology) OSUNA, Yuji; YAMAZAKI, Satoshi; ISOBE, Hiroshi; NISHINO, Hideki
- 3H4-19** Synthesis of copper(I) oxide nanoparticles supported by single-walled carbon nanotube (Okayama Univ.) USHIO, Mitsuhiro; OHKUBO, Takahiro; AHMMAD, Bashir; ITADANI, Atsushi; KURODA, Yasushige

## Tuesday, March 27, PM

Chair: MORISHIGE, Kunimitsu (14:20~15:10)

- \* 14:10-14:20: interval for laptop PC connection.(3H4-33, 3H4-35, 3H4-37)
- 3H4-33\*** Transient observation of gas adsorption process of flexible porous coordination polymers: vibrational-rotational spectroscopic studies (Kyoto Univ.) FUKUSHIMA, Tomohiro; HORIKE, Satoshi; KITAGAWA, Susumu
- 3H4-35\*** Study on selective adsorption of deuterium on boron nitride using photon-stimulated ion-desorption (Japan Atomic Energy Agency) KOSWATTAGE, Kaveenga Rasika; SHIMOYAMA, Iwao; SEKIGUCHI, Tetsuhiro; BABA, Yuji; NAKAGAWA, Kazumichi
- 3H4-37\*** Mechanism of Rapid Water Transportation through One-dimensional Channels (Chiba Univ.) OHBA, Tomonori; KANEKO, Katsumi; KANO, Hirofumi

Chair: NONOMURA, Yoshimune (15:30~16:30)

- \* 15:20-15:30: interval for laptop PC connection.(3H4-40, 3H4-41, 3H4-42, 3H4-43, 3H4-44, 3H4-45)
- 3H4-40** Plasmonic study on nano-dimer arrays of VIII B-group metals (Hokkaido Univ.) UCHIYAMA, Sari; TAKASE, Mai; IKEDA, Katsuyoshi; MURAKOSHI, Kei
- 3H4-41** Synthesis and Property of Chiral Metal Nanoparticle-Polythiophene Nanotube Composites (Kinki Univ. Faculty of Science and Engineering) IWAMOTO, Kenji; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 3H4-42** Synthesis and Function of Chiral Metal Nanoparticle-Ammonium Polythiophene Hybrid Nanotubes (Kinki Univ. Faculty of Science and Engineering) KAWAKAMI, Ryo; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 3H4-43** Determination of dynamic quantum molecular sieving effect for light molecule isotopes in microporous carbons and zeolites (Shinshu Univ. Research Center for Exotic NanoCarbons) NIIMURA, Subaru; FUJIMORI, Toshihiko; KANEKO, Katsumi
- 3H4-44** Structure and Adsorptivity of Activated Carbons Prepared in Magnetic Fields (Shinshu Univ.) SEKINUMA, Yuya; SAKAGUCHI, Ayumi; HAMASAKI, Atom; OZEKI, Sumio
- 3H4-45** Characterization of Nitrogen-Doped Graphene Synthesized by Chemical Vapor Deposition Using Various Nitrogen-Containing Feedstock (Hokkaido Univ.) ADACHI, Yuta; YASUDA, Satoshi; MURAKOSHI, Kei

Chair: IKEDA, Katsuyoshi (16:40~17:40)

- \* 16:30-16:40: interval for laptop PC connection.(3H4-47, 3H4-48, 3H4-49, 3H4-50, 3H4-51, 3H4-52)
- 3H4-47** Recognition process of water by touch (Yamagata Univ.) SAITO, Rina; SUZUKI, Makoto; MAENO, Takashi; NONOMURA, Yoshimune
- 3H4-48** Development of method for formation of Aq/Org parallel two-phase flow by controlling wetting in extended nanochannel (The Univ. of Tokyo) AKAIKE, Hiroto; KAZOE, Yutaka; SUGII, Yasuhiko; MAWATARI, Kazuma; KITAMORI, Takehiko
- 3H4-49\*** Interaction of Cellulose Surface and Silica in A-polar Solvents (WPI-AIMR, Tohoku Univ.; Wageningen Univ.; IMRAM Tohoku Univ.; CREST-JST) MULDER, Pieter Frank; KLEIJN, Mieke; MIZUKAMI, Masashi; KURIHARA, Kazue

- 3H4-50** Evaluation of Local pH at Liquid-Solid Interface by Surface Forces and Fluorescence Spectrum Measurements (Tohoku Univ.; IMRAM) SAITO, Yuko; KASUYA, Motohiro; KURIHARA, Kazue
- 3H4-51** Characterization of self-assembled monolayer of ferrocene alkyl thiol using electrochemical surface forces apparatus (IMRAM, Tohoku Univ.) KASUYA, Motohiro; KURIHARA, Kazue
- 3H4-52** Surface Modification of Poly(tetrafluoroethylene) Substrates by Utilizing Supercritical Carbon Dioxide Treatments (Tokyo Univ. of Sci.) MURAYAMA, Satoru; OTAKE, Katsuto; HASHIZUME, Mineo

Chair: HASHIZUME, Mineo (17:50~18:40)

- \* 17:40-17:50: interval for laptop PC connection.(3H4-54, 3H4-55, 3H4-56, 3H4-57, 3H4-58)
- 3H4-54** Construction of biofilm model surface and consideration of corrosion mechanisms for metal surfaces (Utsunomiya Univ.) OHYOSHI, Akane; IIMURA, Ken-ichi; KANEMATSU, Hideyuki; IKIGAI, Hajime; KURODA, Daisuke
- 3H4-55** Interaction forces between iron-amine modified silica surfaces in aqueous solution studied by colloidal probe (IMRAM, Tohoku Univ.; WPI-AIMR, Tohoku Univ.; CREST-JST; JFE Steel) MIZUKAMI, Masashi; KAMIJO, Toshio; KURIHARA, Kazue; TSURI, Shiro; HOSHINO, Toshiyuki
- 3H4-56** Encapsulation of Metal Nanoparticles in Chiral Polythiophene Nanotubes and Its Function (Kinki Univ. Faculty of Science and Engineering) TATSUMI, Satoshi; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 3H4-57** Click Functionalization of Polythiophene Nanotubes (Kinki Univ. Faculty of Science and Engineering) ABIKO, Sho; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 3H4-58** Synthesis and Function of Redox-active Chiral Polythiophene Nanotubes (Kinki Univ. Faculty of Science and Engineering) UEHARA, Hitomi; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

**Room H5**  
6th Bldg. J634

## Colloid and Interface Chemistry

Sunday, March 25, PM

Chair: TAKATA, Toshikazu (12:30~13:30)

- \* 12:20-12:30: interval for laptop PC connection.(1H5-22, 1H5-23, 1H5-24, 1H5-25, 1H5-26, 1H5-27)
- 1H5-22** Formation of supramolecular hydrogels by amphiphilic compounds with hydrogen-bonding ability (Ritsumeikan Univ., Asahi Kasei Corporation) TAMIAMI, Hitoshi; TAKI, Kazutaka; TOMA, Kazunori
- 1H5-23** Supramolecular Gels Prepared with Amphiphilic Zinc 3-Hydroxy-methyl-Chlorins (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; TAKEDA, Masayuki; TANIGAWA, Shuntaro; HIRAI, Ryoji; KATO, Syuusaku; TAMIAMI, Hitoshi
- 1H5-24** Novel supramolecular assembling system by using microfluidic device (Graduate School of Life and Environmental Science, Kyoto Prefectural Univ.) TAKAYAMA, Momoko; NUMATA, Munenori; TAMIAMI, Hitoshi; SYOJI, Sunao
- 1H5-25** Self-assembly of functional molecules at dynamic liquid-liquid interface (Graduate School of Life and Environmental Science, Kyoto Prefectural Univ.) KOZAWA, Tomohiro; NUMATA, Munenori
- 1H5-26** Creation of Hierarchical Polysaccharide Strand: Supramolecular Spinning of Nanofibers at dynamic liquid-liquid interface. (Graduate School of Life and Environmental Science, Kyoto Prefectural Univ.) TAKIGAMI, Yusuke; NUMATA, Munenori
- 1H5-27** Creation of discrete self-assembled structures utilizing compartment effect of micro-droplet (Graduate School of Life and Environmental Science, Kyoto Prefectural Univ.) HIROSE, Naoya; TANIGUCHI, Nobuko; NUMATA, Munenori

Chair: HARADA, Akira (13:40~14:40)

- \* 13:30-13:40: interval for laptop PC connection.(1H5-29, 1H5-30, 1H5-31, 1H5-32, 1H5-33, 1H5-34)
- 1H5-29** Synthesis and decross-linking of network polymer with size-complementary rotaxanes at the cross-link points (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) IJIMA, Keisuke; KOHSAKA, Yasuhiro; NAKAZONO, Kazuko; KOYAMA, Yasuhiro; TAKATA, Toshikazu
- 1H5-30** Synthesis of Polyrotaxane Network Consisting of Crown Ether-type Rotaxane Structures. (Department of Organic and Polymeric Materials, Tokyo Institute Of Technology) KUZUME, Michiko; NAKAZONO, Kazuko; TAKATA, Toshikazu
- 1H5-31** Synthesis and characterization of metal-templated polyrotaxane network using a bis-macrocylic molecule (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) OGAWA, Masahiro;

KAWASAKI, Ayumi; KOYAMA, Yasuhito; TAKATA, Toshikazu

- 1H5-32** Solvent-Free Click Synthesis of Cyclodextrin-Based Rotaxanes Exploiting Stable Nitrile N-Oxide as end-capping agent (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) JANG, Keum hee; MIURA, Kaori; KOYAMA, Yasuhito; TAKATA, Toshikazu
- 1H5-33** Synthesis of cyclodextrin-containing polyrotaxanes using polyesters as an axle component (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) IGUCHI, Hiroyuki; KOYAMA, Yasuhito; UCHIDA, Satoshi; TAKATA, Toshikazu
- 1H5-34** Selective Conversion of cyclodextrin-containing rotaxane with size-complementary end-capping groups (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) AKAE, Yosuke; KOYAMA, Yasuhito; OKAMURA, Hisashi; TAKATA, Toshikazu

Chair: OZEKI, Sumio (14 : 50~15 : 50)

\* 14:40-14:50: interval for laptop PC connection.(1H5-36, 1H5-39, 1H5-40, 1H5-41)

- 1H5-36 CSJ Award for Young Chemists** Construction of Supramolecular Materials Based on New Macrocyclic Molecules "Pillar[5]arenes" (Sch. of Chem., Coll. of Sci. and Eng., Kanazawa Univ.) OGOSHI, Tomoki
- 1H5-39** Observation of organogel/hydrogel interface using confocal Raman microscope (Department of Polymer Science and Engineering, Yamagata Univ.) TOUKAIRIN, Yuusuke; SANO, Masahito
- 1H5-40** Effect of Carbon Nanotubes concentrations on magnetic ion gels (Department of Polymer Science and Engineering, Yamagata Univ.) NAKAGAWA, Kazune; MITSUMATA, Tetsu; OKIMOTO, Haruya; SANO, Masahito
- 1H5-41** Rheology of gel state in a nonionic surfactant solution (Tokyo Metropolitan Univ.) ODA, Machiko; KAWABATA, Youhei; KATO, Tadashi

Chair: KISHIMURA, Akihiro (16 : 00~17 : 00)

\* 15:50-16:00: interval for laptop PC connection.(1H5-43, 1H5-44, 1H5-45, 1H5-46, 1H5-47, 1H5-48)

- 1H5-43** Formation of Self-healing Materials using Host-guest Polymer and Its Properties (Graduate School of Science, Osaka Univ.) KAKUTA, Takahiro; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1H5-44** Redox-responsive self-healing materials formed from host and guest polymers (Graduate School of Science, Osaka Univ.) NAKAHATA, Masaki; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1H5-45** Development of low molecular weight hydrogelator for various aqueous solutions (Shizuoka Univ.) HIGASHI, Daisuke; YAMANAKA, Masamichi
- 1H5-46** Surfactant induced hydrogelation of amphiphilic tris-urea (Shizuoka Univ.) JINNO, Yuki; YAMANAKA, Masamichi
- 1H5-47** Electrophoresis of native proteins using supramolecular hydrogel (Shizuoka Univ.) MUNENOBU, Kanako; JINNO, Yuki; OYOSHI, Takanori; YAMANAKA, Masamichi
- 1H5-48** Synthesis of sugar derivatives and their gelation in organic solvents (Collaborative Research Division Art, Science and Technology Center for Cooperative Research, Kyushu Univ.) ONO, Fumiyasu; SHINKAI, Seiji; WATANABE, Hisayuki

Chair: SANO, Masahito (17 : 10~18 : 30)

\* 17:00-17:10: interval for laptop PC connection.(1H5-50, 1H5-52, 1H5-53, 1H5-54, 1H5-55, 1H5-56, 1H5-57)

- 1H5-50\*** Unique self-organization of polyion complexes consisting of block copolymers and its vesicle formation (Graduate School of Engineering, The Univ. of Tokyo) AKIHIRO, Kishimura; ANRAKU, Yasutaka; KATAOKA, Kazunori
- 1H5-52** Characterization of Polyion Complex from Y-Shaped Polymer with Double Charged Segments (Graduate School of Engineering, The Univ. of Tokyo) KOBAYASHI, Atsushi; ANRAKU, Yasutaka; HIKI, Shigehiro; KISHIMURA, Akihiro; KATAOKA, Kazunori
- 1H5-53** Stability enhancement of polyion complex vesicles using polycation with guanidino groups (School of Engineering, The Univ. of Tokyo) HORI, Mao; KOBAYASHI, Atsushi; ANRAKU, Yasutaka; AKIHIRO, Kishimura; KATAOKA, Kazunori
- 1H5-54** Ordered Self-Assembly of Macrocyclic Metal Complexes Composed of Bishydroxypyridone (Department of Chemistry, Graduate School of Science, Nagoya Univ.) KAWANO, Shin-ichiro; TANAKA, Kentaro
- 1H5-55** Liquid Crystals of Salen-Bridged Dibenzothiophene Macrocyclic Complexes toward Nanospaces in Soft Materials (Department of Chemistry, Graduate School of Science, Nagoya Univ.) KAWANO, Shin-ichiro; HAMAZAKI, Takashi; TANAKA, Kentaro
- 1H5-56** Magnetic Effects on Concentration Fluctuation of Aqueous Poly(*N*-isopropylacrylamide) Solutions (Shinshu Univ. Physical Chemistry Laboratory) SAITO, Arisa; HAMASAKI, Atom; OZEKI, Sumio
- 1H5-57<sup>#</sup>** New Approach Toward the Controlled Synthesis of Polyaniiline using Self-Assembled Template (National Institute for Materials Science (NIMS)) XU, Shaoran; DAS, Sanjib; OGI, Soichiro; SUGIYASU, Kazunori; TAKEUCHI, Masayuki

## Monday, March 26, AM

Chair: MAEDA, Hiromitsu (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2H5-01, 2H5-02, 2H5-03, 2H5-04, 2H5-05, 2H5-06)

- 2H5-01** Interfacial properties of surfactin as a peptide-based biosurfactant (AIST) IKEDA, Shintaro; SAKAI, Hideki; ABE, Masahiko; IMURA, Tomohiro; KITAMOTO, Dai
- 2H5-02** Highly-efficient preparation method of lipid nanodiscs using synthetic amphiphilic helical peptides (AIST) TSUKUI, Yohei; IMURA, Tomohiro; SAKAI, Hideki; ABE, Masahiko; KITAMOTO, Dai
- 2H5-03** Emission Properties of Aromatic Micelles Composed of Amphiphilic Anthracene Dimers (Chemical Resources Laboratory, Tokyo Institute of Technology) KONDO, Kei; SUZUKI, Akira; YOSHIZAWA, Michio; AKITA, Munetaka
- 2H5-04** Assembly of Aromatic Micelles from Amphiphilic Molecules Containing Multi-anthracene Rings (Chemical Resources Laboratory, Tokyo Institute of Technology) SUZUKI, Akira; KONDO, Kei; YOSHIZAWA, Michio; AKITA, Munetaka
- 2H5-05** Circularly Polarized Luminescent Supramolecules; its Structure and Chiroptical Amplification / Inversion (NAIST) SHIBAGUCHI, Hiroshi; NAITO, Masanobu
- 2H5-06** Study on Dimer Emission from 1,6-dialkynyl pyrene derivatives (NAIST) FUKAO, Takaharu; SHIBAGUCHI, Hiroshi; NAITO, Masanobu

Chair: SAKAI, Hideki (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2H5-08, 2H5-10, 2H5-12, 2H5-13)

- 2H5-08<sup>#</sup>** Ion-Based Materials Comprising Nonplanar Cations and Planar Receptor-Anion Complexes (Institute of Science and Engineering, Ritsumeikan Univ.) DONG, Bin; MAEDA, Hiromitsu
- 2H5-10\*** Formation of Charge-Based Assemblies Comprising Modified  $\pi$ -Conjugated Anion Receptors (Institute of Science and Engineering, Ritsumeikan Univ.) TERASHIMA, Yoshitaka; MAEDA, Hiromitsu
- 2H5-12** Formation of Soft Materials Based on [2+2]-Type Ion-Pair Assemblies (Institute of Science and Engineering, Ritsumeikan Univ.) MAEDA, Hiromitsu; CHIGUSA, Kengo
- 2H5-13** Fluorescent property of phosphonium-based ionic liquids having benzimidazole group (Tokyo Univ. of Agriculture & Technology) KAYAMA, Yoko; TAGUCHI, Satomi; ICHIKAWA, Takahiro; OHNO, Hiroyuki

Chair: TANAKA, Keiji (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2H5-15, 2H5-17, 2H5-18, 2H5-19, 2H5-20)

- 2H5-15\*** Biofunctional supramolecular material(1):Construction of heat-triggerable supramolecular hydrogel (Graduate School of Engineering, Kyoto Univ.; JST, CREST) OCHI, Rika; NISHIDA, Takashi; KURITA, Yushi; IKEDA, Masato; HAMACHI, Itaru
- 2H5-17** Biofunctional supramolecular materials(2): Construction of biomarker-responsive supramolecular hydrogel (Graduate School of Engineering, Kyoto Univ.;JST, CREST) IKEDA, Masato; TANIDA, Tatsuya; HAMACHI, Itaru
- 2H5-18** Biofunctional supramolecular materials (3): Control of supramolecular fiber fluidity and function as a molecular rail (Graduate School of Engineering, Kyoto Univ.) KUROTANI, Kazuya; IKEDA, Masato; HAMACHI, Itaru
- 2H5-19** Effects of counter anions on their gelation properties of L-lysine-based hydrogelators. (Shinshu Univ.) EBINA, Ryosuke; SUZUKI, Masahiro; HANABUSA, Kenji
- 2H5-20** Biofunctional supramolecular materials(4): Controlling dynamic behavior of supramolecular machine in living cell. (Graduate School of Engineering, Kyoto Univ.) YOSHII, Tatsuyuki; IKEDA, Masato; HAMACHI, Itaru

## Monday, March 26, PM

Chair: Ikeda, Masato (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2H5-28, 2H5-30, 2H5-32)

- 2H5-28\*** Synthesis and Alignment Control of Photoluminescent Liquid Crystals having Bianthryl Moiety (The Univ. of Tokyo) YAMANE, Shogo; SAGARA, Yoshimitsu; KATO, Takashi
- 2H5-30\*** Construction of Peptide Molecular Assemblies with Using Phase-Separation Based on Stereo-Complex Formation (Kyoto Univ.) UEDA, Motoki; YATSUNAMI, Yuji; KIMURA, Shunsaku
- 2H5-32\*** Unexpected Induced Circular Dichroism of Polythiophene Aggregate Applicable to Sugar Sensing (ISIT, Nanotech. Lab.) SHIRAKI, Tomohiro; TSUCHIYA, Youichi; DAWN, Arnab; SHINKAI, Seiji

Chair: MAKINO, Akira (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2H5-35, 2H5-37, 2H5-39)

- 2H5-35\*** Time- and Spatial-dependent Heterogeneity of Viscoelastic Properties in Worm-like Micelle Solution (Department of Applied Chemistry, Kyushu

- Univ.) HORI, Koichiro; SHUNDO, Atsuo; TANAKA, Keiji  
**2H5-37\*** Heterogeneity and Its Control of Viscoelastic Properties in Supramolecular Gel (Department of Applied Chemistry, Kyushu Univ.) SHUNDO, Atsuo; MIZUGUCHI, Keigo; UNO, Hiroki; MATSUMOTO, Keigo; OHNO, Masashi; GOTO, Masahiro; TANAKA, Keiji  
**2H5-39\*\*** Structure-induced Dynamic Heterogeneity in Lyotropic Liquid Crystal (Department of Applied Chemistry, Kyushu Univ.) PENAROSA, Deibido, Penuriaru; SHUNDO, Atsuo; TANAKA, Keiji

Chair: KATO, Takashi (15 : 50~16 : 20)

- \* 15:40-15:50: interval for laptop PC connection.(2H5-42, 2H5-44)  
**2H5-42\*** Construction of a Hydrogel from a Cyclic Amphiphilic Block Copolymer for Controlled Release: Topology-directed Design of Polymeric Materials (Tokyo Tech) HONDA, Satoshi; YAMAMOTO, Takuya; TEZUKA, Yasuyuki; NYUUI, Tatsuki; FUJIMORI, Atsuhiko  
**2H5-44** One-pot Synthesis of Manganese Oxide Nanoparticles from Microemulsion Systems (Yamagata Univ.) MIYAZAWA, Taiki; MATSUDA, Keigo; FUJIMORI, Atsuhiko; NONOMURA, Yoshimune

Chair: HANABUSA, Kenji (16 : 30~17 : 50)

- \* 16:20-16:30: interval for laptop PC connection.(2H5-46, 2H5-48, 2H5-50, 2H5-52)  
**2H5-46\*** Polymeric Micelle-Encapsulated Carbon Nanotube Assemblies: Template Polymerization and Anisotropic Alignment of Nanotube-Surfactant Composites by Magnetic Field (RIKEN, Advanced Science Institute) OHTANI, Masataka; ISHIDA, Yasuhiro; AIDA, Takuzo  
**2H5-48\*** Supramolecular approach to high water content hydrogels with enhanced mechanical property (RIKEN) TAMESUE, Shingo; ISHIDA, Yasuhiro; CRAIG, Hawker; AIDA, Takuzo  
**2H5-50\*** Unique Molecular Assembly of Triphenylene Hexacarboxylic Acid Esters (RIKEN Advanced Science Institute; The Univ. of Tokyo; Osaka Univ.; Tokyo Institute of Technology) KAJITANI, Takashi; OSAWA, Terutsune; KOIZUMI, Yoshiko; HASHIZUME, Daisuke; FUKUSHIMA, Takanori; SAEKI, Akinori; SEKI, Shu; AIDA, Takuzo  
**2H5-52\*\*** Compartmentalized single-chain folding of blockcopolymers with orthogonal hydrogen bonding motifs (Eindhoven Univ. of Tech.) HOSONO, Nobuhiko; PALMANS, A. R. A.; MEIJER, E. W.

## Tuesday, March 27, AM

Chair: SHIMIZU, Toshimi (9 : 00 ~ 10 : 20)

- \* 8:50-9:00: interval for laptop PC connection.(3H5-01, 3H5-02, 3H5-03, 3H5-04, 3H5-05, 3H5-06, 3H5-07)  
**3H5-01** Synthesis of novel one-dimensional Rh complexes containing dipolar dipyrityl bridging ligands and formation nanofibers in organic media. (Kyushu Univ.) TAKEMASU, Kenta; KUWAHARA, Rempei; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo  
**3H5-02** Controlled formation of coordination gels by bridging lipophilic one-dimensional Rh complexes in solution. (Kyushu Univ.; IRCMS; JST-CREST) FURUTANI, Hidenori; KUWAHARA, Rempei; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo  
**3H5-03** Self-assembly of Anionic Europium(III) Complexes based on Ion Pairing and Supramolecular Control on Their Luminescence Properties (Kyushu Univ.) TSUNOFURI, Shohei; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo  
**3H5-04** Post-Modifiable Fullerene Vesicle: Introduction of Biotin Ligand onto the Surface and its Behavior of Biomolecular Recognition (The Univ. of Tokyo) MINAMI, Kosuke; HARANO, Koji; NAKAMURA, Eiichi  
**3H5-05\*** Controlled Synthesis of Polymer Nanoparticles on the Hydrophobic Surface of Water-Soluble Fullerene Bilayer Vesicles (The Univ. of Tokyo) GORGOLL, Ricardo Mizoguchi; HARANO, Koji; NAKAMURA, Eiichi  
**3H5-06** Formation of Nanoparticles by Self-Assembly of Pentasubstituted [60] Fullerene Amphiphiles (The Univ. of Tokyo) NITTA, Hirohisa; HARANO, Koji; NAKAMURA, Eiichi  
**3H5-07\*** Polystyrene-block-(porphyrin assembly)-block-polystyrene (National Institute for Materials Science (NIMS)) OGI, Soichiro; SUGIYASU, Kazunori; AIMI, Junko; TAKEUCHI, Masayuki

Chair: HARADA, Akira (10 : 30~11 : 20)

- \* 10:20-10:30: interval for laptop PC connection.(3H5-10)  
**3H5-10#** The Chemical Record Lecture Non-Covalent Synthesis of Complex Supramolecular Systems (Eindhoven Univ. of Technology) E.W. Meijer

## Tuesday, March 27, PM

Chair: HARANO, Koji (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(3H5-34, 3H5-35, 3H5-36, 3H5-37, 3H5-38, 3H5-39)  
**3H5-34** Hierarchical self-assembly of azobenzene-terminated collagen-mimeticoligopeptide into nanofiber (Doshisha Univ.) YOSHIKAWA, Ryo; KOGA, Tomoyuki; HIGASHI, Nobuyuki  
**3H5-35** Design and synthesis of time-limited hydrogels from three-armed collagen-mimetic peptides (Doshisha Univ.) MIYAZAWA, Go; NIKAIDO, Yuji; KOGA, Tomoyuki; HIGASHI, Nobuyuki

- 3H5-36** Construction of Peapod Polymers by the Use of Cyclic Spiroborate-type Molecular Connecting Modules (Konan Univ.) MORII, Akio; DANJO, Hiroshi; MIYAZAWA, Toshifumi  
**3H5-37** Facile Control in Orientation of Tubular Virus Protein Rod Array and its Application for Nanoreactors (NAIST) NAKAMURA, Yuusuke; NAITO, Masanobu  
**3H5-38** Synthesis of Protein Nanotube Array and Its Molecular Trapping Ability (Faculty of Sci. and Eng., Chuo Univ.) KATO, Ryunosuke; KOMATSU, Teruyuki  
**3H5-39** Construction of Hydrophobic Organic Nanotubes and Their Dispersion Phenomena in Water (NTRC-AIST) KAMETA, Naohiro; AOYAGI, Masaru; ISHIKAWA, Kazuyuki; ASAKAWA, Masumi; SHIMIZU, Toshimi

Chair: HIGASHI, Nobuyuki (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(3H5-41, 3H5-43, 3H5-44, 3H5-45)  
**3H5-41\*** Photo-micromanipulation by using liquid crystal thin films with azobenzene molecules (Kumamoto Univ.) KUWAHARA, Yutaka; OHTA, Kazuhiro; OGATA, Tomonari; KIM, Sunnam; KURIHARA, Seiji  
**3H5-43** Self-organization of trehalose 6-mono alkyl ethers (Kagoshima Univ.) KANEMARU, Manami; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi  
**3H5-44** Adsorption of Alkyl Sulfates to Micelles in Aqueous Solution for Cetyltrimethylammonium Bromide/Sodium Alkyl Sulfate Mixtures (Nagoya Institute of Technology) TOMITA, Takashi; YAMAMOTO, Yasushi; YOSHINO, Akihiro; TAGA, Keiji  
**3H5-45** Size control of the polymer micelles in a micro flow channel (Graduate School of Materials Science, Nara Institute of Science and Technology, Shimadzu corporation) ARAI, Takuya; SAIKI, Hidekazu; KAWABE, Takashi; OZEKI, Eiichi

Chair: HAYASHI, Takashi (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(3H5-47, 3H5-48, 3H5-49, 3H5-50, 3H5-51)  
**3H5-47** Synthesis of Ionic Surfactant Based on Ferulic Acid and Investigation of Its Property in Aqueous Solution (Fac. of Systems Engineering, Wakayama Univ.) KAGEN, Kazushi; OSUGA, Hideji; KIMURA, Keiichi; SAKAMOTO, Hidefumi  
**3H5-48** Self-assembly of Amphiphilic NIPAM Oligomers with Metal Ions and Development of Nanoarchitectures (Sojo Univ.) SHIMOGAWA, Yoshifumi; HIGUMA, Chiharu; HACHISAKO, Hiroshi; KUROIWA, Keita  
**3H5-49** synthesis and characterization of Ring-expanded Metallophthalocyanine containing Fluorene Units (Shinshu Univ.) YAMAMOTO, Satoshi; KIMURA, Muthumi  
**3H5-50** Construction of Submicron-sized Spherical Structures through Self-assembly of Trinuclear Pd(II) Macrocycles in Water (Grad. School of Science, The Univ. of Tokyo) KAWAGOE, Minori; KUBOTA, Ryou; TASHIRO, Shohei; SHIONOYA, Mitsuhiko  
**3H5-51** Preparation and Structural and Photophysical Properties of TiO<sub>2</sub> nanoparticles-Encapsulated Porphyrin Nanorods (Keio Univ.) SAKAI, Hayato; OHKUBO, Kei; FUKUZUMI, Shunichi; HASOBE, Taku

Chair: TAKEZAWA, Yusuke (17 : 40~18 : 30)

- \* 17:30-17:40: interval for laptop PC connection.(3H5-53, 3H5-54, 3H5-55, 3H5-56, 3H5-57)  
**3H5-53** Construction of Heme-linked Poly(acrylic acid)-apomyoglobin Conjugate via Heme-heme Pocket Interaction (Osaka Univ.) ONO, Toshikazu; HISAOKA, Yasushi; ONODA, Akira; HAYASHI, Takashi  
**3H5-54** Ultrasound-Induced Emission Enhancement Based on Homo- and Heterochiral Aggregation of Cyclic Binuclear Platinum Complexes. (Graduate School of Engineering Science, Osaka Univ) TAKAHASHI, Koichi; MIYANAGA, Maiko; KOMIYA, Naruyoshi; NAOTA, Takeshi  
**3H5-55** Preparation and Properties of Amphiphilic Nitroxide Radical Compounds (Kyoto Univ.) ONISHI, Keita; FUJISAWA, Yu; SUZUKI, Katsuki; UCHIDA, Yoshiaki; SHIMONO, Satoshi; TAMURA, Rui; KATO, Tatsuhisa; YAMAUCHI, Jun  
**3H5-56** Properties of bridged pseudopolyrotaxane composed of cyclodextrin dimer and polymers (Saitama Univ., Graduate School of Science and Engineering) NAGANO, Yoshihiko; ISHIMARU, Yoshihiro  
**3H5-57** Anomalous elongated micelle and viscosity transition of long-chain amidoamine derivative (Tokyo Univ. of Sci.) MORITA, Clara; KIKUCHI, Aoi; IMURA, Yoshiro; ENDO, Hiroshi; KAWAI, Takeshi

# Room J1

11th Bldg. 11-21

## Polymer

### Sunday, March 25, AM

#### functional polymer

Chair: MIZUMO, Tomonobu (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(1J1-01, 1J1-02, 1J1-03, 1J1-05)

**1J1-01** Regiospecific accumulation of metallic ion at nano cylinder interface (KIT) OTONARI, Masatoshi; KOMURA, Motonori; YOSHIDA, Hirohisa; ASAKA, Sadaaki

**1J1-02** Cobalt-Coordinated Organic Nanotube as a Heterogeneous Oxidation Catalyst (AIST) HAN, Youn-gyu; AOYAGI, Masaru; KOGISO, Masaki; ASAKAWA, Masumi; SHIMIZU, Toshimi

**1J1-03\*** Multicolor electrochromism using electrochemical charging in hybrid hetero-assembly (IMRAM, Tohoku Univ.) MATSUI, Jun; KIKUCHI, Rie; MIYASHITA, Tokuji

**1J1-05\*** Synthesis of a Dendrimer Capsule for Cluster with a Magic Number (Tokyo Tech) KITAZAWA, Hirokazu; ALBRECHT, Ken; YAMAMOTO, Kimihisa

Chair: OYAIZU, Kenichi (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(1J1-08, 1J1-11, 1J1-12, 1J1-13)

**1J1-08** Young Scholar Lectures of CSJ Development of a novel self-oscillating polymer system and application to chemical robot (NRI, AIST) HARA, Yuhsuke

**1J1-11** Synthesis of a TCNQ anion radical terminated POSS-core dendrimer (KIT, Dept of Chem. and Mater. Technol.) IRIE, Yasuyuki; NAKA, Kensuke

**1J1-12** Polysiloxanes having the silatrane structures: Synthesis and evaluation as ion conducting polymers (Hiroshima Univ.; Faculty of Engineering) NAKASHIMA, Makoto; MIZUMO, Tomonobu; OYAMA, Yousuke; OOSHITA, Joji

**1J1-13** Benzo[*b*]trithiophene polymr network prepared by electrochemical polymerization with a combination of thermal conversion (Graduate School of Science and Engineering, Ehime Univ.; Institute of Advanced Energy, Kyoto Univ.) YANO, Maki; MIZOBUCHI, Shingo; UKAI, Talua; NAKAE, Takahiro; SATO, Hisako; SAKAGUCHI, Hiroshi

Chair: IIDA, Hiroki (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(1J1-15, 1J1-16, 1J1-17, 1J1-18, 1J1-19, 1J1-20)

**1J1-15** Polymer electrolytes for unhumidified PEFC from vinyl polymers having alcoholic hydroxyl groups (Yokohama National Univ.) SUZUKI, Mikio; TAKAHASHI, Akio; OYAMA, Toshiyuki

**1J1-16** Synthesis of Polydithiophenebenzoquinone Derivatives and Application to an Organic Electrode-Active Material (Dept. Appl. Chem., Waseda Univ.) HARA, Miyoko; MUKAI, Takuji; NIIBORI, Yukina; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**1J1-17** Polymerization of Thiophene Derivatives in Porous substrate using Gas-Phase Oxidant and their Conductivities. (Dept. Appl. Chem., Waseda Univ.) SASADA, Yoshito; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**1J1-18** Synthesis of Ruthenium Bipyridine-Containing Polymers and its Their Photo-anodic Properties (Dept. Appl. Chem., Waseda Univ.) TAKAHASHI, Akinari; NIIBORI, Yukina; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**1J1-19** Polyviologen Formed by Electropolymerization and its Photo-induced Charge Separation (Dept. Appl. Chem., Waseda Univ.) HARA, Shu; SANO, Naoki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**1J1-20** Synthesis and electrochemical property of anthraquinone-substituted polynorbornenes (Waseda University) TANITA, Natsumi; CHOI, Wonsung; OYAIZU, Kenichi; NISHIDE, Hiroyuki

### Sunday, March 25, PM

Chair: KIMURA, Mutsumi (13:30~14:20)

\* 13:20-13:30: interval for laptop PC connection.(1J1-28, 1J1-31, 1J1-32)

**1J1-28** Young Scholar Lectures of CSJ Designing Space around *pai*-Conjugated Molecules (NIMS) SUGIYASU, Kazunori

**1J1-31** Vapor-Phase Polymerized PEDOT/Redox Polymer Composite Electrodes for an Organic Flexible Rechargeable Battery (Dept. Appl. Chem., Waseda Univ.) TAKAMATSU, Tatsunori; MINAMI, Erina; SUGA, Takeo; WINTHER-JENSEN, Bjorn; NISHIDE, Hiroyuki

**1J1-32** Electrochemical Property of Nitroxide Radical Derivatives on Nafion-Coated Electrode (Dept. Appl. Chem., Waseda Univ.) KATO, Ryo; KATO,

Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

Chair: TANAKA, Kazuo (14:30~15:20)

\* 14:20-14:30: interval for laptop PC connection.(1J1-34, 1J1-35, 1J1-36, 1J1-37, 1J1-38)

**1J1-34** Synthesis and Properties of Alternating Copolymers based on Indacenodithiazole unit (ISIR, Osaka Univ.) UETA, Masashi; IE, Yutaka; ASO, Yoshio

**1J1-35** Synthesis, Properties and Function of Polythiophenes Having Fluoroether Substituent (ISIR, Osaka Univ.) KOJIMA, Aya; KARAKAWA, Makoto; IE, Yutaka; NAGAI, Takabumi; ASO, Yoshio

**1J1-36** Synthesis, Properties, and Photovoltaic Properties of Polymers having Dioxocycloalkene-annulated Thiophene as Acceptor Unit (ISIR, Osaka Univ.) HUANG, Jianming; IE, Yutaka; ASO, Yoshio

**1J1-37** Synthesis and Properties of beta-Substituted Polythiophenes Containing Fluoroacyl Groups as Electron-withdrawing Groups (ISIR, Osaka Univ.) NITANI, Masashi; IE, Yutaka; ASO, Yoshio

**1J1-38** Oxidative Polymerization of thiophenes onto the surface of TiO<sub>2</sub> nanoparticles and Their Photo-electric property (Faculty of Textile Science and Technology, Shinshu Univ.) SASAGAWA, Naoki; TAKEMOTO, Keisuke; KIMURA, Mutsumi

Chair: IE, Yutaka (15:30~16:30)

\* 15:20-15:30: interval for laptop PC connection.(1J1-40, 1J1-41, 1J1-42, 1J1-43, 1J1-44, 1J1-45)

**1J1-40** Development of chemical sensors by using Polythiophene-coated secondary ZnO colloidal spheres (Shinshu Univ.) KUNIEDA, Eriko; FUKAWA, Tadashi; KIMURA, Mutsumi; MIHARA, Takashi

**1J1-41** Synthesis and Electrode Properties of Nitronyl Nitroxide Radical-substituted Polynorbornene (Dept. Appl. Chem., Waseda Univ.) KAI, Ayumi; SUKEGAWA, Takashi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**1J1-42** Preparation and Electrochemical Properties of pn Junction using TEMPO-contain Polymer (Dept. Appl. Chem., Waseda Univ.) TOKUE, Hiroshi; SUKEGAWA, Takashi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**1J1-43** Photoresponsive Dendritic Molecular Glue(1) Development of photo-reactive molecular gule converting temporaryto permanent fixation and application for surface modification of biomolecule (The Univ. of Tokyo) UCHIDA, Noriyuki; OKURO, Kou; LING, Xiao; TOMISIGE, Michio; AIDA, Takuzo

**1J1-44** Photoresponsive Dendritic Molecular Glue(2) Light-induced Shape and Property Changes of Guests (The Univ. of Tokyo) KOYANAGI, Kohsei; OKURO, Kou; AIDA, Takuzo

**1J1-45** Synthesis and Optical Properties of Boron Diketonate-Containing Fluorene Polymers (Graduate School of Engineering, Kyoto Univ.) TAMASHIMA, Kenji; TANAKA, Kazuo; OKAWA, Toshifumi; NAGAI, Atsushi; CHUJO, Yoshiki

Chair: NAGATA, Yuuya (16:40~17:40)

\* 16:30-16:40: interval for laptop PC connection.(1J1-47, 1J1-49, 1J1-51)

**1J1-47\*** Development of photosensitive polyimides based on unfunctionalized polyimides and developable with aqueous alkaline solution (Yokohama National Univ.) OYAMA, Toshiyuki; KASAHARA, Aya; NAKAMURA, Yumiko; TAKAHASHI, Akio

**1J1-49\*** Synthesis and Characterization of Cu and Cd based Organic-Metallic hybrid polymers (NIMS) HOSSAIN, Md.Delwar; HIGUCHI, Masayoshi

**1J1-51\*** Synthesis and Functions of Light-Harvesting two-dimensional polymers and covalent organic frameworks (PRESTO, JST and Institute for Molecular Science) GUO, Zhaoli; JIANG, Donglin; NAGAI, Atsushi

Chair: JIANG, Dong-Lin (17:50~18:20)

\* 17:40-17:50: interval for laptop PC connection.(1J1-54, 1J1-55, 1J1-56)

**1J1-54\*** Synthesis and Photovoltaic Properties of Low Bandgap Polymers Containing Thienoquinodimethane Structure (Kyoto Univ., iCeMS) ZHANG, Bai; UMEYAMA, Tomokazu; DOUVOGIANNI, Evgenia; MATANO, Yoshihiro; IMAHORI, Hiroshi

**1J1-55** Synthesis and fluorescent properties of poly(quinoxaline-2,3-diyl)s bearing pyrene pendants (Graduate School of Engineering, Kyoto Univ.) NAGATA, Yuuya; NISHIKAWA, Tsuyoshi; SUGINOME, Michinori

**1J1-56** Wavelength/circular-polarized light selective reflections of chiral poly(quinoxaline)s having chlorooctyl side chains: Effect of copolymerization ratios on their functions (Graduate School of Engineering, Kyoto Univ.) NAGATA, Yuuya; TANAKA, Shun; TAKAGI, Keisuke; SUGINOME, Michinori

### Monday, March 26, AM

Chair: MATSUMI, Noriyoshi (9:00~9:40)

\* 8:50-9:00: interval for laptop PC connection.(2J1-01, 2J1-02, 2J1-03, 2J1-04)

**2J1-01** Synthesis and properties of polysilanes with phthalocyanine moieties (Saitama Univ., Graduate School of Science and Engineering) WADAI, Masaki; FUKUDA, Takeshi; KAMATA, Norihiko; HATANNO, Ken; MATSUOKA, Koji; ISHIMARU, Yoshihiro

**2J1-02** Synthesis and Property of Poly(boron enaminoketonate) Derived from Polyisoxazole Prepared via Click Polymerization (Department of Organic and

Polymeric Materials, Tokyo Inst. of Tech.) MATSUMURA, Tohru; KOYAMA, Yasuhito; TAKATA, Toshikazu

**2J1-03** Aminobenzimidazole-Dispersed Polymer Coatings for Optical CO<sub>2</sub> Sensing (Dept. Appl. Chem., Waseda Univ.) NAGAYAMA, Ayami; SHIBANO, Takashi; SUGA, Takeo; WATANABE, Masahiro; NISHIDE, Hiroyuki

**2J1-04** Development of Photofunctional Polymer Materials showing Molecular Reorientation Behavior by Photophysical Process (Chemical Resources Laboratory, Tokyo Institute of Technology) AIHARA, Yousuke; KINOSHITA, Motoi; MAMIYA, Jun-ichi; SHISHIDO, Atsushi

Chair: OYAMA, Toshiyuki (11:50~12:20)

\* 11:40-11:50: interval for laptop PC connection.(2J1-18)

**2J1-18** Young Scholar Lectures of CSJ Development of light-driven functional carbon nanotube-polymer composite (HRI, AIST) MIYAKO, Eijiro

## Monday, March 26, PM

Chair: KOYAMA, Yasuhito (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(2J1-28, 2J1-29, 2J1-30, 2J1-31, 2J1-32)

**2J1-28** Evaluation of Three-Dimensional Motion Analysis by Means of Two-Dimensional Surface Label Gratings (Chemical Resources Laboratory, Tokyo Institute of Technology) AKAMATSU, Norihisa; MAMIYA, Jun-ichi; KINOSHITA, Motoi; SHISHIDO, Atsushi

**2J1-29** Fabrication of laminated crosslinked liquid-crystalline polymer films with a periodic structure (Chemical Resources Laboratory, Tokyo Institute of Technology) TATSUMI, Ryoichi; MAMIYA, Jun-ichi; KINOSHITA, Motoi; SHISHIDO, Atsushi

**2J1-30** Atomic Force Microscopy Observation of Light-induced Change in Stretching Behavior of Photochromic Polymer at the Single Molecule Level (Wakayama Univ., Faculty of Systems Engineering) MUTOBE, So; MATSUMOTO, Yuuichi; KADO, Shinpei; NAKAHARA, Yoshio; KIMURA, Keiichi

**2J1-31** Synthesis of polyfluorene having 3,6-dinitro-9-fluorenone moiety and their optoelectronic properties (National Defense Academy, Department of Applied Chemistry) HAYASHI, Shotaro; NISHIYAMA, Hironari; KOZUMI, Toshio

**2J1-32\*** Synthesis of Novel Conjugated Polymers Including Tautomeric Units and Control of Their Optical Properties (Graduate School of Engineering, Kyoto Univ.) YOSHII, Ryouyuke; TANAKA, Kazuo; CHUJO, Yoshiki

Chair: MAMIYA, Jun-Ichi (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(2J1-35, 2J1-37, 2J1-39)

**2J1-35\*** Molecular Designs of Chiral Conjugated Polymers for High Efficient Chiroptical Properties in Green Region and Their Applications (Department of Materials and Life Sciences, Sophia Univ.) HIRAHARA, Takashi; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

**2J1-37\*\*** Synthesis of conjugated microporous polymers with highly emissive materials and structural control (SOUKENDAI, Institute for Molecular Science) XU, Yanhong; JIANG, Donglin

**2J1-39\*\*** Synthesis and functions of two-dimensional conjugated polymers (Sokendai; Institute for Molecular Science; Japan Science and Technology Agency (JST); Nagoya Univ.) CHEN, Xiong; GUO, Zhaoqi; FENG, Xiao; SAENGSAWANG, Orphan; LIU, Lili; NAGAI, Atsushi; IRLE, Stephan; JIANG, Donglin

Chair: SHISHIDO, Atsushi (15:50~16:50)

\* 15:40-15:50: interval for laptop PC connection.(2J1-42, 2J1-44, 2J1-46)

**2J1-42\*** Synthesis and emission properties of lanthanide-transition metallic-organic hybrid copolymer (NIMS; JST-CREST) SATO, Takashi; HIGUCHI, Masayoshi

**2J1-44\*\*** Synthesis and High-rate charge carrier transports of two-dimensional porphyrin polymers and frameworks (Beijing Institute of Technology, Institute for Molecular Science, JST PRESTO) FENG, Xiao; SEKI, Shu; SAEKI, Akinori; HONSHO, Yoshihito; JIANG, Donglin

**2J1-46\*** Selective recognition for biomolecules by using water-soluble POSS as a scaffold (Kyoto Univ.) TANAKA, Kazuo; HIRAOKA, Tatsuhiro; MURAKAMI, Masahiro; CHUJO, Yoshiki

Chair: KUDO, Hiroto (17:00~17:30)

\* 16:50-17:00: interval for laptop PC connection.(2J1-49)

**2J1-49** Young Scholar Lectures of CSJ Development of High-Contrast Tumor Imaging Probes with a Pseudosaccharide Structure (Grad. Sch. Eng., Kyoto Univ.) MIKI, Koji

## Tuesday, March 27, AM

Chair: AKIYOSHI, Kazunari (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(3J1-01, 3J1-02, 3J1-03, 3J1-05, 3J1-06)

**3J1-01** Molecular Glues for Functionalization of Biomolecules (1): Development of Adhesive Patches Giving Photomechanical Perturbation to Biomembranes (School of Engineering, The Univ. of Tokyo) SUZUKI, Yushi;

TAKEUCHI, Tadashi; OKURO, Kou; AIDA, Takuzo

**3J1-02** Molecular Glues for Functionalization of Biomolecules (2): Development of Photoclickable Molecular Glues (School of Engineering, The Univ. of Tokyo) FUKUSATO, Yu; OKURO, Kou; AIDA, Takuzo

**3J1-03\*** Syntheses and Polyplex-Formation Properties of Glycopolymer containing Cationic Segments (Univ. of Yamanashi) OBATA, Makoto; KOBORI, Tomoya

**3J1-05** Differentiation ability of adipose-derived stem cells separated from adipose tissue by a membrane filtration method (Univ. of National Central Univ.) HIGUCHI, Akon

**3J1-06** Fabrication of nanosheet containing silver nanoparticles and evaluation of its antimicrobial activity (Dept. of Life Sci. Med. Biosci., School of Adv. Sci. & Eng., Waseda Univ.) ITO, Keisuke; SAITO, Akihiro; TAKEOKA, Shinji

Chair: SUZUKI, Masahiro (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(3J1-08, 3J1-10, 3J1-12)

**3J1-08\*** Design of amphiphilic polysaccharide nanoballs for biomaterials (Tokyo Medical and Dental Univ. & Kyoto Univ.) TAKAHASHI, Haruko; SAWADA, Shin-ichi; AKIYOSHI, Kazunari

**3J1-10\*** Development of Molecular Glue for Non-covalent Adhesion to Biomacromolecules and Application for Protein and Nucleic Acid Delivery (School of Engineering, The Univ. of Tokyo) OKURO, Kou; KINBARA, Kazushi; OBA, Makoto; NISHIYAMA, Nobuhiro; KATAOKA, Kazunori; AIDA, Takuzo

**3J1-12\*** Development of spatiotemporal cell patterning technology using photo-cleavable PEG-lipid (The Univ. of Tokyo; School of Eng., AIST; SCRC) YAMAHIRA, Shinya; YAMAGUCHI, Satoshi; KIKUCHI, Kyoko; SUMARU, Kimio; KANAMORI, Toshiyuki; NAGAMUNE, Teruyuki

Chair: OKURO, Kou (11:20~12:00)

\* 11:10-11:20: interval for laptop PC connection.(3J1-15, 3J1-16, 3J1-17, 3J1-18)

**3J1-15** Photo-reversible oxygenation of polymer cobalt(II)salen complexes coordinating with pyridine ligands adjacent to photo-responsive portions (Faculty of Engineering, Tokyo Denki Univ., Department of Green & Sustainable Chemistry) UBUKATA, Shun; HACHISU, Kiyozumi; SUZUKI, Takayuki

**3J1-16** Influence of thermal stability of spiropyran on water content in non-crosslinked copolymer membranes with hydroxy groups and evaluation of photo-reversible metal-ion complexation (Faculty of Engineering, Tokyo Denki Univ., Department of Green & Sustainable Chemistry) KITSUKAWA, Tomohiko; AKAHORI, Masaya; SUZUKI, Takayuki

**3J1-17** Synthesis and evaluation of cross-linked cationic hydrogels which swell and shrink responding to pH and temperature (Graduate School of Engineering, Tokyo Denki Univ.) HIRATA, Yasushi; KAZAMA, Yasuhiro; SUZUKI, Takayuki

**3J1-18** Synthesis of a Cobalt Porphyrin Network Polymer Formed by Michael Addition (Dept. Appl. Chem., Waseda Univ.) OHARA, Emiko; NAKAJIMA, Satoshi; NISHIDE, Hiroyuki

## Tuesday, March 27, PM

Chair: NAKAJIMA, Satoshi (13:10~14:00)

\* 13:00-13:10: interval for laptop PC connection.(3J1-26, 3J1-27, 3J1-28, 3J1-29, 3J1-30)

**3J1-26** Polymer wrapping of carbon nanotube via polymerization in micelle (Kyushu Univ.) FUJIGAYA, Tsuyohiko; TSUTSUMI, Yusuke; NAKASHIMA, Naotoshi

**3J1-27** Self-oscillation appearing Poly(L-lysine-alt-terephthalic acid) Microcapsule and the release behavior (Saga Univ) TAKAKURA, Hirokazu; OGATA, Naoko; NARITA, Takayuki; OISHI, Yushi

**3J1-28** Design of a light-induced self-oscillating system using of photo thermal conversion efficiency transition of a temperature-responsive hydrogel (Saga Univ.) IKEDA, Tatsuhiro; TASHIRO, Isao; NARITA, Takayuki; OISHI, Yushi

**3J1-29** Dynamics of the Pattern Formation Observed in Alginate Gel (Saga Univ.) MATSUDA, Natsuki; MATSUMAE, Haruki; NARITA, Takayuki; TOKITA, Masayuki; OISHI, Yushi

**3J1-30** Synthesis of fluorescent gelators and fluorescence microscope observation for gelation behavior. (Shinshu Univ.) UEDA, Takuya; SUZUKI, Masahiro; HANABUSA, Kenji

Chair: FUJIGAYA, Tsuyohiko (14:10~15:00)

\* 14:00-14:10: interval for laptop PC connection.(3J1-32, 3J1-33, 3J1-34, 3J1-35, 3J1-36)

**3J1-32** Development of fluorescent gelators to detect explosives (Shinshu Univ.) TAKATA, Shingo; SUZUKI, Masahiro; HANABUSA, Kenji; NOMURA, Yasushi

**3J1-33** Development of explosive detectors of fluorescent gelators containing gelation-driving segments (Shinshu Univ.) HARANO, Kazuki; SUZUKI, Masahiro; HANABUSA, Kenji; NOMURA, Yasushi

**3J1-34** Water State in Methylcellulose Thermo Reversible Hydrogels Containing Salt 3 (Kanagawa Univ.) UEHARA, Yuzuru; SHIMODA, Eita; NISHIMOTO, Yuko

- 3J1-35** Dependence of surface modification of particle silica gels on some physical properties of volume phase transition gels connected with the silica gels (Shizuoka Univ.) TANAHASHI, Shunsuke; ITAGAKI, Hideyuki
- 3J1-36** Factors Inhibiting Growth in Physical Gels of Syndiotactic Polystyrene (GSST, Shizuoka Univ.) MOCHIZUKI, Jun; MATSUNAGA, Yasuhiro; SANO, Takumi; ITAGAKI, Hideyuki

Chair: ISHIFUNE, Manabu (15 : 10~16 : 10)

\* 15:00-15:10: interval for laptop PC connection.(3J1-38, 3J1-39, 3J1-40, 3J1-42)

- 3J1-38\*** Electrochromic Gel (NIMS; JST-CREST) ZHANG, Jian; HIGUCHI, Masayoshi
- 3J1-39** Colorimetric Detection of Hydrogen Carbonate and Acetate Ions in Water by Inverse Opal Gel Incorporating Thioureido Group (Wakayama Univ., Faculty of Systems Engineering) OTANI, Haruka; KADO, Shinpei; NAKAHARA, Yoshio; KIMURA, Keiichi
- 3J1-40\*** Creation of extremely tough Double Network Hydrogels from any chemical species achieved by "molecular stent" method (Faculty of Advanced Life Science, Hokkaido Univ.) NAKAJIMA, Tasuku; SATO, Hitomi; KAWAHARA, Shinya; KUROKAWA, Takayuki; GONG, Jian Ping
- 3J1-42\*** Development of GSH triggered-degradation polymer based on SNAR reaction. (RIKEN; itonanomedical) SHIBATA, Aya; ABE, Hiroshi; MASHIMO, Takushi; HATANNO, Ken; ITO, Yoshihiro

Chair: KIMURA, Keiichi (16 : 20~17 : 20)

\* 16:10-16:20: interval for laptop PC connection.(3J1-45, 3J1-47, 3J1-48, 3J1-49, 3J1-50)

- 3J1-45\*** Construction of Lipophilic Polyelectrolytes Dissociable in Non-Polar Solvents and Molecular Design of Their Main Chains (Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.; Graduate School of Engineering, Osaka Univ. ; Graduate School of Science, Hokkaido Univ.) OHTA, Masahiko; ONO, Toshikazu; KOKADO, Kenta; SADA, Kazuki
- 3J1-47** Synthesis and catalytic activity of the thermoresponsive polymer having pyrrolidine side chains as chiral and base functionalities (Kinki Univ.) UEMUKAI, Toru; ISHIFUNE, Manabu
- 3J1-48** Synthesis of new optically active thermoresponsive polymers and their thermoresponsive behavior in aqueous solutions of amino acid derivatives (Kinki Univ.) MATSUSHIMA, Ayaka; ISHIFUNE, Manabu
- 3J1-49** Synthesis of Polyphenylacetylenes with Biphenyl Group in the Side Chain (Kanto Gakuin Univ.) OTSUKA, Ryouzuke; KOUZAI, Hiroaki
- 3J1-50** Application of PEG derivatives for through-hole plating (Kanto Gakuin Univ.) OKUBO, Ken; NISIO, Masato; CORDONIER, Chris; SUGIMOTO, Masaharu; HONMA, Hideo; KOUZAI, Hiroaki

Chair: NAKAJIMA, Tasuku (17 : 30~18 : 20)

\* 17:20-17:30: interval for laptop PC connection.(3J1-52, 3J1-53, 3J1-54, 3J1-55)

- 3J1-52** Synthesis and sequence control of the polymer complexes having more than two different metalloporphyrin side chains (Kinki Univ.) NOHARA, Kazuki; MORIKAWA, Ai; ISHIFUNE, Manabu
- 3J1-53** Supramolecular Complex of a Dendrimer with Fullerenes (Tokyo Tech) KURAMOTO, Yasunori; ALBRECHT, Ken; YAMAMOTO, Kimihisa
- 3J1-54** Synthesis and self-mendability of crystalline network polymers with segments of high molecular mobility (Inst.of Industrial Science, Univ. of Tokyo) FUJITA, Takehiro; OYA, Nobuhiro; IKEZAKI, Tabito; YOSHIE, Naoko
- 3J1-55\*** Non-solvent synthesis of new disulfide polymers and their application to lithium rechargeable battery. (Department of Chemistry; Yonago National College of Technology) TANIFUJI, Naoki; YAMAMOTO, Kouhei; MURAO, Akifumi; HARA, Satoshi; SHIMIZU, Kaho; YOSHIKAWA, Hirofumi

triflate (Hiroshima Univ.) OHMORI, Toshihiko; NAKAYAMA, Yuusyou; SHIONO, Takeshi; CAI, Zhengguo

- 1J2-12** Creation of Polar Polymer Particles by Living Coordination Dispersion Polymerization (Tokyo Institute of Technology, Interdisciplinary Graduate School of Science and Engineering, Department of Electronic Chemistry) SUZUMURA, Yusei; TOMITA, Ikuyoshi

Chair: TOMITA, Ikuyoshi (11 : 10~12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(1J2-14, 1J2-15, 1J2-17)

- 1J2-14** Copolymerization of Polar Vinyl Monomers with Carbon Monoxide by P-Chiral Phosfine-Sulfonate Palladium Catalysts (The Univ. of Tokyo) NAKAMURA, Akifumi; KAGEYAMA, Takeharu; ITO, Shingo; NOZAKI, Kyoko
- 1J2-15\*** Synthesis of Novel Substituted Polyacetylenes Utilizing  $\alpha$ -Propargyl Amino Acid as a Chiral Source and Stimuli-Responsiveness of the Secondary Structure (Kyoto Univ., Department of Polymer Chemistry) SOGAWA, Hiromitsu; SHIOTSUKI, Masashi; SANDA, Fumio
- 1J2-17\*** Fabrication and characterization of polybenzoxazole film with high thermal stability (Kyushu Univ.) FUKUMARU, Takahiro; FUJIGAYA, Tsuyohiko; NAKASHIMA, Naotoshi

## Sunday, March 25, PM

Chair: OTSUKA, Hideyuki (13 : 10~14 : 00)

\* 13:00-13:10: interval for laptop PC connection.(1J2-26, 1J2-27, 1J2-28, 1J2-29)

- 1J2-26** Synthesis of polyimides having photosensitive groups in the main chain and application as an alignment film (Graduate School of Engineering, Chiba Univ.) MATSUMARU, Teruhisa; KOHRI, Michinari; TANIGUCHI, Tatsuo; NAKAHIRA, Takayuki
- 1J2-27** Oxidative Polymerization Mechanism of Diphenyl Disulfide using Vanadyl complexes (Dept. Appl. Chem., Waseda Univ.) TAKATORI, Yohei; YAMAGUCHI, Sousuke; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 1J2-28\*** Modification and cross-linking of polymer exploiting reactive stable nitrile N-oxide possessing electrophilic site (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) CHEAWCHAN, Sumitra; MIURA, Kaori; KOYAMA, Yasuhiro; SEO, Akishige; TAKATA, Toshikazu
- 1J2-29\*\*** Synthesis of Stable Aliphatic Nitrile N-Oxides and their Application to Catalyst-Free Modification Reaction (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) WANG, Chengang; YONEGAWA, Morio; SEO, Akishige; KOYAMA, Yasuhiro; TAKATA, Toshikazu

Chair: TAKATA, Toshikazu (14 : 10~15 : 00)

\* 14:00-14:10: interval for laptop PC connection.(1J2-32, 1J2-34, 1J2-36)

- 1J2-32\*** Properties of Cross-linked Polymers with Autonomously Exchangeable Dynamic Covalent Bonds (Graduate School of Engineering, Kyushu Univ.) IMATO, Keiichi; KANEHARA, Takeshi; AMAMOTO, Yoshifumi; TAKAHARA, Atsushi; OTSUKA, Hideyuki
- 1J2-34\*** Development of Novel Synthetic Method of  $\pi$ -Conjugated Polymers Containing Tellurophene Units in the Main Chain by Reaction of Organometallic Polymers Having Titanacyclopentadiene Units (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) NISHIYAMA, Hiroki; TOMITA, Ikuyoshi
- 1J2-36** Design and Synthesis of Novel  $\pi$ -Conjugated Polymers Containing Thiophene-I-oxide Units in the Main Chain via Organometallic Polymers Having Titanacyclopentadiene Units (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) NISHIYAMA, Hiroki; TOMITA, Ikuyoshi

Chair: JIANG, Dong-Lin (15 : 10~16 : 10)

\* 15:00-15:10: interval for laptop PC connection.(1J2-38, 1J2-40, 1J2-41, 1J2-42, 1J2-43)

- 1J2-38\*** Synthesis of aromatic ring-layered polymers by the condensation reaction and their properties (Graduate School of Engineering, Kyoto Univ.) TSUJI, Yuichi; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 1J2-40\*** Synthesis of End-capped Regioregular Poly(3-hexylthiophene)s via Direct Arylation (Institute for Chemical Research, Kyoto Univ.) WANG, Qifeng; WAKIOKA, Masayuki; OZAWA, Fumiyouki
- 1J2-41** Synthesis of Novel  $\pi$ -Conjugated Polymers by Photochemical Reaction of Poly(*p*-phenylene-vinylene)s Containing Tetraphenylethylene Units (Tokyo Institute of Technology, Interdisciplinary Graduate School of Science and Engineering, Department of Electronic Chemistry) WAKANA, Sho; TOMITA, Ikuyoshi
- 1J2-42** Ruthenium-Catalyzed Coupling Polymerization of 2-Phenylloxazoline Derivatives and Aryl Dihalides through C-H Bonds Activation Process. (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) KAWAMITSU, Shoichi; TOMITA, Ikuyoshi
- 1J2-43** Synthesis and property of tellurium-containing polymers by the polycondensation reaction of tetrachlorotellurium and alkoxybenzene (Kanagawa Univ.; Faculty of Engineering) MURATA, Hiroki; KUDO, Hiroto; NISHIKUBO, Tadatomu

**Room J2**  
 11th Bldg. 11-22

### Polymer

Sunday, March 25, AM

### Polymer Synthesis

Chair: SANDA, Fumio (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(1J2-07, 1J2-10, 1J2-11, 1J2-12)

- 1J2-07** Young Scholar Lectures of CSJ Core-Functionalized Star Polymers via Living Radical Polymerization for Designer Nano Functional Compartments (Grad. Sch. Eng., Kyoto Univ.) TERASHIMA, Takaya
- 1J2-10** Synthesis of Polycarbazole Backbone by Photopolymerization (Nara Inst. Sci. Tech.) KOYAMA, Fumi; KAWAI, Tsuyoshi
- 1J2-11** Ring-opening polymerization of cyclic ester catalyzed by iron(III)

Chair: MORISAKI, Yasuhiro (16:20~17:10)

\* 16:10-16:20: interval for laptop PC connection.(1J2-45, 1J2-46, 1J2-48)

- 1J2-45** Mechanism of helix-sense-selective polymerization of phenylacetylene and selective cyclocaromatization of the resulting polymers (Graduate School of Sci. & Tech., Niigata Univ.; CTR, Niigata Univ.; VBL, Niigata Univ.; CIA, Niigata Univ.; Faculty of Engineering, Niigata Univ.; N-chem, Niigata Univ.) WASUZU, Ikuya; TANAGI, Hiroyuki; ABE, Yunosuke; LIU, Lijia; ZANG, Yu; KAKIHANA, Yuriko; TERAGUCHI, Masahiro; KANEKO, Takashi; AOKI, Toshiki
- 1J2-46\*** Preparation of Polymer Particles by Enzymatic Miniemulsion Polymerization with a Polymerizable Surfactant (Graduate School of Engineering, Chiba Univ.) KOHRI, Michinari; KOBAYASHI, Ayaka; FUKUSHIMA, Haruka; TANIGUCHI, Tatsuo; NAKAHIRA, Takayuki
- 1J2-48\*\*** Synthesis and Functions of An n-Channel Two-Dimensional Polymer and Framework (SOKENDAI, Institute for Molecular Science, JST PRESTO) DING, Xuesong; CHEN, Long; SEKI, Shu; SAEKI, Akinori; HONSHO, Yoshihito; JIANG, Donglin

## Monday, March 26, PM

### Polymer Synthesis

Chair: YAMAMOTO, Takuya (13:00~14:00)

\* 12:50-13:00: interval for laptop PC connection.(2J2-25, 2J2-26, 2J2-27, 2J2-28, 2J2-29)

- 2J2-25** Spontaneous Formation of Nanostructured Materials by Living Coordination Block Copolymerization of Fluorous-substituted Allene Derivatives. (Tokyo Institute of Technology, Interdisciplinary Graduate School of Science and Engineering, Department of Electronic Chemistry) HISAMURA, Kenta; TOMITA, Ikuyoshi
- 2J2-26** Creation of functional organic-inorganic nanohybrid materials based on living coordination polymerization of allene derivatives (Tokyo Institute of Technology, Interdisciplinary Graduate School of Science and Engineering, Department of Electronic Chemistry) NAKANISHI, Hiroki; TOMITA, Ikuyoshi
- 2J2-27** Synthesis of amphiphilic macromonomers bearing a fluorene moiety at the terminus and their application to preparation of polymer particles (Kyoto Institute of Technology) NAGURA, Katsutoshi; MOTOYANAGI, Jin; MINODA, Masahiko
- 2J2-28** Synthesis and properties of novel amphiphilic block copolymers with pendant imidazolyl group. (Kanagawa Univ.) SATO, Takuya; MIYASAKA, Makoto; KAMEYAMA, Atsushi
- 2J2-29\*** Synthesis of graft polymers by simultaneous polymerization (Dept. of Organic and Polymeric Materials, Grad. School of Science and Engineering, Tokyo Institute of Technology) UCHIDA, Satoshi; ISHIZU, Koji; TAKATA, Toshikazu

Chair: KAMEYAMA, Atsushi (14:10~15:10)

\* 14:00-14:10: interval for laptop PC connection.(2J2-32, 2J2-33, 2J2-34, 2J2-36, 2J2-37)

- 2J2-32** Synthesis of Poly(TEMPO substituted acrylamide) using RAFT Polymerization and Electrochemical Property of Grafted- Gold electrode (Dept. Appl. Chem., Waseda Univ.) TSUJI, Kazumasa; SASAKI, Yuto; TAKAHASHI, Katuyuki; NISHIDE, Hiroyuki
- 2J2-33** Synthesis and Structural Analysis of Poly Norbornene-graft-Poly (TEMPO-substituted methacrylate) (Dept. Appl. Chem., Waseda Univ.) MASUKO, Issei; SUKEGAWA, Takashi; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2J2-34\*** Synthesis and characterization of macromolecular [2]rotaxanes having polymer chain as an axle component. (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) AOKI, Daisuke; KOYAMA, Yasuhito; UCHIDA, Satoshi; TAKATA, Toshikazu
- 2J2-36** Synthesis of Star-shaped Polymers Consisting of Rotaxane Structure in the Arm Chains (Tokyo Institute of Technology) MATSUO, Tomoaki; AOKI, Daisuke; KOYAMA, Yasuhito; UCHIDA, Satoshi; TAKATA, Toshikazu
- 2J2-37** Synthesis of Polyrotaxanes Constructed from Pillar[5]arenes and Polyethylene (Graduate School of Natural Science and Technology, Kanazawa Univ.) KAYAMA, Hitoshi; AOKI, Takamichi; OGOSHI, Tomoki; YAMAGISHI, Tada-aki

Chair: UCHIDA, Satoshi (15:20~16:00)

\* 15:10-15:20: interval for laptop PC connection.(2J2-39, 2J2-40, 2J2-41, 2J2-42, 2J2-43, 2J2-44)

- 2J2-39** Synthesis of Well-Defined Star-shaped Polystyrenes Using Pillar[5]arene Derivatives as a Core (Kanagawa Univ.; Faculty of Engineering; Graduate School of Natural Science and Technology, Kanazawa Univ.) KIHARA, Kousuke; KUDO, Hiroto; NISHIKUBO, Tadatomi; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 2J2-40** Synthesis of terminal modified liquid crystalline dendrimer aimed at self-organization (Univ. of Tokyo Institute of Technology; Chemical Resource laboratory) OKAMOTO, Yukiyasu; AZUMA, Keisuke; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 2J2-41** Construction of Self-assembled Structure of Phenylazometinedendrimer Promoted by Cross-linker Molecule. (Tokyo Tech) OHTAKE, Masaya;

ALBRECHT, Ken; YAMAMOTO, Kimihisa

- 2J2-42\*** Construction of Spiro-Multicyclic Polymer Topologies through a Multiple Click Coupling using Azide-Containing Kyklo-Telechelic Precursor (Tokyo Tech) KO, Yee Song; HEGURI, Hiroyuki; YAMAMOTO, Takuya; TEZUKA, Yasuyuki

Chair: SUGA, Takeo (16:00~16:40)

- 2J2-43** Synthesis of 4-Iodotetrahydropyran-Containing Polymers by Cyclo-polymerization (Tokyo Institute of Technology) TAKEI, Naoko; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 2J2-44** Synthesis and Properties of Helical Polymers Containing Optically Active Spiroaromatic Structure in the Main Chain (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) YI, Zhaozhong; OKUDA, Hitoshi; KOYAMA, Yasuhito; TAKATA, Toshikazu
- \* 16:20-16:30: interval for laptop PC connection.(2J2-46)
- 2J2-46** Synthesis and characterization of polyfluorenes with electron-withdrawing and -donating groups in cardo structures (Graduate School of Engineering, Kyoto Univ.) YEO, Hyeonuk; TANAKA, Kazuo; CHUJO, Yoshiaki

## Tuesday, March 27, AM

### Polymer structure, physics

Chair: KADOKAWA, Junichi (10:00~11:00)

\* 9:50-10:00: interval for laptop PC connection.(3J2-07, 3J2-08, 3J2-10, 3J2-11, 3J2-12)

- 3J2-07** Synthesis of water-soluble helical poly(quinoxaline-2,3-diyl)s (Graduate School of Engineering, Kyoto Univ.) NAGATA, Yuuya; TAKAGI, Keisuke; SUGINOME, Michinori
- 3J2-08\*** Helical pitch control by using side-chain structures of poly(alkyl propiolate)s (Muroan Institute of Technology) YOSHIDA, Yoshiaki; MOTOSHIGE, Asahi; MAWATARI, Yasuteru; HIRAOKI, Toshifumi; TABATA, Masayoshi
- 3J2-10** One-pot synthesis of stereocomplexes of lactide copolymers and their physical properties (Hiroshima Univ.) UNO, Tomohito; NAKAYAMA, Yuushou; SHIONO, Takeshi; SHIRAHAMA, Hiroyuki; CAI, Zhengguo
- 3J2-11** Molecular shape recognition by rigid dendrimer (Chemical Resources Laboratory; Tokyo Institute of Technology) KUROKAWA, Takuto; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 3J2-12** Recognition and Extraction of Semiconducting Single-Walled Carbon Nanotube Enantiomers Using Fluorene-Binaphthol Chiral Copolymers (Kyushu Univ.) NAKASHIMA, Naotoshi; AKAZAKI, Kojiro; TOSHIMITSU, Fumiyouki; FUJIGAYA, Tsuyohiko

Chair: IMAOKA, Takane (11:10~12:00)

\* 11:00-11:10: interval for laptop PC connection.(3J2-14, 3J2-16, 3J2-17, 3J2-18)

- 3J2-14\*** Effect of backbone structure of polymers on selective recognition/extraction (Kyushu Univ.) TOSHIMITSU, Fumiyouki; OZAWA, Hiroaki; IDE, Natsuko; FUJIGAYA, Tsuyohiko; NIIDOME, Yasuro; NAKASHIMA, Naotoshi
- 3J2-16** Formation of Carbon Nano-tubes-oligomers Composites and Synthesis of Oligo Phenylene Ethynyls (School of Science and Engineering, Tokyo Denki Univ.) ADACHI, Naoya
- 3J2-17** Synthesis and phase transition behavior of liquid-crystalline polymers prepared by atom transfer radical polymerization (Chemical Resources Laboratory, Tokyo Institute of Technology) KATO, Kei; MAMIYA, Jun-ichi; KINOSHITA, Motoi; SHISHIDO, Atsushi
- 3J2-18** Co-crystallization and structural changes of syndiotactic polystyrene induced by exposure of naphthalene vapor (Shizuoka Univ.) KOSHINO, Takatsugu; SAGO, Tomohiro; ITAGAKI, Hideyuki

## Tuesday, March 27, PM

Chair: ITAGAKI, Hideyuki (13:10~14:10)

\* 13:00-13:10: interval for laptop PC connection.(3J2-26, 3J2-27, 3J2-28, 3J2-29)

- 3J2-26** The characteristic and the control of the light diffusion which derives from the higher order structure of the diblock copolymer (Tohoku Univ., NiChe) NISHIZAWA, Masahiro; KUSAMA, Kentaro; SEKIYA, Kazuo; SASAI, Mutsumi; KAWAKAMI, Toru; UCHIDA, Tatsuo
- 3J2-27** Effect of Crystallization Condition on Polyethylene Single Crystal Morphology on the basis of AFM Observation (Saga Univ.) SAKIMURA, Shun; NARITA, Takayuki; OISHI, Yushi
- 3J2-28** Determination of quinone structure enzymatically-polymerized 4-alkenylcatechols (Mwiji Univ. graduate school, synthetic organic chemistry lab.) HARADA, Yuta; MIYAKOSHI, Tetsuo
- 3J2-29** CSJ Award for Young Chemists Preparation and Application of Polymer Particles with Phase Separation Structures by Self-Organization (IMRAM, Tohoku Univ.; PRESTO, JST) YABU, Hiroshi



## Biopolymer

Chair: MIKI, Koji (14 : 20~15 : 30)

- \* 14:10-14:20: interval for laptop PC connection.(3J2-33, 3J2-35, 3J2-36, 3J2-37, 3J2-38)
- 3J2-33\*** Facile Preparation of Lipid Nanotubes with Controlled Direction by using External Field (Tokyo Medical & Dental Univ., Global COE, JST, Kyoto Univ.) SEKINE, Yurina; SASAKI, Yoshihiro; AKIYOSHI, Kazunari
- 3J2-35** Synthesis of novel bottle brush-shaped peptide-polymer hybrids and their self-assembling property (Doshisha Univ.) UTA, Akira; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 3J2-36** Study on Formation Behavior of Inclusion Complex in Vine-Twining Polymerization by Means of Quarts Crystal Microbalance (Kagoshima Univ.) YOSHIOKA, Asami; HARIHARA, Makoto; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 3J2-37** Enzymatic Synthesis of Oligo- $\alpha$ -mannans by Phosphorylase Catalysis (Kagoshima Univ.) TAKEMOTO, Yasutaka; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 3J2-38\*** Preparation of poly(N-isopropylacrylamide) by ATRP under high pressure (Kagoshima Univ.) YAMAMOTO, Kazuya; HOSHINO, Yuji; KADOKAWA, Jun-ichi

Chair: SASAKI, Yoshihiro (15 : 40~16 : 20)

- \* 15:30-15:40: interval for laptop PC connection.(3J2-41, 3J2-42, 3J2-43, 3J2-44)
- 3J2-41** High-contrast fluorescence tumor imaging in vivo utilizing nanoparticles of brush-like copolymers (Graduate School of Engineering, Kyoto Univ.) MIKI, Koji; KIMURA, Akinori; MATSUOKA, Hideki; HARADA, Hiroshi; HIRAOKA, Masahiro; OHE, Kouichi
- 3J2-42** Synthesis and Evaluation of Self-assemblies Composed of Amino Acid-containing Amphiphilic Block Copolymers for Optical Tumor Imaging (Graduate School of Engineering, Kyoto Univ.) MIKI, Koji; NAKANO, Katsuya; MATSUOKA, Hideki; HARADA, Hiroshi; HIRAOKA, Masahiro; OHE, Kouichi
- 3J2-43** Synthesis of Amphiphilic Janus Brush-Like Polymers Based on Functionalization of Polymers and Their Application to Tumor Imaging (Graduate School of Engineering, Kyoto Univ.) MIKI, Koji; HASHIMOTO, Hiroki; MATSUOKA, Hideki; HARADA, Hiroshi; HIRAOKA, Masahiro; OHE, Kouichi
- 3J2-44** Preparation of Sulfated Fucoidan (Tottori Univ.) NISHIWAKI, Kazuki; MORI, Daiki; KAWAMOTO, Hitoshi; MINAMI, Saburo; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

## Room J3

11th Bldg. 11-41

Organic Chemistry -Reaction and Synthesis-  
Heterocyclic Compounds

Sunday, March 25, PM

Chair: KAMIMURA, Akio (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(1J3-25, 1J3-26, 1J3-27, 1J3-28, 1J3-29, 1J3-30)
- 1J3-25** Electrophilic cyclization reactions of ethynylbenzophenones (Faculty of Science, Fukuoka Univ.) NAGAHORA, Noriyoshi; NOZAKI, Kazuhiro; WASANO, Tatsuya; SHIOJI, Kosei; OKUMA, Kentaro
- 1J3-26** Synthesis and Properties of 2-Aryl-3-Trifluoromethyl-Substituted Fused Polyaromatic Benzofurans (Graduate School of Science, Kyoto Univ.) OOKUBO, Yuuya; WAKAMIYA, Atsushi; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 1J3-27** Chiral Lewis Acid Catalyzed Asymmetric 1,3-Dipolar Cycloaddition Reactions between Cyclic Carbonyl Ylides and Indole Derivatives -Substrate Generality (Shinshu Univ.) SEKIKAWA, Yurie; MISAWA, Shunta; ITOH, Kennosuke; SUGA, Hiroyuki
- 1J3-28** Asymmetric 1,3-dipolar cycloaddition reactions of cyclic azomethine ylides derived from diazoacetophenone derivatives with electron-deficient olefins catalyzed by chiral Lewis acids (Shinshu Univ.) TAGUCHI, Mizuki; ITOH, Kennosuke; SUGA, Hiroyuki
- 1J3-29** Synthesis of isoindole derivatives in super critical carbon dioxide and optimize condition of the reaction. (Faculty of Engineering, Utsunomiya Univ.) IWABE, Yuki; OBA, Toru; SATO, Takafumi; ITO, Naotsugu; ITO, Satoshi
- 1J3-30** Synthesis of C60- and SWCNT-fused 8-oxabicyclo[3.2.1]octane-2-ones and evaluation of their physical properties and electron acceptability (Shinshu Univ.) FUKASAWA, Shuto; ITOH, Kennosuke; SUGA, Hiroyuki

Chair: FUJITA, Takeshi (14 : 10~15 : 10)

- \* 14:00-14:10: interval for laptop PC connection.(1J3-32, 1J3-33, 1J3-34, 1J3-35, 1J3-36, 1J3-37)

- 1J3-32** Synthesis of fused tricyclic compounds with benzopyranooxepinone (Graduate School of Environment and Information Sciences, Yokohama National Univ.) HONDA, Kiyoshi; SHIMAMURA, Yoshihisa; HOSHINO, Yujiro; INOUE, Seiichi
- 1J3-33** Preparation of Imidazophenanthridine Analog and Synthesis and Properties of Phosphorescent Iridium Complex for Organic Electroluminescent Materials (Fac. of systems Engineering, Wakayama Univ.) ARATAKE, Yuji; OOSUGA, Hideji; SAKAMOTO, Hidefumi
- 1J3-34** Synthesis of  $sp^2$ -N Bidentate Ligand Naph-diPIM (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) VATMURGE, Namdev; NITA, Yukari; SHUTO, Yoshihiro; YOSHIMURA, Masahiro; MIYATA, Kengo; KITAMURA, Masato
- 1J3-35** A mechanistic study on 1,7-hydrogen transfer of aryl radical (Yamaguchi Univ.) KOTAKE, Tomoko; KAMIMURA, Akio
- 1J3-36** Synthesis of 1,3-benzoxathiin-4-ones having alkyl groups on the C-2 positions (National Inst. Adv. Ind. Sci & Tec ; Tokyo univ. of Sci.) SHIMIZU, Masao; YOSHIDA, Tetsuya; ANDO, Wataru; KONAKAHARA, Takeo
- 1J3-37** Reaction of 2-alkoxy-1,3-benzoxathiin-4-ones with nucleophiles (National Inst. Adv. Ind. Sci & Tec ; Tokyo univ. of Sci.) SHIMIZU, Masao; YOSHIDA, Tetsuya; ANDO, Wataru; KONAKAHARA, Takeo

Chair: SHIMADA, Kazuaki (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(1J3-39, 1J3-40, 1J3-41, 1J3-42, 1J3-43, 1J3-44)
- 1J3-39** Monofluoromethylation of Indoles using FBSM (Nagoya Institute of Technology, Graduate School of Engineering) MATSUZAKI, Kohei; FURUKAWA, Tatsuya; TOKUNAGA, Etsuko; SHIBATA, Norio
- 1J3-40** Facile Synthesis of Dihydrobenzoheteroles Bearing a Difluoromethyl Group (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SANADA, Shohei; FUJITA, Takeshi; ICHIKAWA, Junji
- 1J3-41** Synthesis of Quinazolinones via Tandem Reaction of Carbodiimides Having an Ester Group with Organometallic Reagents (Tokyo University of Science) NAKANO, Hayato; KUTSUMURA, Noriki; SAITO, Takao
- 1J3-42** Stereoselective synthesis of 3-alkenylquinoline derivatives via the Rh-catalyzed cycloisomerization reaction of (2-alkynylaryl)carbodiimides (Grad. School of Chem. and Tech., Tokyo Univ. of Science) YAMAGUCHI, Hitoshi; ONISHI, Misato; SEINO, Takafumi; KUTSUMURA, Noriki; SAITO, Takao
- 1J3-43** Three-component Coupling Using Arynes and DMF: Straightforward Access to Coumarins via *ortho*-Quinone Methides (Graduate School of Engineering, Hiroshima Univ.) YOSHIDA, Hiroto; ITO, Yu; TAKAKI, Ken
- 1J3-44** TFOH or Lewis Acid-Promoted Regioselective Cyclization of 2-Alkynylaniline Derivatives (Grad. School of Chem. and Tech., Tokyo Univ. of Science) ARAKI, Rino; KUTSUMURA, Noriki; SAITO, Takao

Chair: FUKUDA, Tsutomu (16 : 30~17 : 30)

- \* 16:20-16:30: interval for laptop PC connection.(1J3-46, 1J3-47, 1J3-48, 1J3-49, 1J3-50, 1J3-51)
- 1J3-46** Construction of Dibenzofuran Derivatives by Palladium-Catalyzed Oxidative Tandem Cyclization (Kumamoto Univ.; Kyushu Univ.) IRIE, Ryo; FURUSAWA, Masaki; URAKAWA, Suguru; IMAHORI, Tatsushi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 1J3-47** Synthesis of carbazole by the intramolecular coupling of diphenylamine using supported palladium catalyst (Kyushu Univ.) TSUNODA, Ryousuke; AKITA, Tomoki; ISHIDA, Tamao; HAMASAKI, Akiyuki; TOKUNAGA, Makoto
- 1J3-48** Palladium-catalyzed Cross-coupling Reaction of Aminoazulenes with Haloazazulenes (Tokyo Univ. of Science, Faculty of Science and Technology) OKADA, Yuuya; GUNJI, Takahiro; ABE, Noritaka
- 1J3-49** Development of the Pd(II)-catalyzed cyclization and its application to the synthetic studies of indole skeleton (Toyama Univ.) YOKOYAMA, Hajime; KUBO, Takayoshi; MIYAZAWA, Masahiro; HIRAI, Yoshiro
- 1J3-50** Synthesis of dihydrobenzophenanthridinones and dihydroquinazolines via tandem reactions using functionalized carbodiimides as key intermediates (Department of Chemistry, Faculty of Science; Tokyo Univ. of Science) KASE, Takayuki; NAKANO, Hayato; KUTSUMURA, Noriki; SAITOU, Takao
- 1J3-51** Synthesis of nitrogen-containing heterocycles via Lewis acid-promoted intramolecular hetero Diels-Alder reaction of unsaturation-bearing carbodiimides (Grad. School of Chem. and Tech., Tokyo Univ. of Science) TAKASE, Masahiro; KATO, Hidekazu; KUTSUMURA, Noriki; SAITOU, Takao

Chair: SAKAI, Norio (17 : 40~18 : 30)

- \* 17:30-17:40: interval for laptop PC connection.(1J3-53, 1J3-54, 1J3-55, 1J3-56, 1J3-57)
- 1J3-53** Synthesis and Cyclization of 3-Cyano-2-(heteroaryl-amino)-1-azaazulene Derivatives (Tokyo Univ. of Science, Faculty of Science and Technology) YAMAGUCHI, Mizuki; ITO, Yoshino; GUNJI, Takahiro; ABE, Noritaka; IKEDA, Reiko; KONAKAHARA, Takeo
- 1J3-54** Synthesis and Cyclization of 3-Cyano-2-(2-nitroaryl-amino)-1-azaazulene Derivatives (Tokyo Univ. of Science, Faculty of Science and Technology) YAMAGUCHI, Mizuki; ITO, Yoshino; GUNJI, Takahiro; ABE, Noritaka; IKEDA, Reiko; KONAKAHARA, Takeo

- 1J3-55** Synthesis and Cyclization of Ethyl 2-Acetylamino-3-ethynylazulene-1-carboxylate (Tokyo Univ. of Science, Faculty of Science and Technology) HYODOU, Marie; NAKAGAWA, Hajime; ITOU, Yoshino; IKEDA, Reiko; KONAKAHARA, Takeo; GUNJI, Takahiro; ABE, Noritaka
- 1J3-56** A Short-Step Construction of 2-Quinolone Alkaloid Skeleton via Generation and Ring Closure of Propadienethione Intermediates (Faculty of Engineering, Iwate Univ.) SHIMADA, Kazuaki; IZUMI, Hironori; OGAWA, Satoshi
- 1J3-57** Development of Synthesis of Pyrano[3,4-b]pyrrol-7(1H)-one Scaffold by Using Sonogashira Cross-coupling Reaction (Graduate School of Engineering, Nagasaki Univ.; Graduate School of Science and Technology, Nagasaki Univ.) FUKUDA, Tsutomu; KOMURE, Minoru; IWAO, Masatomo

### Monday, March 26, AM

Chair: NISHINO, Hiroshi (9 : 50 ~ 10 : 50)

- \* 9:40-9:50: interval for laptop PC connection.(2J3-06, 2J3-07, 2J3-08, 2J3-10)
- 2J3-06** Ring Opening of *N*-Sulfonyl Aziridines with *N*-Chloro-*N*-sodiocarbamates (Graduate School of Engineering, Osaka Univ.) MURAKAMI, Yuta; IKEDA, Yuki; TAKEDA, Youhei; MINAKATA, Satoshi
- 2J3-07** Incorporation of Carbon Dioxide into  $\alpha$ -(methyltosylamino)acetophenones Driven by Sunlight (Graduate School of Engineering, Kyoto Univ.) SHIMAMOTO, Yasuhiro; ISHIDA, Naoki; MURAKAMI, Masahiro
- 2J3-08\*** Regio- and Diastereoselective Trifluoromethylation of Aromatic Isoxazoles (Nagoya Institute of Technology, Graduated School of Engineering) KAWAI, Hiroyuki; TOKUNAGA, Etsuko; SHIBATA, Norio
- 2J3-10\*** Generation and Cycloaddition of a Carbamoylnitride Oxide (Kochi Univ. of Technology) NISHIWAKI, Nagatoshi; KOBIRO, Kazuya; HIRAO, Shotaro; SAWAYAMA, Jun; SAIGO, Kazuhiko

Chair: NISHIWAKI, Nagatoshi (11 : 00 ~ 12 : 00)

- \* 10:50-11:00: interval for laptop PC connection.(2J3-13, 2J3-14, 2J3-15, 2J3-16, 2J3-17, 2J3-18)
- 2J3-13** A facile one-pot synthesis of imidazolium salts using amino acids as starting materials (Ehime Univ.; Organic Reaction Lab.) WATANABE, Yutaka; MIYOSHI, Narumi; HAYASHI, Minoru
- 2J3-14** Novel polypyrrole derivatives obtained from DDQ oxidation of dipyrromethanes (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) SHIN, Jiyoung; SHINOKUBO, Hiroshi
- 2J3-15** Photochemical Reactions of 1,3-Diphenyltetrazolium-5-chalcogenolates (Graduate School of Engineering, Nagoya Institute of Technology) YAMASHITA, Yukinobu; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 2J3-16** Synthesis of Metal Complexes of mesoionic 5,5'-azinobis(1,3-diphenyltetrazole) (Graduate School of Engineering, Nagoya Institute of Technology) TAKEDA, Takuya; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 2J3-17** Lewis Acid-catalyzed Convenient Synthesis of 3-Hydroxyphthalates (Osaka Prefecture Univ.) SHINOHARA, Hiroyuki; SONODA, Motohiro; ATOBE, Shingo; MASUNO, Haruna; OGAWA, Akiya
- 2J3-18** Triphenylphosphine-mediated Reaction of Dialkyl Azodicarboxylate with Activated Alkenes Leading to Pyrazolines (Nara Univ. of Education) YAMAZAKI, Shoko; MAENAKA, Yuta; FUJINAMI, Ken

### Monday, March 26, PM

Chair: HIRASHITA, Tsunehisa (13 : 30 ~ 14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2J3-28, 2J3-29, 2J3-30, 2J3-31, 2J3-32, 2J3-33)
- 2J3-28** Atmospheric CO<sub>2</sub> Fixation by Unsaturated Amines Using *tert*-Butyl Hypoiodite (Graduate School of Engineering, Osaka Univ.) MINAKATA, Satoshi; TONE, Saori; TAKEDA, Youhei
- 2J3-29** Efficient and improved synthesis of triazole-linked DNA oligomers (Tohoku Univ.) HASOME, Ai; FUJINO, Tomoko; YAMAZAKI, Naomi; ENDO, Kenta; ISOBE, Hiroyuki
- 2J3-30** Synthesis of Multi Cyclic Isoxazolidines and Transformations to 2-Isoxazolines by Fragmentation (Institute of Technology and Science, The Univ. of Tokushima) IMAI, Takuma; NISHIUCHI, Masaki; TAKAHASHI, Yuki; UMEMOTO, Nao; KAWAMURA, Yasuhiko
- 2J3-31** Regioselective Synthesis of Polysubstituted Pyrroles (Graduate School of Engineering, Nagasaki Univ.) KOMATSUBARA, Masashi; FUKUDA, Tsutomu; IWAO, Masatomo
- 2J3-32** Substituent Effects on the Physical Properties of Azole Type Ionic Liquids (Oita Univ.) YOSHIIWA, Naoki; KITAOKA, Satoshi; NOBUOKA, Kaoru; ISHIKAWA, Yuichi
- 2J3-33** Regioselective Synthesis of 3-Fluoropyrazoles from 2-Trifluoromethyl-1-alkenes and Its Mechanism (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) TAKAHASHI, Masaki; FUCHIBE, Kohei; ICHIKAWA, Junji

Chair: HOSHINO, Yujiro (14 : 40 ~ 15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2J3-35, 2J3-36, 2J3-37, 2J3-38, 2J3-39, 2J3-40)
- 2J3-35** Acylation of the Pyrrolyl Rings on *N*-Sulfonylpyrroles (National Inst. Adv. Ind. Sci & Tech ; Tokyo Univ. of Science) SHIMIZU, Masao; KATO,

- Daisuke; ANDO, Wataru; KONAKAHARA, Takeo
- 2J3-36** Development of Oxidation Reaction of Pyrrole Compounds toward Synthesis of Sterically Locked Phytochrome Chromophores (Kanazawa Univ., Graduate School of Natural Science and Technology) SAKATA, Ryo; IWAMOTO, Ryoji; CHEN, Liji; UKAJI, Yutaka; INOMATA, Katsuhiko
- 2J3-37** Synthesis of Sterically Fixed Phytochrome Chromophores Anchored to meso-Position by Regioselective Oxidation at meso-Position. (Kanazawa Univ., Graduate School of Natural Science and Technology) TANAKA, Yudai; IWAMOTO, Ryoji; UKAJI, Yutaka; INOMATA, Katsuhiko
- 2J3-38** Synthesis of Cyclophane-Type Macrocyclic Cage Compounds Containing Dihydrofurans (Kumamoto Univ.; Grad. School Sci. & Tec.) NISHINO, Hiroshi
- 2J3-39** A novel heterocyclic synthesis using highly efficient S<sub>H</sub>2 radical substitution reaction (Yamaguchi Univ.) MIYAZAKI, Koichiro; NAGANO, Tatsutoshi; ISHIKAWA, Shingo; KAMIMURA, Akio
- 2J3-40** Chalcogenation-Cyclization of 1,4-Dicarbonyl Compounds by Using Elemental Chalcogens, Hydrochlorosilanes and Amines (Department of Chemistry, Faculty of Engineering, Gifu Univ.) KONDO, Hideaki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

Chair: SAITO, Ryota (15 : 50 ~ 16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2J3-42, 2J3-43, 2J3-44, 2J3-45, 2J3-46, 2J3-47)
- 2J3-42** Selective synthesis of fluorescent a phosphorus ylide-containing 6-membered heterocycle:  $\lambda^5$ -phosphinines (Ehime Univ.) OCHI, Yusuke; WATANABE, Yutaka; HAYASHI, Minoru
- 2J3-43** Novel Synthesis and Properties meso-Substituted Tetrabenzoporphyrins by Suzuki Coupling Reaction (Faculty of Engineering, Utsunomiya Univ.) TEDANI, Yoshihiko; OBA, Toru; ITO, Satoshi
- 2J3-44** Synthesis of macrocyclic compound with thiophene-bridged-bipyrrole scaffold (Saitama Univ., Graduate School of Science and Engineering) SHIMOYAMA, Naoyuki; ISHIMARU, Yoshihiro
- 2J3-45** Introduction of BODIPY moieties to pyrrole-fused-porphyrin (Saitama Univ., Graduate School of Science and Engineering) KOBAYASHI, Yuuta; ISHIMARU, Yoshihiro
- 2J3-46** Synthesis of porphyrin arrays for solving 3-vertex-colourability problem (Graduate School of Science, Osaka Univ.) YAMANA, Ayuko; TANAKA, Daisuke; TANAKA, Hirofumi; OGAWA, Takuji
- 2J3-47** Development of reactions for sequential synthesis of porphyrin arrays (Graduate School of Science, Osaka Univ.) TAMAKI, Takashi; NOSAKA, Takenori; TANAKA, Daisuke; TANAKA, Hirofumi; OGAWA, Takuji

### Tuesday, March 27, AM

Chair: SAITO, Shinichi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3J3-01, 3J3-02, 3J3-03, 3J3-04, 3J3-05, 3J3-06)
- 3J3-01** Thermally-induced skeletal rearrangement of (*Z*)-*O*-propargylic  $\alpha$ ,  $\beta$ -unsaturated oximes to multisubstituted pyridine oxides (Graduate School of Science, Tohoku Univ.) ZHANG, Dong; NAKAMURA, Itaru; TERADA, Masahiro
- 3J3-02** Construction of Dihydropyrimidine Skeleton Using 1,2,4-Trisubstituted-1,3-Diaza-1,3-Butadienes. (Graduate School of Pharmaceutical Sciences, Tohoku Univ.) CHO, Hidetsura; NISHIMURA, Yoshio; YASUI, Yoshizumi; KOBAYASHI, Satoshi; YAMAGUCHI, Masahiko
- 3J3-03** Development of a novel synthetic route to Ir complex with trifluoromethylated ligands (Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) HATTORI, Keita; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 3J3-04** The novel route to access trifluoromethylated pyridinones (Tokyo Univ. of Agriculture and Technology) KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 3J3-05** Lewis Acid Catalyzed C-H Bond Functionalization of Azaarenes (Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo) KOMAI, Hiroto; YOSHINO, Tatuhiro; MATSUNAGA, Shigeki; KANAI, Motomu
- 3J3-06** Synthesis of 3,5-dicyano- or 3,5-dinitro-1,4-dihydropyridines and their fluorescence properties (Waseda Univ.) ZAITSU, Yuto; TAKEI, Ryo; ABE, Junya; SUEKI, Shunsuke; SHIMIZU, Isao

Chair: TERADA, Masahiro (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3J3-08, 3J3-09, 3J3-10, 3J3-11, 3J3-12, 3J3-13)
- 3J3-08** A new conversion of polyamides to omega-hydroxycarboxylate (Yamaguchi Univ.; Ube Industries) KATO, Kazunari; KAISO, Kouji; MATSUMOTO, Hiroshi; YOSHIMOTO, Makoto; KAMIMURA, Akio
- 3J3-09** [5 + 1] Cycloaddition of C,N-Cyclic N'-Acyl Azomethine Imines with Isocyanides (Kanazawa Univ., Graduate School of Natural Science and Technology) SOETA, Takahiro; TAMURA, Kaname; UKAJI, Yutaka
- 3J3-10** Synthesis of Various Types of Heterocycles by Cyclization and Isomerization of *N*-(Propargylic)hydroxylamines (Kanazawa Univ., Graduate School of Natural Science and Technology) WADA, Norihiro; MIYAMOTO, Yoshiaki; SOETA, Takahiro; UKAJI, Yutaka; INOMATA, Katsuhiko
- 3J3-11** Novel Synthesis of Piperidine via Amphiphilic Allylation of 2,3-

- Bismethylenbutane-1,4-diol Derivatives (Nagasaki Univ., Faculty of Engineering) SANADA, Shouhei; ONODERA, Gen; KIMURA, Masanari
- 3J3-12** Synthesis of Lactone and Lactam via Umpolung of  $\pi$ -Allylpalladium (Nagasaki Univ., Faculty of Engineering) TANAKA, Shota; ONODERA, Gen; KIMURA, Masanari
- 3J3-13** Synthesis of Pyrroloindole Alkaloids by Electrophilic Allylation of Tryptamine (Nagasaki Univ.) KURODA, Azusa; KUWAHARA, Hikari; ONODERA, Gen; KIMURA, Masanari

Chair: KANOMATA, Nobuhiro (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3J3-15, 3J3-16, 3J3-17, 3J3-18, 3J3-19, 3J3-20)
- 3J3-15** A Synthesis of FMS Kinase Inhibitor via TfOH-Promoted Tandem Addition-Cyclization-Coupling Reaction of 2-Ethynyl-4-Cyanophenyl Isocyanate (Tokyo University of Science) NAKANO, Hayato; TAKAHASHI, Taku; KUTSUMURA, Noriki; SAITO, Takao
- 3J3-16** Total Synthesis of Lukianols A, B and Evaluation of Their Biological Activities (Graduate School of Engineering, Nagasaki Univ.; School of Engineering, Nagasaki Univ.) TAKAMURA, Kaoru; MATSUO, Hisami; TANAKA, Ayana; FUKUDA, Tsutomu; IWAO, Masatomo
- 3J3-17** Total Synthesis of Porritoxin (Doshisha Univ.) KAKIZOE, Hirohito; TSUJIMURA, Yu; OE, Yohei; OHTA, Tetsuo
- 3J3-18** Synthetic Study of Thienodolin via Thiocarbonyl-Involved Intramolecular Pauson-Khand type Reaction of (2-Alkynylphenyl) Isothiocyanates (Grad. School of Chem. and Tech., Tokyo Univ. of Science) WADA, Harumi; KUTSUMURA, Noriki; SAITOU, Takao
- 3J3-19** Synthetic Studies of Haplacontine B (Grad. School of Chem. and Tech., Tokyo Univ. of Science) MOSAKI, Shihou; KUTSUMURA, Noriki; SAITO, Takao
- 3J3-20** Diastereo- and enantioselective synthesis of  $\beta$ -trifluoromethyl-pyrroline carboxylates (Nagoya Institute of Technology, Graduate School of Engineering) SUGITA, Yutaka; KAWAI, Hiroyuki; TOKUNAGA, Etsuko; SHIBATA, Norio

## Tuesday, March 27, PM

Chair: SUGA, Hiroyuki (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3J3-28, 3J3-29, 3J3-30, 3J3-31, 3J3-32, 3J3-33)
- 3J3-28** Construction of Eight-Membered Nitrogen Heterocycles Using Ring Expansion Reaction of N-Aryl-2-vinylazetidines (Faculty of Science, Tokyo Univ. of Science) SHIMIZU, Tomoaki; KOYA, Syunsuke; YAMASAKI, Ryu; SAITO, Shinichi
- 3J3-29** Synthetic Studies of a Novel  $\gamma$ -Lactone Derivative Isolated from the Peels of *Citrus sudachi* (Faculty of Engineering, Shizuoka Univ.) SENGOKU, Tetsuya; MURATA, Yusuke; TAKAHASHI, Masaki; YODA, Hidemi
- 3J3-30** First Total Synthesis of Epicoccarine A, a Novel Tetramic Acid Antibiotic. (Faculty of Engineering, Shizuoka Univ.) SENGOKU, Tetsuya; NAKAYAMA, Ken; UJIHARA, Yasuaki; TAKAHASHI, Masaki; YODA, Hidemi
- 3J3-31** Novel synthesis of carbocyclic oxetanocin analogs (2-alkoxy-C.OXT. A) and their tube formation activities of human umbilical endothelial cells (HUVEC) (Faculty of Pharmaceutical Sciences at Kagawa Campus, Tokushima Bunri Univ.) SAKAKIBARA, Norikazu
- 3J3-32** Studies on racemization processes of an azaspiro analogue via its skeleton rearrangement. (Waseda Univ.) SAKAI, Shinnosuke; KANOMATA, Nobuhiro
- 3J3-33** Catalytic Asymmetric Total Synthesis of Chimonanthine (Graduate School of Pharmaceutical Sciences The Univ. of Tokyo) MITSUNUMA, Harunobu; MATSUNAGA, Shigeki; SHIBASAKI, Masakatsu; KANAI, Motomu
- Chair: KOJIMA, Satoshi (14 : 40~15 : 40)
- \* 14:30-14:40: interval for laptop PC connection.(3J3-35, 3J3-37, 3J3-38, 3J3-39, 3J3-40)
- 3J3-35\*** An Enantioselective Intramolecular Rauht-Currier Reaction using Organocatalyst (ISIR, Osaka Univ.) WIN, Tsue; GUROSSUMAN, ANDORE; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 3J3-37** Formation of cyclopropanes from optically active nitro compounds induced by silver oxide and iodine (Yamaguchi Univ.) MORIYAMA, Takaaki; KAMIMURA, Akio
- 3J3-38** Design and Synthesis of Chiral Picolinic Acid-type Ligand (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) MATSUSHITA, Masaharu; IYODA, Yoko; SEKI, Tomoaki; TANAKA, Shinji; KITAMURA, Masato
- 3J3-39** Desymmetrization of *meso*-Dihydroxy Bisallylic Alcohols Catalyzed by a Chiral CpRu Complex (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) AOYAMA, Satoru; KASAI, Tatsuya; TANAKA, Shinji; KITAMURA, Masato
- 3J3-40** Synthesis of Optically Active 1,2,3-Triazole Derivatives and Their Applications to Asymmetric Catalysis (ISIR, Osaka Univ.) YOSHIDA, Yasushi; TAKIZAWA, Shinobu; SASAI, Hiroaki

Chair: TAKAHASHI, Masaki (15 : 50~16 : 30)

- \* 15:40-15:50: interval for laptop PC connection.(3J3-42, 3J3-43, 3J3-44, 3J3-45)
- 3J3-42** Studies on the construction of an asymmetric carbon bearing a 2-furanyl group. (Hiroshima Univ.) KATORI, Aki; SASHIHARA, Yoshiaki; KOJIMA, Satoshi; YAMAMOTO, Yohsuke
- 3J3-43** Organocatalytic Asymmetric Cyclopropanation of Dicyanoalkene Derivatives with Planar-chiral Pyridine. (Waseda Univ.) FUJIYASU, Yosuke; KANOMATA, Nobuhiro
- 3J3-44** Synthesis and Asymmetric benzylation of Planar-Chiral Phase-Transfer Catalysts Having Various Substituents (Waseda Univ.) OGAWA, Narihito; IMADA, Megumi; KANOMATA, Nobuhiro
- 3J3-45** Synthesis of Novel Pyridinophane Bidentate Ligands and their Applications to Asymmetric Catalysis (Waseda Univ.) YASUDA, Satoko; OGAWA, Narihito; KANOMATA, Nobuhiro

## Room K1

12th Bldg. 12-101

## Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry

Sunday, March 25, AM

Chair: ATOBE, Mahito (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(1K1-07, 1K1-08, 1K1-09, 1K1-10, 1K1-11, 1K1-12)
- 1K1-07** Electrochemical Properties of Novel Planar Triarylamine Derivative and Its Application to Reductive Mediator (Tokyo Institute of Technology) KAIHATSU, Noriyuki; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 1K1-08** Direct and Indirect Electrochemical Fluorination of Benzodioxinone Derivatives (Tokyo Institute of Technology) MOROZUMI, Shunya; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 1K1-09** Synthesis of dendrimers equipped with triarylamine structures. (Graduate School of Engineering, Kyoto Univ.) MUSYA, Naoki; NOKAMI, Toshiki; YOSHIDA, Jun-ichi
- 1K1-10** Electron Transfer Mediated Oxidative Cross-Coupling of Arenes (Graduate School of Engineering, Kyoto Univ.) MOROFUJI, Tatsuya; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi
- 1K1-11** Preparation of thermoresponsive polyacrylamides-grafted electrodes (Kinki Univ.) SAZANAMI, Daisuke; HIOKI, Tomoya; ISHIFUNE, Manabu
- 1K1-12** Copper (II) reagent promoted oxidative ring-opening reaction of bicyclic cyclopropanol derivatives (Niigata Univ., Graduate School of Science and Technology, Faculty of Science) TATEYAMA, Minami; HASEGAWA, Eietsu

Chair: INAGI, Shinsuke (11 : 10~12 : 10)

- \* 11:00-11:10: intervals for laptop PC connection.(1K1-14, 1K1-15, 1K1-16, 1K1-17, 1K1-18, 1K1-19)
- 1K1-14** Preparation of W/O Nanoemulsion by Using Tandem Acoustic Emulsification and Its Application to Phase-transfer Catalytic Reaction (Tokyo Tech; Yokohama National Univ.) ATOBE, Mahito; YANAGI, Hiroyuki; NAKABAYASHI, Koji; FUCHIGAMI, Toshio
- 1K1-15** Studies on Electroreductive Dehalogenation of Aryl Halides Adsorbed on Activated Carbon Supporting Nickel Catalyst (Graduate School of Natural Science and Technology, Okayama Univ.) KOKUI, Yuta; KUROBOSHI, Manabu; TANAKA, Hideo
- 1K1-16** Synthesis of 4-Chloroazetidines by Oxidative Desulfurization-Chlorination of 4-Dithioazetidone (Graduate School of Natural Science and Technology, Okayama Univ.) SATOU, Shun; SHIBASAKI, Kota; KUROBOSHI, Manabu; TANAKA, Hideo
- 1K1-17** Cross-coupling reaction of benzoic acid esters and ethyl trifluoroacetate by Mg-promoted reduction (Nagaoka Univ. of Tech.) KIHARA, Shin
- 1K1-18** Development of Redox Switchable Organocatalysts (Graduate School of Natural Science and Technology, Okayama Univ.) TAKASUKA, Yuki; ONISHI, Yuki; OKAMURA, Yuuya; MITSUDO, Koichi; SUGA, Seiji
- 1K1-19** Synthesis of Bis(diaryl)butadiynes Using Sequential Coupling Reactions Based on the Electrochemical Reaction Site Switching (Graduate School of Natural Science and Technology, Okayama Univ.) KAMIMOTO, Natsuyo; MITSUDO, Koichi; SUGA, Seiji

Sunday, March 25, PM

Chair: SUGA, Seiji (13 : 40~14 : 40)

- \* 13:30-13:40: interval for laptop PC connection.(1K1-29, 1K1-30, 1K1-31, 1K1-33)
- 1K1-29** Electroreductive synthesis of the polysilanes having highly functionalized side chain (Kinki Univ.) YONEYAMA, Soichiro; YAMASHITA, Kyohei; ISHIFUNE, Manabu
- 1K1-30** Functionalization of the end groups of the electrochemically synthe-

sized polysilanes and their utilization as macroinitiators (Kinki Univ.) MORI, Syuji; AKIYAMA, Kenzo; ISHIFUNE, Manabu

- 1K1-31\*** Electrocatalytic Reduction Using Diaryl-o-carborane Mediator Bearing Functional Group (Fuchigami laboratory, Tokyo Institute of Technology) HOSOI, Kohei; KUBO, Tatsuya; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 1K1-33\*** Preparation of transparent nano-emulsion using tandem acoustic emulsification and its application to template electrochemical polymerization (Tokyo Tech; Yokohama National Univ.) NAKABAYASHI, Koji; FUCHIGAMI, Toshio; ATOBE, Mahito

Chair: ISHIFUNE, Manabu (14 : 50~15 : 50)

- \* 14:40-14:50: interval for laptop PC connection.(1K1-36, 1K1-37, 1K1-38, 1K1-39)
- 1K1-36** Electro-Click Reaction of Conducting Polymer by Using Bipolar Electrode (Tokyo Institute of Technology) SHIDA, Naoki; ISHIGURO, Yutaka; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 1K1-37** Anodic oxidation and cathodic reduction of a poly(flourenol) derivative (Tokyo Institute of Technology) NAGAI, Hiroyuki; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 1K1-38** Regioselective Electrochemical Carboxylation of Polyfluoroarenes (Graduate School of Chem. Sci. and Eng., Hokkaido Univ.; Faculty of Eng., Hokkaido Univ.) YONEDA, Kenji; SENBOKU, Hisanori; HARA, Shoji
- 1K1-39** Young Scholar Lectures of CSJ Electrochemical Integration of Organic Reactions for Sophisticated Synthesis of Organic Materials (Grad. Sch. Eng., Kyoto Univ.) NOKAMI, Toshiki

## Monday, March 26, AM

Chair: NOKAMI, Toshiki (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(2K1-07, 2K1-08, 2K1-09, 2K1-10, 2K1-11, 2K1-12)
- 2K1-07** Unique Cyclization of Bis(dithienylethynyl)thiophene Derivatives Triggered by Photoinduced Electron-transfer (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) YAMAMOTO, Atsushi; OGAKI, Takuya; IKEDA, Hiroshi; MIZUNO, Kazuhiko
- 2K1-08** one-pot synthesis including electrochemical oxidation of sulfide to sulfoxide: preparation of gamma-hydroxy-alpha,beta-unsaturated ester (Okayama Univ. of Sci.; Faculty of Engineering) MIZUTANI, Yusuke; DU, Zhenjun; INOKUCHI, Tsutomu; NOKAMI, Junzo
- 2K1-09** Catalytic Asymmetric Oxidation for Synthesis of alpha-Substituted Serine (Nagasaki Univ.) TANIGAWA, Satoko; KURIYAMA, Masami; ONOMURA, Osamu
- 2K1-10** Synthesis and Properties of Nitrogen-bridged Trithiophenes (Graduate School of Natural Science and Technology, Okayama Univ.) SHIMOHARA, Shuichi; MITSUDO, Koichi; SUGA, Seiji
- 2K1-11** Synthesis and Physical Properties of Nitrogen-Bridged Dithienopyrrole Derivatives (Graduate School of Natural Science and Technology, Okayama Univ.) MIZOGUCHI, Jun; MITSUDO, Koichi; SUGA, Seiji
- 2K1-12** Synthesis of Tetraarenes Using Sequential Coupling Reactions Based on the Electrochemical Reaction Site Switching (Graduate School of Natural Science and Technology, Okayama Univ.) MURAKAMI, Hiroki; MITSUDO, Koichi; SUGA, Seiji

Chair: SENBOKU, Hisanori (11 : 10~12 : 10)

- \* 11:00-11:10: interval for laptop PC connection.(2K1-14, 2K1-15, 2K1-16, 2K1-17, 2K1-18, 2K1-19)
- 2K1-14** Integrated Oxidative Hydroxylation Reactions Based on Anodically Generated Alkoxyulfonium Ions (Graduate School of Engineering, Kyoto Univ.) ASHIKARI, Yosuke; NOKAMI, Toshiki; YOSHIDA, Junichi
- 2K1-15** Electrochemical synthesis of dendrimers having pyrene as a core structure. (Graduate School of Engineering, Kyoto Univ.) TAKEDA, Keiji; NOKAMI, Toshiki; YOSHIDA, Junichi
- 2K1-16** Electrochemical properties of cyclic vicinal-diketones (Kyoto Univ.) MATSUO, Takahiro; SHIMIZU, Akihiro; NOKAMI, Toshiki; YOSHIDA, Jun-ichi
- 2K1-17** Me<sub>3</sub>SiCl-promoted electroreduction of sulfoxide to sulfide. (Graduate School of Natural Science and Technology, Okayama Univ.) KOBAYASHI, Kazuma; KUROBOSHI, Manabu; TANAKA, Hideo
- 2K1-18** Electroreductive Radical Cyclization of Alkenyl Halides Mediated by Fluorene Derivatives (Graduate School of Natural Science and Technology, Okayama Univ.) IKEDA, Sosuke; KUROBOSHI, Manabu; TANAKA, Hideo
- 2K1-19** Viologen-mediated electroreductive C-C bond formation reaction: Synthesis of biaryls via reductive homo-coupling of aryl halides (Graduate School of Natural Science and Technology, Okayama Univ.) SHIBA, Takuya; KONDO, Takao; KUROBOSHI, Manabu; TANAKA, Hideo

## Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

### Monday, March 26, PM

Chair: KIRIHARA, Masayuki (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2K1-28, 2K1-29, 2K1-31,

2K1-32, 2K1-33)

- 2K1-28** Development of Efficient Synthetic Method for Functional Dyes based on One-Pot Multi-component Coupling Reaction (Department of Chemical Engineering, Faculty of Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; ASAI, Yuya; SUGIYAMA, Sakae; TAKAHASHI, Takashi
- 2K1-29\*** An Efficient Synthesis of Organic Dyes for Dye-Sensitized Solar Cells via One-Pot Palladium-Catalyzed Coupling Reactions (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) SUGIYAMA, Sakae; FUSE, Shinichiro; TANAKA, Keita; MAITANI, Masato; WADA, Yuji; TASAKU, Yuumi; OGOMI, Yuhei; HAYASE, Shuzi; TAKAHASHI, Takashi
- 2K1-31** The Sequential addition reactions of aryl Grignard reagents and electrophiles to thioformesters (Department of Chemistry, Faculty of Engineering, Gifu Univ.) MORIKAWA, Kenta; OHASHI, Takaaki; MURAI, Toshiaki
- 2K1-32** Synthesis of Oligomers of Benzophenone Derivatives by Time Integration of Reactions in Ionic Liquid (Mie Univ.) KATO, Seiji; YAMAMOTO, Hiroyuki; OKAZAKI, Takao; KITAGAWA, Toshikazu
- 2K1-33** Non-thermal Effect in Esterification upon Microwave Irradiation (Ehime Univ.) KOSHIMA, Hideko; TAKIMOTO, Masaya; NAKAMURA, Jun

Chair: OKAZAKI, Takao (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2K1-35, 2K1-36, 2K1-37, 2K1-38, 2K1-39, 2K1-40)
- 2K1-35** Development of efficient synthetic methodology for 1,3-dicarbonyl compound library via sequential four-component coupling reaction based on acylketene scaffold. (Department of Applied Chemistry, Graduate school of Science and Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; YOSHIDA, Hayato; TAKAHASHI, Takashi
- 2K1-36** Synthetic Study of Near-Infrared Light Absorbing Dye Library Based on Sequential Suzuki-Miyaura Coupling Approach (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; TAGO, Hiroaki; TANAKA, Keita; MAITANI, Masato; WADA, Yuji; JOHMO, Kohei; UEKUSA, Hidehiro; TAKAHASHI, Takashi
- 2K1-37** A self-assembled poly(imidazole-palladium) catalyst for coupling reactions (RIKEN) YAMADA, Yoichi; SARKAR, Shaheen; UOZUMI, Yasuhiro
- 2K1-38\*** A self-assembled poly(imidazole-copper) catalyst for Huisgen cycloaddition (RIKEN) SARKAR, Shaheen; YAMADA, Yoichi; UOZUMI, Yasuhiro
- 2K1-39** Ozonolysis of Terminal Olefins with High Purity Ozone in Liquid Carbon Dioxide (Utsunomiya Univ.) HANEISHI, Tatsuya
- 2K1-40** Synthesis of Thiosulfonates by Oxidation of Disulfides with NCS Using Micromixing (Shizuoka Inst. Sci. & Tech.) ISHIZUKA, Yuki; NOGUCHI, Takuya; SUZUKI, Satoshi; KIRIHARA, Masayuki

Chair: FUSE, Shinichiro (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2K1-42, 2K1-43, 2K1-44, 2K1-45, 2K1-46, 2K1-47)
- 2K1-42** Practical Flow Microreactor Synthesis of Diarylethenes (Kyoto Univ.; YAMADA CHEMICAL CO., LTD.) ASAI, Tatsuro; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 2K1-43** Electrophilic Fluorination of Organolithium Compounds Using Flow Microreactors (Kyoto Univ.) UESUGI, Yuki; NAGAKI, Aiichiro; KIM, Heejin; YOSHIDA, Jun-ichi
- 2K1-44** Comparison of Stability of Perfluoroalkyllithiums using Flow Microreactor Systems (Kyoto Univ.) TOKUOKA, Shinya; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 2K1-45** Photo-Induced Radical Cyclization Reaction using Flow Microreactor (Graduate School of Science, Osaka Prefecture Univ.) FUJITA, Yuki; FUKUYAMA, Takahide; RYU, Ilhyong
- 2K1-46** Diastereoselective Photoreaction in Flow Reactor with On-line Analysis (Nara Institute of Science and Technology) TERAOKA, Kimitada; NISHIYAMA, Yasuhiro; MATSUOKA, Hitoshi; MORIMOTO, Tsumoru; TOKUDA, Takashi; NODA, Toshihiko; SASAGAWA, Kiyotaka; OHTA, Jun; KAKIUCHI, Kiyomi
- 2K1-47** Microflow Photochemistry: Application and Comparison of Microreactors in Photo Addition Reactions (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) AIDA, Shin; NISHIYAMA, Yasuhiro; TERAOKA, Kimitada; KAKIUCHI, Kiyomi; OELGEMOELLER, Michael

## Tuesday, March 27, PM

Chair: NAGAKI, Aiichiro (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3K1-28, 3K1-30, 3K1-31, 3K1-32)
- 3K1-28\*** Synthesis and reaction mechanism of pyromellitic diimide-based macrocycles by combination of flow and batch reactions. (IMCE, Kyushu Univ., Grad. School Sciences, Kyushu Univ.) TAO, Keisuke; GOTO, Kenta; SHINMYOZU, Teruo
- 3K1-30** Continuous-flow Synthesis of Vitamin D3 and Its Analogues (Department of Applied Chemistry, Graduate School of Science and

Engineering, Tokyo Institute of Technology.) FUSE, Shinichiro; MIFUNE, Yuto; TANABE, Nobutake; TAKAHASHI, Takashi

**3K1-31** Continuous in-situ generation and reaction of phosgene using a microreactor (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; TANABE, Nobutake; TAKAHASHI, Takashi

**3K1-32\*** Development of Method for the Efficient Synthesis of [18F] Labeled PET Probes by Using a Precursor and Activator Composite Polymer (3) (Tokyo Institute of Technology) TAKEUCHI, Ryota; TANAKA, Hiroshi; TOMITA, Ikuyoshi; NAKAMURA, Yukihiko; SUZUKI, Yuji; TAKADA, Tsutomu; TAKAHASHI, Takashi

Chair: GOTO, Kenta (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3K1-35, 3K1-36, 3K1-37, 3K1-38, 3K1-39, 3K1-40)

**3K1-35** Development of Membranous Polymeric Palladium Nanoparticle Composite-Installed Microflow Reactors and Their Application to the Hydrodehalogenation (RIKEN) OHNO, Aya; WATANABE, Toshihiro; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro

**3K1-36** Development of a Polymeric Membranous Acid Catalyst-Installed Microreactor (RIKEN) MINAKAWA, Maki; YAMADA, Yoichi; UOZUMI, Yasuhiro

**3K1-37** Fabrication of wall-modified fused silica capillary with palladium complex and its application as microreactor (Graduated School of Environment Studies Tohoku Univ.) SHOJI, Shinya; TAKAHASHI, Toru; SUZUKI, Toshihide; HOSHINO, Hitoshi

**3K1-38** Space Integration of Three Consecutive Lithiations followed by Reaction with an Electrophile Starting from 1,3,5-Tribromobenzene (Kyoto Univ.) NAGAKI, Aiichiro; IMAI, Keita; KIM, Heejin; YOSHIDA, Jun-ichi

**3K1-39** One-Flow Synthesis of Unsymmetrically Substituted Biaryls by Space Integration of Reactions Using Flow Microreactors (Kyoto Univ.) MORIWAKI, Yuya; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

**3K1-40** Anionic Polymerization of Alkyl Acrylate Using Flow Microreactor Systems and Its Applications to Synthesis (Kyoto Univ.; Graduate School of Engineering) TAKAHASHI, Yusuke; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

Chair: YAMADA, Yoichi M. A. (15 : 50~16 : 40)

\* 15:40-15:50: interval for laptop PC connection.(3K1-42, 3K1-43, 3K1-44, 3K1-45, 3K1-46)

**3K1-42** Preparation and Reaction of Organocopper reagent by Flow Reaction (Kyoto Univ.) KATAYAMA, Haruo; TAKADA, Yoshiaki; MATSUBARA, Seijiro

**3K1-43** Heterogeneous Sonogashira Coupling Reaction in a Continuous Microflow System using Microwave Heating (Osaka Prefecture Univ.) YAMASHITA, Hiroyuki; MATSUZAWA, Mitsuhiro; SATO, Masaaki

**3K1-44** Synthesis of Unsymmetrical Alkyne via Deprotonation of 1,2-Dichloroethene Using an Integrated Flow Microreactor System (Kyoto Univ.) KIM, Songhee; MATSUO, Chika; SAITO, Koudai; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

**3K1-45** Halogen-Lithium Exchange Reaction of Vinyl Bromides Using Flow Microreactor System (Kyoto Univ.; Graduate School of Engineering) TAKAHASHI, Yusuke; YAMADA, Shigeyuki; MATSUO, Chika; HARA, Suguru; MORIWAKI, Yuya; KIM, Songhee; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

**3K1-46** Space Integration of Lithiation and Murahashi Coupling with Vinyl Halides Using a Flow Microreactor System (Kyoto Univ.) HARA, Suguru; TAKABAYASHI, Naofumi; MORIWAKI, Yuya; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

## Room K2

12th Bldg. 12-102

### Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

Sunday, March 25, PM

Chair: SHIRATORI, Hideo (13 : 10~14 : 00)

\* 13:00-13:10: interval for laptop PC connection.(1K2-26, 1K2-27, 1K2-28, 1K2-29, 1K2-30)

**1K2-26** Intramolecular [2+2] Photocycloaddition Reaction of 2-substituted Chromone carboxylic Acid Derivatives (Chiba Univ.) SAKAMOTO, Masami; YOSHIDA, Wataru; MINO, Takashi; FUJITA, Tsutomu

**1K2-27** Novel Intramolecular Photocyclization of  $\alpha$ -Arylthiophene Derivatives (Faculty of Eng., Hokkaido Univ.) ARAI, Noriyoshi; TANAKA, Koichiro; OHKUMA, Takeshi

**1K2-28** Photochemical Reactions of Diaza[3.3]paracyclophanes (Okayama Univ.; Kyushu Univ.) OKAMOTO, Hideki; OKABAYASHI, Zenji; UEHARA, Hiroyuki; ITOH, Satoshi; SHINMYOZU, Teruo; SATAKE, Kyosuke

**1K2-29** Photocycloaddition of Cyanonaphthalene Derivatives with Methyl Phenylpropionate (Kanazawa Univ.) KUNIMATSU, Yuki; MAEDA, Hajime; SEGI, Masahito

**1K2-30** One-step Synthesis of Benzotriquinane Compounds via Intramolecular Photocycloaddition of Cyanonaphthalene-arylalkyne Dyads (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) NAGAYAMA, Yoshinori; ENYA, Kouhei; NEGORO, Naoki; MIZUNO, Kazuhiko; IKEDA, Hiroshi

Chair: SAKAMOTO, Masami (14 : 10~15 : 00)

\* 14:00-14:10: interval for laptop PC connection.(1K2-32, 1K2-33, 1K2-34, 1K2-35)

**1K2-32** Photophysical Properties of 2-Naphthamides and [3+2]-Photocycloadditions of the Amides with Alkenes (Faculty of Science and Engineering, Shimane Univ.) KUROKI, Kenshiro; SHIRATORI, Hideo; KUBO, Yasuo

**1K2-33** Effect of Electron-Withdrawing Groups Introduced into Methyl Group of *N*-Methyl-1,8-naphthalimide on Reaction Behavior of Photoadducts with Dimethylthymine (Faculty of Science and Engineering, Shimane Univ.) HIU, Takashi; SHIRATORI, Hideo; KUBO, Yasuo

**1K2-34** Photophysical Properties of Aromatic Lactones and [3+2]-Photocycloadditions of the Lactones with Alkenes (Faculty of Science and Engineering, Shimane Univ.) USUDA, Ryuusuke; SHIRATORI, Hideo; KUBO, Yasuo

**1K2-35\*** Effects of Diflunisal as a Binding Inhibitor on Bio-supramolecular Photocyclodimerization of 2-Anthracenecarboxylate Mediated by Human Serum Albumin (UIC & Dept. Appl. Chem., Osaka Univ.) KATO, Hanako; NISHIJIMA, Masaki; MORI, Tadashi; INOUE, Yoshihisa

Chair: MAEDA, Hajime (15 : 10~16 : 00)

\* 15:00-15:10: interval for laptop PC connection.(1K2-38, 1K2-39, 1K2-40, 1K2-41, 1K2-42)

**1K2-38** Diastereodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Tethered to Glucose Scaffold (Graduated School of Engineering and CASI, Osaka Univ.) IIDA, Kazuhiro; FUKUHARA, Gaku; NISHIJIMA, Masaki; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa

**1K2-39** Supramolecular Photocyclodimerization of 2-Anthracenecarboxylate Mediated by Molecularly Imprinted Poly(Lysine) (Grad. School of Eng. & UIC, Osaka Univ.) TANAKA, Hidekazu; NISHIJIMA, Masaki; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; DZWOLAK, Wojciech; INOUE, Yoshihisa

**1K2-40** Control of Axial Chirality of Quinolonamides by the Formation of Chiral Salts and Invention of Chiral Memory (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; TAKAGISHI, Naoya; YAGISHITA, Fumitoshi; MINO, Takashi; FUJITA, Tsutomu

**1K2-41** Control of Alignment of LC molecules Using Photoisomerization of  $\beta$ -Aroylacrylic Acid Derivatives (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; SUNAOSHI, Kazushi; MINO, Takashi; FUJITA, Tsutomu; YASUDA, Hiroyuki; NAGAO, Takashi; NISHIKAWA, Michinori

**1K2-42** Supramolecular Photoreactions of Quinone Derivatives with an Olefin (Graduate School of Science, Kobe Univ.) YAMAMOTO, Hiroaki; TSUDA, Akihiko

Chair: OKAMOTO, Hideki (16 : 10~17 : 00)

\* 16:00-16:10: interval for laptop PC connection.(1K2-44, 1K2-45, 1K2-46, 1K2-47, 1K2-48)

**1K2-44** Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Mediated by  $\beta$ -Cyclodextrin Dimers (Graduate School of Engineering, Osaka Univ.) MATSUSHITA, Ryohei; YANG, Cheng; NISHIJIMA, Masaki; FUKUHARA, Gaku; MORI, Tadashi; INOUE, Yoshihisa

**1K2-45\*** Enantiodifferentiating Photoisomerization of Cyclooctene and 1,3-Cyclooctadiene Included and Sensitized by Cyclodextrin Nanospines (Graduate School of Engineering, Osaka Univ.) LIANG, Wenting; YANG, Cheng; FUKUHARA, Gaku; MORI, Tadashi; INOUE, Yoshihisa

**1K2-46** Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Mediated by  $\gamma$ -Cyclomannin (Graduate School of Engineering, Osaka Univ.) YAMAUCHI, Masahito; YANG, Cheng; FUKUHARA, Gaku; NISHIJIMA, Masaki; MORI, Tadashi; INOUE, Yoshihisa

**1K2-47** Effect of amino acid residue on photochemical decarboxylation of tripeptide (Univ. of Fukui) MAEDA, Kousuke; YOSHIMI, Yasuharu; NISHIKAWA, Keisuke; HATANAKA, Minoru; ITOU, Tatsuya; OKADA, Yutaka

**1K2-48** Photochemical decarboxylation of carboxylic acids using 1,4-dicyanonaphthalene (Univ. of Fukui) HAYASHI, Shota; YOSHIMI, Yasuharu; NISHIKAWA, Keisuke; HATANAKA, Minoru; ITOU, Tatsuya; OKADA, Yutaka

Chair: YOSHIMI, Yasuharu (17 : 10~18 : 10)

\* 17:00-17:10: interval for laptop PC connection.(1K2-50, 1K2-51, 1K2-52, 1K2-53, 1K2-54)

**1K2-50** Visible light induced oxygenation system in water by metalloporphyrins (Center for Priority Area, Tokyo Metropolitan Univ., SORST (JST)) ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE,

Haruo

- 1K2-51** Photochemical Reduction of CO<sub>2</sub> by Zinc Porphyrin-Rhenium Dyad (Department of Applied Chemistry, Graduate School of Urban Environmental Science, Tokyo Metropolitan Univ.) NAKATANI, Shogo; KOU, Youki; SUNAGAWA, Gen; NABETANI, Yu; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; INOUE, Haruo
- 1K2-52** Photoreduction of quinones sensitized by Phthalocyanines (Grad. Univ. Adv. Studies; Inst. Mol. Sci.) YUSA, Masaaki; NAGATA, Toshi
- 1K2-53** Oxidative dechlorination of chlorinated organic compounds catalyzed by vitamin B12-TiO<sub>2</sub> hybrid catalyst (Kyushu Univ.) SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 1K2-54\*** Photocatalytic Alkoxylation of Benzene with 3-Cyano-1-methylquinolinium (Osaka Univ.; ALCA, JST) OHKUBO, Kei; KOBAYASHI, Takaki; FUKUZUMI, Shunichi

## Monday, March 26, AM

Chair: MOMOTAKE, Atsuya (9:20~10:00)

- \* 9:10-9:20: interval for laptop PC connection.(2K2-03, 2K2-04, 2K2-05, 2K2-06)
- 2K2-03** Substituent effects on selectivity of hydrogen transfer in photocyclization of benzoylacetylides (Dept. Chem., Tokyo Gakugei Univ.) KIUCHI, Manami; ITO, Yasushi; KAMIO, Satoshi; YAMADA, Michio; MAEDA, Yutaka; HASEGAWA, Tadashi
- 2K2-04** Photoreactions of 1-benzoylacetylperadines and relative compounds (Dept. Chem., Tokyo Gakugei Univ.) UEDA, Ryohei; NAKAMURA, Kei; ARAKI, Kana; KAMIO, Satoshi; ITO, Yasushi; YAMADA, Michio; MAEDA, Yutaka; HASEGAWA, Tadashi
- 2K2-05** Synthesis of 2-Aminochromenes Based on Photogenerated o-Quinone Methides (Univ. of Hiroshima ; Graduate School of Engineering) FUJIWARA, Makoto; SAKAMOTO, Masanori; KOMEYAMA, Kimihiro; YOSHIDA, Hiroto; TAKAKI, Ken
- 2K2-06** Synthesis and Photolysis of Polydiazo Compounds Consisting of a Dimesityldiazomethane Derivative by Using Sonogashira Coupling Reaction (Graduate School of Engineering, Mie Univ.; Community-Univ. Research Cooperation Center, Mie Univ.) SATO, Shinya; SHINTAKU, Masaya; HIRAI, Katsuyuki; KITAGAWA, Toshikazu
- Chair: TSUDA, Akihiko (10:10~11:00)
- \* 10:00-10:10: interval for laptop PC connection.(2K2-08, 2K2-09, 2K2-10, 2K2-11, 2K2-12)
- 2K2-08** Synthesis and Photoreaction of 2-azabicyclo[3.2.1]oct-3-ene Derivatives (The Univ. of Shiga Prefecture) ZAKOUJI, Tomoyuki; KOJIMA, Masaaki; TSUKISATO, Chikara; KUMAGAI, Tsutomu
- 2K2-09** Photoreactions of 2-Benzyloxycarbonyl-2-azabicyclo[3.2.1]octa-3,6-diene (The Univ. of Shiga Prefecture) KOJIMA, Masaaki; TSUKISATO, Chikara; KUMAGAI, Tsutomu
- 2K2-10** Synthesis and photochemical property of triethynylmethane derivative. (ISIR, Osaka Univ.) MATSUMOTO, Saki; OTABE, Takahiro; NAKAGAWA, Hiroki; NAKATANI, Kazuhiko
- 2K2-11** Synthesis and photoreactivity of coumarin derivatives with diluted conjugated system as a novel photolabile protecting group (Hiroshima Univ.; JST-CREST) SAKAMOTO, Yuuya; ITOH, Syuhei; ABE, Manabu
- 2K2-12** Synthesis and photochemical behavior of new caged compounds having nitro benzyl skeleton (Univ. of Tsukuba) TAKAHASHI, Youhei; MOMOTAKE, Atsuya; ARAI, Tatsuo

Chair: HIRAI, Katsuyuki (11:10~11:50)

- \* 11:00-11:10: interval for laptop PC connection.(2K2-14, 2K2-16, 2K2-17)
- 2K2-14\*** Photo-recycling Reactions of Halomethanes(1): Synthesis of Urea Derivatives from Chloroform and Primary Amines (Graduate School of Science, Kobe Univ.) KUWAHARA, Yuki; TSUDA, Akihiko
- 2K2-16** Photo-recycling Reactions of Halomethanes(2): Synthesis of Carbamate Derivatives from Chloroform and Phenol Derivatives (Graduate School of Science, Kobe Univ.) KUWAHARA, Yuki; TSUDA, Akihiko
- 2K2-17** Photo-recycling Reactions of Halomethanes(3): Photo-generation of Br<sub>2</sub> from Brominated Methanes and Its Applications to Practical Bromination Reactions (Graduate School of Science, Kobe Univ.) KAWAKAMI, Kazumitsu; TSUDA, Akihiko

## Monday, March 26, PM

Chair: IKEDA, Hiroshi (13:20~14:20)

- \* 13:10-13:20: interval for laptop PC connection.(2K2-27, 2K2-29, 2K2-31)
- 2K2-27\*** Synthesis of New Thiochromone-type Photolabile Protecting Group and Application to Various Acids (Nara Institute of Science and Technology) ZHANG, Youlai; SUGIURA, Ryo; HIROSHIMA, Minoru; TANIMOTO, Hiroki; NISHIYAMA, Yasuhiro; MORIMOTO, Tsumoru; KAKIUCHI, Kiyomi
- 2K2-29\*** Syntheses and optical properties of  $\pi$ -extended heteroleptic bis(dipyrrinato)Zn complexes (The Univ. of Tokyo) KUSAKA, Shinpei; SAKAMOTO, Ryota; NISHIHARA, Hiroshi
- 2K2-31\*** Synthesis of the cationic phthalocyanine derivative and the photochemical energy transfer reaction on inorganic nanosheets (Tokyo Metropolitan Univ., DC1/JSPS, PRESTO/JST) ISHIDA, Yohei; MASUI,

Dai; SHIMADA, Tetsuya; INOUE, Haruo; TAKAGI, Shinsuke

Chair: KAWAI, Kiyohiko (14:30~15:20)

- \* 14:20-14:30: interval for laptop PC connection.(2K2-34, 2K2-35, 2K2-36, 2K2-37, 2K2-38)
- 2K2-34** Formation of Exciplex by Charge-transfer Interaction of Electron Donor-Acceptor Dyad in Solution and in the Crystalline State (Seika Corporation; Sch. of Eng., Osaka Pref. Univ.; Grad. Sch. of Eng., Osaka Pref. Univ.; Wakayama Seika Kogyo Co., Ltd.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) IMOTO, Mitsutaka; KOBAYASHI, Hitoshi; MATSUI, Yasunori; TAMAKI, Akihiro; TAKEDA, Motonori; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 2K2-35** Photophysical properties of blue-emitting rotaxane-type fluorophores stable upon UV-irradiation (Univ. of Toyama; Graduate School of Pharmaceutical Sciences) ITOU, Tatsuya; SHIBATA, Mari; FUJIMOTO, Kazuhisa; INOUE, Masahiko
- 2K2-36** Synthesis of naphthacenequinone dendrimers and characterization of their photochromic properties (Oita Univ.) KAWANO, Naohiro; UESHIMA, Tomomi; BABA, Hisanori; TANIGUCHI, Hirokazu; MORIYAMA, Masaya
- 2K2-37** Photochemical behaviors of m-substituted amphiphilic stilbene Dendrimers (Univ. of Tsukuba) MARUYAMA, Takashi; ARAI, Tatsuo
- 2K2-38** Study on photochemical properties of newly developed azobenzene dyes and application of these dyes to imaging of cell-membrane. (Univ. of Tsukuba) FUKUSHIMA, Syun; MOMOTAKE, Atsuya; ARAI, Tatsuo

Chair: ITOU, Tatsuya (15:30~16:20)

- \* 15:20-15:30: interval for laptop PC connection.(2K2-40, 2K2-41, 2K2-42, 2K2-43, 2K2-44)
- 2K2-40** Synthesis and Chemiluminescent Decomposition of Optically Active Dioxetanes Bearing an Aryl Group with High Helicity (Kanagawa Univ. Dept. of Chemistry) KAWASHIMA, Hidehisa; WATANABE, Nobuko; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 2K2-41** Design of New ICT-Type Fused-ring Fluorescent Dyes Based on Cypridine Bioluminescence Emitter (UEC Tokyo) NAKAGAWA, Tatsuki; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 2K2-42** Modulation of the chemiluminescence property of 2,6-diphenylimidazopyrazinones by substituent introduction (Univ. of Electro-Communications) ISHII, Yuki; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 2K2-43** White Light Emission of Diaroylmethanateboron Difluoride Derivatives (Sch. of Eng., Osaka Pref. Univ.; Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) TANAKA, Mirai; SAKAI, Atsushi; YOSHIMOTO, Yuichi; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 2K2-44** Solvent Effect on Lifetime of Colored form of Dinitrobenzylpyridine Derivatives (Kanazawa Univ.) FUKUYOSHI, Shuichi; TOKUMURA, Kunihiko; NAKAGAKI, Ryoichi

Chair: HIRANO, Takashi (16:30~17:30)

- \* 16:20-16:30: interval for laptop PC connection.(2K2-46, 2K2-47, 2K2-48, 2K2-49, 2K2-50, 2K2-51)
- 2K2-46** HOMO energy gap dependence of charge-transfer kinetics in DNA (ISIR, Osaka Univ.) KAWAI, Kiyohiko; HAYASHI, Mitsuo; MAJIMA, Tetsuro
- 2K2-47** Spectroscopic studies of the transient species involved in the interaction between anthracene-urea derivatives and anions. (Univ. of Tsukuba) MASAI, Haruki; NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 2K2-48** Photoisomerization and photoinduced hydrogen atom transfer in 2-(2'-hydroxyphenyl)benzimidazole derivatives. (Univ. of Tsukuba) INATSU, Yuji; ARAI, Tatsuo
- 2K2-49** Reactions of oxygen radicals generated from hemiacetals (Kobe Univ.) SAEKI, Yuuta; MATSUBARA, Ryosuke
- 2K2-50** Synthesis of a Coupling Molecule of Indoline Dye with Viologen and its Photovoltaic Response (Dept. Appl. Chem., Waseda Univ.) HORIE, Yutaro; FURUTA, Takefumi; NAKAJIMA, Satoshi; OYAZU, Kenichi; NISHIDE, Hiroyuki
- 2K2-51** Construction of p/n semiconductor conjugated electron relay center toward artificial photosynthesis (Department of Applied Chemistry, Graduate School of Urban Environmental Science, Tokyo Metropolitan Univ.; Center for Priority Area, Tokyo Metropolitan Univ.) KOU, Youki; GOTO, Yu; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo

## Physical Organic Chemistry -Structures and Properties-

## Tuesday, March 27, AM

Chair: YAGAI, Shiki (9:00~9:50)

- \* 8:50-9:00: interval for laptop PC connection.(3K2-01, 3K2-02, 3K2-03, 3K2-04, 3K2-05)
- 3K2-01** Correlation between Structural Change and Intrachain Charge Mobility of Insulated Molecular Wire Having a Poly(phenylene ethynylene) Unit (Faculty of Engineering, Kyoto Univ.) MATONO, Akitoshi; TERAO, Jun; FUJIHARA, Tetsuaki; TSUJI, Yasushi

- 3K2-02** Synthesis of Insulated Molecular Wires with Porphyrin and Its Physical Properties (Graduate School of Engineering, Kyoto Univ.) KONOSHIMA, Yohei; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi
- 3K2-03** Illusory molecular expression of "Penrose stairs" by an aromatic hydrocarbon and dynamic behaviors in solution (Tohoku Univ.) MATSUNO, Taisuke; NAKANISHI, Waka; ICHIKAWA, Junji; ISOBE, Hiroyuki
- 3K2-04** Synthesis and Properties of Coordination Polymer using Insulated Bridging Ligand (Graduate School of Engineering, Kyoto Univ.) MASAI, Hiroshi; TERA0, Jun; FUJIHARA, Tetsuaki; TSUJI, Yasushi
- 3K2-05** Syntheses of insulated phenylene-vinylene derivatives and their physical properties (Graduate School of Engineering, Kyoto Univ.) IMOTO, Rika; TERA0, Jun; FUJIHARA, Tetsuaki; TSUJI, Yasushi

Chair: TERA0, Jun (10:00~10:50)

- \* 9:50-10:00: interval for laptop PC connection.(3K2-07, 3K2-08, 3K2-09, 3K2-10)
- 3K2-07** Self-assembly of diketopyrrolopyrroles possessing hydrogen bonding moieties (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; KANDA, Ryo; KARATSU, Takashi; KITAMURA, Akihide
- 3K2-08** Synthesis of bis(2,2'-bibenzimidazole) connected between two nitrogen atoms (Tokyo Univ. of Science) TANAKA, Kazuo; SATAKE, Akiharu
- 3K2-09** Formation of Planar Charged Species as Potential Building Subunits of Ion Materials (Institute of Science and Engineering, Ritsumeikan Univ.) MAEDA, Hiromitsu; KOBAYASHI, Makoto
- 3K2-10\*** Formation of Novel Dynamic Covalent Polymers Based on Zwitterionic Monomers (Institute of Science and Engineering, Ritsumeikan Univ.) KOMATSU, Harunobu; MAEDA, Hiromitsu

Chair: WAKAMIYA, Atsushi (11:00~12:00)

- \* 10:50-11:00: interval for laptop PC connection.(3K2-13, 3K2-15, 3K2-17)
- 3K2-13\*** Selective Synthesis and Investigation of Properties of Functionalized Dibenzo[g,p]chrysenes (Univ. of Tokyo) UEDA, Yasuyuki; TSUJI, Hayato; NAKAMURA, Eiichi
- 3K2-15\*** Synthesis and Characterization of Naphthodichalcogenophenes for Organic semiconductors (Graduated School of Engineering, Hiroshima Univ.) NAKANO, Masahiro; MORI, Hiroki; SHINAMURA, Shoji; TAKIMIYA, Kazuo
- 3K2-17\*** Selective Functionalization of Naphthodithiophenes 1 - Functionalization at Naphthalene moiety Using Direct Borylation- (Graduate School of Engineering, Hiroshima Univ.) SHINAMURA, Shoji; SUGIMOTO, Ryusuke; MIYAZAKI, Eigo; OSAKA, Itaru; TAKIMIYA, Kazuo

## Tuesday, March 27, PM

Chair: TSUJI, Hayato (13:10~14:00)

- \* 13:00-13:10: interval for laptop PC connection.(3K2-26, 3K2-27, 3K2-28, 3K2-29, 3K2-30)
- 3K2-26** Selective functionalization and application of naphthodithiophenes 2-two NDT-based polymers with different main chain structures- (Graduate School of Engineering, Hiroshima Univ.) SUGIMOTO, Ryusuke; SHINAMURA, Shoji; MIYAZAKI, Eigo; OSAKA, Itaru; TAKIMIYA, Kazuo
- 3K2-27** Synthesis of insulated molecular wires and their molecular wiring oriented for molecular electronics (Graduate School of Engineering, Kyoto Univ.) HOMMA, Kyohei; TERA0, Jun; FUJIHARA, Tetsuaki; TSUJI, Yasushi
- 3K2-28** Development of Organic Dyes with Intramolecular B-N Coordination Bond (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO; Research Center for Advanced Science and Technology, The Univ. of Tokyo) TANIGUCHI, Takuhiro; WAKAMIYA, Atsushi; MURATA, Yasujiro; DY, Joanne Ting; SEGAWA, Hiroshi
- 3K2-29** Synthesis and Properties of Boryl-substituted Dithienylbenzo thiadiazole Derivatives (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO) YOSHIKAWA, Osamu; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 3K2-30** Solid-state Properties of Triphenylamine Derivatives with Quasi-planar Structure (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO) NISHIMURA, Hidetaka; WAKAMIYA, Atsushi; MURATA, Yasujiro; FUKUSHIMA, Tatsuya; KAJI, Hironori

Chair: NAKANO, Koji (14:10~15:10)

- \* 14:00-14:10: interval for laptop PC connection.(3K2-32, 3K2-33, 3K2-34, 3K2-35, 3K2-36, 3K2-37)
- 3K2-32** The Synthesis and Properties of Binaphthofuran (Hiroshima Univ.) NIIMI, Kazuki; MORI, Hiroki; OSAKA, Itaru; MIYAZAKI, Eigo; TAKIMIYA, Kazuo
- 3K2-33** Synthesis and Properties of  $\pi$ -Conjugated Macrocycle Based on 2,7-Diborylanthracene as a Building Block (Shizuoka Univ.) OZAWA, Ryota; KOBAYASHI, Kenji
- 3K2-34** Synthesis and Properties of Extended  $\pi$ -Conjugated Acenes Based on Regioselective Diborylacenes as Building Blocks Directed to Semiconductors for OFETs (Shizuoka Univ.; National Institute for Materials Science; Bruker axs) TAKAKI, Yuta; WAKAYAMA, Yutaka; YOZA, Kenji; KOBAYASHI, Kenji

- 3K2-35** Synthesis and Properties of Bis(methylthio)anthracene Derivatives Directed to Semiconductors for OFETs (Shizuoka Univ.; National Institute of Materials Science; Bruker axs) UMEDA, Yuri; WAKAYAMA, Yutaka; YOZA, Kenji; KOBAYASHI, Kenji
- 3K2-36** High performance OFETs based on Diphenylchrysene derivatives (Tokai Univ. Ushio Chemix Co.) SAITO, Makoto; OTSUKI, Hiroyuki; OKAMOTO, Kazuo; KUNUGI, Yoshihito
- 3K2-37** FET Characteristics of Diketopyrrolopyrrole Derivatives with a Hydrogen-Bonding Network (Tokyo Institute of Technology Interdisciplinary Grad. School of Sci. and Eng.) SUNA, Yuki; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro

Chair: MIYAZAKI, Eigo (15:20~16:20)

- \* 15:10-15:20: interval for laptop PC connection.(3K2-39, 3K2-40, 3K2-41, 3K2-42, 3K2-43, 3K2-44)
- 3K2-39** Organic Semiconductor Characteristics of Dinaphtho[2,3-b:2',3'-e][1,4]dioxin (The Univ. of Tokyo) NAKANO, Koji; JUNG, Jin; NOZAKI, Kyoko
- 3K2-40** Photo and electrochemical properties of donor-acceptor imide compounds containing indolocarbazole moieties. (Advanced Science Institute, RIKEN) IWASAWA, Yuta; KAWAMOTO, Masuki; AKIMOTO, Masaji; NAGASE, Yu; AIDA, Takzo
- 3K2-41** Synthesis and Properties of Oligomeric 1,3-Dithiole[5]radialenes (Grad. Sch. Sci., Eng., Ehime Univ.) UEDA, Masafumi; SHIRAHATA, Takashi; MISAKI, Yohji
- 3K2-42** Redox behavior of 1,3-dithiole[n]dendralene derivatives in which furan is inserted (Grad. Sch. Sci., Eng., Ehime Univ.) WATANABE, Miho; SHIRAHATA, Takashi; MISAKI, Yohji
- 3K2-43** Synthesis and Properties of New Macrocyclic Compounds annelated with BDT-TTPs (Grad. Sch. Sci., Eng., Ehime Univ.) KIMURA, Haruka; SHIRAHATA, Takashi; MISAKI, Yohji
- 3K2-44** Efficient Synthesis of Unsymmetrical Tetrathiafulvalene Using a Silyl Protecting Group (Graduate School of Science, Kyoto Univ.) UENO, Ryota; FUJINO, Daishi; YORIMITSU, Hideki; OSUKA, Atsuhiko

Chair: NISHIDA, Jun-Ichi (16:30~17:30)

- \* 16:20-16:30: interval for laptop PC connection.(3K2-46, 3K2-47, 3K2-48, 3K2-49, 3K2-50, 3K2-51)
- 3K2-46** Synthesis and properties of new cyclic TTF oligomers (Grad. Sch. Sci., Eng., Ehime Univ.) MURAOKA, Shun-ya; OKADA, Yuki; NAKAMURA, Ken-ichi; SHIRAHATA, Takashi; MISAKI, Yohji
- 3K2-47** Synthesis and properties of new macrocyclic TTF inserting thiophene rings (Grad. Sch. Sci., Eng., Ehime Univ.) NAKAMURA, Kenichi; SHIRAHATA, Takashi; MISAKI, Yohji
- 3K2-48** Synthesis, Properties, and Electronic Functions of Thiophene-based  $\pi$ -Electron Systems Containing Dicyanomethylene Groups (ISIR, Osaka Univ.) JINNAI, Seihou; IE, Yutaka; ASO, Yoshio
- 3K2-49** Synthesis and properties of thiazole-fused porphyrazine (Graduate School of Engineering, Hiroshima Univ.) IOGAWA, Ryosuke; MIYAZAKI, Eigo; OSAKA, Itaru; TAKIMIYA, Kazuo
- 3K2-50** Regioisomeric effect on the self-aggregation of hydrogen-bonding oligo(hexylthiophene)s (Grad. Sch. Eng., Chiba Univ.; AIST) YAGAI, Shiki; GUSHIKEN, Marina; KARASTU, Takashi; KITAMURA, Akihide; KIKKAWA, Yoshihiro
- 3K2-51** Separation of self-assembled nanorings and nanorods via narcissistic self-sorting (Grad. Sch. Eng., Chiba Univ. Univ.; AIST) YAGAI, Shiki; GOTO, Yusaku; KARATSU, Takashi; KITAMURA, Akihide; KIKKAWA, Yoshihiro

Chair: MISAKI, Yohji (17:40~18:30)

- \* 17:30-17:40: interval for laptop PC connection.(3K2-53, 3K2-54, 3K2-55, 3K2-56, 3K2-57)
- 3K2-53** Properties of Planar COT Derivatives Annelated with Thiophene Units (Tokyo Metropolitan Univ.; Tokai Univ.) AITA, Kazunari; OHMAE, Takeshi; TAKASE, Masayoshi; NOMURA, Kotohiro; NISHINAGA, Tohru; ARAI, Tatsuya; KUNUGI, Yoshihito
- 3K2-54** Synthesis and Properties of Hexaazatrinaphthalenes Possessing Donor-Acceptor Boundary (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) FUJIO, Takashi; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko
- 3K2-55<sup>#</sup>** Synthesis and Properties of  $\Pi$ 2dExpanded Macrocyclic Oligothiophene 82d2c 122d2c 162d and 202dmers2e (Tokyo Metropolitan Univ.) HAQUE, Tahmina; SHIMIZU, Hideyuki; NOMURA, Kotohiro; IYODA, Masahiko
- 3K2-56** Structure and Properties of Fullerene Complexes of  $\Pi$ 2dExpanded Macrocyclic Oligothiophene 82dmer. (Tokyo Metropolitan Univ., Kitasato Univ.) SHIMIZU, Hideyuki; HAQUE, Tahmina; HASEGAWA, Masashi; NOMURA, Kotohiro; IYODA, Masahiko
- 3K2-57** Synthesis and Characteristics of Near-Infrared Absorbing Thiophene-Conjugated Boron Dibenzopyrromethene Dyes (Tokyo Metropolitan Univ.; Mitsubishi Chemical Group Science and Technology Research Center) UCHIDA, Aritsune; WATANABE, Kazuki; NISHIYABU, Ryuhei; OTA, Hitoshi; KUBO, Yuji

## Room K3

12th Bldg. 12-103

Organic Chemistry -Reaction and Synthesis-  
Aromatic Compounds

Sunday, March 25, PM

Chair: YOSHIDA, Kazuhiro (12 : 40~13 : 40)

- \* 12:30-12:40: interval for laptop PC connection.(1K3-23, 1K3-24, 1K3-25, 1K3-26, 1K3-27, 1K3-28)
- 1K3-23** Cyclotrimerization of 1-Phenyl-2-propyn-1-one in Pressurized Hot Water in the Absence of Any Added Catalyst -Formation of 1,3,5-Tribenzoylbenzene and Reaction Mechanism- (College of Industrial Technology, Nihon Univ.) IWADO, Tatsuya; SUE, Kiwamu; SATO, Takafumi; SATO, Toshiyuki; OKADA, Masaki; HIAKI, Toshihiko; IWAMURA, Hiizu
- 1K3-24** Study of reaction temperature at Kolbe-Schmitt reaction (Utsunomiya Univ.) SHIROMA, Masaya; YOSHIDA, Masaaki
- 1K3-25** Synthesis of Aromatic Azo Compounds from Anilines Using *tert*-Butyl Hypoiodite (Graduate School of Engineering, Osaka Univ.) MINAKATA, Satoshi; OKUMURA, Sota; TAKEDA, Youhei
- 1K3-26** Sequential triple-click reaction by azido-type selective cycloadditions (Tokyo Med. & Dent. Univ.) KANNO, Kimiyuki; YOSHIDA, Suguru; MATSUSHITA, Takeshi; HOSOYA, Takamitsu
- 1K3-27** Ring selective generation and successive cycloaddition of isobenzofuran into aromatic poly-ketone derivatives. (Department of Chemistry, School of Science and Technology, Kwasei Gakuin Univ.) KAWANISHI, Kazuki; KAKIHARA, Daisuke; HAMURA, Toshiyuki
- 1K3-28** Multiple Cycloadditions of Isobenzofuran Trimer (Department of Chemistry, School of Science and Technology, Kwasei Gakuin Univ.) ASHIDA, Yohei; HAMURA, Toshiyuki

Chair: HAMURA, Toshiyuki (13 : 50~14 : 50)

- \* 13:40-13:50: interval for laptop PC connection.(1K3-30, 1K3-31, 1K3-32, 1K3-33, 1K3-34, 1K3-35)
- 1K3-30** Iron-catalyzed Nazarov cyclization of heterocyclic compounds (Tottori Univ.) OSHITANI, Shunsuke; HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki
- 1K3-31** Synthesis of Indoles Using Ruthenium-Catalyzed Ring-Closing Enyne Metathesis (Graduate School of Science, Chiba Univ.) HAYASHI, Kazushi; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 1K3-32** Palladium(II)-Catalyzed Friedel-Crafts-Type Cyclization of 1,1-Difluoro-1-alkenes: Synthesis of Substituted Phenanthrenes (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) UEDA, Ryu; FUCHIBE, Kohei; ICHIKAWA, Junji
- 1K3-33** PdO/Co<sub>3</sub>O<sub>4</sub> heterogeneous catalyst for formylation of aryl iodides (Kyushu Univ.) YASUTAKE, Yutarou; NORIO, Takafumi; HAMASAKI, Akiyuki; ISHIDA, Tamao; OHASHI, Hironori; YOKOYAMA, Takushi; AKITA, Tomoki; HONMA, Tetsuo; TOKUNAGA, Makoto
- 1K3-34** Development of direct conversion from aromatic nitro compounds to azobenzene derivatives using an indium catalyst (Tokyo Univ. of Science, Fac. of Sci. and Tech.) SAKAI, Norio; ANAI, Satsuki; NABESHIMA, Shinnya; IKEDA, Reiko; KONAKAHARA, Takeo
- 1K3-35** Metal Fluoride-catalyzed Alkylation of Phenolic Hydroxyls (Konan Univ.) MIYAZAWA, Toshifumi; KONO, Tetsuya; OMICHI, Ryoko; DANJO, Hiroshi

Chair: TAKENAKA, Kazuhiro (15 : 00~16 : 00)

- \* 14:50-15:00: interval for laptop PC connection.(1K3-37, 1K3-38, 1K3-39, 1K3-40, 1K3-41, 1K3-42)
- 1K3-37** Asymmetric synthesis of helical quinone derivatives by using optically active diamines (Graduate School of Engineering, Utsunomiya Univ.) SASAKI, Yoshimi; KIMURA, Takao; KARIKOMI, Michinori
- 1K3-38** Selective Synthesis of Silyl-Substituted  $\pi$ -Conjugated Compounds via Reductive Silylation of Anthracene Derivatives (Graduate School of Engineering, Gunma Univ.; Faculty of Engineering, Gunma Univ.) KANNO, Ken-ichiro; ASAMI, Taichi; DAI, Ryunosuke; KYUSHIN, Soichiro
- 1K3-39** Biaryl Synthesis by the Coupling Reaction of Aryl Halides with Aryl Nucleophiles through  $S_{RN}1$  Mechanism (Graduate School of Science, Kyoto Univ.) SHIRAKAWA, Eiji; UCHIYAMA, Nanase; HAYASHI, Tamio
- 1K3-40** Transition Metal-Free Coupling of Aryl Grignard Reagents with Alkenyl Halides (Graduate School of Science, Kyoto Univ.) SHIRAKAWA, Eiji; WATABE, Ryo; HAYASHI, Tamio
- 1K3-41** Facile synthesis of diiodinated dihydronaphthalenes and naphthalenes via iodine mediated electrophilic cyclization (Graduate School of Science, Tohoku Univ.) YANG, Fan; JIN, Tianan; YAMAMOTO, Yoshinori
- 1K3-42** Metal-Free Brønsted Acid-Catalyzed Regiospecific  $\beta$ -Alkylation of Pyrroles with Carbonyl Compounds and Hydrosilanes (School of Science and Technology, Meiji Univ.) TSUCHIMOTO, Teruhisa; NOMIYAMA, Shota

Chair: SHIRAKAWA, Eiji (16 : 10~17 : 10)

- \* 16:00-16:10: interval for laptop PC connection.(1K3-44, 1K3-45, 1K3-46, 1K3-47, 1K3-48, 1K3-49)
- 1K3-44** Efficient Approach to Optically Active Tetrasubstituted Biaryl Skeleton by Chiral Phosphoric Acid-Catalyzed Sequential Asymmetric Bromination (Fac. Sci., Gakushuin Univ.) ICHIKAWA, Yuki; KOBAYASHI, Manato; MORI, Keiji; AKIYAMA, Takahiko
- 1K3-45** Theoretical study on chiral phosphoric acid catalyzed asymmetric bromination of biaryl compounds (Rikkyo Univ.) SHIBATA, Yukihiko; YAMANAKA, Masahiro
- 1K3-46** The Development of BINOLate Organocatalysts with Dual Activation Mechanism and Their Application to Enantioselective Friedel-Crafts Reaction (ISIR, Osaka Univ.) NAGATA, Yoshihiro; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 1K3-47** Development of bifunctional spiro-type organocatalyst for enantioselective aza-MBH reaction (ISIR, Osaka Univ.) IEKI, Kenta; KIRIYAMA, Kimiko; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 1K3-48** Enantioselective Synthesis and Biological Evaluation of the Pharmacophore of Antitumor Antibiotic (-)-FR182877 (Dept. of Chem. and BioChem., Adv. Sch. of Sci. and Engin., Waseda Univ.) KOBAYAKAWA, Yu; OKAJIMA, Hideki; MORI, Yusuke; TERADA, Yasuhiko; NAKADA, Masahisa
- 1K3-49** Acceleration by Microwave Irradiation on the atropo-Enantioselective Ring-opening Reaction of Biaryl Lactones (Keio Univ.) NUSHIRO, Kazuya; TSUBO, Tatsuyuki; KIKUCHI, Satoshi; YAMADA, Tohru

Chair: KANNO, Ken-ichiro (17 : 20~18 : 10)

- \* 17:10-17:20: interval for laptop PC connection.(1K3-51, 1K3-52, 1K3-53, 1K3-54, 1K3-55)
- 1K3-51** Synthesis and Properties of (2-Hydroxytropon-5-yl) ethynylantracenes (Graduate School of Environment and Information Sciences, Yokohama National Univ.) NISHIMURA, Hiroshi; TAKASHIMA, Hiroaki; OTANI, Hiroyuki
- 1K3-52** Synthesis and Properties of 1,8-Bis(2-hydroxytropon-5-yl)ethynyl-10-dodecylantracene (Graduate School of Environment and Information Sciences, Yokohama National Univ.) INUI, Chie; ITO, Naoko; OTANI, Hiroyuki
- 1K3-53** Two-Component Gel Formation by Amido-Ethynyl Bidomain Helicene Oligomer (Graduate school of Pharmaceutical Sciences, Tohoku Univ.) ICHINOSE, Wataru; ITO, Jun; SHIGENO, Masanori; YAMAGUCHI, Masahiko
- 1K3-54** Synthesis and Aggregation of Isomeric Amido-Ethynyl-Amido-Tridomain Helicene Oligomers (Graduate school of Pharmaceutical Sciences, Tohoku Univ.) ICHINOSE, Wataru; ITO, Jun; SHIGENO, Masanori; YAMAGUCHI, Masahiko
- 1K3-55** Synthesis and Chiral Recognition of Helicene-Grafted Chiral Silica Nanoparticles (Graduate school of Pharmaceutical Sciences, Tohoku Univ.) ICHINOSE, Wataru; MIYAGAWA, Masamichi; SHIGENO, Masanori; AN, Zengjian; YAMAGUCHI, Masahiko

## Monday, March 26, AM

Chair: OKUJIMA, Tetsuo (9 : 00~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2K3-01, 2K3-02, 2K3-03, 2K3-04, 2K3-05, 2K3-06)
- 2K3-01** Synthesis and Properties of linear  $\pi$ -conjugated molecules composed of benzodithiophene thiophene and pyrrol units (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) KAGEYAMA, Takuya; UNEME, Shunsuke; TAKASE, Masayoshi; NOMURA, Kotohiro; NISHINAGA, Tohru
- 2K3-02** Synthesis and physical properties of [14]triphyrin(2.1.1) analogs (Nara Institute of Science and Technology) SAKAKIBARA, Yuka; KUZUHARA, Daiki; YAMADA, Hiroko
- 2K3-03** Synthesis of Indolizino[3,4,5-ab]isoindoles from o-Dipyrrobenzene (Graduate School of Materials Science, Nara Institute of Science and Technology, CREST) MIYAKE, Satoshi; KUZUHARA, Daiki; YAMADA, Hiroko
- 2K3-04** Developing of synthetic method for highly functionalized benzothiazoles (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) SHIGETA, Masayuki; JI, Sanghoon; WATANABE, Junji
- 2K3-05** Synthesis, Properties and Organic Field Effect Transistor Characteristics of Benzo[2,1-b:3,4-b']dithiophene Derivatives (Fac. of systems Engineering, Wakayama Univ.) YAMASHITA, Yudai; OSUGA, Hideji; KUSHI, Naoki; KUROKAWA, Atsushi; HUKUMURA, Kohei; TANAKA, Ichiro; SAKAMOTO, Hidefumi
- 2K3-06** Photochemical synthesis of alkylated-pentacenes and their structure (Material Science, NAIST) KATSUTA, Shuhei; YAMADA, Hiroko; NAKAYAMA, Ken-ichi; OHASHI, Chika

Chair: YAMADA, Hiroko (10 : 10~11 : 00)

- \* 10:00-10:10: interval for laptop PC connection.(2K3-08, 2K3-09, 2K3-10, 2K3-11, 2K3-12)
- 2K3-08** Effective Synthesis of Diiodinated Picene and Dibenzo[*a,h*]anthracene by AuCl<sub>3</sub>-Catalyzed Double Cyclization (Graduate School of Science and Engineering, Ehime Univ.; Institute of Advanced Energy, Kyoto Univ.)



KITAHATA, Yoshiharu; OHNISHI, Ryuji; NAKAE, Takahiro; SATO, Hisako; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu; SAKAGUCHI, Hiroshi

- 2K3-09** Efficient synthesis of halogenated fused aromatics by intramolecular quadruple cyclization using AuCl catalyst, and properties of their derivatives (Graduate School of Science and Engineering, Ehime Univ.; Institute of Advanced Energy, Kyoto Univ.) OHNISHI, Ryuji; KITAHATA, Yoshiharu; NAKAE, Takahiro; SATO, Hisako; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu; SAKAGUCHI, Hiroshi
- 2K3-10** Two-component Vesicle Formation and Size Control of Pseudoenantiomeric Ethynylhelicene Oligomers (Graduate School of Pharmaceutical Sciences, Tohoku Univ.) SAITO, Nozomi; SHIGENO, Masanori; YAMAGUCHI, Masahiko
- 2K3-11** Synthesis and Aggregation of Optically Active Hexahydrotriazolo [1,2]annulene Containing Helicene (Tohoku Univ.) SAITO, Nozomi; TERAKAWA, Ryo; SHIGENO, Masanori; YAMAGUCHI, Masahiko
- 2K3-12<sup>#</sup>** Synthesis of Substituted Sumanenes through Electrophilic Substitution Reactions (IMS; SOKENDAI) SHRESTHA, Binod Babu; KARANJIT, Sangita; HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro

Chair: SAKURAI, Hidehiro (11:10~12:00)

- \* 11:00-11:10: interval for laptop PC connection.(2K3-14, 2K3-16, 2K3-17, 2K3-18)
- 2K3-14\*** Facile Synthesis of Fullerene Derivatives via FeCl<sub>3</sub> and Their Electrochemical Properties. (Mitsubishi Chemical Corp.; The Univ. of Tokyo) HASHIGUCHI, Masahiko; UENO, Takao; IKEBE, Tomohiko; TAKAHASHI, Isao; MATSUO, Yutaka
- 2K3-16** Synthesis and Helix-dimer formation of Aminomethylhelicene Oligomers (Tohoku Univ.) SHIGENO, Masanori; SATOH, Masahiko; KUSHIDA, Yo; YAMAGUCHI, Masahiko
- 2K3-17** Hetero Aggregation between Pseudoenantiomeric Aminomethylhelicene Oligomers (Tohoku Univ.) SHIGENO, Masanori; KUSHIDA, Yo; SATO, Masahiko; YAMAGUCHI, Masahiko
- 2K3-18** Organogelation of Two-solvent Systems Using Optically Active Amino-hydroxymethylhelicene Derivative (Tohoku Univ.) SHIGENO, Masanori; YAMAGUCHI, Masahiko

## Organic Crystals

Monday, March 26, PM

### Construction of Molecular Assembly Systems

Chair: YAMADA, Shinji (13:00~14:00)

- \* 12:50-13:00: interval for laptop PC connection.(2K3-25, 2K3-27, 2K3-29)
- 2K3-25\*** Control of Handedness and Bundling of Hydrogen Bonded 2-Fold Helical Assemblies (Graduate School of Engineering, Osaka Univ.) SASAKI, Toshiyuki; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 2K3-27\*** Construction and Properties of Highly-Ordered One-Dimensional Supramolecular Assemblies Based on Dehydrobenzoannulene Derivatives (Graduate School of Engineering, Osaka Univ.) SHIGEMITSU, Hajime; HISAKI, Ichiro; KOMETANI, Eriko; YASUMIYA, Daisuke; TOHNAI, Norimitsu; MIYATA, Mikiji
- 2K3-29\*** The self-assembled process of several derivatives with molecular conductors. (Yamagata Univ.) TATEWAKI, Yoko; WATANABE, Takahiro; ITO, Shoya; IMAI, Masato; MITSUYAMA, Shun; OKADA, Shuji

Chair: HAYASHI, Naoto (14:10~15:10)

- \* 14:00-14:10: interval for laptop PC connection.(2K3-32, 2K3-33, 2K3-34, 2K3-36)
- 2K3-32** Reversible structure change by a dehydration-hydration process in 4-nitrostyrylpyridine hydrochloride hydrate crystals (Ochanomizu Univ.) SAKO, Nodoka; YAMADA, Shinji
- 2K3-33** D-A segregated columnar structures in tetracyanoanthraquinodimethane derivatives with biaryl substituents (Interdisciplinary Grad. School of Science and Engineering, Tokyo Institute of Technology) CHIBA, Hiroshi; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 2K3-34\*** Nucleation of Organic Crystals at Nucleation Sites Designed with Molecular Precision (The Univ. of Tokyo; AIST; ESPCI ParisTech) HARANO, Koji; HOMMA, Tatsuya; NIIMI, Yoshiko; KOSHINO, Masanori; SUENAGA, Kazu; LEIBLER, Ludwik; NAKAMURA, Eiichi
- 2K3-36\*** Eximer Emission and Anomalous Anthracene Arrangement in Crystals of Mineral Acid Salts (Graduate School of Engineering, Osaka Univ.) SUGINO, Misa; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji

### Structure and Physical Properties

Chair: TOHNAI, Norimitsu (15:20~16:20)

- \* 15:10-15:20: interval for laptop PC connection.(2K3-39, 2K3-40, 2K3-41, 2K3-43, 2K3-44)
- 2K3-39** Preparation and optical property of chiral supramolecular organic fluorophore composed of *pai*-conjugated carboxylic acid and chiral amine derivatives. (Kinki Univ.; NAIST; Univ. of Tokyo) SHIMOMAKI, Ryutarou; NISHIGUCHI, Noriaki; SATO, Tomohiro; NAKANO, Yoko; TOKUTOME,

Hayato; FUJIKI, Michiya; KURODA, Reiko; MATSUBARA, Yoshio; IMAI, Yoshitane

- 2K3-40** Preparation and polymorphic property of functional naphthoquinone pigment with sulfide bond. (Kinki Univ.; Univ. of Tokyo) INOUE, Takafumi; KINUTA, Takafumi; SATO, Tomohiro; TAJIMA, Nobuo; KURODA, Reiko; IMAI, Yoshitane
- 2K3-41\*** Single-strand polymers in a channel built from tetrapodal adamantanes with N-heterocyclic branches (Tokushima Bunri Univ.) TOMINAGA, Masahide; OHARA, Kazuaki; YAMAGUCHI, Kentaro; AZUMAYA, Isao
- 2K3-43** Preparation of supramolecular organic fluorophore with polymorphic property by using fluorobenzylamine and fluorescent naphthalenecarboxylic acid molecules. (Kinki Univ.; Univ. of Tokyo) KOBAYASHI, Yuhei; SHIOTA, Naoki; KINUTA, Takafumi; SATO, Tomohiro; TOKUTOME, Hayato; KURODA, Reiko; IMAI, Yoshitane
- 2K3-44** Preparation and crystal structure of achiral biphenyl derivatives which have chirality in the solid state (Kinki Univ.; Univ. of Tokyo) AOYAMA, Hiyori; KIMOTO, Takaya; SIOTA, Naoki; KINUTA, Takafumi; SATO, Tomohiro; TOKUTOME, Hayato; KURODA, Reiko; IMAI, Yoshitane

Chair: IMAI, Yoshitane (16:30~17:30)

- \* 16:20-16:30: interval for laptop PC connection.(2K3-46, 2K3-47, 2K3-48, 2K3-49, 2K3-50)
- 2K3-46** Intermolecular interactions in crystal structures of bisazomethine dyes having different substituents on terminal amino groups (Yokohama Natl. Univ.; Musashino Univ.; Kobe Univ.; Kyoto Inst. of Tech.; Chungnam Natl. Univ.; Kyungpook Natl. Univ.) JINDO, Takumi; KIM, Byung-soon; BABAMOTO(HORIGUCHI), Emi; LEE, Kyun-phyo; KINASHI, Kenji; UEDA, Yasukiyo; SON, Young-a; KIM, Sung-hoon; MATSUMOTO, Shinya
- 2K3-47** Color Tuning in Solid State Emission of PEG Vaulted Bis(salicylaldehyde)Platinum Complexes (Graduate School of Engineering Science, Osaka Univ.) FUKUMOTO, Kanako; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 2K3-48** Halogen Substituent Effects on Light Emission of Organoboron Complexes in the Solid State (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) SAKAI, Atsushi; YOSHIMOTO, Yuichi; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 2K3-49** Polymorphic Crystals of 1,5-Bis(aminophenyl)anthracene and Photoelectric Properties (Graduate School of Engineering, Osaka Univ.) ARAKI, Yusuke; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 2K3-50\*** Intra- and Intermolecular Hydrogen Bonds and Thermochromism of Polydiacetylene Crystals (Osaka City Univ.; Osaka Municipal Tech. Res.) MATSUMOTO, Akikazu; NAKAMURA, Junya; TANIOKU, Chiaki; MATSUKAWA, Kimihiro

Tuesday, March 27, AM

### Structure and Physical Properties

Chair: UEKUSA, Hidehiro (9:10~9:50)

- \* 9:00-9:10: interval for laptop PC connection.(3K3-02, 3K3-03, 3K3-04, 3K3-05)
- 3K3-02** Attempts to develop a molecular multiferroic material based on (*m*-fluoroanilinium<sup>+</sup>)(dicyclohexano[18]crown-6) supramolecular rotar and [MnCr(oxalate)]<sub>2</sub> complex (Laboratory of Molecular Electronics, Research Institute for Electronic Science, Hokkaido Univ.) YOSHITAKE, Masashi; KUBO, Kazuya; ENDO, Toru; NORO, Shinichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi
- 3K3-03** Crystal Structures and Dielectric Properties of [Ni(dmit)]<sub>2</sub> Salts of (Aminopyridine/Crown-ether Derivatives) Supramolecule Cations (Research Institute of Electronic Science, Hokkaido Univ.) LIU, Zunqi; LI, Lin; KUBO, Kazuya; NORO, Shin-ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi
- 3K3-04** The dielectric response of (3-fluoroadamantylammonium)([18]crown-6)[Ni(dmit)]<sub>2</sub> polymorphous upon the rotation of supramolecular rotators. (Research Institute for Electronic Science, Hokkaido Univ.) YAN, Yin-nan; AKUTAGAWA, Tomoyuki; KUBO, Kazuya; NORO, Shin-ichiro; NAKAMURA, Takayoshi
- 3K3-05** Formation and Dynamics of the hydrogen-bonded network consisting of tetrapyrrolylmethane (Department of Chemistry, Graduate School of Science, Osaka Univ.; Institute for Solid State Physics, The Univ. of Tokyo) INOKUCHI, Daisuke; HIRAO, Yaukazu; TAKAHASHI, Kazuyuki; MATSUMOTO, Kouzou; KURATA, Hiroyuki; MORI, Hatsumi; KUBO, Takashi

Chair: SATO, Naoki (10:00~11:00)

- \* 9:50-10:00: interval for laptop PC connection.(3K3-07)
- 3K3-07 CSJ Award for Creative Works** Electronic Functions of Highly-Correlated Organic Radicals and their Application to Organic Electronics (RCMS, Nagoya Univ.) AWAGA, Kunio

Chair: AKUTAGAWA, Tomoyuki (11:10~12:10)

- \* 11:00-11:10: interval for laptop PC connection.(3K3-14, 3K3-15, 3K3-16, 3K3-17, 3K3-18, 3K3-19)
- 3K3-14** Substituent Effect in the Photomechanical Bending of Anthrylmethyleneindanones Crystals (Ehime Univ.) NAKAMURA, Jun; ISHIBASHI, Yoshihiro; KOSHIMA, Hideko

- 3K3-15** Total resolution of racemic succinimide by CIET (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; HACHIYA, Shoko; YAGISHITA, Fumitoshi; ONUKI, Tatsuo; MINO, Takashi; FUJITA, Tsutomu
- 3K3-16** Laser ablation and photochemical reaction of crucumin microcrystals dispersed in water (Ehime Univ.) NGUYEN THI YEN, Minh; ASahi, Tsuyoshi
- 3K3-17** Generation of phenoxy radical and concomitant crystalline-amorphous transition (Univ. of Toyama) UENO, Taisetsu; HAYASHI, Naoto; YOSHINO, Junro; HIGUCHI, Hiroyuki
- 3K3-18** Color Switching Dehydration / Hydration Processes of Pipemidic Acid Investigated by Powder Diffraction Analysis (Tokyo Inst. of Tech.) SAKON, Aya; FUJII, Kotaro; SEKINE, Akiko; UEKUSA, Hidehiro
- 3K3-19** Solid State Photoisomerization of Cobaloxime Complexes with Azobenzene Derivatives as Axial Base Ligands (Tokyo Inst. of Tech.) YAMAGIWA, Hiroki; SEKINE, Akiko; UEKUSA, Hidehiro

## Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Tuesday, March 27, PM

Chair: KAWASAKI, Tsuneomi (13:00~14:00)

- \* 12:50-13:00: interval for laptop PC connection.(3K3-25, 3K3-26, 3K3-27, 3K3-28, 3K3-29, 3K3-30)
- 3K3-25** Chiral Supramolecular Lewis Acid-Catalyzed Anomalous Endo- and Enantioselective Diels-Alder Reactions (Nagoya Univ., CREST) MIZUNO, Tomokazu; USAMI, Ryota; AKAKURA, Matsujiro; HATANANO, Manabu; ISHIIHARA, Kazuaki
- 3K3-26** Chiral Supramolecular Lewis Acid-Catalyzed Anomalous Exo- and Enantioselective Diels-Alder Reactions (Nagoya Univ., Aichi Univ. of Education, CREST) IZUMISEKI, Atsuto; AKAKURA, Matsujiro; HATANANO, Manabu; ISHIIHARA, Kazuaki
- 3K3-27** Chiral Supramolecular Lewis Acid-Catalyzed Normal Endo/Exo- and Enantioselective Diels-Alder Reactions (Nagoya Univ., CREST) USAMI, Ryota; MIZUNO, Tomokazu; HATANANO, Manabu; ISHIIHARA, Kazuaki
- 3K3-28** Asymmetric Diels-Alder reaction using ionically polymer-immobilized MacMillan Catalyst (Toyoohashi Univ. of Technology) KANEKO, Masahiro; TAKEMURA, Yu; HARAGUCHI, Naoki; ITSUNO, Shinichi
- 3K3-29** Ionic main-chain chiral polymer containing MacMillan catalyst for asymmetric Diels-Alder reaction (Toyoohashi Univ. of Technology) HARAGUCHI, Naoki; KIYONO, Hitomi; TAKEMURA, Yu; ITSUNO, Shinichi
- 3K3-30** Aza Diels-Alder Reaction Catalyzed by Trifluoromethanesulfonic acid (Osaka City Univ.; Tosoh Finechem Coporation) HATANAKA, Yasuo; ARIMA, Hiroko; NANTAKU, Shouto; MINAMI, Tatsuya; KAJI, Eiichi

Chair: MINAMI, Tatsuya (14:10~15:10)

- \* 14:00-14:10: interval for laptop PC connection.(3K3-32, 3K3-33, 3K3-34, 3K3-35, 3K3-37)
- 3K3-32** Synthetic Study on Dearomatized Anthraquinone Pleospdione (Graduate School of Science and Technology, Tokyo Institute of Technology) KAJIMURA, Saeka; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 3K3-33** Efficient Synthetic approach to Multi-Substituted Cyclohexanes via Dioxanone-Dienes (Department of Chemistry, Tokyo Institute of Technology) AOKI, Yoshifumi; MOCHIZUKI, Yuta; YOSHINARI, Tomohiro; OHMORI, Ken; SUZUKI, Keisuke
- 3K3-34** New Synthetic Approach to Multi-Substituted Allenes via Retro-Cycloaddition (Department of Chemistry, Tokyo Institute of Technology) MATSUSHITA, Kyouhei; AOKI, Yoshifumi; YOSHINARI, Tomohiro; OHMORI, Ken; SUZUKI, Keisuke
- 3K3-35\*** Enantioselective Diels-Alder Reaction of  $\alpha$ -Hetero Substituted  $\beta$ -Alkylacroleins Catalyzed by Chiral Ammonium Salts. (Nagoya Univ.; CREST) YAMADA, Hiroki; SAKAKURA, Akira; ISHIIHARA, Kazuaki
- 3K3-37** Design of chiral acid-base combination catalysts for the enantioselective cyanocarbonylations (Nagoya Univ.; CREST) OGURA, Yoshihiro; SAKAKURA, Akira; ISHIIHARA, Kazuaki

Chair: KUTSUMURA, Noriki (15:20~16:10)

- \* 15:10-15:20: interval for laptop PC connection.(3K3-39, 3K3-40, 3K3-41, 3K3-42, 3K3-43)
- 3K3-39** Catalytic asymmetric [4+2] cycloadditions of  $\alpha$ -alkylidene- $\beta$ -keto imides (Waseda Univ., Graduate School of Advanced Sci.and Engin.) ORIMOTO, Kohei; OYAMA, Harufumi; NAKADA, Masahisa
- 3K3-40** Development of catalytic asymmetric [4+2] cycloaddition of  $\alpha$ -alkylidene- $\beta$ -keto imide toward total synthesis of natural products (Waseda Univ., Graduate School of Advanced Sci.and Engin.) ORIMOTO, Kohei; OYAMA, Harufumi; NAKADA, Masahisa
- 3K3-41** Enantioselective 1,3-Dipolar Cycloadditions of Azomethine Imines with Propiolamides Induced by Chiral  $\pi$ -Cation Catalysts (Nagoya Univ.; CREST) HORI, Masahiro; SAKAKURA, Akira; ISHIIHARA, Kazuaki
- 3K3-42** Enantioselective hetero-Diels-Alder reaction of allylsilanes induced by chiral  $n$ -cation catalysts (Nagoya Univ.; CREST) MATSUMURA, Yuki; SAKAKURA, Akira; ISHIIHARA, Kazuaki
- 3K3-43** Enantioselective hetero-Diels-Alder reaction of silyl vinyl ethers with

$\beta$ ,  $\gamma$ -unsaturated  $\alpha$ -ketoesters induced by chiral  $n$ -cation catalysts (Nagoya Univ.; CREST) SUZUKI, Takahiro; MATSUMURA, Yuki; SAKAKURA, Akira; ISHIIHARA, Kazuaki

Wednesday, March 28, AM

Chair: KIKUCHI, Satoshi (9:20~10:00)

- \* 9:10-9:20: interval for laptop PC connection.(4K3-03, 4K3-05, 4K3-06)
- 4K3-03\*\*** Powerful Amide Synthesis from Alcohols and Amines under Aerobic Conditions Catalyzed by Gold or Gold-Iron, -Nickel or -Cobalt Nanoparticles (Graduate School of Science, The Univ. of Tokyo) SOULE, Jean-francois; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 4K3-05** Selective Synthesis of Primary Amides from Alcohols and Aqueous Ammonia Using Bimetallic Nanoclusters as Catalysts and Molecular Oxygen as Terminal Oxidant (Graduate School of Science, The Univ. of Tokyo) MIN, Hyemin; SOULE, Jean-francois; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 4K3-06** Gold Nanoparticles Catalyst of Water-soluble Polyaniline with Redox Mediator Function : Dehydrogenative Oxidation of Nitrogen-containing Compounds in Aqueous Solution (Osaka Univ.) AMAYA, Toru; ITO, Tsubasa; HIRAO, Toshikazu

Chair: ISHITANI, Haruro (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4K3-08, 4K3-09, 4K3-10, 4K3-11, 4K3-13)
- 4K3-08** Direct oxidative ethyl acetate synthesis from ethanol catalyzed by polymer-incarcerated bimetallic nanoluster catalysts (Graduate School of Science, The Univ. of Tokyo) KAIZUKA, Kosuke; FUKUSATO, Yu; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 4K3-09** Development of Bifunctional Polymer Incarcerated Gold and Rhodium Catalysts for Tandem Oxidation/1,4-Addition Reactions (Graduate School of Science, The Univ. of Tokyo) YASUKAWA, Tomohiro; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 4K3-10** Development of Tandem Aerobic Oxidation/Asymmetric Michael Addition Reaction Catalyzed by a Bifunctional Heterogeneous Catalyst (Graduate School of Science, The Univ. of Tokyo) CHOO, Chong Yu Gerald; YASUKAWA, Tomohiro; MIYAMURA, Hiroyuki; YOO, Woo-jin; KOBAYASHI, Shu
- 4K3-11\*** Development of Highly Enantioselective Synthesis of Planar-Chiral Paracyclophanes (Waseda Univ.) KANDA, Kazumasa; HAMANAKA, Risa; KOIKE, Tamami; ENDO, Kohei; SHIBATA, Takanori
- 4K3-13** Synthesis and application of chiral phosphine ligands with [n] paracyclophane skeleton by asymmetric ortho-litiation and their applications. (Waseda Univ.) HAMANAKA, Risa; KANDA, Kazumasa; ENDO, Kohei; SHIBATA, Takanori

Chair: MORI, Keiji (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4K3-15, 4K3-17, 4K3-18, 4K3-19, 4K3-20)
- 4K3-15\*** Silver-Catalyzed Incorporation of Carbon Dioxide with the Alkyne Activation: The Reaction of Propargylic Alcohol Derivatives. (Keio Univ.) KIKUCHI, Satoshi; SEKINE, Kohei; YAMADA, Tohru
- 4K3-17** Silver-Catalyzed Incorporation of Carbon Dioxide with the Alkyne Activation: C-C Bond Formation (1) (Keio Univ.) ISHIDA, Tomonobu; SEKINE, Kohei; KIKUCHI, Satoshi; YAMADA, Tohru
- 4K3-18** Silver-Catalyzed Incorporation of Carbon Dioxide with the Alkyne Activation: C-C Bond Formation (2) (Keio Univ.) SEKINE, Kohei; ISHIDA, Tomonobu; KIKUCHI, Satoshi; YAMADA, Tohru
- 4K3-19** Asymmetric C-H Functionalization of Indole Derivatives with Diazo Esters on Copper-Plated Mesoporous Silica Catalyst (Chemical Resources Laboratory, Tokyo Institute of Technology) CHEN, Du; ISHITANI, Haruro; IWAMOTO, Masakazu
- 4K3-20** Ligand-free Copper Catalyzed Sonogashira-coupling Reaction on Mesoporous Silica Material (Chemical Resources Laboratory, Tokyo institute of technology) SUZUKI, Tatsuya; ISHITANI, Haruro; IWAMOTO, Masakazu

Room K4

12th Bldg. 12-104

## Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds

Sunday, March 25, AM

Chair: HIRABAYASHI, Kazunori (10:00~11:00)

- \* 9:50-10:00: interval for laptop PC connection.(1K4-07, 1K4-08, 1K4-09, 1K4-10, 1K4-11, 1K4-12)
- 1K4-07** Synthesis and Properties of Hexathiapentacene Dendrimer (Okayama Univ.) HAYASHI, Yuuki; YAMAKAWA, Akio; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka

- 1K4-08** Synthesis of  $(Me_4N)_4[Cd_{10}S_4(SePh)_{16}]$  Cluster Using Ligand Exchange Reaction (Okayama Univ.; Osaka Univ.) SAKAMOTO, Yuta; TAJIMA, Tomoyuki; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi; TAKAGUCHI, Yutaka
- 1K4-09** Synthesis and properties of novel organic semiconductor molecules (Faculty of Engineering, Iwate Univ.) ITO, Hiroki; MURAOKA, Hiroki; YAMAMOTO, Tatyua; OGAWA, Satoshi
- 1K4-10** Synthetic development of functional poly(*p*-arylenesulfide) having high T<sub>g</sub> (Fac. of Engin., Iwate Univ.) OGAWA, Satoshi; INADA, Satoshi; NAKAYA, Yasutaka; MURAOKA, Hiroki
- 1K4-11** Radical Reactions Using Alkyl-substituted Tetraorganytellurium Compounds (Institute for Chemical Research, Kyoto Univ.) SAIKI, Kotaro; YAMAGO, Shigeru
- 1K4-12** Photo-induced radical coupling reaction of organotellurium compounds (ICR, Kyoto Univ.;CREST, JST) NAKAMURA, Yasuyuki; ARIMA, Takahiro; YAMAGO, Shigeru

Chair: TAJIMA, Tomoyuki (11 : 10~12 : 10)

- \* 11:00-11:10: interval for laptop PC connection.(1K4-14, 1K4-15, 1K4-16, 1K4-17, 1K4-18, 1K4-19)
- 1K4-14** Synthesis of 3,3'-Disubstituted-2,2'-biphenyl Derivatives (Tokyo Metropolitan Univ.) FUKUI, Takahiro; SATO, Soichi
- 1K4-15** Synthesis and Properties of Hypercoordinated Tellurium Compounds having 3,3'-Dimethoxybiaryl Ligands (Tokyo Metropolitan Univ.) MIZUKAMI, Mayumi; SATO, Soichi
- 1K4-16** Synthesis and Properties of Phosphonothioic Acid with a Phenylethynyl Group (Kochi Univ. of Technology) SAWAYAMA, Jun; HIRAO, Shotaro; NISHIWAKI, Nagatoshi; SAIGO, Kazuhiko
- 1K4-17** Synthesis of hexasilsequioxane with different substituents (Graduate School of Engineering, Gunma) TANAKA, Satoshi; TAKEDA, Nobuhiro; UNNO, Masafumi
- 1K4-18** Synthesis of Optically Active Pentavalent Phosphorus Compounds Involving Sulfur or Selenium Atom Using (*S*)-Prolinol as a Chiral Source (Kanazawa Univ.) TAKAI, Yasuyuki; SHIDO, Kazuya; MAEDA, Hajime; SEGI, Masahito
- 1K4-19** Properties and reactivities of alkyl aryl chalcogenide containing three different chalcogen atoms (Tokyo Metropolitan Univ.) FUKUKAKA, Tomoyuki; HIRABAYASHI, Kazunori; SHIMIZU, Toshio

## Sunday, March 25, PM

Chair: NAKAHODO, Tsukasa (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1K4-28, 1K4-29, 1K4-30, 1K4-31, 1K4-32, 1K4-33)
- 1K4-28** Oxidative Halogenation of Tetraaryltelluriums(IV) and Their Reaction (Department of Chemistry, School of Science, Kitasato Univ.) KOBAYASHI, Sho; MINOURA, Mao; MAZAKI, Yasuhiro
- 1K4-29** Synthesis and reactivities of a transannular amino- $\lambda^6$ -sulfanenitride (Univ. of Toyama) YOSHIMURA, Toshiaki; MIYAZAKI, Mina; ISHIKAWA, Hiroki; ANDOU, Yoshimasa
- 1K4-30** Preparations and properties of 4,7-dibromobenzo[b]thiophene and its derivatives (Graduate School of Science, Tohoku Univ.) MUTOH, Hirotsuka; KATSUTA, Hiroshi; TANIMOTO, Daiki; IWAMOTO, Takeaki; TOYOTA, Kozo
- 1K4-31** Synthesis, Structure and Properties of Unsaturated Benzothiacrown Ethers (Tokyo Metropolitan Univ.) MURAKAMI, Mai; NARA, Hiromi; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 1K4-32** Reactivity of *N*-Hydroxysulfenamides as HNO Donors (Tokyo Institute of Technology) ISHIHARA, Michihiro; SASE, Shohei; GOTO, Kei
- 1K4-33** Investigation of Sulfoxide Reduction by Selenols Utilizing a Bowl-shaped Molecular Cavity (Tokyo Institute of Technology) KAKIMOTO, Ryo; SASE, Shohei; GOTO, Kei

Chair: SHIBAHARA, Fumitoshi (14 : 40~15 : 30)

- \* 14:30-14:40: interval for laptop PC connection.(1K4-35, 1K4-36, 1K4-37, 1K4-38, 1K4-39)
- 1K4-35** Synthesis and Polymerizations of Novel alpha-Stannylphospholes (Department of Molecular Engineering, Graduate School of Engineering, Kyoto Univ.) OHKUBO, Hiroshi; MATANO, Yoshihiro; IMAHORI, Hiroshi
- 1K4-36** Structure-Property Relationship of Benzo[b]phosphole Dimers (Department of Molecular Engineering, Graduate School of Engineering, Kyoto Univ.) HAYASHI, Yukiko; MATANO, Yoshihiro; IMAHORI, Hiroshi
- 1K4-37** Synthesis of Double-Decker Silsesquioxane (Graduate School of Engineering, Gunma) ASHIDA, Shoichi; TAKEDA, Nobuhiro; UNNO, Masafumi
- 1K4-38** Pt-catalyzed Si-C(sp<sup>3</sup>) Bond Formation: A Versatile Synthesis of Alkylsilanes by coupling of Hydrosilanes with Iodoalkanes (School of Science, Univ. of Tokyo) INUBUSHI, Hikaru; YAMANOI, Yoshinori; NISHIHARA, Hiroshi
- 1K4-39** Synthesis of Optically Active Tertiary Silanes via Palladium-catalyzed Enantioselective Arylation of Secondary Silanes (School of Science, The Univ. of Tokyo) KURIHARA, Yu; YAMANOI, Yoshinori; NISHIHARA, Hiroshi

Chair: SASE, Shohei (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(1K4-41, 1K4-42, 1K4-43, 1K4-44, 1K4-45)
- 1K4-41** Construction of Chiral Nanointerface with Redox-active Tetrathiafulvalene (Kinki Univ. Faculty of Science and Engineering) NANMO, Ryouta; NAMBU, Shinya; NAKAHODO, Tsukasa; FUJIIHARA, Hisashi
- 1K4-42** Thionation of lactone with elemental sulfur, trichlorosilane and amines and mechanistic studies (Department of Chemistry, Faculty of Engineering, Gifu Univ.) YOSHIDA, Akihito; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 1K4-43** Synthesis of Alkenes and Isocyanides via Selenation of Carbonyl Group and Subsequent Deselenation of Selenocarbonyl Group (Kanazawa Univ.) MIZUKAMI, Nobuteru; OKOCHI, Tetsuya; MAEDA, Hajime; SEGI, Masahito
- 1K4-44** Synthesis and Structure of Tellurium Salts Bearing 2-Phenylpyridine-Type Ligands (Tokyo Metropolitan Univ.) OOIIZUMI, Akihisa; FUNAHASHI, Kou; SATO, Soichi
- 1K4-45** Oxidation Reaction of Hypercoordinated Tellurium Compounds (Tokyo Metropolitan Univ.) AIHOSHI, Mitsushi; SATO, Soichi

Chair: NAGAHORA, Noriyoshi (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(1K4-47, 1K4-48, 1K4-49, 1K4-50, 1K4-51)
- 1K4-47** Synthesis and applications of perfluoroalkyl-substituted phosphine compounds (Osaka Prefecture Univ.) MINAMIDA, Yoshiaki; KAWAGUCHI, Shin-ichi; OHE, Takashi; OGAWA, Akiya
- 1K4-48** Regioselective Synthesis of  $\alpha$ -Substituted Vinyl Iodides Using Iodine-Phosphorous Acid Mixed System (Osaka Prefecture Univ.) MASUNO, Haruna; KAWAGUCHI, Shin-ichi; SONODA, Motohiro; OGAWA, Akiya
- 1K4-49** synthesis and properties of silicon-dyes (Graduate School of Engineering, Gunma) ABE, Takuro; KAKIAGE, Kenji; HANAYA, Minoru; TAKEDA, Nobuhiro; UNNO, Masafumi
- 1K4-50** Approach to stereoisomerization reaction of novel silsesquioxanes. (Graduate School of Engineering, Gunma Univ.) ENDO, Hisayuki; TAKEDA, Nobuhiro; UNNO, Masafumi
- 1K4-51** Synthesis and photophysical properties of cross-conjugated molecules containing two main group element of B, Si, or P (Tokyo Institute of Technology, Chemical Resources Laboratory) FUCHIGAMI, Akemi; SANJI, Takanobu; TANAKA, Masato

Chair: SONODA, Motohiro (17 : 40~18 : 30)

- \* 17:30-17:40: interval for laptop PC connection.(1K4-53, 1K4-54, 1K4-55, 1K4-56, 1K4-57)
- 1K4-53** Synthesis of Siloxanes with Long-Chain Alkyl Group (Graduate School of Engineering, Gunma) KURAMOCHI, Chika; TAKEDA, Nobuhiro; UNNO, Masafumi
- 1K4-54** Synthesis of polysulfides and polyselenides with norbornane skeleton (Faculty of Science, Fukuoka Univ.) MUNAKATA, Kazunori; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro
- 1K4-55** Development of Novel Synthetic Reactions Involving the Formation of Selenenyl Iodides as a Key Step (Tokyo Institute of Technology) EBISAWA, Kazuaki; SASE, Shohei; GOTO, Kei
- 1K4-56** Investigation of Bimolecular Decomposition Reaction of *S*-Nitrosothiols by Taking Advantage of a Bowl-shaped Molecular Cavity (Tokyo Institute of Technology) IDEUE, Taku; ABE, Noriaki; SASE, Shohei; GOTO, Kei
- 1K4-57** Lewis Acid Catalyzed Nucleophilic Addition of Allyl Mesityl Sulfide to Acetals (Tokyo Metropolitan Univ.) SHIKAMA, Sonoko; SUGIYAMA, Masahide; HIRABAYASHI, Kazunori; SHIMIZU, Toshio

## Monday, March 26, AM

Chair: SATO, Ohki (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(2K4-07, 2K4-08, 2K4-09, 2K4-10, 2K4-11, 2K4-12)
- 2K4-07** Asymmetric synthesis of trifluoromethylated  $\beta$ -amino acids via diastereoselective Mannich-type reaction to F3TBSI (Graduate School of Engineering, Nagoya Institute of Technology) NISHIMINE, Takayuki; SHIBATA, Naoyuki; KAGAWA, Takumi; TOKUNAGA, Etsuko; KAWADA, Kousuke; SHIBATA, Norio
- 2K4-08** Structure and Application for Low-Symmetric Metal Complexes of 2-Fluoro-1,3-diphosphopropene (Graduate School of Engineering Tokyo Institute of Technology) NAKAGAWA, Takeshi; MIKAMI, Koichi; ITO, Shigekazu
- 2K4-09** Epoxidation of acrylamides and carbonation of resulting epoxides with carbon dioxide (Yamagata University) AKUTSU, Ryo; OCHIAI, Bungo
- 2K4-10** Chirality recognition ability of O-ethyl phenylphosphonothioic acid (Kochi Univ. of Technology) SAWAYAMA, Jun; MATSUMOTO, Kazushige; ISHIYAMA, Seiko; HIRAO, Syotaro; NISHIWAKI, Nagatoshi; SAIGO, Kazuhiko
- 2K4-11** Preparation and electrochemical and optical properties of thienotetraazaporphyrins with 4-methylpyridine as axial ligands (Iwate Univ.) KIMURA, Takeshi; MURAKAMI, Naoko; NAMAOU, Toshiharu
- 2K4-12** Preparation and optical and electrochemical properties of phthal-

cyanines with the TTF unit (Iwate Univ.; Okayama Univ.; Tohoku Univ.)  
KIMURA, Takeshi; TAKAHASHI, Nobuhiro; TAJIMA, Tomoyuki;  
TAKAGUCHI, Yutaka; KOBAYASHI, Nagao

Chair: AGOU, Tomohiro (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(2K4-14, 2K4-15, 2K4-16, 2K4-17, 2K4-18, 2K4-19)

**2K4-14** Reaction of Thiazalothione with Phosphites (Univ. of Saitama)  
SUZUKI, Ikumi; SATO, Ohki

**2K4-15** Synthesis and reaction of optically active ammonium phosphoromono-  
fluoridates (Department of Chemistry, Faculty of Engineering, Gifu Univ.)  
HAYASHI, Takae; YAMADA, Kyohei; MURAI, Toshiaki

**2K4-16** Mild, powerful, and robust esterification or amide formation between  
carboxylic acids and alcohols or amines utilizing MsCl-combined amine  
reagents directed toward process chemistry. (School of Science and  
technology, Kwansai Gakuin Univ.) YAMAMOTO, Ayumu; NAGASE,  
Ryouhei; TANABE, Yoo

**2K4-17** Synthesis and properties of a thiophosphonic acid having a perfluoro-  
oalkyl group (Kochi Univ. of Technology) ISHIYAMA, Seiko;  
SAWAYAMA, Jun; HIRAO, Shotaro; NISHIWAKI, Nagatoshi; SAIGO,  
Kazuhiko

**2K4-18** Synthesis of azadienamines from chiral amino alcohols as multidentate  
ligands (Kochi Univ. of Technology) SAWAYAMA, Jun; INOUE, Maki;  
ISHIYAMA, Seiko; HIRAO, Shotaro; NISHIWAKI, Nagatoshi; SAIGO,  
Kazuhiko

**2K4-19** A Novel and Efficient Synthesis of Bisphosphonic Acid Derivatives  
(Mitsubishi Tanabe Pharma Corporation) SEKI, Masahiko

### Monday, March 26, PM

Chair: SAITO, Masaichi (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2K4-28, 2K4-29, 2K4-30, 2K4-32)

**2K4-28** Investigation of influences of substituents of diselenides on photo-  
initiated radical addition to alkynes. (Osaka Prefecture Univ.) KOBIKI,  
Yohsuke; KAWAGUCHI, Shin-ichi; OGAWA, Akiya

**2K4-29** Synthesis of quinoline derivatives by thermal aza-Bargman cyclization  
and their synthetic applications (Osaka Prefecture Univ.) TAMAI, Taichi;  
MITAMURA, Takenori; OGAWA, Akiya

**2K4-30\*** (1) RhCl(PPh<sub>3</sub>)<sub>3</sub>/Ph<sub>2</sub>P(O)H-catalyzed regio- and stereoselective hydro-  
selenation of electron-deficient internal acetylenes with PhSeH (Osaka  
Prefecture Univ.) KAWAGUCHI, Shin-ichi; KOTANI, Mao; OGAWA,  
Akiya

**2K4-32\*** Generation of Tellurenyl Cation Species Bearing a Bulky Substituent  
and Their Trapping Reactions. (Institute for Chemical Research, Kyoto  
Univ.) SUGAMATA, Koh; SASAMORI, Takahiro; TOKITOH, Norihiro

Chair: TAKAGUCHI, Yutaka (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2K4-35, 2K4-37, 2K4-39)

**2K4-35\*** Synthesis and luminescent property of highly phosphorescent five-  
membered 1,2-telluraplatinacycle (Saitama Univ.) YAMAGUCHI, Yuki;  
NAKATA, Norio; ISHII, Akihiko

**2K4-37\*** Studies on Synthesis and Properties of 1,2-Bis(ferrocenyl)diphosphene  
and Distibene Derivatives Bearing Bulky Ferrocenyl Units (Institute for  
Chemical Research, Kyoto Univ.) SAKAGAMI, Michiyasu; SASAMORI,  
Takahiro; TOKITOH, Norihiro

**2K4-39\*** Copper-Catalyzed Alkynylative Cyclization of 4-Oxahepta-1,6-diyne  
(Gifu Univ.; Kinki Univ.) SASAKI, Hitomi; TANABE, Genzoh;  
MURAOKA, Osamu; YOSHIMATSU, Mitsuhiro

Chair: TAKEDA, Nobuhiro (15 : 50~16 : 40)

\* 15:40-15:50: interval for laptop PC connection.(2K4-42, 2K4-44, 2K4-45)

**2K4-42\*** Hydrolytic Enantioselective Protonation of Dienyl Esters and  $\beta$ -  
Diketones with A Chiral Phase-Transfer Catalyst (Dept. of Chemistry,  
Kyushu Univ.) YAMAMOTO, Eiji; GOKUDEN, Daichi; NAGAI, Ayano;  
KAMACHI, Takashi; YOSHIZAWA, Kazunari; HAMASAKI, Akiyuki;  
ISHIDA, Tamao; TOKUNAGA, Makoto

**2K4-44** Asymmetric base hydrolysis of amino acid esters with chiral phase  
transfer catalysts. (Dept. of Chemistry, Kyushu Univ.; Catalysis Organic  
Chemistry Lab.) NAKAMURA, Ryota; YAMAMOTO, Eiji; HAMASAKI,  
Akiyuki; ISHIDA, Tamao; TOKUNAGA, Makoto

**2K4-45\*** Solvent Effect on Thiirane of Alkenes Using Methoxycarbonyl-  
sulfenyl Chloride (Saitama Univ.) SUGIHARA, Yoshiaki; SATO, Miho

Chair: AIKAWA, Haruo (16 : 50~17 : 30)

\* 16:40-16:50: interval for laptop PC connection.(2K4-48, 2K4-49, 2K4-50, 2K4-51)

**2K4-48** Synthetic Transformations via Silylstannylation of Terminal Alkynes  
and Oxidative Elimination of Phenylseleno Group (Kanazawa Univ.)  
SHINTAKU, Kazuki; MAEDA, Hajime; SEGI, Masahito

**2K4-49** Synthetic Transformations Utilizing Properties of Phenylseleno Group  
and Alkyne Moieties (Kanazawa Univ.) ISHIDA, Kazuya; SHINTAKU,  
Kazuki; MAEDA, Hajime; SEGI, Masahito

**2K4-50** Development of Novel P-Chirogenic Ligands of Phosphinate and  
Phosphinite (Department of Chemistry, Kyushu Univ.) ITOH, Hisashi;

YOKOO, Yoshihiro; NOZAKI, Wataru; HAMASAKI, Akiyuki; ISHIDA,  
Tamao; MASAOKA, Shigeyuki; SAKAI, Ken; TOKUNAGA, Makoto  
**2K4-51** Synthesis, Oxidation, and Fluorescence of p-alkynyl- and p-(diphenyl-  
lamino)phenyl-substituted 3-methylene-2,3-dihydrothiophene Derivatives In-  
corporated in a Dibenzo[barrelene] skeleton (Saitama Univ.) ANNAKA,  
Tatsuro; NAKATA, Norio; ISHII, Akihiko

### Tuesday, March 27, PM

Chair: YAMASHITA, Makoto (12 : 30~13 : 20)

\* 12:20-12:30: interval for laptop PC connection.(3K4-22, 3K4-23, 3K4-24, 3K4-25, 3K4-26)

**3K4-22** Syntheses and Reactivities of S-Nitroso- and S-Nitrocysteine Deriva-  
tives by Taking Advantage of a Dendrimer-type Molecular Cavity (Tokyo  
Institute of Technology) SANO, Tsukasa; SASE, Shohei; GOTO, Kei

**3K4-23** Generation of Boron Dication Having a Pincer Ligand (Department  
of Chemistry, Graduate School of Science and Engineering, Saitama Univ.)  
MATSUMOTO, Kaori; SAITO, Masaichi

**3K4-24** Reduction of Haloboranes Bearing a Bulky Amino Substituent  
(Institute for Chemical Research, Kyoto Univ.) TSUTSUMI, Yosuke;  
MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

**3K4-25** Synthetic Study of a 1,2-Diaryldialumene (Kyoto Univ.) NAGATA,  
Koichi; AGOU, Tomohiro; TOKITOH, Norihiro

**3K4-26** Synthesis and property of gallafluorenes containing four-coordinated  
gallium atom (Univ. of Kyoto) MATSUMOTO, Takuya; TANAKA,  
Kazuo; CHUJO, Yoshiki

Chair: KANO, Naokazu (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(3K4-28, 3K4-30, 3K4-32)

**3K4-28\*** Synthesis and Properties of Pentaarylbore-Carbonyl Complexes  
(Department of Chemistry, Univ. of Calgary, Canada) FUKAZAWA,  
Aiko; DUTTON, Jason L.; MERCIER, Lauren G.; FAN, Cheng; PAVEZ,  
Masood; PIERS, Warren E.

**3K4-30\*** Synthesis of Novel Fused  $\pi$ -Conjugated Compounds Based on o-  
Carboranes (Graduate School of Engineering, Kyoto Univ.) TOMINAGA,  
Masato; OCHIAI, Takuya; MORISAKI, Yasuhiro; CHUJO, Yoshiki

**3K4-32\*** Synthesis and Properties of  $\pi$ -Conjugated Systems Containing N-  
Heterocyclic Carbene and Borane Moieties (Graduate School of Science,  
Nagoya Univ.; Mster Univ., Germany) NAGURA, Kazuhiko; SAITO,  
Shohei; GLORIUS, Frank; YAMAGUCHI, Shigehiro

Chair: MAEDA, Hajime (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3K4-35, 3K4-37, 3K4-39)

**3K4-35\*** Synthesis of BN-fused Polycyclic Aromatics via Tandem Intramolecu-  
lar Electrophilic Aromatic Borylation (International Research Center for  
Elements Science, Institute for Chemical Research, Kyoto Univ.)  
HASHIMOTO, Sigma; OBA, Tsuyoshi; HATAKEYAMA, Takuji; SEKI,  
Syu; NAKAMURA, Masaharu

**3K4-37\*** SAR study of imidazolium-based N-heterocyclic carbenes: enhance-  
ment of catalytic reactivity in the direct annulation of enals and aldehydes  
(Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental  
Univ.) NARUMI, Tetsuo; AIKAWA, Haruo; TAMAMURA, Hirokazu

**3K4-39\*** Synthesis, Reactivity, and Properties of Stable Triphosphat[3]radialene  
(Institute for Chemical Research, Kyoto Univ.) MIYAKE, Hideaki;  
SASAMORI, Takahiro; TOKITOH, Norihiro

Chair: MURAOKA, Hiroki (15 : 50~16 : 40)

\* 15:40-15:50: interval for laptop PC connection.(3K4-42, 3K4-43, 3K4-44, 3K4-45, 3K4-46)

**3K4-42** Reaction of Anionic Intermediate of Bora-Brook Rearrangement  
Reaction with Electrophiles (The Univ. of Tokyo, Graduate School of  
Engineering; Chuo Univ., Faculty of Science and Engineering) ITO,  
Fumihiko; SAKAINO, Hiroto; YAMASHITA, Makoto; NOZAKI, Kyoko

**3K4-43** Synthesis and Reaction of Calix[4]thiophene Derivatives (Kinki  
Univ. Faculty of Science and Engineering) TAKEUCHI, Noritaka; SATO,  
Shinya; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

**3K4-44** Regio- and stereoselective synthesis of conjugated compounds using  
naphthalenedithiol (Osaka Prefecture Univ.) NAKAGAWA, Naoki;  
IKEDA, Takuma; NOMOTO, Akihiro; OGAWA, Akiya

**3K4-45** Coordination properties of anthraquinone derivatives bearing amino  
acids containing chalcogen moieties (Osaka Prefecture Univ.) NOMOTO,  
Akihiro; TSUNEDA, Yoshimasa; MINATOBE, Yuta; MATSUKAWA,  
Noriko; UESHIMA, Michio; OGAWA, Akiya

**3K4-46** Development of Heterotetranuclear Complexes-Catalyzed Oxidation  
in Water (Osaka Prefecture Univ.) MARUI, Kuniaki; KODAMA, Shintaro;  
NOMOTO, Akihiro; UESHIMA, Michio; OGAWA, Akiya

Chair: NOMOTO, Akihiro (16 : 50~17 : 40)

\* 16:40-16:50: interval for laptop PC connection.(3K4-48, 3K4-49, 3K4-50, 3K4-51, 3K4-52)

**3K4-48** Study of the Synthesis and Properties of Polysubstituted Benzodithio-  
phene Derivatives (Fac. of Systems Engineering, Wakayama Univ.)  
MICHIBATA, Jun; OSUGA, Hideji; HINATSU, Masako; SAKAMOTO,  
Hidefumi

**3K4-49** Functionalization and Reactivity of Tetramethylhexathiaadamantane

(Tokyo Metropolitan Univ.) OGAWA, Keisuke; FUSE, Hironori; SATO, Soichi

- 3K4-50** Synthesis of selenocysteine derivatives from L-serine (Tokai Univ.) ITO, Shun; IWAOKA, Michio
- 3K4-51** Synthesis of alpha-methylselenocysteine derivatives and their application to catalytic asymmetric reactions (Tokai Univ.) MIYAZAKI, Izumu; IWAOKA, Michio
- 3K4-52** Synthesis and Reaction of Pyridinium 1-(N-phenylselenocarbamoyl) methylidene derivatives (Kanazawa Univ.) YOSHIDA, Takumi; MAEDA, Hajime; SEGI, Masahito

Chair: MIZUHATA, Yoshiyuki (17:50~18:30)

- \* 17:40-17:50: interval for laptop PC connection.(3K4-54, 3K4-55, 3K4-56, 3K4-57)
- 3K4-54** Synthesis and characterization of aryl-functionalized branched-type tetrathienylthiophene derivatives (Fac. of Engin., Iwate Univ.) MURAOKA, Hiroki; TANIFUJI, Takanori; OGAWA, Satoshi
- 3K4-55** Synthesis and characterization of branched-type oligothiophene derivatives with a phosphole core (Fac. of Engin., Iwate Univ.) MURAOKA, Hiroki; UJIIE, Shinpei; OGAWA, Satoshi
- 3K4-56** Synthesis, Structure and Reactivity of Novel P(IV)-CH=S(VI) compounds (Coll. Ind. Tech. Nihon Univ.) MOROSAKI, Tomohito; FUJII, Takayoshi
- 3K4-57** Synthesis of optically active alcohols via diastereoselective reaction of binaphthyl phosphoroselenoyl chloride with chiral cyclic secondary alcohols. (Department of Chemistry, Faculty of Engineering, Gifu Univ.) MIWA, Tomoaki; MURAI, Toshiaki

### Wednesday, March 28, AM

Chair: SASAMORI, Takahiro (9:10~10:00)

- \* 9:00-9:10: interval for laptop PC connection.(4K4-02, 4K4-03, 4K4-04, 4K4-05, 4K4-06)
- 4K4-02** Preparation, Structure and Reactions of Silyl-Substituted P-Heterocyclic Biradicals (Graduate School of Science and Engineering, Tokyo Institute of Technology) NGO, Trang Thi Thu; MIKAMI, Koichi; ITO, Shigekazu
- 4K4-03** Cycloaddition Reaction of Chlorophosphines or Chloroarsines with 1,3-Conjugated Dienes via Arsenium or Phosphonium Intermediates (Chubu Univ.) KATO, Naoki; NIYOMURA, Osamu; ANDO, Fumio
- 4K4-04** Synthetic Application of Functionalized Methylphosphonates(4) (Kinki Univ.) OKADA, Yoshiharu; TAMURA, Shin-ichi; MASUDA, Satoshi; TOKUDA, Yuichiro; NOMURA, Masato
- 4K4-05** Synthesis and Catalysis of Optically Active Phosphine Cavitand-Modified Metal Nanoparticles. (Kinki Univ. Faculty of Science and Engineering) YASUTAKE, Ryo; YAMADA, Shota; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 4K4-06** Synthesis of aminomaleimide derivatives from cyclic organoarsenic compounds and their solid-state luminescence (Kyoto Institute of Technology) KATO, Takuji; NAKA, Kensuke

Chair: FUJII, Takayoshi (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4K4-08, 4K4-09, 4K4-10, 4K4-11, 4K4-12, 4K4-13)
- 4K4-08<sup>#</sup>** Mechanism for the Hydrolysis of Phenoxyiminosulfonate Salts (Graduate School of Science and Engineering Univ. of Toyama) YOSHIMURA, Toshiaki; SHEIKH, Md. C.; OZAWA, Yuuki; FUKUROI, Hironobu
- 4K4-09** Synthesis of Thio- and Selenoketones Having 2-Adamantyl Group on the Carbonyl Carbons (Department of Chemistry, School of Science) YUKIMOTO, Mariko; NAGASAWA, Takuya; MINOURA, Mao; MAZAKI, Yasuhiro
- 4K4-10** Dehydrative S-allylation of thiols and thioic S-acid catalyzed by CpRu2-quinolinecarboxylate complex (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) TANAKA, Shinji; PRADHAN, Prasun Kanti; KITAMURA, Masato
- 4K4-11** Synthesis and Elastic Characteristics of the Heterohelicene Derivatives with Coordination Functional Groups (Fac. of systems Engineering, Wakayama Univ.) HOSOO, Hiroaki; OOSUGA, Hideji; HORII, Yasuo; HIGASHI, Minako; NAKAHARA, Yoshio; KIMURA, Keiichi; SAKAMOTO, Hidefumi
- 4K4-12** Synthesis of dithiolenes complexes with terthiophene unit by using butadiynes and formation of cyclic oligomer (Tokyo Metropolitan Univ.) HAYASHI, Hideyuki; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 4K4-13** Noncovalent Chalcogen-Chalcogen Interactions in Naphthalene System: AIM Dual Functional Analysis of Z<sub>2</sub> 2c-4e, Z<sub>2</sub>C 3c-4e, and Z<sub>4</sub> 4c-6e (Z = S, Se, and Te) Interactions (Wakayama Univ.) HAYASHI, Satoko; SHIMABUKURO, Risa; NAKANISHI, Waro

Chair: HAYASHI, Satoko (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4K4-15, 4K4-16, 4K4-17, 4K4-18, 4K4-19, 4K4-20)
- 4K4-15** Titanium(IV) Chloride Catalyzed Reactions of Epoxides with Adamantyl Organosulfides (Tokyo Metropolitan Univ.) AIZU, Shigekaki; HIRABAYASHI, Kazunori; SHIMIZU, Toshio

- 4K4-16** Synthesis and property of 3-methylene-2,3-dihydrothieno[2,3-b]thiophene derivatives incorporated in a dibenzobarrelene skeleton (Saitama Univ.) KOBAYASHI, Shota; NAKATA, Norio; ISHII, Akihiko
- 4K4-17** [3+2] Cycloaddition Reaction of Selenoaldehydes with Nitrile Ylides (Kanazawa Univ.) MAKI, Fumimasa; MAEDA, Hajime; SEGI, Masahito
- 4K4-18** Synthesis and Properties of Chiral Photoresponsive Azo Polythiophene Nanotubes (Kinki Univ. Faculty of Science and Engineering) UEHIGASHI, Atsushi; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 4K4-19** Debromination Reactions of 1,2-Bis(phenylseleno)benzene Dibromide (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) FUJITA, Masahiro; SAITO, Masaichi
- 4K4-20** Synthesis and Structure of High Coordinated Cyclic Compounds from the Reaction of Disulfanenitrile with R<sup>2</sup>ECl<sup>2</sup> (E = Ge, Sn, Pb) (Coll. Ind. Tech., Nihon Univ.) SUZUKI, Yasuhito; FUJII, Takayoshi

## Room K5

12th Bldg. 12-105

### Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Sunday, March 25, AM

Chair: MORI, Keiji (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(1K5-01, 1K5-02, 1K5-03, 1K5-04, 1K5-05, 1K5-06)
- 1K5-01** Reduction with sodium triacetoxymethylborohydride in alcohol solvent (Univ. of Waseda) YACHI, Rearu; HOSOKAWA, Seijiro
- 1K5-02** Development of Practical Flow Hydrogenation Reaction Systems Using Polysilane-supported Catalysts (Graduate School of Science, The Univ. of Tokyo, Nikko Chemicals CO.,LTD.) AKATSUKA, Yuichi; NUMATA, Yoshiyuki; OYAMADA, Hidekazu; KOBAYASHI, Shu
- 1K5-03** Cobalt-Catalyzed Enantioselective Borohydride Reduction of Ketones Using a Continuous-Flow Microreactor (Keio Univ.; Hitachi, Ltd.; Hitachi Plant Technologies, Ltd.) HAYASHI, Takuo; ASANO, Yukako; ENDO, Yoshishige; KIKUCHI, Satoshi; YAMADA, Tohru
- 1K5-04** Catalytic Hydrogenation of Carboxamides under Neutral pH Conditions (Grad. Sch. Sci., Nagoya Univ.) MIURA, Takashi; HELD, Ingmar; NOYORI, Ryoji; SAITO, Susumu
- 1K5-05** Development of the Efficient Synthesis of Pyrroles using Ruthenium Complex Catalyst and  $\beta$ -Amino Alcohol (Grad. Sch. Sci., Nagoya Univ.) IIDA, Kazuki; ANDO, Junki; MIURA, Takashi; NOYORI, Ryoji; SAITO, Susumu
- 1K5-06** Newly Designed Cobalt(III) Complex Catalysts for Enantioselective Borohydride Reduction of Aliphatic Ketones(1):Examination of Axial Ligand (Keio Univ.) UGAJIN, Rie; Tsubo, Tatsuyuki; YOKOMORI, Minako; CHEN, Hsiu-hui; KIKUCHI, Satoshi; YAMADA, Tohru

Chair: SAITO, Susumu (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1K5-08, 1K5-09, 1K5-10, 1K5-11, 1K5-12, 1K5-13)
- 1K5-08** Newly Designed Cobalt(III) Complex Catalysts for Enantioselective Borohydride Reduction of Aliphatic Ketones(2):Structure of Catalyst Intermediate and Transition State (Keio Univ.) Tsubo, Tatsuyuki; YOKOMORI, Minako; CHEN, Hsiu-hui; KIKUCHI, Satoshi; YAMADA, Tohru
- 1K5-09** Newly Designed Cobalt(III) Complex Catalysts for Enantioselective Borohydride Reduction of Aliphatic Ketones(3):Catalyst Recycling System (Keio Univ.) CHEN, Hsiu-hui; YOKOMORI, Minako; Tsubo, Tatsuyuki; KIKUCHI, Satoshi; YAMADA, Tohru
- 1K5-10** Aerobic Reduction of Olefins by in situ Generation of Diimide with Flavin-containing Gel Catalysts (Graduate School of Engineering Science, Osaka Univ.) IMADA, Yasushi; MINAMI, Yuichiro; NISHIOKA, Shingo; ANDO, Daichi; NAOTA, Takeshi
- 1K5-11** Synthesis of Chiral  $\beta$ -Lactams Using Enantioselective Reduction of Iminocyclobutenones. (Mie Univ.) ITO, Akinori; HACHIYA, Iwao; SHIMIZU, Makoto
- 1K5-12** Low-valent Titanium-Catalyzed Reduction of Trifluorotoluene Derivatives (Fac. Sci., Gakushuin Univ.) SHIBATA, Michiko; ATOBE, Kohei; MORI, Keiji; AKIYAMA, Takahiko
- 1K5-13** Total Synthesis of 12-HHT and related compounds (Tokyo Institute of Technology; Department of Biomolecular Engineering) TOJO, Toshifumi; WANG, Qian; KOBAYASHI, Yuichi

Chair: KIKUCHI, Satoshi (11:20~11:50)

- \* 11:10-11:20: interval for laptop PC connection.(1K5-15, 1K5-17)
- 1K5-15\*** Chiral Phosphoric Acid Catalyzed Enantioselective Reduction of Imines by Use of Benzothiazoline as a Novel Hydrogen Donor-Application to Deuterated Compound (Fac. Sci., Gakushuin Univ.) SAKAMOTO, Tsubasa; ZHU, Chen; MORI, Keiji; AKIYAMA, Takahiko
- 1K5-17** Chiral Phosphoric Acid Catalyzed Transfer Hydrogenation of Tri-

fluoromethyl Imines: Facile Synthetic Access to Highly Optically Active Trifluoromethylated Amines (Fac. Sci., Gakushuin Univ.) SATO, Takahiro; HENSELER, Alexander; KATO, Masanori; MORI, Keiji; AKIYAMA, Takahiko

### Sunday, March 25, PM

Chair: ISHIKAWA, Hayato (13:00~14:00)

- \* 12:50-13:00: interval for laptop PC connection.(1K5-25, 1K5-26, 1K5-27, 1K5-28, 1K5-30)
- 1K5-25** Synthetic Study of Muscopyridine Analogue via 2-Pyridone Synthesis by Conjugate Addition of  $\beta$ -Keto Ester and/or Cyclic  $\beta$ -Keto Ester to Alkynyl Imine as a Key Reaction (Mie Univ.) MATSUMOTO, Hisae; HACHIYA, Iwao; SHIMIZU, Makoto
- 1K5-26** Synthetic Study of 3-Amino-2-pyridone Derivatives Using Conjugate Addition of 2-Amino Malonic Ester Derivatives to Alkynyl Imines (Mie Univ.) NODA, Shogo; HACHIYA, Iwao; SHIMIZU, Makoto
- 1K5-27** Flow Synthesis of Iminocyclobutenones Using Conjugate Addition Reaction of Ketene Silyl Acetals to Alkynyl Ketimines (Mie Univ.) ITO, Akinori; SATOH, Shunichi; HACHIYA, Iwao; SHIMIZU, Makoto
- 1K5-28\*** Chiral Calcium Chloride-catalyzed Asymmetric 1,4-Addition Reaction (Graduate School of Science, The Univ. of Tokyo) Tsubogo, Tetsu; Yamashita, Yasuhiro; Kobayashi, Shu
- 1K5-30** Development of Asymmetric Mannich-type Reactions Using Calcium Halide Catalysts (Graduate School of Science, The Univ. of Tokyo) Tsubogo, Tetsu; Shimizu, Shota; Kobayashi, Shu

Chair: URAGUCHI, Daisuke (14:10~15:10)

- \* 14:00-14:10: interval for laptop PC connection.(1K5-32, 1K5-33, 1K5-34, 1K5-35, 1K5-36, 1K5-37)
- 1K5-32\*** Asymmetric 1,4-Addition and [3+2] Cycloaddition Reactions Catalyzed by Novel Calcium Salts (Graduate School of Science, The Univ. of Tokyo) HUTKA, Martin; Tsubogo, Tetsu; Kobayashi, Shu
- 1K5-33** Asymmetric Synthesis of Gabapentin Analogues via Organocatalysis (Faculty of Engineering, Hokkaido Univ.) YOSHIDA, Masanori; MASAKI, Erika; HARA, Shoji
- 1K5-34** Diphenylprolinol Silyl Ether as a Catalyst in Asymmetric, Catalytic, and Direct Michael Reaction of  $\alpha, \beta$ -unsaturated Aldehydes (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; UMEMIYA, Shigenobu; OKAMURA, Daichi; ISHIKAWA, Hayato; UCHIMARU, Tadafumi
- 1K5-35** Catalytic asymmetric Michael reaction of prochiral 2-alkoxyphenyl  $\alpha$ -substituted- $\alpha$ -nitroacetate. (College of Engineering, Nihon Univ.; Ouchi Shinko Chemical Industrial Co.Ltd) OTANI, Toyohiro; TAMAI, Yasufumi
- 1K5-36** Michael reaction of substituted nitroolefins and nitrogen nucleophiles catalyzed by chiral Co salen complexes (School of Engineering, Tokai Univ.) OTSUKA, Hiroaki; Umeda, Yuji; Shimura, Tatsuki; KEZUKA, Satoko
- 1K5-37** Enantioselective 1,4-Addition to Enones by Dialkylzinc using Copper-Schiff base system. (Graduate School of Science, Kobe Univ.) EBISU, Yasuhiro; Kawamura, Kenjiro; Hayashi, Masahiko

Chair: YOSHIMURA, Fumihiko (15:20~16:20)

- \* 15:10-15:20: interval for laptop PC connection.(1K5-39, 1K5-40, 1K5-41, 1K5-42, 1K5-43, 1K5-44)
- 1K5-39** Michael Reaction Using Enol Acetates as Metal-free Nucleophile Catalyzed by Combined Lewis Acid of Indium Trichloride and Trimethylsilyl Chloride (Osaka Univ.) ONISHI, Yoshiharu; YONEDA, Yuki; NISHIMOTO, Yoshihiro; YASUDA, Makoto; BABA, Akio
- 1K5-40** Chiral Bis(Imidazolide)Pyridine-CoCl<sub>2</sub> Complex-catalyzed Enantioselective and Diastereoselective Michael Addition of Malonates to Nitroalkenes (Graduate school of Science, Chiba Univ.) SHIRASUGI, Mayu; MISHIRO, Asami; ARAI, Takayoshi
- 1K5-41** C<sub>2</sub> Symmetric Chiral Bis(Imidazolide)Pyridine-Ni(OAc)<sub>2</sub> Complex-catalyzed Enantioselective Iodolactonization (Graduate school of Science, Chiba Univ.) KAJIKAWA, Satoshi; ARAI, Takayoshi
- 1K5-42** Enantioselective Aza-Conjugate Addition of Conjugated Nitroynes Catalyzed by the Chiral Ionic Bronsted Acid (Nagoya Univ.) KIZU, Tomohito; KINOSHITA, Natsuko; URAGUCHI, Daisuke; OOI, Takashi
- 1K5-43** Addition Effect of Catalytic Base to the Asymmetric Thio-Conjugate Addition of Nitroolefins under the Catalysis of the Chiral Ionic Bronsted Acid (Nagoya Univ.) KINOSHITA, Natsuko; NAKASHIMA, Daisuke; URAGUCHI, Daisuke; OOI, Takashi
- 1K5-44** Development of Highly Stereoselective Conjugate Addition Reactions of Electron-Deficient Alkynes (Nagoya Univ.) UEKI, Yusuke; SUGIYAMA, Atsushi; URAGUCHI, Daisuke; OOI, Takashi

Chair: NISHIMOTO, Yoshihiro (16:30~17:30)

- \* 16:20-16:30: interval for laptop PC connection.(1K5-46, 1K5-47, 1K5-48, 1K5-49, 1K5-50, 1K5-51)
- 1K5-46** Enantioselective Michael addition reaction of cyclohexanone to nitroolefins catalyzed by prolinol fluoroalkyl ethers (Niigata Univ. of Pharmacy and Applied Life Sciences) WATANABE, Miki; NAKAMURA, Yutaka; KOJIMA, Masaru; TAKEUCHI, Seiji
- 1K5-47** Stereoselective Intramolecular Conjugate Addition Reaction of  $\alpha$ -cyano carbanion (Hokkaido Univ.) TORIZUKA, Makoto; MORI, Genki;

YOSHIMURA, Fumihiko; TANINO, Keiji

- 1K5-48** Lewis acid-catalyzed conjugate addition of styrenes to  $\beta$ -silylenones (Kyoto Univ.) OKAMOTO, Kazuhiro; TAMURA, Eisuke; OHE, Kouichi
- 1K5-49** Asymmetric Michael addition of alkenyl boronic acid to  $\alpha, \beta$ -unsaturated aldehyde catalyzed by solid-supported peptide (Inst. Ind. Sci., Univ. of Tokyo) SUGIYAMA, Masahide; AKAGAWA, Kengo; KUDO, Kazuaki
- 1K5-50** Enantioselective Nitro-Michael Reaction Catalyzed by Cinchona Alkaloids (Osaka City Univ.) HATANAKA, Yasuo; SEKIKAWA, Tohru; KITAGAWA, Masato; MINAMI, Tatsuya
- 1K5-51** Asymmetric Michael Addition Reaction of Malonate Esters Using a Chiral Thiourea/PPY Catalytic System (Kochi Univ., Faculty of Science) MORITAKA, Maya; KOTSUKI, Hiyoshizo

Chair: OKAMOTO, Kazuhiro (17:40~18:40)

- \* 17:30-17:40: interval for laptop PC connection.(1K5-53, 1K5-54, 1K5-55, 1K5-56, 1K5-57, 1K5-58)
- 1K5-53** Development of Highly Enantioselective Michael Addition of 5H-oxazol-4-ones Catalyzed by Chiral Guanidines Bearing a Hydroxy Group (Univ. of Hyogo) MORITA, Akane; MISAKI, Tomonori; SUGIMURA, Takashi
- 1K5-54** Development of catalytic asymmetric Michael reaction using guanidine/thiourea bifunctional organocatalyst (Tokyo Univ. of Agriculture and Technology) KOJIMA, Kouhei; HORITSUGI, Natsuko; SOHTOME, Yoshihiro; YASUI, Koji; NAGASAWA, Kazuo
- 1K5-55** Development of Esterification Reactions between Acetic Acid and Ethanol in Water Using Hydrophobic Reaction Environments (Graduate School of Science, The Univ. of Tokyo; SHOWA DENKO K.K.) YAGYU, Daisuke; MORI, Yuichiro; IGARASHI, Takeshi; OKUMURA, Yoshikuni; NAKAJO, Tetsuo; KOBAYASHI, Shu
- 1K5-56** Effect of Electrolytes for Esterification Reactions between Acetic Acid and Ethanol in Water (Graduate School of Science, The Univ. of Tokyo; SHOWA DENKO K.K.) MORI, Yuichiro; YAGYU, Daisuke; OHISHI, Tetsuo; IGARASHI, Takeshi; OKUMURA, Yoshikuni; NAKAJO, Tetsuo; KOBAYASHI, Shu
- 1K5-57** Synthesis Study of Curculiol via S<sub>N</sub>2' Substitution of 2-Bromo-2-cyclohexenyl Picolinate (Tokyo Institute of Technology; Department of Biomolecular Engineering) IKOMA, Atsushi; KOBAYASHI, Yuichi
- 1K5-58** Ene-reaction of (Z)-1,4-bis(trimethylsilyl)butatriene with conjugate enones (Sophia Univ.) KURODAS, Yasushi; KANEKO, Masahiro; SUZUKI, Noriyuki; MASUYAMA, Yoshiro

### Monday, March 26, AM

Chair: MASE, Nobuyuki (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2K5-01, 2K5-02, 2K5-03, 2K5-04, 2K5-05, 2K5-06)
- 2K5-01** Synthesis of Thioethers by Indium Triiodide Catalyzed Coupling Reaction of Alkyl Acetates with Thiosilanes (Osaka Univ.) NISHIMOTO, Yoshihiro; OKITA, Aya; YASUDA, Makoto; BABA, Akio
- 2K5-02** Catalytic amide formation reaction between 1:1 mixtures of esters and amines (Kwansei Gakuin Univ.) HAYASHI, Kouta; MIKI, Yuya; TANAKA, Akihiro; TANABE, Yoo
- 2K5-03** Asymmetric Bis(alkoxycarbonylation) Reaction Catalyzed by Palladium in the Presence of Copper(I) Salt (Kanazawa Univ., Graduate School of Natural Science and Technology) MURAI, Moemi; KITAMURA, Satoko; UKAJI, Yutaka; INOMATA, Katsuhiko
- 2K5-04** Kinetic Studies on the Cobalt-Catalyzed Double Addition of Methanol to Terminal Alkynes (Department of Chemistry and Research Center for Materials Science, Nagoya Univ.) USHIMARU, Richiro; TACHINAMI, Tadashi; NISHIMURA, Takuho; NOYORI, Ryoji; NAKA, Hiroshi
- 2K5-05** A New Acetylene Protecting Group (Ph<sub>2</sub>P(O)) for Sonogashira Coupling (Okayama Univ. of Sci.) ORITA, Akihiro; SUZUMA, Yoshinori; PENG, Lifeng; XU, Feng; YANG, Xin; OTERA, Junzo
- 2K5-06** Cascade Wacker-Type Reaction of Enynes (Kochi Univ., Faculty of Science) NAKANO, Keiji; KOYASU, Yuki; NACAHALA, Hiroki

Chair: NAKANO, Keiji (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(2K5-08, 2K5-09, 2K5-10, 2K5-11, 2K5-12, 2K5-13)
- 2K5-08** Asymmetric epoxidation with molecular oxygen as the oxidant (Faculty of Science, Graduate School, and International Institute for Carbon-Neutral Energy Research, Kyushu Univ.) KOYA, Shota; UCHIDA, Tatsuya; KATSUKI, Tsutomu
- 2K5-09** Ti(salalen)-Catalyzed Asymmetric Epoxidation of (Z)-Enol Esters (Faculty of Science, Graduate School and International Institute for Carbon-Neutral Energy Research, Kyushu Univ.) MATSUMOTO, Kazuhiro; FENG, Chao; HANDA, Satoshi; OGUMA, Takuya; KATSUKI, Tsutomu
- 2K5-10** Development of Gas-Liquid Phase Oxidation with Micro-Nano bubble (Shizuoka Univ.) MIZUMORI, Tomoya; MASE, Nobuyuki
- 2K5-11**  $\alpha$ -Hydroxylation of  $\beta$ -Dicarbonyl Compounds Using Molecular Oxygen as an Oxidant Catalyzed by Gold Nanocluster Catalysts (Graduate School of Science, The Univ. of Tokyo) MIYAMURA, Hiroyuki; KOBAYASHI, Shu

**2K5-12<sup>#</sup>** The Discovery of a Novel Metalloenzyme-Like System of Metal Nanoclusters and Catechol Derivatives for Aerobic Oxidation of Amines (Graduate School of Science, The Univ. of Tokyo) YUAN, Hao; YOO, Woo-jin; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

**2K5-13** Development of Sonogashira Coupling Reaction Using Polysilane-supported Palladium Catalysts (Graduate School of Science, The Univ. of Tokyo) OKUMURA, Mikiko; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

Chair: MIYAMURA, Hiroyuki (11 : 20~12 : 10)

\* 11:10-11:20: interval for laptop PC connection.(2K5-15, 2K5-16, 2K5-17, 2K5-18, 2K5-19)

**2K5-15** Iridium-salen-catalyzed asymmetric intermolecular C-H amination (2) (Department of Chemistry, Faculty of Science, Graduate School, Kyushu Univ.; International Institute for Carbon-Neutral Energy Research (I2CNER), Kyushu Univ.) ICHINOSE, Masami; YASUTOMI, Yoichi; SUEMATSUMI, Hidehiro; NISHIOKA, Yota; UCHIDA, Tatsuya; KATSUKI, Tsutomu

**2K5-16** Ru(salen) Catalyzed Enantioselective Intermolecular C-H bond Amination using Azide compounds(1) (Faculty of Science, Graduate School and International Institute for Carbon-Neutral Energy Research, Kyushu Univ.) NISHIOKA, Yota; UCHIDA, Tatsuya; KATSUKI, Tsutomu

**2K5-17** Catalytic Asymmetric Oxidation of pyranoidolizine Derivatives Using Guanidium/Urea Bifunctional Organocatalyst (Tokyo Univ. of Agriculture and Technology) ODAGI, Minami; WATANABE, Tatsuya; NAGAWARA, Kazuo

**2K5-18** Synthesis Study of Biologically Active Molecules with a Conjugated Olefin System by using Regio-selective Swern Oxidation of 1,2-Disiloxy Compounds (Tokyo Institute of Technology; Department of Biomolecular Engineering) ENDO, Mitsuru; KOBAYASHI, Yuichi

**2K5-19** Research on the new synthesis of imides from boranes (Waseda Univ., Graduate school of Advanced Sci. and Engin.) TOMIZAWA, Takehiko; ORIMOTO, Kohei; NAKADA, Masahisa

## Monday, March 26, PM

Chair: MORIYAMA, Katsuhiko (13 : 20~14 : 20)

\* 13:10-13:20: interval for laptop PC connection.(2K5-27, 2K5-28, 2K5-29, 2K5-30, 2K5-32)

**2K5-27** Development of catalyst for asymmetric epoxidation utilizing axial-chirality of HHPD group. (School of Science and Technology, Kwasei Gakuin Univ.) HIGASA, Sho; KISHI, Masaya; HIROKANE, Tsukasa; YAMADA, Hidetoshi

**2K5-28** Aerobic Oxidation of Alcohols and Amines Catalyzed by Ionic TEMPO (Graduate School of Engineering, Nagoya Institute of Technology) NAKANISHI, Makoto; HIRASHITA, Tsunehisa; ARAKI, Shuki

**2K5-29** Thiourea-Catalyzed Baeyer-Villiger Oxidation of Cyclobutanones with Hydrogen Peroxide (Kochi Univ., Faculty of Science) SASAKURA, Niiha; KOTSUKI, Hiroyoshi

**2K5-30\*** Regioselective Hydrosilylation of Alkyne using Vinyl Silyl Group as a Directing Group (Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ., Inst. for Materials Chemistry and Engineering, Kyushu Univ.) KAWASAKI, Yuuya; ISHIKAWA, Youhei; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

**2K5-32** Asymmetric Ozone Oxidation of Alkyne having Chiral Silyl Group (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) IGAWA, Kazunobu; NISHINO, Kosuke; KAWASAKI, Yuuya; TOMOOKA, Katsuhiko

Chair: TOMOOKA, Katsuhiko (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(2K5-34, 2K5-37, 2K5-38)

**2K5-34** Young Scholar Lectures of CSJ Hypervalent Iodine-Catalyzed Enantioselective Oxidative Cyclizations (Grad. Sch. Eng., Nagoya Univ.) UYANIK, Muhammet

**2K5-37<sup>#</sup>** Synthesis of Enantioenriched Aziridines from Alkenes and 2-(Trimethylsilyl)ethanesulfonyl Azide (SESN3) with A New Ru(salen) Complex (Kyushu Univ.; International Institute for Carbon-Neutral Energy Research) KIM, Chungsik; KATSUKI, Tsutomu

**2K5-38\*** Iron-Catalyzed Aerobic Oxidative Kinetic Resolution of Racemic Secondary Alcohols (Kyushu Univ.) OGUMA, Takuya; KUNISU, Takashi; KATSUKI, Tsutomu

Chair: HIRASHITA, Tsunehisa (15 : 40~16 : 30)

\* 15:30-15:40: interval for laptop PC connection.(2K5-41, 2K5-42, 2K5-43, 2K5-44, 2K5-45)

**2K5-41** Asymmetric Synthesis of 4,8-Dihydroxyisochromanone Using Hypervalent Iodine (Univ. of Hyogo) MORI, Kazuhiro; FUJITA, Morifumi; SUGIMURA, Takashi

**2K5-42** Catalysis of Chiral Hypervalent Iodine in Enantioselective Oxylation (Univ. of Hyogo) SHIMOGAKI, Mio; MORI, Kazuhiro; FUJITA, Morifumi; SUGIMURA, Takashi

**2K5-43** TEMPO-mediated Oxidation of Alcohols to Aldehydes or Ketones with Novel Ion-Supported (Diacetoxyiodo)benzenes (Chiba Univ. Graduate School of Science) IINUMA, Masataka; SUZUKI, Yusuke; MORIYAMA, Katsuhiko; TOGO, Hideo

**2K5-44** One-pot Conversion into Ketones with Bromide and Aldehyde.

(Chiba Univ. Graduate School of Science) DOHI, Soya; USHIJIMA, Sousuke; MORIYAMA, Katsuhiko; TOGO, Hideo

**2K5-45** Iodobenzene-Catalyzed Cyclization of *N*-Methoxy-2-arylethanesulfonamides with Oxone (Chiba Univ. Graduate School of Science) KIKUI, Hiroki; MORIYAMA, Katsuhiko; TOGO, Hideo

Chair: FUJITA, Morifumi (16 : 40~17 : 20)

\* 16:30-16:40: interval for laptop PC connection.(2K5-47, 2K5-48, 2K5-49, 2K5-50)

**2K5-47** Iodide Ion-Catalyzed intramolecular oxidative  $\alpha$ -Acyloxylation of Ketones using Oxygen Gas as Oxidant. (Kochi Univ.) EGO, Mizuki; NAGANO, Takashi

**2K5-48** Swern Oxidation of Alcohols with Ion-Supported Methyl Sulfoxides (Chiba Univ., graduate School of Science) TABATA, Masayuki; TSUCHIYA, Daisuke; MORIYAMA, Katsuhiko; TOUGOU, Hideo

**2K5-49** Direct Benzylic Carbonylation of Alkylbenzenes using Alkali Metal Bromides (Chiba Univ., Graduate School of Science) TAKEMURA, Misato; MORIYAMA, Katsuhiko; TOGO, Hideo

**2K5-50** Hofmann type Rearrangement of Cyclic Imides using Hypervalent Iodine (Chiba Univ., Graduate School of Science) ISHIDA, Kazuma; MORIYAMA, Katsuhiko; TOGO, Hideo

## Tuesday, March 27, PM

Chair: SAKAKURA, Akira (13 : 00~14 : 00)

\* 12:50-13:00: interval for laptop PC connection.(3K5-25, 3K5-26, 3K5-28, 3K5-30)

**3K5-25** Mechanistic Investigations on Organic Reactions Using Mass Spectrometry (Graduate School of Science, The Univ. of Tokyo) YAMAGUCHI, Miyuki; KOBAYASHI, Shu

**3K5-26\*** Catalytic Allylic Substitution Reactions and Heck Reactions of Simple Alkenes (Massachusetts Institute of Technology) MATSUBARA, Ryosuke; JAMISON, Timothy; GUTIERREZ, Alicia

**3K5-28\*** Development of zinc hydroxide-catalyzed  $\alpha$ -selective allylation of aldehydes in aqueous media (Graduate School of Science, The Univ. of Tokyo) ENDO, Toshimitsu; UENO, Masaharu; KOBAYASHI, Shu

**3K5-30** The solvent effect on allylation of aldehydes with allylboronates (Graduate School of Science, The Univ. of Tokyo) YOSHINO, Takumi; ENDO, Toshimitsu; UENO, Masaharu; KOBAYASHI, Shu

Chair: CHIDA, Noritaka (14 : 10~15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(3K5-32, 3K5-33, 3K5-36)

**3K5-32** Silver(I) Oxide-Catalyzed Allylation Reactions of Aldehydes with Allylsilanes in Water (Graduate School of Science, The Univ. of Tokyo) UENO, Masaharu; KOBAYASHI, Shu

**3K5-33** Young Scholar Lectures of CSJ Development of synthetic reactions by efficient activation of carbon-hydrogen bonds (The Univ. of Tokyo) YAMASHITA, Yasuhiro

**3K5-36\*** Direct Use of Esters into Mukaiyama Aldol Reaction and Hosomi-Sakurai Reaction Using Indium Triiodide Catalyst and Hydrosilanes (Osaka Univ.) INAMOTO, Yoshihiro; NISHIMOTO, Yoshihiro; YASUDA, Makoto; BABA, Akio

Chair: UENO, Masaharu (15 : 20~16 : 20)

\* 15:10-15:20: interval for laptop PC connection.(3K5-39, 3K5-41, 3K5-42, 3K5-43, 3K5-44)

**3K5-39\*** Ion-Paired Chiral Ligands for Asymmetric Palladium Catalysis (Nagoya Univ.) ITO, Mitsunori; OHMATSU, Kohsuke; OOI, Takashi

**3K5-41** Ion-Paired Chiral Ligands for Asymmetric Palladium-Catalyzed Allylation of Benzofuranones (Nagoya Univ.) KUNIEDA, Tomoatsu; OHMATSU, Kohsuke; OOI, Takashi

**3K5-42** Chiral Onium-Phosphine Hybrid Ligands for Palladium-Catalyzed Cyclizations of 5-Vinyloxazolidinones and Activated Alkenes (Nagoya Univ.) IMAGAWA, Naomichi; OHMATSU, Kohsuke; OOI, Takashi

**3K5-43** Anionic tethered azolium salts derived from  $\alpha$ -amino acid for enantioselective allylic substitution (Kansai Univ.) INOUCHI, Toru; TATSUSHIRO, Ayako; SAKAGUCHI, Satoshi

**3K5-44** Synthesis of Modified Tamoxifen Derivatives Using Three-component Coupling Reaction among Aromatic Aldehydes, Crotyl Silane and Methoxybenzene Promoted by Lewis Acid Catalyst (Tokyo Univ. of Science) NAKATA, Kenya; WANG, Yanwen; UMEDA, Eri; WATANABE, Chihiro; SHIINA, Isamu

Chair: OOI, Takashi (16 : 30~17 : 20)

\* 16:20-16:30: interval for laptop PC connection.(3K5-46, 3K5-47, 3K5-48, 3K5-49, 3K5-50)

**3K5-46** Sequential Nucleophilic Addition to *N*-Alkoxyamide (Keio Univ.) YANAGITA, Yuta; SHIROKANE, Kenji; NAKAMURA, Hugh; WADA, Takamasa; SATO, Takaaki; CHIDA, Noritaka

**3K5-47** Direct Chemoselective Allylation of Inert Amide Carbonyls (Keio Univ.) ODA, Yukiko; SATO, Takaaki; CHIDA, Noritaka

**3K5-48** Asymmetric Allylation Reaction of Aromatic Aldehydes Utilizing Chiral Bisformamide-Type Organocatalysts and Additives (Department of Chemistry, National Defense Academy) TANIMURA, Yuya; ISHIMARU, Kaori

- 3K5-49** Chiral (Hypo)iodite-Catalyzed Enantioselective Oxidative Cycloetherification to 2-Acylchroman Derivatives with TBHP (Nagoya Univ.) HAYASHI, Hiroki; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3K5-50** Chiral (hypo)iodite-catalyzed enantioselective intramolecular oxidative amination to 2-acylpyrrolidine derivatives (Nagoya Univ.) SUZUKI, Daisuke; UYANIK, Muhammet; ISHIHARA, Kazuaki

Chair: YAMASHITA, Yasuhiro (17:30~18:30)

- \* 17:20-17:30: interval for laptop PC connection.(3K5-52, 3K5-53, 3K5-54, 3K5-56, 3K5-57)
- 3K5-52** (Hypo)iodite-Catalyzed Oxidative Biaryl Coupling of Phenols with Hydrogen Peroxide (Nagoya Univ.) NAGATA, Dai; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3K5-53** Direct Synthesis of  $\alpha$ -Trisubstituted Amines from Ketones Using N-Methoxy Amines (Keio Univ.) KUROSAKI, Yusuke; SHIROKANE, Kenji; TSUKADA, Junichi; SATO, Takaaki; CHIDA, Noritaka
- 3K5-54\*** Chiral Hypervalent Iodine(III)-Catalyzed Enantioselective Kita Spirolactonization of Phenol Derivatives with *m*-CPBA (UNagoya Univ.) YASUI, Yasui; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3K5-56** IBS-Catalyzed Oxidation of Aromatic Compounds with Oxone (Nagoya Univ.) MUTSUGA, Tatsuya; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3K5-57** Alkali or Alkaline Earth Metal Salt Catalysis for Baeyer-Villiger Oxidation with Hydrogen Peroxide (Nagoya Univ.) NAKASHIMA, Daisuke; UYANIK, Muhammet; ISHIHARA, Kazuaki

### Wednesday, March 28, AM

Chair: OHMORI, Ken (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4K5-01, 4K5-02, 4K5-03, 4K5-04, 4K5-05, 4K5-06)
- 4K5-01** Gold-catalyzed Annulation of 1-Arylbut-3-yn-1-ol.Synthesis of Substituted Naphthalenes (Graduate School of Sci., Osaka City Univ.) SHIMODA, Airi; OKADA, Takuya; SHINADA, Tetsuro; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi
- 4K5-02** Acid-catalyzed Intramolecular Chirality Transferring Cyclization Reaction of  $\alpha$ -Siloxy- $\alpha$ -alkenylsilanes (Graduate School of Sci., Osaka City Univ.) IKEDA, Naoko; HIGASHINO, Masato; SHINADA, Tetsuro; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi
- 4K5-03** Synthesis of Benzofurans via Intramolecular Cyclization of  $\alpha$ -Alkynylphenol Derivatives Catalyzed by Silver Nitrate (Fac. Sci., Gakushuin Univ.) KAJIWARA, Yuki; MORI, Keiji; AKIYAMA, Takahiko
- 4K5-04** Palladium-Catalyzed Oxidative Dihalocyclization of 1,6-Enyne (Kochi Univ., Faculty of Science) NACAHALA, Hiroki; NAKANO, Keiji
- 4K5-05** Synthesis of 2H-pyran-5-carboxylates and their transformations (Okayama Univ.; Toyama National College of Technology) PENG, Wei; MD.IMRAN, Hossain; HAYASHI, Ikuya; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 4K5-06** High performance synthesis of indolequinoline for antimalaria agents (Okayama Univ.; Toyama National College of Technology) WANG, Li; LU, Wen-jie; TAKAHARA, Yoshito; PANG, Cuiqing; MEI, Zhen-wu; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu

Chair: SAKAGUCHI, Kazuhiko (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4K5-08, 4K5-09, 4K5-10, 4K5-11, 4K5-12, 4K5-13)
- 4K5-08** Regioselective Claisen reaction of methylketones and application to heterocycle synthesis (Okayama Univ.; Toyama National College of Technology) WANG, Nig; MISUMI, Ryuhei; PANG, Cuiqing; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 4K5-09** FeCl<sub>3</sub> dissolved in an imidazolium salt and benzotrifluoride (FeM-BTF procedure): Application to aza-Prins cyclization and sequential transformation of produced piperidines (Niigata Univ., Graduate school of Science and technology, Faculty of Science) OSAWA, Chika; HASEGAWA, Eietsu
- 4K5-10** Hydroiodination of  $\gamma$ -Alkoxy Alkynyl Ketone Derivatives Promoted by Titanium Tetraiodide and Its Applications (Mie Univ.) ITO, Shingo; KAYAKI, Shota; HACHIYA, Iwao; SHIMIZU, Makoto
- 4K5-11** Regioselective Prins-type Reaction of  $\gamma$ -Alkoxy Alkynyl Ketone Derivatives by Titanium Tetraiodide (Mie Univ.) ITO, Shingo; HACHIYA, Iwao; SHIMIZU, Makoto
- 4K5-12** Efficient Access to Polycyclic Compound by Successive Cycloaddition of Isobenzofurans (Department of Chemistry, School of Science and Technology, Kwansei Gakuin Univ.) HANEDA, Hiroshi; HAMURA, Toshiyuki
- 4K5-13** Novel approach to carbocycle spiro compounds: Ring expansion reactions of arylbenzocyclobutenes. (Graduate School of Science and Technology, Tokyo Institute of Technology) SAKAI, Yusuke; HAYASHI, Taiki; FUKUI, Nobuaki; OHMORI, Ken; SUZUKI, Keisuke

Chair: NAKANO, Keiji (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4K5-15, 4K5-17, 4K5-19, 4K5-20)
- 4K5-15\*** Ring Expansion Reactions of Cyclopropylbenzocyclobutenes to Medium-sized Ring Compounds (Tokyo Institute of Technology) FUKUI, Nobuaki; OHMORI, Ken; SUZUKI, Keisuke

- 4K5-17\*** Asymmetric Synthesis of Heterocycles via Cyclization by Bifunctional Organocatalysts (Kyoto Univ.) ASANO, Keisuke; OKAMURA, Takaaki; FUKATA, Yukihiro; MIYAJI, Ryota; MATSUBARA, Seijiro
- 4K5-19** Novel Stereoselective Synthesis of the Spiroketal Structure by Cascade Cyclization using Transition metal-catalyst (Univ. of Toyama) MIYAZAWA, Masahiro; SANGA, Takao; NAKAMURA, Syo; YOSHIHARA, Syoko; YOKOYAMA, Hajime; HIRAI, Yoshiro
- 4K5-20** Direct synthesis of organic azides from alcohols with guanidino diazonium salt (Kyushu Institute of Technology) KOGA, Tatsuya; YANO, Masakazu; OKAUCHI, Tatsuo; KITAMURA, Mitsuru

## Room K6

12th Bldg. 12-108

### Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Sunday, March 25, AM

Chair: ASAMI, Masatoshi (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(1K6-01, 1K6-02, 1K6-03, 1K6-04, 1K6-05, 1K6-06)
- 1K6-01** Enantioselective Synthesis on the Single Crystal Surface of Calcium Sulfate Dihydrate (Gypsum) in Conjunction with Asymmetric Autocatalysis (Tokyo Univ. of Science) UCHIDA, Mizuki; KAIMORI, Yoshiyasu; SASAGAWA, Taisuke; KAWASAKI, Tsuneomi; SOAI, Kenso
- 1K6-02** Enantioselective C-C Bond Forming Reaction Using Enantiotopic Crystal Surface of 2-(tert-Butyldimethylsilylethynyl)pyrimidine-5-carbaldehyde Followed by Asymmetric Autocatalysis (Tokyo Univ. of Science) AMIHARA, Ai; IKAGA, Takayuki; KAMIMURA, Sayaka; KAWASAKI, Tsuneomi; SOAI, Kenso
- 1K6-03** Enantioselective Hydrophosphonylation of  $\alpha$ ,  $\beta$ -Unsaturated Ketones Catalyzed by Chiral Magnesium(II) Binaphtholates (Nagoya Univ., CREST) HORIBE, Takahiro; HATANO, Manabu; ISHIHARA, Kazuaki
- 1K6-04** Highly Regioselective C-Alkylation to  $\alpha$ -Imino Esters with Grignard Reagent-Derived Zinc(II) Ate Complexes (Nagoya Univ., CREST) YAMASHITA, Kenji; MIZUNO, Tomokazu; ITO, Orii; HATANO, Manabu; ISHIHARA, Kazuaki
- 1K6-05** Quantitative Stereodirecting Power of  $\beta$ -Amino Alcohols in Asymmetric Autocatalysis (Tokyo Univ. of Science) WATABE, Naoki; NOTO, Ryou; WAKUSIMA, Yuki; KAWASAKI, Tsuneomi; SOAI, Kenso
- 1K6-06** Catalytic Enantioselective Alkylation of Aldehydes by Using Functionalized Organozinc Halide Reagents (Kyoto Institute of Technology) KINOSHITA, Yuichiro; HARADA, Toshiro

Chair: UKAJI, Yutaka (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1K6-08, 1K6-09, 1K6-10, 1K6-11, 1K6-12, 1K6-13)
- 1K6-08** Asymmetric Induction by Chiral Oxygen Isotopomers of Hydrobenzoin in Conjunction with Asymmetric Autocatalysis (Tokyo Univ. of Science) TAKANO, Shizuka; OKANO, Yasui; SUZUKI, Etsuharu; OJI, Shotaro; KAWASAKI, Tsuneomi; SOAI, Kenso
- 1K6-09** Synthesis of Chiral Oxygen Isotopomer of Glycerin and Its Usage as Chiral Trigger for Asymmetric Autocatalysis (Tokyo Univ. of Science) OJI, Shotaro; SUZUKI, Etsuharu; TAKANO, Shizuka; KAWASAKI, Tsuneomi; SOAI, Kenso
- 1K6-10** Reversal of Enantioselectivity Using Two Chiral Catalysts Possessing the Same Face-selectivity in Asymmetric Autocatalysis (5) (Tokyo Univ. of Science) SHIOZAWA, Kazuya; HARA, Atsushi; WAKUSHIMA, Yuki; LUTZ, Francois; KAWASAKI, Tsuneomi; SOAI, Kenso
- 1K6-11** Catalytic Enantioselective Alkylation of Aldehydes by Using Alkylboron Reagents (Kyoto Institute of Technology) KAWASAKI, Hiroki; KUMAR, Ravindra; HARADA, Toshiro
- 1K6-12\*** Catalytic Enantioselective Alkylation of Aldehydes by Using Functionalized Alkylboron Reagents (Kyoto Institute of Technology) KUMAR, Ravindra; KAWASAKI, Hiroki; HARADA, Toshiro
- 1K6-13** Catalytic enantioselective alkynylation of aldehydes by the use of chiral 1,4-amino alcohols having chiral amination moiety (Yokohama National Univ.) MIYAJIMA, Akane; HASOME, Ayano; YACHI, Naoyuki; HOSODA, Naoya; ASAMI, Masatoshi

Chair: YAMANAKA, Masahiro (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(1K6-15, 1K6-16, 1K6-17, 1K6-18, 1K6-19, 1K6-20)
- 1K6-15** Integrated Reactions Using Tandem N, N-Dialkylation to the  $\alpha$ -Sulfoximino Ester. (Mie Univ.) HATA, Shingo; SHIMIZU, Makoto
- 1K6-16** Umpolung N,N-Dialkylation Reaction of  $\alpha$ -Sulfoximino Ester (Mie Univ.) HATA, Shingo; MAEDA, Tatsuya; SHIMIZU, Makoto
- 1K6-17\*** Iron/Amino Acid Catalyzed Direct N-alkylation of Amines with Alcohols (Grad. Sch. Sci., Nagoya Univ.) FOO, Siang Wan; ZHAO, Yingsheng; NOYORI, Ryoji; SAITO, Susumu



- 1K6-18** Selective N-Alkylation of Amines with Alcohols by Using Organocatalysis (Grad. Sch. Sci., Nagoya Univ.) OISHI, Shunsuke; DU, Ya; NOYORI, Ryoji; SAITO, Susumu
- 1K6-19** Structure of Asymmetric Autocatalyst Based on X-ray Single Crystal Structure Analysis (2) (Tokyo Univ. of Science) HARA, Atsushi; TOBITA, Takayuki; SASAGAWA, Taisuke; KAWASAKI, Tsuneomi; SOAI, Kenso
- 1K6-20** Asymmetric benzoin condensation promoted by chiral triazolium precatalystbearing a pyridine moiety (Kanazawa Univ., Graduate School of Natural Science and Technology) TABATAKE, Yuhta; SOETA, Takahiro; INOMATA, Katsuhiko; UKAJI, Yutaka

Sunday, March 25, PM

Chair: SAITO, Susumu (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1K6-28, 1K6-31, 1K6-32, 1K6-33)
- 1K6-28** Young Scholar Lectures of CSJ The design of acyclic guanidine/thiourea organocatalysts: their applications to catalytic asymmetric reactions (Tokyo Univ. of Agri. and Technol.) SOHTOME, Yoshihiro
- 1K6-31** Asymmetric Autocatalysis Initiated by Chiral Crystal of Achiral 2-Thenoyl Glycine (Tokyo Univ. of Science) ABE, Koichiro; MINEKI, Hiroko; KAWASAKI, Tsuneomi; KAHR, Bart; SOAI, Kenso
- 1K6-32** Asymmetric Autocatalysis Induced by Chiral Crystal of Adeninium Dinitrate. (Tokyo Univ. of Science) HANASAKI, Taichi; MINEKI, Hiroko; KAWASAKI, Tsuneomi; SOAI, Kenso
- 1K6-33** Generation of Chirality by the Dehydration of Crystal Water of Achiral Nucleobase Cytosine Monohydrate (Tokyo Univ. of Science) MINEKI, Hiroko; HAKODA, Yuko; SUZUKI, Kenta; KAWASAKI, Tsuneomi; SOAI, Kenso

Chair: KAWASAKI, Tsuneomi (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(1K6-35, 1K6-36, 1K6-37, 1K6-38, 1K6-39)
- 1K6-35** N-Alkylation of  $\alpha$ -Imino Ester Followed by Electrophilic Addition Reaction and Its Flow Synthesis. (Mie Univ.) SANO, Takanori; MIZOTA, Isao; SHIMIZU, Makoto
- 1K6-36** Tandem Reaction of N-Alkylation and Regioselective Electrophilic Addition of  $\beta, \gamma$ -Alkynyl- $\alpha$ -iminoester (Mie Univ.) KAMIMURA, Satoshi; SHIMIZU, Makoto
- 1K6-37** Tandem synthesis of quaternary  $\alpha$ -amino acid derivatives using N-Alkylation and oxidation of Iminomalonates (Mie Univ.) MUSHIKA, Miki; SHIMIZU, Makoto
- 1K6-38** The dinuclear Mg-bisamidinate catalyzed enantioselective alkynylation of  $\alpha$ -ketoesters (Department of Chemistry Rikkyo Univ.) TAKAHASHI, Satoru; YAMANAKA, Masahiro
- 1K6-39\*** N-Heterocyclic Carbene-Catalyzed Umpolung of  $\alpha, \beta$ -Unsaturated Ester (Nagoya Institute of Technology) MATSUOKA, Shin-ichi; KATO, Terumasa; NAMERA, Shoko; TOCHIGI, Yusuke; OTA, Yoshiya; TAKAGI, Koji; SUZUKI, Masato

Chair: MORI, Keiji (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(1K6-42, 1K6-43, 1K6-44, 1K6-45, 1K6-46, 1K6-47)
- 1K6-42** Horner-Wadsworth-Emmons Reaction Using an Umpolung Reaction of  $\alpha$ -Imino Phosphonates (Mie Univ.) TATEISHI, Masasato; HATA, Shingo; SHIMIZU, Makoto
- 1K6-43** Carbon-Carbon Bond Formation Reaction Using Umpolung Reaction to  $\alpha$ -Imino Thioester (Mie Univ.) UEDA, Chihiro; MIZOTA, Isao; SHIMIZU, Makoto
- 1K6-44** Cyanomethylation of Aldehydes Using Dimethyl Sulfoxide and Molecular Sieves 4A (Faculty of Science, Ibaraki Univ.) BUNIUCHI, Kouhei; MORITA, Yuko; ORIYAMA, Takeshi
- 1K6-45** Practical Catalytic Enantioselective Synthesis of Diaryl-, Aryl Heteroaryl-, and Diheteroarylmethanols (Kyoto Institute of Technology) UENISHI, Ami; MORIMOTO, Haruki; HARADA, Toshiro
- 1K6-46** stereoselective synthesis and research of enantiomerically pure double-stranded cyclophanes (Graduate School of Science and Technology, Tokyo Institute of Technology) SAVUKYNAS, Vaidas; HOMMA, Sunao; TAKIGUCHI, Hiromu; OHMORI, Ken; SUZUKI, Keisuke
- 1K6-47** Catalytic generation of benzyne and its regioselective functionalization (Department of Chemistry, School of Science and Technology, Kwansai Gakuin Univ.) TAKEDA, Asa; CHUDA, Yu; SUZUKI, Keisuke; HAMURA, Toshiyuki

Chair: OHMORI, Ken (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(1K6-49, 1K6-50, 1K6-51, 1K6-52, 1K6-53, 1K6-54)
- 1K6-49** Asymmetric Friedel-Crafts Reaction of Indoles and Isatin-Derived Nitroalkenes (Chiba Univ.) YAMAMOTO, Yushi; AWATA, Atsuko; ARAI, Takayoshi
- 1K6-50** Exo'-selective catalytic asymmetric [3+2]-cycloaddition: construction of pyrrolidiny spirooxindole (Graduate School of Science, Chiba Univ.) AWATA, Atsuko; YAMAMOTO, Yushi; ARAI, Takayoshi
- 1K6-51** Asymmetric one-pot sequential Friedel-Crafts-type alkylation/oxamination catalyzed by peptide and enzyme (Inst. Ind. Sci., Univ. of Tokyo)

UMEZAWA, Ryota; AKAGAWA, Kengo; KUDO, Kazuaki

- 1K6-52** Addition of nitromethane-Nef reaction for installation of formyl group (Okayama Univ.; Toyama National College of Technology) WANG, Li; FENG, Xing-wen; LU, Wen-ji; HAYASHI, Ikuya; EDAZAWA, Yoshiaki; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 1K6-53** The Asymmetric Friedel-Crafts of Sesamole and Nitrostyrene by Means of Chiral Metal Phosphate (Fac. Sci., Gakushuin Univ.) WAKAZAWA, Manari; MORI, Keiji; AKIYAMA, Takahiko
- 1K6-54** Development of cationic Cu-bisamidine catalyzed asymmetric Friedel-Crafts alkylation of indoles with nitroalkenes (Rikkyo Univ.) HOSHINO, Masaya; YAMANAKA, Masahiro

Monday, March 26, AM

Chair: SHIRAKAWA, Seiji (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2K6-01, 2K6-02, 2K6-03, 2K6-04, 2K6-05, 2K6-06)
- 2K6-01** Development of Novel Chiral P3 Phosphazene Base Catalysts (Graduate School of Science, Tohoku Univ.) GOTO, Kengo; TERADA, Masahiro
- 2K6-02** Construction of Unsymmetrical Binaphthyl Skeletons Based on Ferrier Type Rearrangement Catalyzed by Organic Super Base (Graduate School of Science, Tohoku Univ.) DAN, Katsunori; TERADA, Masahiro
- 2K6-03** Asymmetric Morita-Baylis-Hillman reactions of 2-cyclohexen-1-one catalyzed by chiral biaryl-based bis(thiourea) organocatalysts (Fukuoka Univ. of Education) NAKAYAMA, Yuki; ITO, Katsuji
- 2K6-04** Enantio- and Diastereoselective Synthesis of Piperidines by Coupling of Four Components in a One-Pot Sequence Involving Diphenylprolinol Silyl Ether Mediated Michael Reaction (Faculty of Engineering, Tokyo Univ. of Science) URUSHIMA, Tatsuya; SAKAMOTO, Daisuke; ISHIKAWA, Hayato; HAYASHI, Yujiro
- 2K6-05** Asymmetric, One-pot Four Components Coupling Reaction for the Synthesis of Substituted Tetrahydropyran Catalyzed by Asymmetric Organo Catalyst (Faculty of Engineering, Tokyo Univ. of Science) ISHIKAWA, Hayato; SAWANO, Satoshi; YASUI, Yusuke; SHIBATA, Yusuke; HAYASHI, Yujiro
- 2K6-06** High Pressure Organic Chemistry: Chiral Thiourea-catalyzed Asymmetric Diels-Alder Reaction of Active Methylene Compounds (Kochi Univ., Faculty of Science) MATSUGI, Aoi; YAMAUCHI, Tomoyuki; KOTSUKI, Hiyoishi

Chair: ISHIKAWA, Hayato (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2K6-08, 2K6-09, 2K6-11, 2K6-12, 2K6-13)
- 2K6-08** Asymmetric Conjugate Addition of  $\alpha$ -Nitro Esters under Neutral Phase-Transfer Conditions with Bifunctional Ammonium Salt (Department of Chemistry, Graduate School of Science, Kyoto Univ.) TERAOKA, Shogo; SHIRAKAWA, Seiji; MARUOKA, Keiji
- 2K6-09\*** Catalytic Asymmetric Synthesis of Axially Chiral Anilides by Phase-Transfer Catalyzed Reactions (Department of Chemistry, Graduate School of Science, Kyoto Univ.) LIU, Kun; SHIRAKAWA, Seiji; MARUOKA, Keiji
- 2K6-11** Asymmetric [3+2] Cycloaddition of gamma-Hydroxy-alpha,beta-Unsaturated Ketones with Isocyanates by Bifunctional Organocatalysts (Kyoto Univ.) FUKATA, Yukihiko; ASANO, Keisuke; MATSUBARA, Seiji
- 2K6-12** Asymmetric Synthesis of Indoline Derivatives via Intramolecular Aza-Michael Addition Reaction by Bifunctional Organocatalysts (Kyoto Univ.) MIYAJI, Ryota; ASANO, Keisuke; MATSUBARA, Seiji
- 2K6-13** Direct Enantioselective Amination of  $\alpha$ -Ketoesters Catalyzed by an Axially Chiral Guanidine Base (Graduate School of Science, Tohoku Univ.) ANDO, Kenichi; AMAGAI, Kei; UBE, Hitoshi; KWON, Eunsang; TERADA, Masahiro

Chair: NAGASAWA, Kazuo (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2K6-15, 2K6-16, 2K6-17, 2K6-18)
- 2K6-15** Development of efficient peptide organocatalyst by novel screening method (1) (Inst. Ind. Sci., Univ. of Tokyo) SAKAI, Nobutaka; NAGAMINE, Iman Sho; AKAGAWA, Kengo; KUDO, Kazuaki
- 2K6-16** Development of efficient peptide organocatalyst by novel screening method (2) (Inst. Ind. Sci., Univ. of Tokyo) NAGAMINE, Iman Sho; SAKAI, Nobutaka; AKAGAWA, Kengo; KUDO, Kazuaki
- 2K6-17** Catalytic C-C bond formations of ketene silyl acetals with nitriles promoted by pentafluorophenylammonium trifluoromethanesulfonylimide catalyst (School of Science and Technology, Kwansai Gakuin Univ.) FUJISAWA, Yuto; TAMAGAKI, Hiroaki; TANABE, Yoo
- 2K6-18** Young Scholar Lectures of CSJ Asymmetric syntheses using heteroarenesulfonyl group and thier applications (Nagoya Inst. of Tech.) NAKAMURA, Shuichi

Monday, March 26, PM

Chair: KAWAI, Hiroyuki (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2K6-28, 2K6-31, 2K6-32, 2K6-33)

- 2K6-28** Young Scholar Lectures of CSJ use of diazocarbonyl compounds in acid catalysis (Grad. Sch. Sci., Kyoto Univ.) HASHIMOTO, Takuya
- 2K6-31** Regioselective 1,6-addition to  $\alpha, \beta, \gamma, \delta$ -unsaturated aldehyde catalyzed by resin-supported peptide. (Inst. Ind. Sci., Univ. of Tokyo) SEN, Jun; AKAGAWA, Kengo; KUDO, Kazuaki
- 2K6-32** Bronsted Base/Chiral Lewis Acid Cooperative Catalysis in Three Component Reaction for Asymmetric Synthesis of Dihydrocoumarin Derivatives (Graduate School of Science, Tohoku Univ.) KIMURA, Kyoko; ANDO, Kenichi; TERADA, Masahiro
- 2K6-33** Asymmetric, Organocatalytic Reaction: An Effect of Diphenylprolinol Silyl Ether for Stereo Control (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; OKAMURA, Daichi; GOTOH, Hiroaki; YAMAZAKI, Tatsuya; ISHIKAWA, Hayato; UCHIMARU, Tadahumi

Chair: MATSUBARA, Seijiro (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(2K6-35, 2K6-37, 2K6-38, 2K6-40)
- 2K6-35\*** Asymmetric  $\alpha$ -amination of aldehydes by resin-supported peptide catalyst (Kaneka Co.; Inst. Ind. Sci., Univ. of Tokyo) TANAKA, Tatsuyoshi; AKAGAWA, Kengo; MITSUDA, Masaru; KUDO, Kazuaki
- 2K6-37** Asymmetric organic transformations using poly(amino acids) as primary amine catalysts (Inst. Ind. Sci., Univ. of Tokyo) SUZUKI, Rieko; AKAGAWA, Kengo; KUDO, Kazuaki
- 2K6-38\*** development of enantioselective synthesis of optically active organophosphorus compounds using phosphite nucleophile. (Nagoya Institute of Technology) HAYASHI, Masashi; NAKAMURA, Shuichi; SHIBATA, Norio
- 2K6-40** Catalytic asymmetric ring-opening reaction of meso-aziridine with phosphite. (Nagoya Institute of Technology) SHIOMI, Noriyuki; HAYASHI, Masashi; NAKAMURA, Shuichi; SHIBATA, Norio

Chair: NISHINA, Yuta (15:50~16:40)

- \* 15:40-15:50: interval for laptop PC connection.(2K6-42, 2K6-43, 2K6-44, 2K6-45, 2K6-46)
- 2K6-42** Novel Synthesis of Bis(trifluoromethyl)-Substituted Acenes (1) (Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) YAMADA, Shigeyuki; KINOSHITA, Keita; IWAMA, Shota; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 2K6-43** Novel Synthesis of Bis(trifluoromethyl)-Substituted Acenes (2) (Faculty School of Engineering, Tokyo Univ. of Agriculture and Technology) IWAMA, Shota; YAMADA, Shigeyuki; KINOSHITA, Keita; TAKASUKA-KAWASAKI, Tomoko; YAMAZAKI, Takashi
- 2K6-44** Synthesis of the Trifluoromethylsulfones By Decarboxylative Allylation Reaction (Graduate School of Engineering, Nagoya Institute of Technology) FUKUSHI, Kazunobu; FURUKAWA, Tatsuya; TOKUNAGA, Etsuko; SHIBATA, Norio
- 2K6-45**  $\alpha$ -difluoromethylation of metal enolates by C-F activation (Tokyo Institute of Technology) IIDA, Toshiaki; ITO, Shigekazu; MIKAMI, Koichi
- 2K6-46** Stereoselective Synthesis of Fluorine-containing Dihydropyran Derivatives having Consecutive Asymmetric Centers (Kyoto Institute of Technology; Department of Chemistry and Materials Technology) TSUKADE, Kazuki; KONNO, Tsutomu

Chair: KOYAMA, Yasuhiro (16:50~17:30)

- \* 16:40-16:50: interval for laptop PC connection.(2K6-48, 2K6-49, 2K6-50, 2K6-51)
- 2K6-48** Hydrostannylation of *gem*-difluorocyclopropenes (Kyoto Institute of Technology; Department of Chemistry and Materials Technology) HOSHINO, Tomoko; MORIGAKI, Atsunori; KONNO, Tsutomu
- 2K6-49** Introduction and Synthetic Use of Perfluoroalkyl Groups to Phthalic Ester (Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) KINOSHITA, Keita; YAMADA, Shigeyuki; IWAMA, Shota; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 2K6-50** Fluoroalkylative Cascade Cyclization of ortho-Phthalaldehyde (Okayama Univ.; Gunma Univ.) NISHINA, Yuta; SHINADA, Shun; AMII, Hideki
- 2K6-51** Organoaluminum-Catalyzed Defluorination of beta,beta-Difluoroalcohols (Gunma Univ.) KOBAYASHI, Akira; FUJIKAWA, Kenichi; AMII, Hideki

## Tuesday, March 27, PM

Chair: TERADA, Masahiro (13:00~13:30)

- \* 12:50-13:00: interval for laptop PC connection.(3K6-25, 3K6-28, 3K6-30, 3K6-31)
- 3K6-25** CSJ Award for Young Chemists Development of Anion-Recognizable Chiral Onium Salts and Their Applications to Catalytic Asymmetric Syntheses (Grad. Sch. Eng., Nagoya Univ.) URAGUCHI, Daisuke
- Chair: SHOJI, Mitsuru (13:30~14:10)
- 3K6-28\*** Synthesis of 4,4,4-trifluorocrotonaldehyde and its application to the asymmetric reactions (Toyoohashi Univ. of Technology) NARAYAMA, Akira; ABE, Yoshiyuki; SHIBATOMI, Kazutaka; IWASA, Seiji

- 3K6-30** Stereoselective Mannich Reactions of Pseudo C<sub>2</sub> Symmetric Fluorine-containing Glutaric Derivatives (Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) ISHIKAWA, Tatsuya; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 3K6-31** Synthesis and Utilization of Epoxyesters Containing a CF<sub>3</sub> Group (Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) MAKINO, Toshiki; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi

Chair: AKIYAMA, Takahiko (14:20~15:20)

- \* 14:10-14:20: interval for laptop PC connection.(3K6-33)
- 3K6-33** CSJ Award for Creative Works Development of Organocatalyst-mediated Asymmetric Reactions and Its Application to the Total Synthesis of Natural Products (Fac. Eng., Tokyo Univ. of Sci.) HAYASHI, Yujiro

Chair: HAYASHI, Masahiko (15:30~16:20)

- \* 15:20-15:30: interval for laptop PC connection.(3K6-40, 3K6-41, 3K6-42, 3K6-43, 3K6-44)
- 3K6-40** Synthetic Study of Biologically Active Artocarpin (Mie Univ.) MIZOTA, Isao; TANIGUCHI, Kana; SHIMIZU, Makoto
- 3K6-41** The synthetic study on murrayin B, flavonolignan (Department of Chemistry, Tokyo Institute of Technology) FUKUDA, Emi; HATTORI, Fumihiko; OHMORI, Ken; SUZUKI, Keisuke
- 3K6-42** General synthetic approach to catechin and epicatechins (Department of chemistry, Tokyo Institute of Technology) FURUYA, Yuu; HATTORI, Fumihiko; STADLBAUER, Sven; OHMORI, Ken; SUZUKI, Keisuke
- 3K6-43** Synthesis of Ascofuranone derivative against Trypanosome Alternative Oxidase (Tottori Univ.) AOYAMA, Takahiro; HAGA, Yasushi; NAKASHIMA, Yurie; YAMAMOTO, Masaichi; KITA, Kiyoshi; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 3K6-44** Synthesis of Ascofuranone derivatives Possess Anti-Trypanosome Alternative Oxidase Activity (Tottori Univ.) MATSUBARA, Shinji; NAKASHIMA, Yurie; HAGA, Yasushi; YAMAMOTO, Masaichi; KITA, Kiyoshi; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

Chair: MORIMOTO, Minoru (16:30~17:30)

- \* 16:20-16:30: interval for laptop PC connection.(3K6-46, 3K6-47, 3K6-48, 3K6-49, 3K6-50, 3K6-51)
- 3K6-46** Development of efficient synthesis of glycosides and its derivatives (Department of Chemistry, Graduate School of Science, Kobe Univ.) ADACHI, Miho; MICHIGAMI, Kyosuke; UCHIDA, Satoshi; HAYASHI, Masahiko
- 3K6-47** Synthesis of unsaturated glycosides under Mitsunobu reaction conditions (Department of Chemistry, Graduate School of Science, Kobe Univ.) MICHIGAMI, Kyosuke; HAYASHI, Masahiko
- 3K6-48** Synthetic Study on Angucyclinones; Iterative Benzoin Cyclization Approach. (Graduate School of Science and Technology, Tokyo Institute of Technology) KAMAKURA, Takahiro; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 3K6-49** Withdrawn
- 3K6-50\*** Synthesis of Dimeric Urushiols (Tokyo Institute of Technology; Department of Biomolecular Engineering) WANG, Qian; KOBAYASHI, Yuichi
- 3K6-51** Asymmetric Synthesis of a New Carbamannose Derivative by Using Chiral Cross-Conjugated Cyclohexadienone as a Key Building Block (Kumamoto Univ.; Toyama Univ.) SAKAGUCHI, Kohji; ISHIKAWA, Hayato; IMAHORI, Tatsushi; KATO, Atsushi; IRIE, Ryo

## Wednesday, March 28, AM

Chair: URAGUCHI, Daisuke (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4K6-01, 4K6-02, 4K6-03, 4K6-04, 4K6-05, 4K6-06)
- 4K6-01** Development of Catalytic Aldol-type Reactions using Nitrogen Containing Compounds with Fluorenylidene Moiety as Protecting and Activating Group. (Graduate School of Science, The Univ. of Tokyo) MATSUMOTO, Masatoshi; RAHMANI, Raphael; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 4K6-02** Development of Catalytic Michael Reactions using Aminoalkane Derivatives Protected by Fluorenylidene Moiety. (Graduate School of Science, The Univ. of Tokyo) YAMASHITA, Yasuhiro; HARADA, Masashi; MATSUMOTO, Masatoshi; CHEN, Yi-jing; KOBAYASHI, Shu
- 4K6-03** Chiral Phosphine-Prolineamide as Organocatalyst in the Asymmetric Aldol Reactions (Chiba Univ.) MINO, Takashi; HAGA, Yuri; OMURA, Ayaka; SAKAMOTO, Masami; FUJITA, Tsutomu
- 4K6-04** Studies in development of *syn* selective vinylogous Mukaiyama aldol reaction by using acetal (Univ. of Waseda) TSUKADA, Hiroyuki; MUKAEDA, Yuki; HOSOKAWA, Seijiro
- 4K6-05** Studies in development of a new asymmetric vinylogous Mukaiyama aldol reaction (Univ. of Waseda) MUKAEDA, Yuki; SAGAWA, Naoya; HOSOKAWA, Seijiro
- 4K6-06** Studies on stereoselective construction of polyketide chains (Univ. of Waseda) KANO, Takaaki; NAKAMURA, Tatsuya; MUKAEDA, Yuki;

HOSOKAWA, Seiji

Chair: HOSAKAWA, Seiji (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4K6-08, 4K6-09, 4K6-11, 4K6-13)
- 4K6-08** Catalytic Asymmetric Aza-Henry Reaction Catalyzed by the Chiral Ammonium Betaine (Nagoya Univ.) OYAZU, Keigo; NOGUCHI, Haruhiro; URAGUCHI, Daisuke; OOI, Takashi
- 4K6-09\*** Development of Highly Stereoselective Aldol-type Reaction by Use of Vinylic Carbonates as an Enolate Precursor (Nagoya Univ.) KOSHIMOTO, Kyohei; URAGUCHI, Daisuke; OOI, Takashi
- 4K6-11\*** Asymmetric Aldol Reactions Catalyzed by Chiral Zinc(II) Complexes That Have Amino Acids Containing Aliphatic and Aromatic Side Chains (Production Technology Laboratories, Kaken Pharmaceutical Co., LTD; Faculty of Pharmaceutical Sciences, Tokyo Univ. of Science) ITOH, Susumu; SONOIKE, Shotaro; TOKUNAGA, Takuya; AOKI, Shin
- 4K6-13** Asymmetric Synthesis of Trifluoromethylated Polyols Based on the Asymmetric Direct Aldol Reaction of Trifluoroacetaldehyde Ethyl Hemiacetal in the Presence of Asymmetric Organocatalyst (Gifu Univ.) FUNABIKI, Kazumasa; OIDA, Kiyofumi; KUBOTA, Yasuhiro; MATSUI, Masaki

Chair: FUNABIKI, Kazumasa (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4K6-15, 4K6-16, 4K6-17, 4K6-18, 4K6-19)
- 4K6-15** Catalytic Asymmetric Mukaiyama Aldol Reactions in Aqueous Media (Graduate School of Science, The Univ. of Tokyo) KOBAYASHI, Shu; XU, Pengyu; KITANOSONO, Taku
- 4K6-16** Chiral-Scandium catalyzed asymmetric Michael addition of thiols and enantioselective protonation in water (Graduate School of Science, The Univ. of Tokyo) SAKAI, Masaru; KITANOSONO, Taku; UENO, Masaharu; KOBAYASHI, Shu
- 4K6-17** Development of Direct-type Asymmetric Hydroxymethylation Using Multifunctional Catalysts (Graduate School of Science, The Univ. of Tokyo) KITANOSONO, Taku; UENO, Masaharu; KOBAYASHI, Shu
- 4K6-18** General, robust, and (*E*)-, (*Z*)-stereocomplementary preparation of tetra-substituted  $\alpha,\beta$ -unsaturated esters utilizing enol tosylation of  $\beta$ -ketoesters and cross coupling. (Kwansei Gakuin Univ.) SATO, Yuka; NISHIKADO, Hiroshi; UENO, Kanako; NAKATSUJI, Hidefumi; TANABE, Yoo
- 4K6-19\*** Direct Aldol Polymerization of Acetaldehyde (The Univ. of Tokyo, Graduate School of Engineering) KUSUMOTO, Shuhei; ITO, Shingo; MURATA, Yusuke; SUGIOKA, Takashi; OHGI, Hiroyuki; NOZAKI, Kyoko

## Room K7

12th Bldg. 12-109

### Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Sunday, March 25, AM

Chair: HASHIMOTO, Takuya (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(1K7-01, 1K7-02, 1K7-03, 1K7-04, 1K7-05, 1K7-06)
- 1K7-01** Development of Chiral Nucleophilic Phosphine(III) Catalysis for Enantioselective Iodolactonization (Nagoya Univ.; CREST) NAKATSUJI, Hidefumi; SAWAMURA, Yasuhiro; SAKAKURA, Akira; ISHIIHARA, Kazuaki
- 1K7-02** Design of chiral nucleophilic phosphite(III) catalysts for asymmetric biomimetic bromocyclization of polyprenoids (Nagoya Univ.; CREST) SAWAMURA, Yasuhiro; NAKATSUJI, Hidefumi; SAKAKURA, Akira; ISHIIHARA, Kazuaki
- 1K7-03** A novel bronsted acid bearing an adjacently strong acid moiety for intramolecular hydroaminations (Department of Chemistry, Graduate School of Science, Hiroshima Univ.) SAKAI, Yuichiro; TAKAGI, Ryukiti; ABE, Manabu
- 1K7-04** Chiral Phosphoric Acid-Catalyzed Asymmetric Synthesis of Chiral Tetrahydroquinoline via Enantioselective C-H Bond Functionalization. (Fac. Sci., Gakushuin Univ.) KURIHARA, Kazuki; EHARA, Kensuke; MORI, Keiji; AKIYAMA, Takahiko
- 1K7-05** Stereoselective Synthesis of Tryptophan Derivatives Catalyzed by Chiral Bronsted Acid (Graduate School of Science, Tohoku Univ.) KANOMATA, Kyohei; MORIYA, Kenichi; SORIMACHI, Keiichi; TERADA, Masahiro
- 1K7-06** Development of Perfluoro Binaphthyl derived Chiral Bronsted Acid (Graduate School of Science, Tohoku Univ.) OKAMOTO, Hiroshi; MOMIYAMA, Norie; TERADA, Masahiro

Chair: NISHIMOTO, Yoshihiro (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1K7-08, 1K7-09, 1K7-11,

1K7-13)

- 1K7-08** Enantioselective 1,4-Reduction of Benzopyrylium Ion as a Reactive Intermediate Catalyzed by a Chiral Bronsted Acid (Graduate School of Science, Tohoku Univ.) YAMANAKA, Takuto; TODA, Yasunori; TERADA, Masahiro
- 1K7-09\*** Relay Catalysis via a Rhodium Complex/Chiral Bronsted Acid Binary System Involving Enantioselective Reduction of a Carbonyl Ylide as the Reactive Intermediate (Graduate School of Science, Tohoku Univ.) TODA, Yasunori; TERADA, Masahiro
- 1K7-11\*** Asymmetric Synthesis of Trisubstituted Aziridines Using  $\alpha$ -Diazo-carbonyl Compounds (Department of Chemistry, Graduate school of Science, Kyoto Univ.) NAKATSU, Hiroki; HASHIMOTO, Takuya; MARUOKA, Keiji
- 1K7-13** Phase-transfer catalyzed asymmetric synthesis of tetrasubstituted allenes (Graduate School of Science, Kyoto Univ.) SAKATA, Kazuki; HASHIMOTO, Takuya; MARUOKA, Keiji

Chair: MORI, Keiji (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(1K7-15, 1K7-16, 1K7-18, 1K7-19)
- 1K7-15** Bronsted Base-Assisted Boronic Acid-Catalyzed Amide Condensation of  $\alpha$ -Hydroxycarboxylic Acids (Nagoya Univ.; CREST) YAMASHITA, Risa; SAKAKURA, Akira; ISHIIHARA, Kazuaki
- 1K7-16\*** Design of *N,N*-diarylammonium pyrosulfate catalysts for dehydrative ester condensation reactions under aqueous conditions and their application (Nagoya Univ.; Aichi Univ. of Education; CREST) KOSHIKARI, Yoshiki; SAKAKURA, Akira; AKAKURA, Matsujiro; ISHIIHARA, Kazuaki
- 1K7-18** Transesterification catalyzed by inexpensive and highly active lanthanum nitrate-phosphonium salts (Nagoya Univ., CREST) KAMIYA, Sho; HATANO, Manabu; ISHIIHARA, Kazuaki
- 1K7-19\*** Direct Coupling between Alcohol Derivatives and Enol Acetates Catalyzed by Combined Lewis Acid of Indium Trihalide and Trimethylsilyl Halide (Osaka Univ.) ONISHI, Yoshiharu; NISHIMOTO, Yoshihiro; YASUDA, Makoto; BABA, Akio

### Sunday, March 25, PM

Chair: ORIYAMA, Takeshi (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(1K7-28, 1K7-31, 1K7-32)
- 1K7-28** Young Scholar Lectures of CSJ Design of Organic Reactions Using Highly Functional Salt Catalysts Based on Acid-Base Concerted Chemistry (Grad. Sch. Eng., Nagoya Univ.) HATANO, Manabu
- 1K7-31** Synthesis of 2,4-Substituted Homoallylamines via 1,3-Rearrangement by Bronsted Acid (Graduate School of Science, Tohoku Univ.) SANO, Asuka; MOMIYAMA, Norie; TERADA, Masahiro
- 1K7-32** Synthesis of 1,4-Substituted Homoallylamine via [1,3] Alkyl Migration (Graduate School of Science, Tohoku Univ.) KANAI, Chihiro; MOMIYAMA, Norie; TERADA, Masahiro

Chair: KIHARA, Nobuhiro (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(1K7-34, 1K7-35, 1K7-36, 1K7-37, 1K7-38)
- 1K7-34** Catalytic Enantioselective Amino Synthesis Using Chiral Ammonium 1,1'-Binaphthyl-2,2'-disulfonates (Nagoya Univ., CREST) OZAKI, Takuya; HATANO, Manabu; ISHIIHARA, Kazuaki
- 1K7-35** Enantioselective Diels-Alder Reactions Using Lewis Acid-Assisted Chiral Phosphoric Acid Catalysts (Nagoya Univ., CREST) GOTO, Yuta; IZUMISEKI, Atsuto; HATANO, Manabu; ISHIIHARA, Kazuaki
- 1K7-36** Mechanistic Studies on Highly Diastereo- and Enantioselective Aza-Petasis-Ferrier Rearrangement Catalyzed by a Chiral Phosphoric Acid (Graduate School of Science, Tohoku Univ.) KOMURO, Takazumi; TODA, Yasunori; TERADA, Masahiro
- 1K7-37** A Novel Method for the Deprotection of Silyl Ethers Using  $\text{BF}_3 \cdot 2\text{THP}$  (Faculty of Science, Ibaraki Univ.) KOYAMA, Taito; CHIBA, Ryoichi; ORIYAMA, Takeshi
- 1K7-38** Lewis acid-promoted Cyclization Reactions of Allenes (Nara Univ. of Education, Osaka Prefecture Univ.) FUKUSHIMA, Yugo; YAMAZAKI, Shoko; UKAI, Tetsuma; TATSUMI, Kohei; OGAWA, Akiya

Chair: HATANO, Manabu (15:30~16:30)

- \* 15:20-15:30: interval for laptop PC connection.(1K7-40, 1K7-41, 1K7-42, 1K7-43, 1K7-44)
- 1K7-40** Evaluation of Cyclopentyl Methyl Ether as a Solvent for Radical Reactions (Graduate School of Engineering, Osaka Institute of Technology) KURODA, Hiroyuki; KOBAYASHI, Shoji; KASHIHARA, Takashi; KAWANO, Ichiro; MASUYAMA, Araki
- 1K7-41\*** Withdrawn
- 1K7-42** Aminium Radical Cation-Catalyzed Cross-Dehydrogenative-Coupling Reactions (Graduate School of Science, The Univ. of Tokyo) TANOUE, Arata; YOO, Woo-jin; KOBAYASHI, Shu
- 1K7-43** Total synthesis of Pyripropene A by way of radical cyclization (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo institute of technology) FUSE, Shinichiro; IKEBE, Ayako; KARASAWA, Tomoya; JOURMOTO, Kouhei; UEKUSA, Hidehiro; TAKAHASHI, Takashi

**1K7-44\*** Combinatorial Synthesis and Evaluation of  $\alpha$ -Iminocarboxamide-Nickel(II) Catalysts (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) MASUI, Hisashi; FUSE, Shinichiro; TANNNA, Akio; SHIMIZU, Fumihiko; TAKAHASHI, Takashi

Chair: KUSAMA, Hiroyuki (16:40~17:30)

\* 16:30-16:40: interval for laptop PC connection.(1K7-47, 1K7-48, 1K7-49, 1K7-50, 1K7-51)

**1K7-47** Addition reactions of C-H bond to N-N double bond in the presence of decatungstate as a photocatalyst. (Graduate School of Science, Osaka Prefecture Univ.) TANI, Akihiro; FUKUYAMA, Takahide; FAGNONI, Maurizio; RYU, Ilhyong

**1K7-48** Synthesis of  $\beta$ ,  $\gamma$ -Unsaturated Ketones by Radical Reaction of Aldehydes with Allyl Bromides (Graduate School of Science, Osaka Prefecture Univ.) KIPPO, Takashi; KIMURA, Yuki; FUKUYAMA, Takahide; RYU, Ilhyong

**1K7-49** Transition-Metal-Free Cross-Coupling Reaction of Allylic Bromides with Aryl- and Vinylboronic Acids (Graduate School of Science, Osaka Prefecture Univ.) NISHIMURA, Kota; UEDA, Mitsuhiro; RYU, Ilhyong

**1K7-50** Development of salen-Ti(III) Complex Catalyzed Radical Cyclization (Department of Chemistry, Okayama Univ. of Sci.) YAMADA, Haruo; MUNEMOTO, Yuichiro

**1K7-51** Stereoselectivity of Radical Addition Reaction by Chiral Lewis Bases (Ochanomizu Univ.) MANABE, Naoko; YAJIMA, Tomoko

Chair: FUSE, Shinichiro (17:40~18:40)

\* 17:30-17:40: interval for laptop PC connection.(1K7-53, 1K7-54, 1K7-55, 1K7-56, 1K7-57, 1K7-58)

**1K7-53** Synthesis of Chiral Fluorinated Amino Acids via Photo-induced Radical Reaction (Ochanomizu Univ.) HIROKANE, Rie; YAJIMA, Tomoko

**1K7-54** Radical reduction of *N*-alkyl-2-(phenylseleno)ethanesulfonamide (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) UZAWA, Yoshinori; KIHARA, Nobuhiro

**1K7-55** Photochemically-Promoted Three-Component Coupling Reaction Utilizing Isomerization of Acylsilanes into Siloxycarbenes (Tokyo Institute of Technology) TADAMI, Satoshi; IWASAWA, Nobuharu; KUSAMA, Hiroyuki

**1K7-56** Photo-induced Tautomerization of Substituted Juglones (Department of Chemistry, Tokyo Institute of Technology) ANDO, Yoshio; JUNG, Sunna; MATSUMOTO, Takashi; SUZUKI, Keisuke

**1K7-57** Photochemical C-C bond formation between ethers and olefins (AIST) OUCHI, Akihiko; LIU, Chuanxiang

**1K7-58** Isoprene unit Elongation Reaction Using [3,3]sigmatropic rearrangement (Graduate School of Environment and Information Sciences, Yokohama National Univ.) HONDA, Kiyoshi; SATO, Takeshi; WADA, Kiwato; KOTANI, Tomohiro; HOSHINO, Yujiro; INOUE, Seichi

## Monday, March 26, AM

Chair: MINAKATA, Satoshi (10:00~10:50)

\* 9:50-10:00: interval for laptop PC connection.(2K7-07, 2K7-08, 2K7-09, 2K7-10, 2K7-11)

**2K7-07** Polymeric Ethyl Glyoxylate and Trifluoromethylacetaldehyde Ethyl Hemiacetal in Asymmetric Aldol Reaction Catalyzed by Organocatalyst (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; YASUI, Yusuke; URUSHIMA, Tatsuya; KAWAMURA, Tsuyoshi; KOJIMA, Masahiro; ISHIKAWA, Hayato

**2K7-08** One-pot Synthesis of Chiral Epoxide via the Asymmetric Aldol Reaction of Chloroacetaldehyde Catalyzed by Diarylprolinol (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; YASUI, Yusuke; KAWAMURA, Tsuyoshi; KOJIMA, Masahiro; ISHIKAWA, Hayato

**2K7-09** Asymmetric Aldol Reaction of  $\alpha$ -oxoaldehyde Catalyzed by Organocatalyst (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; YASUI, Yusuke; KOJIMA, Masahiro; KAWAMURA, Tsuyoshi; ISHIKAWA, Hayato

**2K7-10** Study on pseudo-intramolecular transacylation (Kochi Univ. of Technology) HIRAI, Sho; HIRAO, Shotaro; SAWAYAMA, Jun; SAIGO, Kazuhiko; NISHIWAKI, Nagatoshi

**2K7-11** Synthesis of Polyfunctional Compounds Involving Electrophilic Cyano Transfer (Kochi Univ. of Technology) HIRAO, Shotaro; SAWAYAMA, Jun; SAIGO, Kazuhiko; NISHIWAKI, Nagatoshi

Chair: HIRAO, Shotaro (11:00~12:00)

\* 10:50-11:00: interval for laptop PC connection.(2K7-13, 2K7-14, 2K7-15, 2K7-16, 2K7-18)

**2K7-13** Dicyanation Reaction of Nitroalkenes through Denitration (Graduate School of Engineering, Osaka Univ.) HAYAKAWA, Junpei; TAKEDA, Youhei; MINAKATA, Satoshi

**2K7-14** Development of length-selective acylation catalyst using hydrogen-bonding between amides (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) TSUZUKI, Noriaki; KHARA, Nobuhiro

**2K7-15** Strecker-Type Reaction of Nitrones by Using Cyanohydrin (Kanazawa Univ., Graduate School of Natural Science and Technology)

SAKAI, Takahiro; SOETA, Takahiro; INOMATA, Katsuhiko; UKAJI, Yutaka

**2K7-16\*** Enantioselective Hydrocyanation of *N*-Protected Aldimines with the Ru/Li Combined catalysts (Faculty of Engineering, Hokkaido Univ.) UEMURA, Masato; KURONO, Nobuhito; OHKUMA, Takeshi

**2K7-18** Direct catalytic asymmetric Mannich type reaction of isoindolinones (Graduate School of Pharmaceutical Science, The Univ. of Tokyo) SUZUKI, Yudai; MATSUNAGA, Shigeaki; KANAI, Motomu

## Monday, March 26, PM

Chair: AKAKURA, Matsujiro (13:20~14:10)

\* 13:10-13:20: interval for laptop PC connection.(2K7-27, 2K7-29, 2K7-30, 2K7-31)

**2K7-27\*** The First Non-enzymatic Dynamic Kinetic Resolution of Racemic 2-Arylalkanoic Acids (Tokyo Univ. of Science) ONO, Keisuke; NAKATA, Kenya; SHIINA, Isamu

**2K7-29** An Effective Asymmetric Esterification of Racemic 2-Aryloxypropionic Acids with Achiral Diarylmethanols Using MA-BTM Combined System (Tokyo Univ. of Science) TENGEIJI, Atsushi; NAKATA, Kenya; ONO, Keisuke; SHIINA, Isamu

**2K7-30** Synthesis of 2,2'-bipyridinium salt derivatives having axial chirality (Toyoashi Univ. of Technology) SUZUKI, Yuki; HARAGUCHI, Naoki; ITSUNO, Shinichi

**2K7-31** Synthesis of Enantiopure Allenes from Australian Melonothin Scarb Beetles. (Graduate School of Science & Engineering, Yamagata Univ.) SAGAWA, Nanae; KUSAKARI, Miho; MURAKAMI, Satoshi; MATSUMOTO, Takatoshi; SATO, Ei-ichi; HATANNO, Bunpei; KIJIMA, Tatsuro

Chair: MOROHASHI, Naoya (14:20~15:20)

\* 14:10-14:20: interval for laptop PC connection.(2K7-33, 2K7-35, 2K7-36, 2K7-37, 2K7-38)

**2K7-33\*** *N*-Methylbenzoguanidine (NMBG) Catalyzed Kinetic Resolution of Racemic Secondary Benzylic Alcohols with Free Carboxylic Acids by Asymmetric Esterification (Tokyo Univ. of Science) NAKATA, Kenya; SHIINA, Isamu

**2K7-35** A Convenient Method for the Kinetic Resolution of Racemic 2-Hydroxyalkanoates Using Diphenylacetic Anhydride (DPHAA) and Chiral Acyl-transfer Catalyst (Tokyo Univ. of Science) SHIINA, Isamu; ONO, Keisuke; SEKIGUCHI, Akihiro; NAKATA, Kenya

**2K7-36** Synthesis of DMAP derivatives by diastereoselective Ugi reaction and application to kinetic resolution of secondary alcohols (Graduate School of Natural Science and Technology, Okayama Univ.) IRIE, Shunsuke; MANDAI, Hiroki; SUGA, Seiji

**2K7-37** Kinetic Resolution of Racemic Pantolactone and 2-Hydroxylactones by the Asymmetric Esterification Using MA-BTM Combined System (Tokyo Univ. of Science) NAKATA, Kenya; GOTOH, Kouya; SHIINA, Isamu

**2K7-38** Kinetic Resolution of Racemic 2-Hydroxylactams by the Asymmetric Esterification Using MA-BTM Combined System (Tokyo Univ. of Science) ONO, Keisuke; KITAJIMA, Hirotaka; NAKATA, Kenya; SHIINA, Isamu

Chair: SOETA, Takahiro (15:30~16:20)

\* 15:20-15:30: interval for laptop PC connection.(2K7-40, 2K7-41, 2K7-42, 2K7-43, 2K7-44)

**2K7-40** Optical resolution of *dl*-1,2-phenylenebis(substituted methanols) with (S)-ALBO-V (Yokohama National Univ.) TANIGUCHI, Toshiro; KOBAYASHI, Masato; SHOU, Rorin; HOSODA, Naoya; ASAMI, Masatoshi

**2K7-41** Kinetic Resolution of Racemic 2-Hydroxyketones and Oximes by the Asymmetric Esterification Using MA-BTM Combined System (Tokyo Univ. of Science) NAKATA, Kenya; FUTAMI, Kengo; SHIINA, Isamu

**2K7-42** Kinetic Resolution of Racemic 2-Hydroxycarboxamides by the Asymmetric Esterification Using MA-BTM Combined System (Tokyo Univ. of Science) NAKATA, Kenya; KAWANISHI, Tatsuya; SHIINA, Isamu

**2K7-43** Dependence of stereoselectivity on the dielectric constant of solvent in enzyme-catalyzed kinetic resolution of 1-(2-naphthyl)ethanol (Graduate School of Engineering, Tohoku Univ.) KITAMOTO, Yuichi; MOROHASHI, Naoya; HATTORI, Tetsuro

**2K7-44** Novel synthesis and optical resolution of D2 symmetric diammonium salt (Graduate School of Engineering, Toyoashi Univ. of Technology) ASAI, Ayumu; HARAGUCHI, Naoki; ITSUNO, Shinichi

Chair: HARAGUCHI, Naoki (16:40~17:20)

\* 16:30-16:40: interval for laptop PC connection.(2K7-47, 2K7-48, 2K7-49, 2K7-50)

**2K7-47** [1,5]-H shift of aldehyde hydrogen in dienal compound and its substituent effect (Kwansei Gakuin Univ.) SAKAGUCHI, Taku; SHIGENOBU, Masashi; OKUNO, Yudai; TSUTSUMI, Yohei; TSUCHIKAWA, Hiroshi; KATSUMURA, Shigeo

**2K7-48** Substituent effect of the [1,5]-H shift of the  $\beta$ -ionylideneacetaldehyde hydrogen followed by intramolecular [2+2] cyclization and novel synthesis of afremodial, diterpene. (School of Science and Technology, Kwansei Gakuin Univ.) TSUTSUMI, Yohei; SAKAGUCHI, Taku; ONISHI, Kengo; HAGIYAMA, Homare; YAGURA, Tatsuo; KATSUMURA, Shigeo

- 2K7-49** Stereoselective construction of CF<sub>3</sub>-containing quaternary carbon centers via Johnson-Claisen rearrangement (Tokyo Univ. of Agriculture and Technology) KAWAKAMI, Takaaki; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 2K7-50** "Syn-Effect" in 1,4-Elimination Reaction of (*E*)-Allylic Ester Derivatives and Subsequent [1,2]-Wittig Rearrangement (Kanazawa Univ., Graduate School of Natural Science and Technology) NAKANO, Takeo; TAKENAKA, Hiroyuki; SOETA, Takahiro; UKAJI, Yutaka; INOMATA, Katsuhiko

### Tuesday, March 27, PM

Chair: SHIMIZU, Makoto (13:00~14:00)

\* 12:50-13:00: interval for laptop PC connection.(3K7-25)

- 3K7-25 CSJ Award for Creative Works** Designing, Synthesis, and Reaction of Unnatural Chiral Molecules (IMCE, Kyushu Univ.) TOMOOKA, Katsuhiko

Chair: IGAWA, Kazunobu (14:10~15:10)

\* 14:00-14:10: interval for laptop PC connection.(3K7-32, 3K7-34, 3K7-35, 3K7-36, 3K7-37)

- 3K7-32\*** Specific Elimination of Vicinal Dibromides Utilizing an Adjacent Hetero-atom Functional Group (Tokyo Univ. of Science) KUTSUMURA, Noriki; MATSUBARA, Yusuke; KIRISEKO, Akito; TOGUUCHI, Shohei; SAITO, Takao
- 3K7-34** Synthesis of 2,2-Disubstituted Indoline-3-ones by Intramolecular Cyclization of  $\alpha$ -Imino Esters via 1,2-Aza-Brook Rearrangement and Application to Natural Product Synthesis (Mie Univ.) TAKAO, Yuki; SHIMIZU, Makoto
- 3K7-35** Cyclization of  $\alpha$ -Imino Esters via 1,3-Aza-Brook Rearrangement (Mie Univ.) TAKAO, Yuki; KATSURAYAMA, Haruna; SHIMIZU, Makoto
- 3K7-36** Synthetic Study on Longithorone B (Tokyo Institute of Technology) JUNG, Sunna; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 3K7-37** Ring-Opening Halogenation Reaction of Azetidin-3-one O-Alkyl Oxime Promoted by Titanium Tetrahalide (Mie Univ.) ARIGA, Shizuka; HACHIYA, Iwao; SHIMIZU, Makoto

Chair: NAKATA, Kenya (15:20~16:10)

\* 15:10-15:20: interval for laptop PC connection.(3K7-39, 3K7-41, 3K7-42, 3K7-43)

- 3K7-39\*** Development and Mechanistic Study of Efficient Mannich-type Reactions of Sulfonylimidates Using Proazaphosphatranes as Catalysts (Graduate School of Science, The Univ. of Tokyo) NAKANO, Junya; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 3K7-41** 1,4-Addition Reactions of Sulfonylimidates Using Organosuperbases as Catalysts (Graduate School of Science, The Univ. of Tokyo) MASUDA, Koichiro; NAKANO, Junya; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 3K7-42** Catalytic direct-type Mannich reactions of esters (Graduate School of Science, The Univ. of Tokyo) SUZUKI, Hirotosugu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 3K7-43** One-Pot Synthesis of Chiral Aziridines by a Domino Reaction by Using Desulfonylative Formation on the *N*-Tosyl Imine of Chloroacetaldehyde with an Asymmetric Mannich Reaction as a Key Step (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; URUSHIMA, Tatsuya; SAKAMOTO, Daisuke; ISHIKAWA, Hayato

Chair: HACHIYA, Iwao (16:20~17:20)

\* 16:10-16:20: interval for laptop PC connection.(3K7-45, 3K7-47, 3K7-48, 3K7-49, 3K7-50)

- 3K7-45\*** Synthesis and Synthetic Application of *N*-Boc-Protected Amino Alcohols (Graduate School of Science, Kyoto Univ.) YURINO, Taiga; KANO, Taichi; MARUOKA, Keiji
- 3K7-47** Chiral Bronsted Acid Catalyzed Asymmetric Mannich-Type Reaction Using *N*-Boc-Protected Amino Alcohols (Graduate School of Science, Kyoto Univ.) ASAKAWA, Daisuke; KANO, Taichi; MARUOKA, Keiji
- 3K7-48** Catalytic Asymmetric Halide Ring Opening of meso and terminal Aziridines Mediated by Chiral Triazolium Silicate (Nagoya Univ.) HAMAJIMA, Yuta; OHMATSU, Kohsuke; OOI, Takashi
- 3K7-49** Catalytic Asymmetric Mannich-Type Reactions of  $\alpha$ -Cyano  $\alpha$ -Sulfonyl Carbanions (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) GOTO, Ayano; OHMATSU, Kohsuke; OOI, Takashi
- 3K7-50** Catalytic direct-type asymmetric Mannich reactions of simple amides (Graduate School of Science, The Univ. of Tokyo) GOTO, Jumpei; HUANG, Yiyong; YAMAGUCHI, Miyuki; KOBAYASHI, Shu

Chair: KANO, Taichi (17:30~18:20)

\* 17:20-17:30: interval for laptop PC connection.(3K7-52, 3K7-53, 3K7-54, 3K7-55, 3K7-56)

- 3K7-52** Synthesis and Stereochemical Behavior of Novel Planar Chiral Heterocycles having Aromatic Group on the Ring (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) IGAWA, Kazunobu;

MACHIDA, Kouhei; TOMOOKA, Katsuhiko

- 3K7-53\*** Stereospecific Transannular Reactions of Planar Chiral Cyclic Amide and Its Derivatives (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) Department of Applied Chemistry, Tokyo Inst. of Technology) UEHARA, Kazuhiro; NI, Runyan; SUZUKI, Masaki; SHIMADA, Maki; TOMOOKA, Katsuhiko
- 3K7-54** Synthetic study on isoprenylated natural flavan-3-ols (Graduate School of Science and Technology, Tokyo Institute of Technology) NAKAMURA, Kayo; SEO, Hana; OHMORI, Ken; SUZUKI, Keisuke
- 3K7-55** Synthesis and Structure of Pd Complexes Having Planar Chiral Amine Ligands (IMCE, Kyushu Univ.; IGSES, Kyushu Univ.) ITO, Masato; HATAYAMA, Yusuke; TOMOOKA, Katsuhiko
- 3K7-56** Stereochemical Behavior of Planar Chiral Dipeptide (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) IGAWA, Kazunobu; NOGUUCHI, Kyohei; TOMOOKA, Katsuhiko

### Wednesday, March 28, AM

Chair: KUTSUMURA, Noriki (9:00~9:40)

\* 8:50-9:00: interval for laptop PC connection.(4K7-01, 4K7-02, 4K7-03, 4K7-04)

- 4K7-01** Synthesis of  $\alpha$ ,  $\alpha$ -disubstituted  $\alpha$ -amino esters Using Iminium Salts Generated from Amino Ketene Silyl Acetals (Mie Univ.) KOYAMA, Hiroshi; HATA, Shing; SHIMIZU, Makoto
- 4K7-02** Nucleophilic Addition Reaction to Iminium Salts Generated from Cyclic Amino Ketene Silyl Acetals (Mie Univ.) KOYAMA, Hiroshi; YATO, Atsuhiko; SHIMIZU, Makoto
- 4K7-03** Catalytic Asymmetric Ugi Reaction Using Acyclic Azomethine Imines (Department of Chemistry, Graduate school of Science, Kyoto Univ.) HASHIMOTO, Takuya; MARUOKA, Keiji
- 4K7-04\*** Achiral Acid Induced Enantioselectivity Switch of Chiral cis-Diamine-Based Organocatalyst in Asymmetric Reactions (Organocatalytic Chemistry Special Laboratory, Graduate school of Science, Kyoto Univ.) MOTEGI, Shin; AKAKURA, Matsujiro; HAN, Jianwei; MARUOKA, Keiji

Chair: OISAKI, Kounosuke (9:50~10:50)

\* 9:40-9:50: interval for laptop PC connection.(4K7-06, 4K7-07, 4K7-08, 4K7-09, 4K7-10, 4K7-11)

- 4K7-06** Development of asymmetric Mannich reaction for synthesis of vicinal diamines by amine organocatalysts: Formal synthesis of (-)-Agelastatin A (Graduate School of Science, Kyoto Univ.) SAKAMOTO, Ryu; KANO, Taichi; MARUOKA, Keiji
- 4K7-07** Efficient Organocatalytic Cross-Aldol Reaction between Aliphatic Aldehydes through Their Functional Differentiation (Graduate School of Science, Kyoto Univ.) SUGIMOTO, Hisashi; KANO, Taichi; MARUOKA, Keiji
- 4K7-08** Development of asymmetric conjugate addition reaction of acrylate catalyzed by biaryl-based aminoalcohol catalyst (Graduate School of Science, Kyoto Univ.) SHIROZU, Fumitaka; KANO, Taichi; MARUOKA, Keiji
- 4K7-09** Chiral Cu(I) Amide Complexes for Asymmetric Mannich Reactions (Graduate School of Science, The Univ. of Tokyo) YOSHIMOTO, Susumu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 4K7-10** Group 11 Metal Amide-catalyzed Asymmetric Cycloaddition Reactions of Azomethine Imines and Terminal Alkynes (Graduate School of Science, The Univ. of Tokyo) IMAIZUMI, Takaki; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 4K7-11\*** Catalytic Allylation of Carbonyl Compounds and Imines with Allylboronates Using Zinc Amide Catalysts (Graduate School of Science, The Univ. of Tokyo) CUI, Yi; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

## Room K8

12th Bldg. 12-110

### Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

Sunday, March 25, AM

Au

Chair: IWAI, Tomohiro (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(1K8-01, 1K8-02, 1K8-03, 1K8-04, 1K8-05)

- 1K8-01** Enantioselective Tandem Reaction: Cycloisomerization-[4+2]Cycloaddition by Chiral Au Catalysts (Graduate School of Science and Engineering, Tokyo Institute of Technology) SHIBUYA, Satoru; AIKAWA, Kohsuke; MIKAMI, Koichi
- 1K8-02** Physical Properties and Catalytic Activity of Gold Complexes Bearing the P=C-C=P Skeleton in Cyclization Reactions (Graduate School of

Science and Engineering, Tokyo Institute of Technology) NANKO, Masaki; MIKAMI, Koichi; ITO, Shigekazu

- 1K8-03** Nanoporous Gold Catalyzed Benzannulation Reaction (Center for Integrated NanoTechnology Support, Tohoku Univ.; WPI-Advanced Institute for Materials Research, Tohoku Univ.; Institute for Materials Research, Tohoku Univ.) MENGGEN, Bateer; ASAO, Naoki; YAMAMOTO, Yoshinori; CHEN, Mingwei; ZHANG, Wei; INOUE, Akihisa
- 1K8-04<sup>#</sup>** Nanoporous gold-catalyzed semihydrogenation of alkynes with hydrosilane (Graduate School of Science, Tohoku Univ.) YAN, Mei; JIN, Tienan; YAMAMOTO, Yoshinori
- 1K8-05\*** Novel coupling reaction catalyzed by Gold/Palladium alloy clusters (Institute for Molecular science; The Graduate Univ. for Advanced Studies; Mahidol Univ.) SAKURAI, Hidehiro; DHITAL, Raghu Nath; KAMONSATIKUL, Choavari; SOMSOOK, Ekasith

Chair: KINOSHITA, Hidenori (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1K8-08, 1K8-09, 1K8-10, 1K8-11, 1K8-12, 1K8-13)
- 1K8-08** Asymmetric Synthesis of Heterobiaryls and Azahelicenes by Gold-Catalyzed Intramolecular Hydroarylation (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) NAKAMURA, Kyosuke; SHIBUYA, Tetsuro; TANAKA, Ken
- 1K8-09** Intramolecular hydroamination of alkyne surfonylamides catalyzed by gold-triethynylphosphine complex (Department of Chemistry, Faculty of Science, Hokkaido Univ.) HARADA, Tomoya; ITO, Hideto; OHMIYA, Hirohisa; IWAI, Tomohiro; SAWAMURA, Masaya
- 1K8-10** Design and Synthesis of Semihollow-Shaped Triethynylphosphines with Variant Cavity Sizes: Application to Gold-Catalyzed Cyclizations (Department of Chemistry, Faculty of Science, Hokkaido Univ.) OKOUCHI, Hiori; ITO, Hideto; IWAI, Tomohiro; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 1K8-11** Cyclization of Propargylic Esters Catalyzed by Semihollow-Shaped Triethynylphosphine-Gold(I) Complex (Department of Chemistry, Faculty of Science, Hokkaido Univ.) HARADA, Ayumi; ITO, Hideto; OHMIYA, Hirohisa; SAWAMURA, Masaya

## Pt

- 1K8-12** [4+3]-Cycloaddition Reaction of  $\alpha,\beta$ -Unsaturated Platinum-Carbene Complex Intermediates with 2-Siloxy-1,3-dienes (Tokyo Institute of Technology) SOGO, Hideyuki; SUGA, Takuya; KUSAMA, Hiroyuki; IWASAWA, Nobuharu
- 1K8-13** Pt(II)-Catalyzed Intermolecular [4+3]-Cycloaddition Reaction of Electron-rich Allenes with Electron-rich Dienes (Tokyo Institute of Technology) AZUMA, Yuka; KUSAMA, Hiroyuki; IWASAWA, Nobuharu

Chair: OBORA, Yasushi (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(1K8-15, 1K8-16, 1K8-17, 1K8-18)
- 1K8-15** Platinum-Catalyzed One-pot Vinylation of Aldehydes and Effect of *p*-Benzoquinone as Additive (Saitama Univ.) UEMURA, Ryosuke; KINOSHITA, Hidenori; MIURA, Katsukiyo
- 1K8-16** Platinum-Catalyzed Hydrative Dimerization of Alkynylsilanes (Saitama Univ.) KIKUCHI, Kasumi; KINOSHITA, Hidenori; MIURA, Katsukiyo
- 1K8-17** Platinum-Catalyzed One-Pot Allylation of Aminals with Vinylsilanes (Saitama Univ.) KIZU, Ryosuke; KINOSHITA, Hidenori; MIURA, Katsukiyo
- 1K8-18<sup>#</sup>** Triphyrin Platinum Complexes: Simultaneous Formation of A Saddle Shaped Oxygen-Incorporated Pt(II)-Triphyrin and A Planar Pt(IV)-Triphyrin (Nara Institute of Science and Technology, Material) XUE, Zhaoli; KUZUHARA, Daiki; YAMADA, Hiroko

## Sunday, March 25, PM

### Pd

Chair: IWASAWA, Nobuharu (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(1K8-27, 1K8-30, 1K8-31, 1K8-32)
- 1K8-27** Young Scholar Lectures of CSJ Development of Highly Selective Carbon-Carbon Bond Formation Reactions with Organoboron Compounds (Grad. Sch. Sci., Hokkaido Univ.) OHMIYA, Hirohisa
- 1K8-30** Coupling Reaction of Tetrafluoroethylene with Organoboronates via Fluoropalladium Key Intermediate (Faculty of Engineering, Osaka Univ.) SAJIO, Hiroki; OHASHI, Masato; OGOSHI, Sensuke
- 1K8-31** Reactions of Tetrafluoroethylene with Organomagnesium or Zinc Reagents (Faculty of Engineering, Osaka Univ.) KAMURA, Ryohei; OHASHI, Masato; OGOSHI, Sensuke
- 1K8-32** Synthesis of Indenols by Palladium-Catalyzed Reaction of Alkynylborates with *ortho*-Halobenzoyl Compounds (Graduate School of Engineering, Kyoto Univ.) SUNABA, Hanako; SHIMAMOTO, Yasuhiro; ISHIDA, Naoki; MURAKAMI, Masahiro

Chair: SUGIE, Atsushi (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(1K8-34, 1K8-35, 1K8-36, 1K8-37, 1K8-38, 1K8-39)
- 1K8-34** Asymmetric Synthesis of Axially Chiral Naturally Occurring Allenes Utilizing Asymmetric Palladium Catalysis (Catalysis Research Center, Hokkaido Univ.; Fac. Pharm. Sci., Hokkaido Univ.) OGASAWARA, Masamichi; SUZUKI, Mayuka; TAKAHASHI, Tamotsu
- 1K8-35** Transmetalation and Enantioselection Mechanism of Pd/Josiphos Catalyzed Asymmetric Arylation of Silyl Ketene Acetals (Graduate School of Engineering, Hokkaido Univ.) KOBAYASHI, Kenya; ITO, Hajime; YAMAMOTO, Yasunori
- 1K8-36** Teraryl Synthesis by The Cross-Coupling Reaction with HOMSI Reagents (Department of Applied Chemistry, Graduate School of Science and Engineering, Chuo Univ.) SHIMIZU, Kenta; MINAMI, Yasunori; NAKAO, Yoshiaki; HIYAMA, Tamejiro
- 1K8-37** Synthesis of 1,2,3-Triazole NHC Palladium Allyl Complexes and Application to Cross Coupling Reaction (Institute of Science and Engineering, Chuo Univ.) INOMATA, Sayuri; TERASHIMA, Takahiro; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 1K8-38** Palladium-Catalyzed Coupling Reaction of Perfluoroarenes with Diarylyzinc Reagents (Graduate School of Engineering, Osaka Univ.) DOI, Ryohei; OHASHI, Masato; OGOSHI, Sensuke
- 1K8-39** Palladium-catalyzed cross-coupling reaction of fluorinated vinyl chlorides with arylboronic acids (SCRI) YAMAMOTO, Tetsuya; YAMAKAWA, Tetsu

Chair: KUNYASU, Hitoshi (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(1K8-41, 1K8-43, 1K8-44, 1K8-46)
- 1K8-41\*** Cross coupling reaction of arylhalide moiety of bipedal-thiol adsorbed onto gold nanoparticle (Kobe Univ.) KUMAZAWA, Kenta; SUGIE, Atsushi; MORI, Atsunori; KANIE, Kiyoshi; MURAMATSU, Atsushi
- 1K8-43** Catalytic reactions using Transition-metal Nanoclusters (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) YANO, Hiroki; KAWASAKI, Hideya; OBORA, Yasushi
- 1K8-44\*** The development of molecular transformation reaction catalyzed bynanoporous Pd as a non-supported material catalyst (Center for Integrated NanoTechnology Support, Tohoku Univ.; Graduate School of Science, Tohoku Univ.; WPI Advanced Institute for Materials Research, Tohoku Univ.; Institute for Materials Research, Tohoku Univ.) TANAKA, Shinya; KANEKO, Tetsuro; ASAO, Naoki; YAMAMOTO, Yoshinori; CHEN, Mingwei; ZHANG, Wei; INOUE, Akihisa
- 1K8-46\*** Nanoporous bimetallic Pd-Au catalyst for 1,4-hydrosilylation of conjugated cyclic enones (Graduate School of Science, Tohoku Univ.) CHEN, Qiang; JIN, Tienan; MINATO, Taketoshi; TANAKA, Shinya; YAMAMOTO, Yoshinori

Chair: OHASHI, Masato (16 : 50~17 : 50)

- \* 16:40-16:50: interval for laptop PC connection.(1K8-48, 1K8-49, 1K8-50, 1K8-51, 1K8-52, 1K8-53)
- 1K8-48** Development of chiral cationic Pd-catalyzed enantioselective Diels-Alder reaction and computational analysis of enantioselectivity (Graduate School of Science and Engineering, Tokyo Institute of Technology) HONDA, Kazuya; AIKAWA, Kohsuke; MIKAMI, Koichi
- 1K8-49** Activation of Palladium Catalyst by Biphenylene-Substituted Ruthenocynylphosphine (R-Phos) in Suzuki-Miyaura Reaction (Faculty of Eng., Niigata Univ. and Grad. School of Sci. and Tech., Niigata Univ.) HOSHI, Takashi; SATO, Tsutomu; HAGIWARA, Hisahiro; SUZUKI, Toshio
- 1K8-50** Palladium-Catalyzed Reaction of 4*H*-Isoxazol-5-ones with Carbon Monoxide (Kyoto Univ.) OKAMOTO, Kazuhiro; ODA, Tomohiro; OHE, Kouichi
- 1K8-51** Development of the Chemoselective Suzuki-Miyaura Cross Coupling on an *sp*<sup>3</sup>-Carbon with Diborylmethane at Room Temperature (Waseda Univ., Waseda Institute for Advanced Study) OHKUBO, Takahiro; ENDO, Kohei; SHIBATA, Takanori
- 1K8-52** Consecutive Suzuki-Miyaura Cross Coupling of Diborylmethane for One-Pot Synthesis of Diarylmethane (Waseda Univ., Waseda Institute for Advanced Study) ISHIOKA, Takafumi; OHKUBO, Takahiro; ENDO, Kohei; SHIBATA, Takanori
- 1K8-53** Synthesis of 1,2-Naphthalenediols from Diazonaphthoquinones (Kyushu Institute of Technology) KISANUKI, Masato; SAKATA, Rie; OKAUCHI, Tatsuo; KITAMURA, Mitsuru

## Monday, March 26, AM

### Pd

Chair: IWASAKI, Masayuki (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2K8-01, 2K8-02, 2K8-03, 2K8-04, 2K8-05, 2K8-06)
- 2K8-01** Facile Preparation of Dihydroisoquinolines via Nucleophilic Addition to Haloacetylenes Followed by Cyclization Involving C-H Activation (Tokyo Institute of Technology) YAMAGISHI, Masahito; ISHII, Azusa; HATA, Takeshi; URABE, Hirokazu
- 2K8-02** Facile Preparation of 1,2-Benzothiazine 1,1-Dioxides via Nucleophilic

Addition to Haloacetylenes Followed by Cyclization Involving C-H Activation (Tokyo Institute of Technology) NISHIGAI, Ken; YAMAGISHI, Masahito; HATA, Takeshi; URABE, Hirokazu

**2K8-03** Facile Preparation of Indoles via Nucleophilic Addition to Haloacetylenes Followed by Cyclization Involving C-H Activation (Tokyo Institute of Technology) YAMAGISHI, Masahito; ISHII, Azusa; HATA, Takeshi; URABE, Hirokazu

**2K8-04** Pd-Catalyzed Cycloaddition Reaction of Alkynyl Aryl Ethers with Alkynes and Alkenes (Graduate School of Science and Engineering, Chuo Univ.) SHIRAIISHI, Yuki; MINAMI, Yasunori; YAMADA, Kotomi; HIYAMA, Tamejiro

**2K8-05** Palladium-Catalyzed Cycloaddition Reaction of Alkynyl Aryl Ethers with Allenes (Faculty of Science and Engineering, Chuo Univ.) KANDA, Mayuko; MINAMI, Yasunori; SHIRAIISHI, Yuki; HIYAMA, Tamejiro

**2K8-06** Pd-Catalyzed Cyclization of Alkynyl *o*-tolyl Ether through Activation of Benzylic C-H bond (Faculty of Science and Engineering, Chuo Univ.) YAMADA, Kotomi; MINAMI, Yasunori; SHIRAIISHI, Yuki; HIYAMA, Tamejiro

Chair: MINAMI, Yasunori (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(2K8-08, 2K8-10, 2K8-11, 2K8-12, 2K8-13)

**2K8-08\*** Palladium-Catalyzed Direct Alkynylation of Carboxylic Acid Derivatives (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; ANO, Yusuke; CHATANI, Naoto

**2K8-10** Palladium-Catalyzed Synthesis of Phospholes via Carbon-Phosphorus Bonds Cleavage (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; BABA, Katsuaki; CHATANI, Naoto

**2K8-11** Regioselective Synthesis of Polysubstituted Benzenes by Cascade Carbopalladation (Saitama Univ.) TAKAHASHI, Hirotoshi; KINOSHITA, Hidenori; MIURA, Katsukiyo

**2K8-12** Synthesis of Triphenylenes by Palladium-Catalyzed Annulation of 2-Iodobiphenyls with 2-Bromobenzylalcohol (Graduate School of Natural Science and Technology, Okayama Univ.) IINO, Shohei; IWASAKI, Masayuki; NISHIHARA, Yasushi

**2K8-13** Palladium-Catalyzed Direct Thiolation of Arenes with Disulfides (Graduate School of Natural Science and Technology, Okayama Univ.) IYANAGA, Miki; NISHIMURA, Yugo; IWASAKI, Masayuki; NISHIHARA, Yasushi

Chair: KINOSHITA, Hidenori (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(2K8-15, 2K8-17, 2K8-18, 2K8-19, 2K8-20)

**2K8-15\*** Palladium-Catalyzed Arylative Cyclization Reactions of Alkynyl-Substituted Malonate Esters with Aryl Halides (Graduate School of Science, Kyoto Univ.) FUJINO, Daishi; YORIMITSU, Hideki; OSUKA, Atsuhiko

**2K8-17** Cross-Addition Reaction of Silylacetylenes to Conjugated Dienes Catalyzed by Dinuclear Palladium Complexes (Graduate School of Science, Shizuoka Univ.) YAMAMOTO, Takuya; TSUKADA, Naofumi

**2K8-18\*** Asymmetric Sonogashira Coupling with a Chiral Palladium Imidazoindole Phosphine Complex (Institute for Molecular Science) ZHOU, Haifeng; UOZUMI, Yasuhiro

**2K8-19** Palladium-Catalyzed Coupling of Acid Halides with Terminal Alkynes in the Presence of *trans*-Spanning Ligand (Osaka Prefecture Univ.) SHIBATA, Satoshi; SONODA, Motohiro; MASUNO, Haruna; ATOBE, Shingo; OGAWA, Akiya

**2K8-20** Palladium-Catalyzed Ring-Opening Alkynylation of Cyclopropenones (Tokyo Univ. of Science) MATSUDA, Takanori; SAKURAI, Yusuke

## Monday, March 26, PM

### Pd

Chair: TAKENAKA, Kazuhiro (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(2K8-28, 2K8-29, 2K8-30, 2K8-31, 2K8-32, 2K8-33)

**2K8-28** Palladium-catalyzed synthesis of aldehydes employing aliphatic acid chlorides and hydrosilanes (Graduate School of Engineering, Kyoto Univ.) CONG, Cong; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi

**2K8-29** Palladium-catalyzed hydroacylation of allenenes employing acid chlorides and hydrosilanes. (Graduate School of Engineering, Kyoto Univ.) TATSUMI, Kenta; CONG, Cong; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi

**2K8-30** Carbon-Nitrogen Bond Formation at the  $\delta$ -Position through a Sequential Palladium-Catalyzed Dehydrogenation of Butyl Ketones (Kyushu Univ.) YASUOKA, Shohei; KUWANO, Ryoichi; UENO, Satoshi

**2K8-31** Palladium-Catalyzed Selective Formation of Five-Membered Rings from 1,*n*-Dienes via Chain-Walking (Keio Univ.) HAMASAKI, Taro; KOCHI, Takuya; AOYAMA, Yuka; KAWASAKI, Junichi; KAKIUCHI, Fumitoshi

**2K8-32** Palladium-Catalyzed Intramolecular Mizoroki-Heck Reaction of Benzylic Esters (Kyushu Univ.) TAKAGAKI, Yuji; KOMIYA, Sadakazu; UENO, Satoshi; KUWANO, Ryoichi

**2K8-33** Palladium Complex Catalyzed Oxidative Coupling Reaction of Benzofuran Derivatives with Simple Alkenes (Faculty of Chemistry,

Materials and Bioengineering, Kansai Univ.) MIZOBE, Tomoaki; ASAHINA, Akira; OBORA, Yasushi

Chair: UENO, Satoshi (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(2K8-35, 2K8-36, 2K8-37, 2K8-39)

**2K8-35** Palladium-catalyzed cycloaddition and decarbonylative rearrangement of *N*-allenylcarbamoseleenoates (Graduate School of Engineering, Osaka Univ.) SHIRO, Daisuke; NAGAI, Hiroyuki; TSUDA, Susumu; FUJIWARA, Shin-ichi; IWASAKI, Takanori; KUNIASU, Hitoshi; KAMBE, Nobuaki

**2K8-36** Palladium-Catalyzed Oxidative Cyclization of *N*-Methylenebenzohydrazides (Tokyo Univ. of Science) MATSUDA, Takanori; TOMARU, Yuki

**2K8-37\*** Enantioselective Intramolecular Oxidative Allylic C-H Esterification of 4-Alkenoic Acids Catalyzed by Pd-SPRIX (ISIR, Osaka Univ.) AKITA, Mitsutoshi; TANIGAKI, Yugo; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki

**2K8-39\*** Enantioselective Oxidative Cyclization/Carboxylation Sequence of Alkynyl Cyclohexadienones Catalyzed by Pd-SPRIX: Carboxylation of Pd-enolate Intermediate (ISIR, Osaka Univ.) MOHANTA, Suman Chandra; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki

Chair: AIKAWA, Kohsuke (15:50~16:50)

\* 15:40-15:50: interval for laptop PC connection.(2K8-42, 2K8-43, 2K8-45, 2K8-47)

**2K8-42** Chiral *PSiP*-Pincer Palladium Complex-Catalyzed Enantioselective Hydrocarboxylation with CO<sub>2</sub> (Tokyo Institute of Technology) ITO, Tatsuyoshi; TAKAYA, Jun; IWASAWA, Nobuharu

**2K8-43\*** Development of Novel Thioamide Ligands Based on Chiral Spirobi-lactam (ISIR, Osaka Univ.) TAKATANI, Shuhei; TAKENAKA, Kazuhiro; SASAI, Hiroaki

**2K8-45\*** Development of Asymmetric  $\beta$ -Aminonitrile Synthesis Based on Nitrile Group Activation (Nagoya Institute of Technology) HYODO, Kengo; TUJI, Kotaro; OGAWA, Takahiro; NAKAMURA, Shuichi; SHIBATA, Norio

**2K8-47** Palladium(II) NCN-pincer Complexes with Novel Chiral Bis(imidazole) Ligands Catalyzed Asymmetric Decarboxylative Cyanomethylation of Aldimines (Nagoya Institute of Technology) KONDO, Masaru; HYODO, Kengo; NAKAMURA, Shuichi; SHIBATA, Norio

Chair: TAKAYA, Jun (17:00~18:10)

\* 16:50-17:00: interval for laptop PC connection.(2K8-49, 2K8-50, 2K8-51, 2K8-52, 2K8-54)

**2K8-49** Asymmetric Pd-Catalyzed Carbon-Carbon Bond Forming Reactions using Alkyne Nucleophiles (Graduate School of Sciences and Engineering, Tokyo Institute of Technology) SHIMIZU, Natsumi; AIKAWA, Kohsuke; MIKAMI, Koichi

**2K8-50** Hydroxy-amide-functionalized *N*-heterocyclic carbene-Pd complex and catalytic stereoselective reaction (Kansai Univ.) SHIRASAKI, Hiroshi; SAKAGUCHI, Satoshi

**2K8-51** Palladium-Catalyzed Synthesis of 4-Oxaspiro[2.4]heptanes from  $\gamma$ -methylidene- $\delta$ -valerolactones and Aldehydes. (Graduate School of Science, Kyoto Univ.) SHINTANI, Ryo; ITO, Tomoaki; HAYASHI, Tamio

**2K8-52\*** Study on Asymmetric Environment of SPRIX Ligand (ISIR, Osaka Univ.) LIN, Xianjin; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki

**2K8-54\*** Oxidative Intramolecular Cyclization of Alkenyl Alcohols by Enantioselective Pd(II)/Pd(IV) Catalysis (ISIR, Osaka Univ.) DHAGE, Yogesh; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki

## Tuesday, March 27, PM

### Pd

Chair: MIURA, Masahiro (13:00~14:00)

\* 12:50-13:00: interval for laptop PC connection.(3K8-25, 3K8-28)

**3K8-25** Young Scholar Lectures of CSJ Novel Methods for Introduction of Polar Functional Groups via Transition-Metal-Catalyzed Aromatic C-H Bond Cleavage (Keio Univ.) KOCHI, Takuya

**3K8-28** CSJ Award for Young Chemists Development of Highly Selective Synthetic Methods for Cyclic Organic Compounds under Transition Metal Catalysis (Grad. Sch. Sci., Kyoto Univ.) SHINTANI, Ryo

Chair: OHMURA, Toshimichi (14:10~15:10)

\* 14:00-14:10: interval for laptop PC connection.(3K8-32, 3K8-33, 3K8-34, 3K8-36, 3K8-37)

**3K8-32** Palladium-catalyzed one-pot sequential multiple arylation of azoles (Department of Chemistry, Faculty of Engineering, Gifu Univ.) YAMAUCHI, Takayuki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

**3K8-33** Palladium-catalyzed Direct Monoarylation of Thiophene-, Benzothio-phenene-, and Indoleacetic Acids (Faculty of Engineering, Osaka Univ.) TAKEDA, Daisuke; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

**3K8-34\*** Pd-catalyzed Direct Arylation of Polycyclic Aromatic Hydrocarbons (1) (Nagoya Univ.) KAWASUMI, Katsuaki; MOCHIDA, Kenji; SEGAWA, Yasutomo; SCOTT, Lawrence T.; ITAMI, Kenichiro

- 3K8-36** Pd-catalyzed Direct Arylation of Polycyclic Aromatic Hydrocarbons (2) (Nagoya Univ.) KAJINO, Tomonori; KAWASUMI, Katsuaki; MOCHIDA, Kenji; SEGAWA, Yasutomo; ITAMI, Kenichiro
- 3K8-37** Pd-catalyzed Direct Arylation of Polycyclic Aromatic Hydrocarbons (3) (Graduate School of Science, Nagoya Univ.) OZAKI, Kyohei; SEGAWA, Yasutomo; ITAMI, Kenichiro

Chair: SHIBAHARA, Fumitoshi (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(3K8-39, 3K8-40, 3K8-41, 3K8-42, 3K8-43, 3K8-44)
- 3K8-39** Synthesis of  $\pi$ -Conjugated Isoindoles via Catalytic Dehydrogenation and Transition-Metal-Free C-H Alkynylation (Kyoto Univ.) OHMURA, Toshimichi; KOMORI, Yusuke; SUGINOME, Michinori
- 3K8-40** Synthesis of 2-Substituted Indoles through one-pot Pd catalyzed reaction (Okayama Univ. of Sci.) YAMADA, Haruo; NAGAO, Hajime; WAKAMATU, Kan
- 3K8-41** Computational Study of the Reaction Mechanism for Synthesis of Indole Derivatives Using Palladium Catalyst (Okayama Univ. of Sci.) WAKAMATU, Kan; TANAKA, Masanori; NAGAO, Hajime; YAMADA, Haruo
- 3K8-42** Hindered Heterobiaryls by C-H Arylation: New Pd Catalyst and Asymmetric Reaction (Dept Chem, Nagoya Univ) YAMAGUCHI, Kazuya; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
- 3K8-43** Pd-Catalyzed C4-Selective C-H Arylation of Thiazoles (Dept Chem, Nagoya Univ) TANI, Satoshi; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
- 3K8-44** C4-Selective C-H Arylation of 2-Aminothiazoles for Synthesis of Bioactive Compounds (Dept Chem, Nagoya Univ) UEHARA, Takahiro; TANI, Satoshi; SEKIZAWA, Hiromi; YAMAGUCHI, Junichiro; ITAMI, Kenichiro

Chair: WAKAMATU, Kan (16 : 30~17 : 30)

- \* 16:20-16:30: interval for laptop PC connection.(3K8-46, 3K8-47, 3K8-48, 3K8-49, 3K8-50, 3K8-51)
- 3K8-46** Palladium-Catalyzed Direct Arylation of Fluorene Benzylic Position and its Application to the Synthesis of Substituted Sumanenes (SOKENDAI; IMS; National Cheng Kung Univ.) ONOGL, Satoru; HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro; CHEN, Jheng-jhih; WU, Yao-ting
- 3K8-47** Synthesis of 1,3-Diarylpropene by Hydrazone-Palladium Catalyzed Mizoroki-Heck Reaction and Allylic Arylation (Chiba Univ.) MINO, Takashi; SUZUKI, Saori; HIRAI, Kiminori; KOIZUMI, Tomoko; KAJIWARA, Kenji; SAKAMOTO, Masami; FUJITA, Tsutomu
- 3K8-48** Synthesis of 1,3-Diarylpropene by Hydrazone-Palladium Catalyzed Allylic Arylation of Allyl Ether (Chiba Univ.) MINO, Takashi; KOGURE, Taketo; HIRAI, Kiminori; KOIZUMI, Tomoko; SAKAMOTO, Masami; FUJITA, Tsutomu
- 3K8-49** Palladium-catalyzed Reaction of cis-4-Cyclopentene-1,3-diol Monoacetate with  $\beta$ -Ketoesters (Tokyo Institute of Technology, School of Bioscience and Biotechnology) KINOUCI, Wataru; KOBAYASHI, Yuichi
- 3K8-50** Palladium-Catalyzed Dimerization of 1-Aryl-3-(Silyl)allyl Acetate (Univ. of Toyama) HOMURA, Naoki; YOSHIKAWA, Saori; HORINO, Yoshikazu; KURODA, Shigeyasu
- 3K8-51** Palladium-Catalyzed Intramolecular Insertion Reaction of Cyclobutanones into a silicon-silicon bond (Graduate School of Engineering, Kyoto Univ.) IKEMOTO, Wataru; ISHIDA, Naoki; MURAKAMI, Masahiro

### Wednesday, March 28, AM

#### In

Chair: OKAMOTO, Kazuhiro (9 : 00~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4K8-01, 4K8-02, 4K8-03, 4K8-04, 4K8-05, 4K8-06)
- 4K8-01** Indium-Catalyzed Reductive Alkylation of Indoles with Carbonyl Compounds and Hydrosilanes (School of Science and Technology, Meiji Univ.) TSUCHIMOTO, Teruhisa; HONDO, Takehiro
- 4K8-02** Radical Coupling of Iodophosphonates Using Organoindium Species (Osaka Univ.) SUZUKI, Itaru; KIYOKAWA, Kensuke; YASUDA, Makoto; BABA, Akio
- 4K8-03** Indium-Catalyzed Alkylation of *N*-Heteroarenes with Iodoalkanes and Hydrosilanes (Saitama Univ.) OGAWA, Tetsuya; KINOSHITA, Hidenori; MIURA, Katsukiyo
- 4K8-04** Indium Triflate-Promoted Cyclization of 5-Hexynyl Ketones (Saitama Univ.) MIYAMA, Chika; YAMAMOTO, Kiyomi; KINOSHITA, Hidenori; ICHIKAWA, Junji; MIURA, Katsukiyo
- 4K8-05** Catalytic Synthesis of Substituted F-PAHs by Domino Reaction of Difluoroallenes (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) ZHAO, Nan; FUCHIBE, Kohei; ICHIKAWA, Junji
- 4K8-06** Ni-catalyzed In(I)-mediated Multi-component Reaction (Graduate School of Engineering, Nagoya Institute of Technology) SUZUKI, Yuuki; HIRASHITA, Tsunehisa; ARAKI, Shuki

#### Ga

Chair: KINOSHITA, Hidenori (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4K8-08, 4K8-09, 4K8-10,

4K8-11, 4K8-12, 4K8-13)

- 4K8-08** Synthesis of Alkenylgallium Using Alkynes, Gallium Tribromide, and Silyl Ketene Acetals: Application to Cross Coupling Reactions (Osaka Univ.) NISHIMOTO, Yoshihiro; UEDA, Hiroki; YASUDA, Makoto; BABA, Akio
- 4K8-09** Gallium-Catalyzed Electrophilic Cyanation of Aromatic Compounds (Kyoto Univ.) OKAMOTO, Kazuhiro; WATANABE, Masahito; MURAI, Masahito; HATANANO, Ryo; OHE, Kouichi

#### B

- 4K8-10** *N*-Heterocyclic Carbene-Catalyzed Hydroboration of Alkynes (Graduate School of Engineering, Hiroshima Univ.) YOSHIDA, Hiroto; YOSHIDA, Ryuma; TAKAKI, Ken

#### Pd

- 4K8-11** Synthesis of symmetrical Functionalized Organic Molecules by C-allylation of Trihydroxybenzene (Nagasaki Univ., Faculty of Engineering) HIRATA, Gouki; TAKUSHIMA, Daiki; ONODERA, Genn; KIMURA, Masanari
- 4K8-12** Pd-Catalyzed Regio- and Stereoselective Coupling Reaction of Diene, Terminal Alkyne, and Organoboranes (Nagasaki Univ., Faculty of Engineering) SATOMURA, Hideaki; FUKUSHIMA, Masahiro; ONODERA, Gen; KIMURA, Masanari
- 4K8-13** Pd-Catalyzed Propargyl Cyclic Acetal Promoted by Diethylzinc (Nagasaki Univ., Faculty of Engineering) TAKUSHIMA, Daiki; ONODERA, Gen; KIMURA, Masanari

Chair: IWASAKI, Masayuki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4K8-15, 4K8-16, 4K8-17, 4K8-18, 4K8-19, 4K8-20)
- 4K8-15** Palladium-Catalyzed Arylfluorination of Allenes (Graduate School of Engineering, Osaka Univ.) WAKASA, Takashi; KUNIIYASU, Hitoshi; SANAGAWA, Atsushi; IWASAKI, Takanori; KAMBE, Nobuaki
- 4K8-16** Palladium-Catalyzed Electrochemical Iodination of Aromatic Compounds and One-Pot Reaction via ON/OFF Switching of Electric Current (Keio Univ.) AISO, Hiroko; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 4K8-17** Palladium-Catalyzed Oxidative Phosphonylation of Arenes and Alkenes Directed by *N*-Heterocycles (Graduate School of Engineering, Kyoto Univ.) LI, Changkun; ISHIDA, Naoki; MURAKAMI, Masahiro
- 4K8-18** Palladium-catalyzed oxidative coupling of disilane and simple alkenes to allylsilanes (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) NAKAI, Syunzi; SHIMIZU, Yosuke; OBORA, Yasushi
- 4K8-19** Palladium-Catalyzed Ortho-Selective Aromatic C-H Borylation (Okayama Univ.) IWANAGA, Takashi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 4K8-20** Palladium-Catalyzed Enantioselective Desymmetrization of Silacyclobutanes: Construction of Silacycles Possessing a Tetraorganosilicon Stereocenter. (Graduate School of Science, Kyoto Univ.) SHINTANI, Ryo; MORIYA, Kohei; HAYASHI, Tamio

### Wednesday, March 28, PM

#### Pd

Chair: NAGATA, Yuuya (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4K8-28, 4K8-29, 4K8-30, 4K8-31, 4K8-32, 4K8-33)
- 4K8-28** Synthesis of unsymmetrical diborons catalyzed by *PSiP*-pincer type palladium complex (Tokyo Institute of Technology) KIRAI, Naohiro; TAKAYA, Jun; IWASAWA, Nobuharu
- 4K8-29** Pd-catalyzed Suzuki-Miyaura coupling reaction using bis(catecholate) diboron (SCRI; Catalysis Group) TAKAGI, Jun; YAMAKAWA, Tetsu
- 4K8-30** Diboration and Suzuki-Miyaura Coupling of Alkynyl MIDA boronates (Graduate School of Natural Science and Technology, Okayama Univ.) SUETSUGU, Masato; IWASAKI, Masayuki; NISHIHARA, Yasushi
- 4K8-31** Highly Selective Synthesis of Multi-substituted Olefins through Silaboration of Alkynylboronates and Sequential Cross-Couplings (Graduate School of Natural Science and Technology, Okayama Univ.) JIAO, Jiao; IWASAKI, Masayuki; NISHIHARA, Yasushi
- 4K8-32** Amination of Phenylboronic Acid Catalyzed by a Palladium-Copper Dinuclear Complex (Graduate School of Science, Shizuoka Univ.) AONO, Shiori; TSUKADA, Naofumi
- 4K8-33** Pd-Catalyzed Direct Cross-Coupling Reaction of Heteroarenes with Aryltrimethylsilanes Using Oxygen as the Terminal Oxidant (Graduate School of Engineering and Environment Conservation Research Institute, Tohoku Univ.) FUNAKI, Kenji; YOSHINARI, Yuki; SATO, Tetsuo; OI, Shuichi

Chair: ISHIDA, Naoki (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4K8-35, 4K8-36, 4K8-37, 4K8-38, 4K8-39, 4K8-40)
- 4K8-35** Pd-catalyzed P-C cross-coupling reaction using  $\alpha$ -oxymethylphosphine derivatives (Ehime Univ.) MATSUURA, Takashi; TANAKA, Ippei;



WATANABE, Yutaka; HAYASHI, Minoru

- 4K8-36** Efficient synthesis of tertiary phosphine derivatives via Pd-catalyzed P-C cross-coupling reaction (Ehime Univ.) TANAKA, Ipepei; MATSUURA, Takashi; WATANABE, Yutaka; HAYASHI, Minoru
- 4K8-37** Palladium-Catalyzed Synthesis of a Phosphine Oxide with a Chiral Center (Okayama Univ.) ORIGUCHI, Kazuki; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 4K8-38** Pd-catalyzed Asymmetric Hydrosilylation Using PQXphos as Chiral Helical Polymer Ligand (Kyoto Univ.) ADACHI, Takumi; AKAI, Yuto; YAMAMOTO, Takeshi; NAGATA, Yuuya; SUGINOME, Michinori
- 4K8-39** Pd-Catalyzed Asymmetric Ring Opening Silaboration of Methylene-cyclopropanes Using Chiral Helical Polymer Ligand (Kyoto Univ.) AKAI, Yuto; YAMAMOTO, Takeshi; NAGATA, Yuuya; OHMURA, Toshimichi; SUGINOME, Michinori
- 4K8-40** Synthesis of Helically Chiral Polymer Ligands PQXphos via Post-polymerization Functionalization (Kyoto Univ.) YAMAMOTO, Takeshi; AKAI, Yuto; NAGATA, Yuuya; SUGINOME, Michinori

## Room L1

### 12th Bldg. 12-210

## Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

Sunday, March 25, AM

Ir

Chair: ONODERA, Gen (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1L1-01, 1L1-02, 1L1-03, 1L1-04, 1L1-05, 1L1-06)
- 1L1-01** Iridium-catalyzed reaction of enones with alcohols to 1,3-diketones (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) NAKAMURA, Kazuhiro; HATANAKA, Shintaro; OBORA, Yasushi
- 1L1-02** Guerbet reaction of primary alcohols catalyzed by Iridium nanoclusters (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) KITAMURA, Koji; KAWASAKI, Hideya; OBORA, Yasushi
- 1L1-03** Iridium Complex-Catalyzed  $\alpha$ -alkylation of Methylquinolines with Alcohols (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; KU-HRC) OGAWA, Shinji; YAMAMOTO, Nobuyuki; OBORA, Yasushi
- 1L1-04** Iridium-Catalyzed C-H Borylation at the Methyl Group of Methylchlorosilane Derivatives (Kyoto Univ.) OHMURA, Toshimichi; TORIGOE, Takeru; SUGINOME, Michinori
- 1L1-05** Dehydrogenation of Carbohydrates Catalyzed by a Water-Soluble Iridium Complex Bearing a Functional Bipyridine Ligand (Kyoto Univ.) INOUE, Takayoshi; KAWAHARA, Ryoko; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 1L1-06** Synthesis of Primary Amines by Water-Soluble Triamine Iridium Complex-Catalyzed N-Alkylation of Aqueous Ammonia with Alcohols (Kyoto Univ.) KAWAHARA, Ryoko; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei

Chair: MIYAKE, Yoshihiro (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1L1-08, 1L1-09, 1L1-10, 1L1-11, 1L1-12, 1L1-13)
- 1L1-08** Ir catalyzed Asymmetric Tandem Reaction of meso-diols and Aldehydes (Univ. of Osaka; ISIR) SUZUKI, Takeyuki; ISHIZAKA, Yuka; ZHOU, Da-Yang; ASANO, Kaori; SASAI, Hiroaki
- 1L1-09** Iridium-Catalyzed Addition of 1,3-Diketones to Alkenes (Aoyama Gakuin Univ.) TODA, Nouno; OSANAI, Dai; ONODERA, Gen; TAKEUCHI, Ryo
- 1L1-10** Iridium/Arsine Catalyzed Regioselective C-H Borylation of Heteroarenes Having Carbonyl Groups with Diboron (Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) HIRAKI, Shotaro; ISHIYAMA, Tatsuo; MIYAURA, Norio; ITO, Hajime
- 1L1-11** Iridium-Catalyzed Ortho-C-H Borylation of Aromatic Aldimines with Diboron (Graduate School of Engineering, Hokkaido Univ.) AMOU, Tatsunosuke; ISHIYAMA, Tatsuo; ITO, Hajime
- 1L1-12** Cationic Ir(I)-Catalyzed Enantioselective Secondary  $sp^3$ C-H Bond Activation of 2-(Alkylamino)pyridines (Waseda Univ.) MATSUO, Yusuke; PAN, Shiguang; ENDO, Kohei; SHIBATA, Takanori
- 1L1-13<sup>#</sup>** Cationic Ir(I)-Catalyzed Intermolecular Regio- and Enantioselective hydroamination of Alkenes with Heteroaromatic Amines (Waseda Univ.) PAN, Shiguang; ENDO, Kohei; SHIBATA, Takanori

Chair: ENDOU, Kouhei (11 : 20 ~ 12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(1L1-15, 1L1-17, 1L1-19, 1L1-20)
- 1L1-15<sup>\*</sup>** Visible light mediated addition of  $\alpha$  aminoalkyl radicals to alkenes (School of Engineering; The Univ. of Tokyo) NAKAJIMA, Kazunari; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

Cr

- 1L1-17<sup>\*</sup>** Construction of 1-Azabicyclo[5.3.0]decans through Electrophilic Activation of Alkynes Using Group 6 Metal Carbonyl Complexes (Tokyo Institute of Technology) KARIBE, Yusuke; KUSAMA, Hiroyuki; IWASAWA, Nobuharu
- 1L1-19** Endo-Mode Ring-Closing Metathesis in Arene Chromium Complexes (Osaka Prefecture Univ.; Hokkaido Univ.) KAMIKAWA, Ken; MORITA, Tomotaka; ARAE, Sachie; WU, Wei-yi; WATANABE, Susumu; TAKAHASHI, Tamotsu; OGASAWARA, Masamichi
- 1L1-20<sup>#</sup>** Synthesis of Planar-Chiral (Phosphino-arene)chromium Complex by Asymmetric Ring-Closing Metathesis and Its Application as Chiral Ligand in Enantioselective Catalysis (Osaka Prefecture Univ.; Hokkaido Univ.) OGASAWARA, Masamichi; WU, Wei-yi; ARAE, Sachie; MORITA, Tomotaka; WATANABE, Susumu; TAKAHASHI, Tamotsu; KAMIKAWA, Ken

Sunday, March 25, PM

Chair: SASAI, Hiroaki (13 : 30 ~ 14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1L1-28)
- 1L1-28 CSJ Award for Creative Works** Design of Transition Metal Catalysts Based on Advanced Control of Coordination Equilibriums and Reaction Spaces (Grad. Sch. Sci., Hokkaido Univ.) SAWAMURA, Masaya

Rh

Chair: KITA, Yusuke (14 : 40 ~ 15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(1L1-35, 1L1-37, 1L1-39, 1L1-40)
- 1L1-35<sup>\*</sup>** Catalytic Dearomatization of Pyridines via Regioselective Addition of Boron Reagents (Kyoto Univ.) OSHIMA, Kazuyuki; OHMURA, Toshimichi; SUGINOME, Michinori
- 1L1-37<sup>\*</sup>** Aromatic C-Cl and C-H Activation-Borylation Reactions with Silica-SMAP Catalysts (Department of Chemistry, Faculty of Science, Hokkaido Univ.) KAWAMORITA, Soichiro; OHMIYA, Hirohisa; IWAI, Tomohiro; SAWAMURA, Masaya
- 1L1-39** Rh-Catalyzed Direct Borylation of  $sp^3$ C-H Adjacent to N Atom with Silica-Supported Cage-Type Triarylphosphine (Department of Chemistry, Faculty of Science, Hokkaido Univ.) MIYAZAKI, Tatsuya; KAWAMORITA, Soichiro; OHMIYA, Hirohisa; IWAI, Tomohiro; SAWAMURA, Masaya
- 1L1-40** Rhodium-Catalyzed Allylation Reaction of Aldehydes with 2-Silylalkenylboronates (Graduate School of Engineering, Kyoto Univ.) NISHIDA, Yui; MIURA, Tomoya; MURAKAMI, Masahiro

Chair: IWAI, Tomohiro (15 : 50 ~ 16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(1L1-42, 1L1-44, 1L1-45, 1L1-46, 1L1-47)
- 1L1-42<sup>\*</sup>** Rhodium-Catalyzed Synthesis of Benzosilole Derivatives via the Cleavage of a Carbon-Silicon Bond (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; ONOE, Masahiro; BABA, Katsuaki; KIM, Yoonjoo; KITA, Yusuke; CHATANI, Naoto
- 1L1-44** Rhodium-Catalyzed Decyanative Borylation Reaction of Nitriles (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; KINUTA, Hirotsuka; KITA, Yusuke; TAKAHASHI, Hiroaki; MORI, Seiji; CHATANI, Naoto
- 1L1-45** 1,5-Shift of Rhodium in Catalytic Silylation Reaction of Carbon-Cyano Bonds (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; HASEGAWA, Junya; KITA, Yusuke; CHATANI, Naoto
- 1L1-46** Synthesis of 3,3-disubstituted  $\alpha$ -tetralones by the rhodium-catalyzed reaction of 1-(2-haloaryl)cyclobutanols (Graduate school of Engineering Kyoto Univ.) SAWANO, Shota; ISHIDA, Naoki; MURAKAMI, Masahiro
- 1L1-47** Rhodium-Catalyzed Reaction of Cyclobutanols with Isocyanates (Graduate School of Engineering, Kyoto Univ.) NAKANISHI, Yuuta; SHIMAMOTO, Yasuhiro; ISHIDA, Naoki; MURAKAMI, Masahiro

Chair: KORENAGA, Toshinobu (17 : 00 ~ 17 : 40)

- \* 16:50-17:00: interval for laptop PC connection.(1L1-49, 1L1-50, 1L1-51, 1L1-52)
- 1L1-49** Rhodium-Catalyzed Alkyne Insertion into Benzocyclobutenols (Graduate school of Engineering, Kyoto Univ.) MASUDA, Yusuke; SAWANO, Shota; ISHIDA, Naoki; MURAKAMI, Masahiro
- 1L1-50** Rhodium catalyzed CC/CS metathesis reaction of benzyl ketone CC bond and thioester CS bond (Tohoku Univ.) ARISAWA, Mieko; KUWAJIMA, Manabu; TORIYAMA, Fumihiko; YAMAGUCHI, Masahiko
- 1L1-51** Rhodium-catalyzed organothiolation reaction of heteroaromatic compounds (Tohoku Univ.) ARISAWA, Mieko; NIHEI, Yuri; YAMAGUCHI, Masahiko
- 1L1-52** Rhodium catalyzed fluorination reaction of silylalkyne with substituted pentafluorobenzene (Tohoku Univ.) ARISAWA, Mieko; KOBAYASHI, Haruki; YAMAGUCHI, Masahiko

Chair: YAMAGUCHI, Masahiko (17:50~18:30)

- \* 17:40-17:50: interval for laptop PC connection.(1L1-54, 1L1-55, 1L1-56, 1L1-57)
- 1L1-54** Synthesis of  $\alpha$ -amino ketones from terminal alkynes via rhodium-catalyzed denitrogenative hydration of *N*-sulfonyl-1,2,3-triazoles (Graduate School of Engineering, Kyoto Univ.) BIYAJIMA, Tsuneaki; MIURA, Tomoya; MURAKAMI, Masahiro
- 1L1-55** Ring Expansion Reaction of Triazoles Prompted by Rhodium(II)-Catalyzed Release of Molecular Nitrogen. (Graduate School of Engineering, Kyoto Univ.) FUNAKOSHI, Yuta; MORIMOTO, Masao; MIURA, Tomoya; MURAKAMI, Masahiro
- 1L1-56** BFPy Phosphine: Highly Electron-poor Ligand with Moderate Bulkiness (Okayama Univ.) KORENAGA, Toshinobu; KO, Aram; TANAKA, Yuki; EMA, Tadashi; SAKAI, Takashi
- 1L1-57** Rh-catalyzed 1,2-Addition Reaction of Arylboronic Acid by using BFPy phosphine. (Okayama Univ.) KORENAGA, Toshinobu; KO, Aram; EMA, Tadashi; SAKAI, Takashi

## Monday, March 26, AM

## Rh

Chair: ISHIDA, Naoki (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2L1-01, 2L1-02, 2L1-03, 2L1-04, 2L1-05, 2L1-06)
- 2L1-01** Quantum Chemical Study of Rhodium-Catalyzed Asymmetric 1,4-Addition Reactions (Hoshi Univ.) SAKATA, Ken
- 2L1-02** Asymmetric 1,4-Addition to Maleimide at Low Temperature Catalyzed by Rh/MeO-F<sub>12</sub>-BIPHEP. (Okayama Univ.) KORENAGA, Toshinobu; UOTANI, Kotaro; KO, Aram; EMA, Tadashi; SAKAI, Takashi
- 2L1-03** Rhodium-Catalyzed Asymmetric 1,4-Addition Using BICMAP Ligand (Chiba Univ.) MINO, Takashi; HASHIMOTO, Masatoshi; UEHARA, Katsunori; SAKAMOTO, Masami; FUJITA, Tsutomu
- 2L1-04** Synthesis of *N*-Heterocyclic Carbene Ligands Bearing a Cyclodextrin and Their Application to the Rh-Catalyzed Asymmetric Arylation of Aldehydes (Graduate School of Engineering, Osaka Univ.; Osaka Dental Univ.) ASAHII, Kaoru; TSUDA, Susumu; FUJIWARA, Shin-ichi; IWASAKI, Takanori; KAMBE, Nobuaki
- 2L1-05** Rhodium-Catalyzed Asymmetric Addition of Arylboronic Acids to Benzothiofene 1,1-Dioxides (Graduate School of Science, Kyoto Univ.) NISHIMURA, Takahiro; EBE, Yusuke; HAYASHI, Tamio
- 2L1-06** Synthesis of Triphenylene and Azatriphenylene Derivatives by Rhodium-Catalyzed [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) MURAYAMA, Koichi; SAWADA, Yayoi; TANAKA, Ken

Chair: NISHIMURA, Takahiro (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(2L1-08, 2L1-09, 2L1-10, 2L1-11, 2L1-12, 2L1-13)
- 2L1-08** Rh-Catalyzed [2+2+2] Cycloaddition of Alkynes with Carbodiimides (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) ISHII, Masahiro; MORI, Fumiya; TANAKA, Ken
- 2L1-09<sup>#</sup>** Synthesis of 3-Hydroxyindolines through Asymmetric Cyclization of 2-(*N*-Alkyl-*N*-arylamino)acetophenones Driven by Sunlight and Rhodium (Graduate School of Engineering, Kyoto Univ.) NECAS, David; ISHIDA, Naoki; MURAKAMI, Masahiro
- 2L1-10** Synthesis of Hexakis(5-Bpin-2-furyl)benzene by RhCl<sub>3</sub>/amine-Catalyzed Cyclotrimerization and its Application to Suzuki-Miyaura Coupling (Graduate School of Natural Science and Technology, Okayama Univ.) HARADA, Junji; MITSUDO, Koichi; SUGA, Seiji; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 2L1-11** Construction of Cyclic Polyarylene Framework Containing Heteroaromatics by Consecutive Inter- and Intramolecular [2+2+2] Cycloadditions (Waseda Univ.) FUJIMOTO, Masako; ENDO, Kohei; SHIBATA, Takanori
- 2L1-12** Rh-Catalyzed One-Pot Intermolecular [2+2+2] Cross Trimerization/Asymmetric Intramolecular [4+2] Cycloaddition of Aryl Ethynyl Ethers and 5-Alkynals (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) MIYAUCHI, Yuta; TANAKA, Ken
- 2L1-13** Rhodium-Catalyzed Asymmetric [2+2+2] Cycloaddition of 1,6-Enynes with Acrylamides (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) MASUTOMI, Koji; SAKIYAMA, Norifumi; TANAKA, Ken

Chair: ENDOU, Kouhei (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(2L1-15, 2L1-17, 2L1-18, 2L1-19, 2L1-20)
- 2L1-15\*** Air-Stable Chiral Phosphine Ligands: Synthesis and Use in Rhodium-Catalyzed Asymmetric Hydrogenation (Nippon Chemical Industrial Co., Ltd.) IMAMOTO, Tsuneo; TAMURA, Ken; CHOU, Chinpou; HORIUCHI, Yumi; SUGIYA, Masashi
- 2L1-17** Rhodium-Catalyzed [2+2+1] Cross-Cyclotrimerization of Silylacetylenes and Alkynyl Esters Leading to Substituted Fulvenes (Department of

Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) SHIBATA, Yu; TANAKA, Ken

- 2L1-18** Rhodium-Catalyzed Linear Cross-Trimerization of Silylacetylenes/Electron-Deficient Alkynes/Electron-Deficient Alkenes (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) HOSHINO, Yuki; SHIBATA, Yu; TANAKA, Ken
- 2L1-19** Synthesis of Azepine Derivatives via Rhodium-Catalyzed Tandem [2,3]-Rearrangement-Heterocyclization (Graduate School of Science, Tohoku Univ.) SATO, Yoshinori; OKAMOTO, Masashi; NAKAMURA, Itaru; TERADA, Masahiro
- 2L1-20** Asymmetric Cyclization of Alkynyl Benzyl Ethers with Optically Active Rhodium Catalyst via C-H Activation (Tokyo Institute of Technology) WATANABE, Yu; SHIMAOKA, Rika; HATA, Takeshi; URABE, Hirokazu

## Monday, March 26, PM

## Rh

Chair: HATA, Takeshi (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(2L1-28, 2L1-29, 2L1-30, 2L1-31, 2L1-32, 2L1-33)
- 2L1-28** Synthesis of Planar Chiral Ferrocene Derivatives via Catalytic C-H Activation (Waseda Univ.) TAKEBAYASHI, Satoshi; ENDO, Kohei; SHIBATA, Takanori
- 2L1-29** Rhodium-Catalyzed Cyclization Reactions of  $\gamma$ -Alkynylaldehydes with Carboxylic Acid Anhydrides (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) TAJIMA, Yuki; TANAKA, Ken
- 2L1-30** Rhodium-Catalyzed Intramolecular C(sp<sup>3</sup>)-H Silylation at *Delta* Position of Hydrosilanes Bearing Alkyl Chains (Okayama Univ.) NAKAHARA, Takahiro; TAKESHIMA, Hirotaka; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 2L1-31** Rhodium-Catalyzed Asymmetric Synthesis of Spirosilabifluorenes (Okayama Univ.) YAMAUCHI, Kanai; TAMURA, Naoya; SEIKI, Takayuki; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 2L1-32** Mechanistic study of anionic Rh complexes catalyzed cross-coupling reaction of vinyl ethers with Grignard reagents (Graduate School of Engineering, Osaka Univ.) KOMATSU, Yuya; MIYATA, Yoshinori; IWASAKI, Takanori; KUNIYASU, Hitoshi; KAMBE, Nobuaki
- 2L1-33** Rhodium-Catalyzed Silylation of Pyridines with Hydrosilanes at the 3-Position (Faculty of Engineering, Osaka Univ.) FUKUMOTO, Yoshiya; SHIRATANI, Motohiro; CHATANI, Naoto

Chair: YASUDA, Makoto (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(2L1-35, 2L1-36, 2L1-37, 2L1-38, 2L1-39, 2L1-40)
- 2L1-35** Enantioselective Conjugate Reduction of 3,3-Diarylacrylates with Rh-PHEBOX Catalysts (Nagoya Univ.) ITOH, Kengou; ITO, Jun-ichi; NNSHIYAMA, Hisao
- 2L1-36** Rhodium Catalyzed Enantioselective Hydrogenation of alpha,beta-Unsaturated phosphonates by New ClickFerrophos Ligands (Institute of Science and Engineering, Chuo Univ.) KONNO, Takashi; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 2L1-37** Rhodium-Catalyzed Anti-Markovnikov Addition of Hydrazines to Terminal Alkynes (Faculty of Engineering, Osaka Univ.) FUKUMOTO, Yoshiya; OMAE, Akihiro; CHATANI, Naoto

## Si

- 2L1-38** Synthetic Use of 2-Silylpyridines: Non-catalytic, Nucleophilic 2-Pyridylation of Aldehydes (Kyoto Univ.) OHMURA, Toshimichi; YASUI, Ryouhei; OSHIMA, Kazuyuki; SUGINOME, Michinori
- 2L1-39** Synthesis and Carbonyl Addition of Dimethylsilylacetonitrile (Saitama Univ.) JINZAKI, Takaaki; KINOSHITA, Hidenori; MIURA, Katsukiyo
- 2L1-40** Cross-coupling between Alkenylsilanes and Organic Halides Promoted by Intramolecular Coordination of Copper(I) Alkoxide (Tokyo Univ. of Agric. and Tech.) TSUBOUCHI, Akira; MURAMATSU, Daisuke; TAKEDA, Takeshi

Chair: OHMURA, Toshimichi (15:50~16:50)

- \* 15:40-15:50: interval for laptop PC connection.(2L1-42, 2L1-43, 2L1-44, 2L1-45, 2L1-46, 2L1-47)
- 2L1-42** Preparation of Dienylsilanes by Titanocene(II)-promoted Reaction of  $\beta$ -Silylthioacetals with Alkynes (Tokyo Univ. of Agric. and Tech.) TSUBOUCHI, Akira; MORI, Ayako; MORISHIGE, Nana; TAKEDA, Takeshi
- 2L1-43** Photoallylation Reaction of Dicyanoarenes with Hypercoordinated Allylsilicon Reagents (Shimane Univ.) MATSUOKA, Daisuke; NISHIGAICHI, Yutaka; IWAMOTO, Hidetoshi
- 2L1-44** Synthesis and Luminescence Properties of Dithienosilole Derivatives Unsymmetrically Substituted by Electron-donating and Accepting Groups (Department of Applied Chemistry, Graduate School of Engineering,

Hiroshima Univ.) TOMINAGA, Yuta; MIZUMO, Tomonobu; OHSHITA, Joji

### Sn

- 2L1-45** Direct Synthesis of Alkynylstannanes from Tributyltin Alkoxide and Terminal Alkynes Catalyzed by Zinc Halide (Osaka Univ.) KIYOKAWA, Kensuke; TACHIKAKE, Nodoka; YASUDA, Makoto; BABA, Akio
- 2L1-46** Direct Stereoselective Michael Reaction of Alkoxy Ketones Catalyzed by Tin Methoxide (Osaka Univ.) KIYOKAWA, Kensuke; YASUDA, Makoto; BABA, Akio
- 2L1-47** Hydrostannylation of Vinylcyclopropanes Using Dibutyltin Hydride (Research Center for Environmental Preserving, Graduate School of Engineering, Osaka Univ.) KANI, Yuria; TSUNOI, Shinji; SHIBATA, Ikuya

Chair: YASUDA, Makoto (17:00~18:00)

- \* 16:50-17:00: interval for laptop PC connection.(2L1-49, 2L1-50, 2L1-51, 2L1-52, 2L1-54)
- 2L1-49** Hydrostannylation of Alkynes with Tribenzylstannane and Its Application to Organic Synthesis (Saitama Univ.) YAMAKAWA, Takeshi; KINOSHITA, Hidenori; MIURA, Katsukiyo
- 2L1-50** Asymmetric Protonation of Alkynyl Trihaloacetates Using Chiral Tin Catalysts (Chiba Univ.) SUGITA, Takuya; YOSIDA, Kazuhiro; YANAGISAWA, Akira
- 2L1-51** Nucleophilic Addition toward N-Sulfonylimines via Acyclic Transition State Based on the Activation by Silyl Triflate (Shimane Univ.) TSURUTA, Shinji; NISHIGAICHI, Yutaka; IWAMOTO, Hidetoshi

### Sc

- 2L1-52\*\*** Rare-Earth-Catalyzed Regioselective C-H alkylation of Pyridines (RIKEN) GUAN, Bing-tao; HOU, Zhaomin
- 2L1-54** Regioselective alkylation of anisoles catalyzed by rare-earth complexes (RIKEN) OYAMADA, Juzo; HOU, Zhaomin

## Tuesday, March 27, PM

### Cu

Chair: ICHIKAWA, Junji (13:00~14:00)

- \* 12:50-13:00: interval for laptop PC connection.(3L1-25, 3L1-28)
- 3L1-25** Young Scholar Lectures of CSJ Synergistic Effects of Consecutive Reaction Sites for Highly Efficient Catalytic Reactions (Waseda Institute for Advanced Study; JST-PRESTO) ENDOU, Kouhei
- 3L1-28** Young Scholar Lectures of CSJ pi-acidic metal-catalyzed reactions via cleavage of sigma bonds between main elements in body (Grad. Sch. Sci., Tohoku Univ.) NAKAMURA, Itaru
- Chair: NAKAMURA, Itaru (14:10~15:10)
- \* 14:00-14:10: interval for laptop PC connection.(3L1-32, 3L1-34, 3L1-36)
- 3L1-32\*** Lithium Cation-Catalyzed Nazarov-Type Cyclization of 1-Aryl-2,3-butadien-1-ols to Benzofulvenes and Copper-Catalyzed Stereoselective Synthesis of Conjugated Enynes from Allenols (Kyoto Univ.) SAI, Masahiro; MATSUBARA, Seijiro
- 3L1-34\*** Copper-catalyzed reaction of ketene dithioacetal monoxide with alkynyl sulfide (Graduate School of Engineering, Kyoto Univ.) MURAKAMI, Kei; IMOTO, Junichi; MATSUBARA, Hiroshi; YOSHIDA, Suguru; YORIMITSU, Hideki; OSHIMA, Koichiro
- 3L1-36\*** Copper-catalyzed cross- and multi-coupling reaction of alkyl halides with Grignard reagents in the presence of conjugated dienes (Graduate School of Engineering, Osaka Univ., Graduate School of Engineering, Kyoto Univ.) IWASAKI, Takanori; SHIMIZU, Ryohei; SHEN, Ruwei; TERA0, Jun; KUNYASU, Hitoshi; KAMBE, Nobuaki

Chair: YORIMITSU, Hideki (15:20~16:20)

- \* 15:10-15:20: interval for laptop PC connection.(3L1-39, 3L1-41, 3L1-43, 3L1-44)
- 3L1-39\*\*** Copper-catalyzed carboxylation of alkylboranes with carbon dioxide (RIKEN) ZHANG, Liang; OHISHI, Takeshi; NISHIURA, Masayoshi; HOU, Zhaomin
- 3L1-41\*** Reductive Transformations of Alkynes using Copper Hydride as an Active Catalytic Species (Graduate School of Engineering, Kyoto Univ.) SEMBA, Kazuhiko; XU, Tinghua; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi
- 3L1-43** Copper-catalyzed hydrosilylation of allenes employing a silylborane and an alcohol (Graduate School of Engineering, Kyoto Univ.) BESSHO, Naoto; SEMBA, Kazuhiko; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi
- 3L1-44** Copper-catalyzed Silacarboxylation of Alkynes using Carbon Dioxide and Silylboranes (Graduate School of Engineering, Kyoto Univ.) TANI, Yousuke; SEMBA, Kazuhiko; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi

Chair: SHINTANI, Ryo (16:30~17:30)

- \* 16:20-16:30: interval for laptop PC connection.(3L1-46, 3L1-48, 3L1-49,

3L1-50, 3L1-51)

- 3L1-46\*** Copper-Catalyzed  $\gamma$ -Selective and Stereospecific Direct Allylic Alkylation of Electron-Deficient Arenes (Department of Chemistry, Faculty of Science, Hokkaido Univ.) MAKIDA, Yusuke; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 3L1-48** Copper-Catalyzed  $\gamma$ -Selective and Stereospecific Direct Allylic Alkylation of Terminal Alkynes (Department of Chemistry, Faculty of Science, Hokkaido Univ.) TAKAYAMA, Yurie; MAKIDA, Yusuke; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 3L1-49** Synthesis of Oxazepine Derivatives by Copper-Catalyzed Reaction of *O*-Propargylic Oximes and Maleimides. (Graduate School of Science, Tohoku Univ.) KUDO, Yu; NAKAMURA, Itaru; TERADA, Masahiro
- 3L1-50\*** Highly Efficient Cu(OAc)<sub>2</sub>-Catalyzed Dimerization of Mono-Functionalized Hydrofullerenes Leading to Single Bonded [60]Fullerene Dimers (Graduate School of Science, Tohoku Univ.) LU, Shirong; JIN, Tienan; YAMAMOTO, Yoshinori
- 3L1-51** Enantioselective Carbenoid Insertion into Phenolic O-H Bonds with a Chiral Copper Complex (Institute for Molecular Science) OSAKO, Takao; PANICHAKUL, Duangthai; UOZUMI, Yasuhiro

Chair: TERA0, Jun (17:40~18:30)

- \* 17:30-17:40: interval for laptop PC connection.(3L1-53, 3L1-54, 3L1-55, 3L1-57)
- 3L1-53** Copper-Mediated Azoles/Indoles Direct Biaryl Coupling (Faculty of Engineering, Osaka Univ.) NISHINO, Mayuko; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 3L1-54** Copper-Catalyzed Electrophilic Amination of Arylboronates with Hydroxylamines (Faculty of Engineering, Osaka Univ.) MATSUDA, Naoki; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 3L1-55\*** Transition-Metal-Catalyzed Direct Alkylation of Azoles (Faculty of Engineering, Osaka Univ.) HIRANO, Koji; YAO, Tomoyuki; MUKAI, Tomoya; SATOH, Tetsuya; MIURA, Masahiro
- 3L1-57** Copper-Catalyzed Asymmetric Allylic Substitution of Allyl Phosphates with Organoboronates (Graduate School of Science, Kyoto Univ.) SHINTANI, Ryo; TAKEDA, Momotaro; TAKATSU, Keishi; HAYASHI, Tamio

## Wednesday, March 28, AM

### Cu

Chair: HAYASHI, Minoru (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4L1-01, 4L1-02, 4L1-03, 4L1-04, 4L1-05)
- 4L1-01** 1,2,3-Triazole Carbene Copper Complexes Catalyzed Reactions of Azoles with Carbon Dioxide (Institute of Science and Engineering, Chuo Univ.) INOMATA, Hiroshi; OGATA, Kenichi; FUKUZAWA, Shin-ichi; HOU, Zhaomin
- 4L1-02** Enantioselective Conjugate Addition of Alkylboranes Catalyzed by Chiral Copper-NHC Complex (Department of Chemistry, Faculty of Science, Hokkaido Univ.) YOSHIDA, Mika; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 4L1-03** Copper-Catalyzed Conjugate Addition of Alkylboranes to  $\alpha,\beta$ -Unsaturated Aryl Ketones (Department of Chemistry, Faculty of Science, Hokkaido Univ.) SHIDO, Yoshinori; YOSHIDA, Mika; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 4L1-04** Highly effective Cu-catalyzed cross-coupling reaction of alkyl halides with alkyl Grignard reagents. (Graduate School of Engineering, Osaka Univ.) IMANISHI, Reiko; SHIMIZU, Ryohei; IWASAKI, Takanori; TERA0, Jun; KUNYASU, Hitoshi; KAMBE, Nobuaki
- 4L1-05\*** Facile Construction of Chiral Spirobi(tetrahydroquinoline) Scaffold Promoted by Cu Catalyst (ISIR, Osaka Univ.) TAKENAKA, Kazuhiro; SASAI, Hiroaki

Chair: TAKENAKA, Kazuhiro (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4L1-08, 4L1-09, 4L1-10, 4L1-11, 4L1-12, 4L1-13)
- 4L1-08** Copper-Catalyzed Stereoselective Hydrosulfonylation of Alkynes Using Sulfonic Acid Salts (Fukushima Medical Univ.) TANIGUCHI, Nobukazu
- 4L1-09** Synthesis of Allenes through Copper-Catalyzed  $\gamma$ -Selective and Stereospecific Coupling between Propargylic Phosphates and Alkylboranes (Department of Chemistry, Faculty of Science, Hokkaido Univ.) YOKOBORI, Umi; MAKIDA, Yusuke; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 4L1-10** Copper-Catalyzed Stereodivergent Allyl-Alkyl Coupling between Allylic Phosphates and Alkylboranes (Department of Chemistry, Faculty of Science, Hokkaido Univ.) NAGAO, Kazunori; YOKOBORI, Umi; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 4L1-11** Development of P-C bond-forming reaction on the side chain of phosphine ligands (Ehime Univ.) KIKUMASA, Kenta; WATANABEYUTAKA, Yutaka; HAYASHI, Minoru
- 4L1-12** Cu-catalyzed asymmetric conjugate addition reaction of acyclic enone in the presence of hydroxy-amide-functionalized azolium compound (Kansai Univ.) DOHI, Kenta; SAKAGUCHI, Satoshi

**4L1-13** Trifluoromethylation of Aryl Halides using Click-Triazole Copper Complex (Institute of Science and Engineering, Chuo Univ.) HIROKI, Hidekatsu; OGATA, Kenichi; FUKUZAWA, Shin-ichi

Chair: TANIGUCHI, Nobukazu (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4L1-15, 4L1-17, 4L1-18, 4L1-19, 4L1-20)

**4L1-15\*** Synthesis of Polysubstituted Indenes via Copper-Catalyzed Cyclization of Arylalkynes with Aromatic Sulfonyl Chlorides (Univ. of Tokyo) ZENG, Xiaoming; ILIES, Laurean; NAKAMURA, Eiichi

**4L1-17** Copper(I)-Catalyzed Enantioselective Synthesis of Optically Active Alkoxy Allylboronates (Graduate School of Engineering, Hokkaido Univ.) OZAKI, Taichi; MIYA, Takanori; ITO, Hajime

**4L1-18** Copper(I)-Catalyzed Boryl Substitution of Unactivated Alkyl Halides (Graduate School of Engineering, Graduate School of Chemical Science and Engineering, Hokkaido Univ.) KUBOTA, Koji; ITO, Hajime

**4L1-19** Enantioselective Alkynylation of Aldehydes Based on Cooperative Catalysis of Copper-Chiral Hydroxy Amino Phosphine Complexes (Department of Chemistry, Faculty of Science, Hokkaido Univ.) ISHII, Takaoki; MORIYA, Toshimitsu; OHMIYA, Hirohisa; SAWAMURA, Masaya

**4L1-20** Conjugate Reduction of  $\alpha, \beta$ -Unsaturated Carbonyl Compounds with Hydrosilanes Catalyzed by a Silica-Supported Phosphine-Copper Complex (Department of Chemistry, Faculty of Science, Hokkaido Univ.) YAMAZAKI, Kenji; KAWAMORITA, Soichiro; OHMIYA, Hirohisa; IWAI, Tomohiro; SAWAMURA, Masaya

### Wednesday, March 28, PM

#### Cu

Chair: MIYAKE, Yoshihiro (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(4L1-28, 4L1-29, 4L1-30, 4L1-31, 4L1-32, 4L1-33)

**4L1-28<sup>#</sup>** Regio- and stereoselectivity in the substitution of allylic picolinates with a cyclic sub-structure (Department of Biomolecular Engineering, Tokyo Institute of Technology) FENG, Chao; KOBAYASHI, Yuichi

**4L1-29** Copper-Catalyzed Multiborylation of Alkynes (Graduate School of Engineering, Hiroshima Univ.) YOSHIDA, Hiroto; SAKAI, Yuuka; TAKAKI, Ken

**4L1-30** Copper-Catalyzed Three-component Borylstannylation of Alkynes (Graduate School of Engineering, Hiroshima Univ.) YOSHIDA, Hiroto; TAKEMOTO, Yuki; TAKAKI, Ken

**4L1-31** Development of Multinuclear Catalyst Based on BINOL-mono-PHOS Ligands in Copper-Catalyzed Asymmetric Conjugate Addition of Organometallic Reagents (Waseda Univ., Waseda Institute for Advanced Study) YAKEISHI, Sayuri; HAMADA, Daisuke; ENDO, Kohei; SHIBATA, Takanori

**4L1-32** Development of Cu-Catalyzed Asymmetric Conjugate Addition of Organoaluminum Reagents Using SPINOL-PHOS (Waseda Univ., Waseda Institute for Advanced Study) HAMADA, Daisuke; ENDO, Kohei; SHIBATA, Takanori

**4L1-33** Development of Metal-Linked Multinuclear Complex Based on BINAM-PHOS in the Cu-Catalyzed Asymmetric Conjugate Addition of Organometallic Reagents (Waseda Univ., Waseda Institute for Advanced Study) TAKAYAMA, Ryotaro; ENDO, Kohei; SHIBATA, Takanori

Chair: ENDOU, Kouhei (14:40~15:10)

\* 14:30-14:40: interval for laptop PC connection.(4L1-35, 4L1-36, 4L1-37)

**4L1-35** Cooperative Catalytic Reactions Using Transition Metal Catalyst and Bronsted Acid Catalyst: Enantioselective Alkylation of  $\beta$ -Keto Phosphonates with Alcohols as Electrophiles (School of Engineering, The Univ. of Tokyo) SHIBATA, Masashi; IKEDA, Masahiro; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

**4L1-36** Copper-Catalyzed Allylic Trifluoromethylation (School of Engineering, The Univ. of Tokyo) OTA, Shin-ichi; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

**4L1-37** Cooperative Catalytic Reactions Using Distinct Transition Metal Catalysts: Enantioselective Propargylic Alkylation of Propargylic Alcohols with  $\beta$ -Keto Phosphonates (School of Engineering, The Univ. of Tokyo) MOTOYAMA, Kazuki; IKEDA, Masahiro; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

## Room L2

12th Bldg. 12-211

### Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

Sunday, March 25, AM

#### Zn

Chair: AMAYA, Toru (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(1L2-01, 1L2-02, 1L2-03, 1L2-04, 1L2-05)

**1L2-01** Synthesis of Complicated 5-Membered Ring Compound Containing Quaternary Center via Asymmetric Desymmetrization (Graduate School of Science and Engineering, Tokyo Institute of Technology) OKAMOTO, Tatsuya; AIKAWA, Kohsuke; MIKAMI, Koichi

**1L2-02** Direct Preparation of Zinc-enolate from Dizinc and Isocyanate (Kyoto Univ.) HARAGUCHI, Ryosuke; MATSUBARA, Seiji

**1L2-03** Reexamination of solvent effect on Simmons-Smith reaction to achiral and chiral enolethers (Univ. of Hyogo) FUJII, Kanami; SHIINE, Kodai; SUGIMURA, Takashi

**1L2-04** Catalytic Difluorovinylolation of Benzyl Halides and Allyl Halides (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) TAKANOHASHI, Tsuyoshi; FUJITA, Takeshi; ICHIKAWA, Junji

**1L2-05<sup>\*\*</sup>** Efficient Cyclic Carbonate Synthesis Catalyzed by Zinc Cluster Systems under Mild Condition (Graduate School of Engineering Science, Osaka Univ.) YANG, Yi; FUJII, Yuka; KITA, Yusuke; MASHIMA, Kazushi

Chair: AIKAWA, Kohsuke (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(1L2-08, 1L2-09, 1L2-10, 1L2-11, 1L2-12, 1L2-13)

**1L2-08** Coupling Reaction of Conjugated Dienes and Carbonyls Utilizing Organozinc Reagent (Nagasaki Univ., Faculty of Engineering) OHIRA, Yuki; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari

**1L2-09** Selective Coupling Reaction of Ene-yne, Carbonyl, and Organozinc Reagent (Nagasaki University, Faculty of Engineering) HAYASHI, Maya; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari

#### V

**1L2-10** Enantioselective C-C Bond Forming Reactions Using Vanadium(V) Catalysts (ISIR, Osaka Univ.) KODERA, Junpei; TAKIZAWA, Shinobu; SASAI, Hiroaki

**1L2-11** Oxidative Halogenation with Vanadium-Catalytic System (Osaka Univ.) MORIUCHI, Toshiyuki; KATO, Satoshi; KAJIKAWA, Tomomi; HIRAO, Toshikazu

**1L2-12** V(V)-Induced Oxidative Cross-Coupling Reaction of Boron Enolate (Osaka Univ.) AMAYA, Toru; MASUDA, Takaya; HIRAO, Toshikazu

**1L2-13** Catalytic Cross-Pinacol Coupling Reaction with Dinuclear Hemisalen Complexes (Osaka Univ.) MIYASAKA, Akihiro; AMAYA, Toru; HIRAO, Toshikazu

#### Ru

Chair: YOSHIMURA, Masahiro (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(1L2-15, 1L2-16, 1L2-17, 1L2-18, 1L2-19, 1L2-20)

**1L2-15** Synthesis of Seven-Membered Heterocycles by Ring-Closing Metathesis (Tokyo Univ. of Science) SATO, Shinya; MATSUDA, Takanori

**1L2-16** Total Synthesis of Herbindoles by an Intramolecular [2+2+2] Cyclization (Faculty of Pharmaceutical Sciences, Hokkaido Univ.; Laboratory of Fine Synthetic Chemistry) ICHIMARU, Taisuke; SAITO, Nozomi; SATO, Yoshihiro

**1L2-17** Ruthenium-Catalyzed Transfer Oxygenative Cyclization of 1,6-Diynes: Novel [2+2+1] Approach for Furan Synthesis (Grad. Sch. of Eng., Nagoya Univ.) YAMASHITA, Ken; YAMAMOTO, Yoshihiko; NISHIYAMA, Hisao

**1L2-18** 1,4-addition of alkynes to  $\alpha, \beta$ -unsaturated carbonyl compounds with Ru-PHEBOX Catalysts (Nagoya Univ.) FUJII, Kohei; ITO, Jun-ichi; NISHIYAMA, Hisao

**1L2-19** Ester as an alkyl source for ruthenium-cluster catalyzed N-alkylation reaction (Kyushu Univ.; JST, CREST) NISHIKATA, Takashi; NAGASHIMA, Hideo

**1L2-20** Synthesis of *o*-Iodoarylboronic Acids via *o*-Directed Ru-catalyzed C-H Silylation of Arylboronic Acids (Kyoto Univ.) KOYANAGI, Masashi; IHARA, Hideki; EICHENAUER, Nils; SUGINOME, Michinori

Sunday, March 25, PM

Ru

Chair: YAMAMOTO, Yoshihiko (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(1L2-28, 1L2-29, 1L2-30, 1L2-31, 1L2-32)

**1L2-28** Ruthenium-Catalyzed Carbonylation of Phenylacetamides via Carbon-Hydrogen Bond Cleavage (Faculty of Engineering, Osaka Univ.) SHIBATA, Kaname; HASWAGAWA, Nao; FUKUMOTO, Yoshiya; CHATANI, Naoto**1L2-29** Ruthenium-Catalyzed Regioselective Carbonylation of Aliphatic Amides via Carbon(sp<sup>3</sup>)-Hydrogen Bond Cleavage (Faculty of Engineering, Osaka Univ.) HASEGAWA, Nao; CHARRA, Valentine; INOUE, Satoshi; FUKUMOTO, Yoshiya; CHATANI, Naoto**1L2-30** Ruthenium-Catalyzed Reaction of Aromatic Amides with Aryl Halides: Direct Carbon-Hydrogen Bond Arylation (Faculty of Engineering, Osaka Univ.) YOSHINORI, Aihara; CHATANI, Naoto**1L2-31** Ruthenium-Catalyzed Oxidative Alkenylation of Aromatic Substrates (Faculty of Engineering, Osaka Univ.) HASHIMOTO, Yuto; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro**1L2-32\*** Mechanistic Investigations of Ru(cod)(cot)-Catalyzed Regioselective Direct Alkenylation of Aromatic Compounds Using Alkenyl Esters (Keio Univ.) OGIWARA, Yohei; KOCHI, Takuya; KAKIUCHI, Fumitoshi

Chair: FUKUMOTO, Yoshiya (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(1L2-35, 1L2-37, 1L2-38, 1L2-39, 1L2-40)

**1L2-35\*** CpRu/Bidentate Phosphorus-Based Catalysts for *normal*-Selective Hydroformylation (The Univ. of Tokyo, Graduate School of Engineering) TAKAHASHI, Kohei; YAMASHITA, Makoto; TANAKA, Yoshiyuki; NOZAKI, Kyouko**1L2-37** One-pot Synthesis of Linear Alcohol from Internal Alkene Using Rh/Ru Dual Catalyst System (The Univ. of Tokyo, Graduate School of Engineering) YUKI, Yamato; TAKAHASHI, Kohei; NOZAKI, Kyoko**1L2-38** Ruthenium-Catalytic Asymmetric Hydrogenation of Benzisoxazoles (Kyushu Univ.) IKEDA, Ryuhei; KUWANO, Ryouichi**1L2-39** Ruthenium Catalyzed Asymmetric Hydrogenation of *N*-Aryl imines (Faculty of Engineering, Hokkaido Univ.) UTSUMI, Noriyuki; ARAI, Noriyoshi; MATSUMOTO, Yuki; MURATA, Kunihiko; TSUTSUMI, Kunihiko; OHKUMA, Takeshi**1L2-40** Desymmetric Hydrogenation of a *meso*-Cyclic Acid Anhydride toward Biotin Synthesis (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) YOSHIMURA, Masahiro; YAMAMURA, Tomoya; NAKATSUKA, Hiroshi; KITAMURA, Masato

Chair: SATOH, Tetsuya (15:50~16:50)

\* 15:40-15:50: interval for laptop PC connection.(1L2-42, 1L2-44, 1L2-45, 1L2-46, 1L2-47)

**1L2-42\*** Catalyst-Controlled Diastereoselection in the Asymmetric Hydrogenation of Heterocycloalkyl Ketones (Hokkaido Univ.; Nippon Soda Co., Ltd.) AKASHI, Masaya; ARAI, Noriyoshi; INOUE, Tsutomu; OHKUMA, Takeshi**1L2-44<sup>#</sup>** Ru-catalyzed synthesis of  $\alpha$ -amino alcohols from 1,2-diol via borrowing hydrogen methodology (Doshisha Univ.) PUTRA, Anggi; OE, Yohei; OHTA, Tetsuo**1L2-45** Anionic tethered *N*-heterocyclic carbene-Ru complex and catalytic asymmetric reduction of ketone (Kansai Univ.) YOSHIMURA, Misato; KAMISUE, Ryo; SAKAGUCHI, Satoshi**1L2-46** Ruthenium-Catalyzed Reductive Cyclization of Diynes with Hantzsch Ester (Nagoya Univ.) MORI, Shota; YAMASHITA, Ken; YAMAMOTO, Yoshihiko; NISHIYAMA, Hisao**1L2-47** RuHCl(CO)(PPh<sub>3</sub>)<sub>3</sub> Catalyzed  $\alpha$ -Alkylation of Ketones with Primary Alcohols (Graduate School of Science, Osaka Prefecture Univ.) KUWAHARA, Takashi; FUKUYAMA, Takahide; RYU, Ilhyong

Chair: ARAI, Noriyoshi (17:00~18:10)

\* 16:50-17:00: interval for laptop PC connection.(1L2-49, 1L2-50, 1L2-51, 1L2-53, 1L2-55)

**1L2-49** Asymmetric Addition of Arylboronic acids to Isatins Catalyzed by Ruthenium/Me-BIPAM complex (Graduate School of Engineering, Hokkaido Univ.) YOHTA, Masaaki; SHIRAI, Tomohiko; ITO, Hajime; YAMAMOTO, Yasunori**1L2-50** Asymmetric Allylic Alkylation with Silyl Enolate Using Planar-Chiral Cyclopentadienyl-Ruthenium Catalysts (Graduate School of Science, Osaka Univ.) YAMAZAWA, Arisa; TAKII, Koichiro; KANBAYASHI, Naoya; ONITSUKA, Kiyotaka**1L2-51\*** Asymmetric Tandem Reactions Catalyzed by Planar-Chiral Cyclopentadienyl-ruthenium Complex (Graduate School of Science, Osaka Univ.) KAMBAYASHI, Naoya; KATO, Masanori; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka**1L2-53\*** Development of Catalytic Reactions Using Arene Ruthenium Complexes (Waseda Univ.) OTSUKA, Maiko; YOKOYAMA, Hiroya; ENDO, Kohei; SHIBATA, Takanori

Monday, March 26, AM

Fe

Chair: HATA, Takeshi (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(2L2-01, 2L2-02, 2L2-03, 2L2-04, 2L2-05, 2L2-06)

**2L2-01** Iron-Catalyzed Grignard Cross-Coupling via Intramolecular Cyclization (Kochi Univ.) KIYOTO, Hideyuki; NAGANO, Takashi**2L2-02** Iron-Catalyzed Grignard Cross-Coupling with Allylic Ethers (Kochi Univ.) OTSUKA, Takeshi; NAGANO, Takashi**2L2-03** Iron-Catalyzed Oxidative Cleavage of Carbon-Carbon Double Bond in Water (Kochi Univ.) YAMAMURA, Takafumi; NAGANO, Takashi**2L2-04** Metal Fluoride Accelerated Iron-Catalyzed Cross-Coupling Reaction of Organoaluminum Reagents (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) KAWAMURA, Shintaro; ISHIZUKA, Kentaro; NAKAMURA, Masaharu**2L2-05** Acceleration Effect of Metal Alkoxides in the Iron-Catalyzed Cross-Coupling Reaction of chlorohydrins with Arylaluminum Reagents (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) KAWABATA, Tatsuya; KAWAMURA, Shintaro; ISHIZUKA, Kentaro; NAKAMURA, Masaharu**2L2-06** Iron-Catalyzed Cross-Coupling Reactions with Novel Propylenediphosphine Ligands (SciPROPs) (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) NAKAJIMA, Sho; HASHIMOTO, Toru; NAKAGAWA, Naohisa; HATAKEYAMA, Takuji; NAKAMURA, Masaharu

Chair: NAGANO, Takashi (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(2L2-08, 2L2-09, 2L2-10, 2L2-11, 2L2-12, 2L2-13)

**2L2-08** Synthesis of metal porphyrin complexes and their application (Kyoto Univ.; Graduate School of Engineering) TERADA, Takuma; KURAHASHI, Takuya; MATSUBARA, Seiji**2L2-09** Iron porphyrin complexes catalyzed Friedel-Crafts type reaction of alcohol and arene via dehydration. (Kyoto Univ.; Graduate School of Engineering) TERANISHI, Satoru; KURAHASHI, Takuya; MATSUBARA, Seiji**2L2-10** Iron-Catalyzed Stereoselective 1,6-Conjugate Addition of Heteroaryl Grignard Reagents to 2,4-Alkadienoates (Tokyo Institute of Technology) IWATA, Satoshi; NAKAGAWA, Kazushige; HATA, Takeshi; URABE, Hirokazu**2L2-11** Convenient Synthesis of Cyclic Compounds via Cyclization and Skeletal Rearrangement of *cis*-5-Aryl-3-alkenyl Chlorides (Tokyo Institute of Technology) GOTOH, Hideyuki; YOKOMIZO, Tomofumi; HATA, Takeshi; URABE, Hirokazu**2L2-12** Iron-Mediated Three-component Coupling Reaction of 2-Alken-4-ynoate, *tert*-Alkyl Grignard Reagent, and 1-Bromo-1-alkyne (Tokyo Institute of Technology) IWATA, Satoshi; SETO, Shumpei; HATA, Takeshi; URABE, Hirokazu**2L2-13** Iron-Catalyzed Aromatic Amination Using Magnesium Amides (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) IMAYOSHI, Ryuji; YOSHIMOTO, Yuya; HATAKEYAMA, Takuji; NAKAMURA, Masaharu

Chair: KURAHASHI, Takuya (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(2L2-15, 2L2-17, 2L2-18, 2L2-19, 2L2-20)

**2L2-15\*** Structural and electrochemical requirements for Fe(III)-salan catalysts in the oxidative coupling reaction of 2-naphthols (Kyushu Univ.) MATSUMOTO, Kenji; EGAMI, Hiromichi; OGUMA, Takuya; KATSUKI, Tsutomu**2L2-17** Synthetic Study of Natural Products by the Repeated Use of Iron-Catalyzed Substitution of 4,5-Epoxy-2-alkenoates with Grignard Reagents (Tokyo Institute of Technology) BANNAI, Rie; SETO, Shumpei; HATA, Takeshi; URABE, Hirokazu**2L2-18** Reductive Homocoupling Reaction of Functionalized Diene Monoepoxides with FeCl<sub>2</sub>/4-*t*-BuMgCl - Stereoselective Synthesis of Cyclopropanes (Tokyo Institute of Technology) HATA, Takeshi; BANNAI, Rie; URABE, Hirokazu**2L2-19** Copolymerization of Epoxides with CO<sub>2</sub> Catalyzed by Fe-Corrole Complexes (The Univ. of Tokyo, Graduate School of Engineering) KOBAYASHI, Kazuki; NAKANO, Koji; NOZAKI, Kyoko**2L2-20** Development of Asymmetric Epoxidation Reactions of Alkenes Catalyzed by Iron Complexes Bearing Multiple Ligands (Waseda Univ., Schools of Advanced Science and Engineering) NIWA, Takashi; NAKADA, Masahisa

## Monday, March 26, PM

## Fe

Chair: FUKUMOTO, Yoshiya (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2L2-28, 2L2-29, 2L2-30, 2L2-31)
- 2L2-28** Synthesis of Polycyclic Aromatic Compounds via Iron-Catalyzed [2 + 2] Benzannulation of Alkyne with Grignard Reagent (Univ. of Tokyo) KOBAYASHI, Motoaki; MATSUMOTO, Arimasa; ILIES, Laurean; YOSHIKAI, Naohiko; NAKAMURA, Eiichi
- 2L2-29** Catalytic Enantioselective Synthesis of ( $\eta^5$ -4,7-Dihydroindenyl)metallocenes by Molybdenum-Catalyzed Asymmetric Ring-Closing Metathesis (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Edu.) OGASAWARA, Masamichi; ARAE, Sachie; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

## Os

- 2L2-30** Dihydroxylation of Olefins Using Dendritic Osmium Catalyst (AIST, School of Science and Technology, Meiji Univ.) FUJITA, Ken-ichi; INOUE, Kensuke; TSUCHIMOTO, Teruhisa; YASUDA, Hiroyuki

## Re

- 2L2-31 CSJ Award for Young Chemists** Development of Novel and Highly Efficient Methods to Construct Carbon-Carbon Bonds Using Group 7 Transition Metal Catalysts (Grad. Sch. Nat. Sci. and Technol., Okayama Univ.) KUNINUBU, Yoichiro

Chair: NISHIMURA, Takahiro (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2L2-35, 2L2-36, 2L2-37, 2L2-38, 2L2-39, 2L2-40)
- 2L2-35** Rhenium-Catalyzed Reaction of Terminal Alkynes with Iminoacetic Acid Esters Leading to Dehydroamino Acid Esters (Faculty of Engineering, Osaka Univ.) FUKUMOTO, Yoshiya; DAIJO, Masato; CHATANI, Naoto
- 2L2-36** Synthesis of 2,2'-Binaphthyl Derivatives by Rhenium-Catalyzed Benzannulation (Kansai Univ.) TABATA, Hiromasa; UMEMA, Rui; NISHIYAMA, Yutaka
- 2L2-37** Selective Synthesis of 1,2-Disubstituted Naphthalenes by the Rhenium-Catalyzed Reaction of Phenylacetaldehyde Dimethylacetal with Aromatic Alkynes (Kansai Univ.) NISHI, Satoru; UMEMA, Rui; NISHIYAMA, Yutaka
- 2L2-38** Rhenium-Catalyzed Insertion of Alkynes into a C-C Single Bond of  $\beta$ -Keto Sulfides (Okayama Univ.) NISHI, Mitsumi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 2L2-39** Regioselective Synthesis of Multisubstituted Pyridines from  $\beta$ -Enamino Ketones and Alkynes with a Rhenium Catalyst (Okayama Univ.) YAMAMOTO, Shunichi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko

## Nb

- 2L2-40** Synthesis of Thiosulfonates by Nb(V)-Chloride Ion Catalyzed Oxidation of Disulfides Using Hydrogen Peroxide (Shizuoka Inst. Sci. & Tech.) SUZUKI, Satoshi; NISHIMURA, Yuki; NOGUCHI, Takuya; ISHIZUKA, Yuki; IWAI, Toshiaki; KIRIHARA, Masayuki

Chair: TERA0, Jun (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2L2-42, 2L2-43, 2L2-44, 2L2-46)
- 2L2-42** Mechanistic Study on the C-F/C-H Bond Double Activation Reactions Mediated by Low-valent Niobium (Fac. Sci., Gakushuin Univ.) ITO, Ryutarou; ATOBE, Kohei; MORI, Keiji; AKIYAMA, Takahiko
- 2L2-43** NbCl<sub>5</sub>-mediated Synthesis of pyrimidine derivatives from alkynes and nitriles (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) YASUDA, Kaoru; SATOH, Yasushi; OBORA, Yasushi
- 2L2-44\*** Low-valent niobium catalyzed highly selective [2+2+2] cycloaddition of alkynes and olefins leading to 1,3-cyclohexadiene derivatives. (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) SATOH, Yasushi; OBORA, Yasushi

## Co

- 2L2-46\*** Protonation-Triggered Generation of Acyl Cobalt Species from Alkyne-[Co<sub>2</sub>(CO)<sub>8</sub>] Complexes and Their Reaction with Alkenes (Department of Chemistry, Tokyo Institute of Technology.) OOI, Isao; TAKAYA, Jun; IWASAWA, Nobuharu

Chair: MORI, Keiji (17 : 00~17 : 50)

- \* 16:50-17:00: interval for laptop PC connection.(2L2-49, 2L2-50, 2L2-51, 2L2-52, 2L2-53)
- 2L2-49** Cobalt-catalyzed cross-coupling reaction of alkyl halides with tertiary alkyl Grignard reagents (Graduate School of Engineering, Osaka Univ.; Graduate School of Engineering, Kyoto Univ.) TAKAGAWA, Hiroaki;

SINGH, Surya P.; IWASAKI, Takanori; TERA0, Jun; KUNIYASU, Hitoshi; KAMBE, Nobuaki

- 2L2-50** Cobalt-Catalyzed ortho-Alkenylation of Aromatic Aldimines (Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological Univ.) YAMAKAWA, Takeshi; HAJRA, Alakananda; YOSHIKAI, Naohiko
- 2L2-51** Carbonylation Reactions Utilizing Cobalt Oxide Supported Nanoparticles (Dept. of Chemistry, Kyushu Univ.) MUTO, Akiko; HAMASAKI, Akiyuki; ISHIDA, Tamao; TOKUNAGA, Makoto
- 2L2-52** Cobalt-Catalyzed Conjugate Alkynylation of  $\alpha, \beta$ -Unsaturated Ketones (Graduate School of Science, Kyoto Univ.) SAWANO, Takahiro; OU, Keiyu; NISHIMURA, Takahiro; HAYASHI, Tamio
- 2L2-53** Cobalt-Catalyzed Asymmetric Alkynylation of Oxabenzonorbornadienes (Graduate School of Science, Kyoto Univ.) OU, Keiyu; SAWANO, Takahiro; NISHIMURA, Takahiro; HAYASHI, Tamio

## Tuesday, March 27, PM

## Ni

Chair: OGOSHI, Sensuke (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(3L2-25, 3L2-28)
- 3L2-25 CSJ Award for Young Chemists** Studies on Carbocyanation Reaction of Unsaturated Compounds (Grad. Sch. Eng., Kyoto Univ.) NAKAO, Yoshiaki
- 3L2-28 CSJ Award for Young Chemists** Formation of Reactive Intermediates with Low-valent Nickel and Carbonyl Compounds and Its Application for Catalytic Organic Synthesis (Grad. Sch. Eng., Kyoto Univ.) KURAHASHI, Takuya

Chair: NAKAO, Yoshiaki (14 : 10~15 : 10)

- \* 14:00-14:10: interval for laptop PC connection.(3L2-32, 3L2-34, 3L2-35, 3L2-36)
- 3L2-32\*** Highly Selective Crossed Tishchenko Reaction Catalyzed by Nickel(0) (Faculty of Engineering, Osaka Univ.) HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
- 3L2-34** Ni(0)-Catalyzed Intramolecular Hydroacylation of Olefins (Faculty of Engineering, Osaka Univ.) HAYASHI, Yukari; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
- 3L2-35** Synthesis of high-molecular-weight head-to-tail-type polythiophene by using C-H coupling polymerization. (Kobe Univ.) FUJII, Kanta; TAMBA, Shunsuke; SUGIE, Atsushi; MORI, Atsunori
- 3L2-36\*** Novel generation of metalating species for nickel-catalyzed C-H coupling polymerization (Kobe Univ.) TAMBA, Shunsuke; MITSUDA, Shinobu; TANAKA, Fujimaru; SUGIE, Atsushi; MORI, Atsunori

Chair: TERA0, Jun (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(3L2-39, 3L2-41, 3L2-42, 3L2-43)
- 3L2-39\*** Transition Metal-Catalyzed Regioselective Carbon-Hydrogen Bond Functionalizations of Pyridines Using Organozinc Reagents (Osaka Univ.) HYODO, Isao; TOBISU, Mamoru; CHATANI, Naoto
- 3L2-41** Nickel-Catalyzed Suzuki-Miyaura Coupling of Aryl Fluorides (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; XU, Tian; SHIMASAKI, Toshiaki; CHATANI, Naoto
- 3L2-42** Nickel-Catalyzed Transformations Involving The Cleavage of a Carbon-Nitrogen Bond in Aniline Derivatives (Osaka Univ.) TOBISU, Mamoru; NAKAMURA, Keisuke; CHATANI, Naoto
- 3L2-43\*** Nickel-Catalyzed Reductive Coupling Reaction using Methylene-cyclopropane (Institute of Science and Engineering, Chuo Univ.) OGATA, Kenichi; SHIMADA, Daisuke; FUKUZAWA, Shin-ichi

Chair: TOBISU, Mamoru (16 : 30~17 : 30)

- \* 16:20-16:30: interval for laptop PC connection.(3L2-46, 3L2-48, 3L2-49, 3L2-51)
- 3L2-46\*** Nickel-catalyzed cycloaddition via elimination of nitrile (Kyoto Univ.; Graduate School of Engineering) NAKAI, Kenichiro; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 3L2-48** Nickel-catalyzed decarbonylative cycloaddition to provide polyisoquinolone. (Kyoto Univ.; Graduate School of Engineering) TAKEUCHI, Makoto; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 3L2-49\*** Nickel-Catalyzed Monofunctionalization of Polyfluoroarene via C-F Bond Activation (The Univ. of Tokyo) NAKAMURA, Yuki; ASAKO, Sobi; YOSHIKAI, Naohiko; ILIES, Laurean; NAKAMURA, Eiichi
- 3L2-51** Ni(0)-Catalyzed Denitrogenative Insertion of Allenes into 1,5-Disubstituted-1,2,3-triazoles with Allenes (Graduate School of Engineering, Kyoto Univ.) HIRAGA, Kentaro; BIYAJIMA, Tsuneaki; MIURA, Tomoya; MURAKAMI, Masahiro

Chair: MIURA, Tomoya (17 : 40~18 : 30)

- \* 17:30-17:40: interval for laptop PC connection.(3L2-53, 3L2-54, 3L2-55, 3L2-56, 3L2-57)
- 3L2-53** Nickel-Catalyzed Oxidative Monoarylation of Primary Amines with Grignard Reagents at Room Temperature (Univ. of Tokyo) MATSUBARA, Tatsuki; NAKAMURA, Yuki; ILIES, Laurean; NAKAMURA, Eiichi

- 3L2-54** Nickel-catalyzed coupling reaction of aldehydes with alkynes to give allyl alcohols. (Kyoto Univ.; Graduate School of Engineering) YOSHIDA, Yuiji; KURAHASHI, Takuya; MATSUBARA, Seiji
- 3L2-55** Nickel-catalyzed [3+2] cycloaddition of vinylcyclopropanes with allenes. (Kyoto Univ.; Graduate School of Engineering) TONBE, Kihoko; KURAHASHI, Takuya; MATSUBARA, Seiji
- 3L2-56** Carboxylation of Aryl Chlorides with CO<sub>2</sub> Catalyzed by Nickel Complexes (Graduate School of Engineering, Kyoto Univ.) NOGI, Keisuke; XU, Tinghua; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi
- 3L2-57** Nickel-catalyzed double carboxylation of alkyne with carbon dioxide (Graduate School of Engineering, Kyoto Univ.) HORIMOTO, Yuichiro; XU, Tinghua; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi

Wednesday, March 28, AM

Ag

Chair: ONODERA, Gen (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4L2-01, 4L2-02, 4L2-03, 4L2-04, 4L2-05, 4L2-06)
- 4L2-01** Asymmetric  $\alpha$ -Amination Reaction Catalyzed by Chiral Phosphine-Silver Complex (Chiba Univ.) MIYKAE, Ryoji; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 4L2-02** Asymmetric Michael Reaction of Iminoesters with Nitroalkenes Catalyzed by a ThioClickFerrophos/Silver Complex (Institute of Science and Engineering, Chuo Univ.) IMAE, Kazumi; OGATA, Kenichi; FUKUZAWA, Shin-ichi

La

- 4L2-03** Reaction of Carbonyl Compounds with Lanthanum Metal under Carbon Dioxide (Kansai Univ.) TOIYA, Shunsuke; UMEDA, Rui; NISHIYAMA, Yutaka

Hg

- 4L2-04** Hg(OTf)<sub>2</sub>-Catalyzed Vinylogous Semi-Pinacol Rearrangement Leading to 1,4-Dihydroquinoline (Hokkaido Univ.; Laboratory of Organic Chemistry II) KANAKI, Michika; SUTO, Hiroki; NAMBA, Kosuke; TANINO, Keiji

Sr

- 4L2-05** Application of metallocycle intermediates prepared by metallic strontium and conjugated dienes (Graduate School of Socio-Arts and Science, Univ. of Tokushima) MIYAZAKI, Yasuaki; KAWAI, Chika; KIKUCHI, Makoto; WADA, Makoto; MIYOSHI, Norikazu

Bi

- 4L2-06** Regio- and Stereoselective Synthesis of Alkenylbismuth Compounds by Carbobismuthination of Alkynes (Osaka Univ.) NISHIMOTO, Yoshihiro; TAKEUCHI, Midori; YASUDA, Makoto; BABA, Akio

Ti

Chair: KURAHASHI, Takuya (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4L2-08, 4L2-09, 4L2-10, 4L2-11, 4L2-12, 4L2-13)
- 4L2-08** Isomerization of Alkyl Grignard Reagents Catalyzed Cooperatively by Titanium and Zinc Complexes. (Graduate School of Science, Kyoto Univ.) SHIRAKAWA, Eiji; MASUI, Seiji; HAYASHI, Tamio
- 4L2-09** Stereoselective Construction of Adjacent Quaternary carbons by the Reaction of Allyltitanocenes with Ketones (Tokyo Univ. of Agric. and Tech.) TAKEDA, Takeshi; YAMAMOTO, Masanori; YOSHIDA, Satoshi; TSUBOUCHI, Akira

Ni

- 4L2-10** Ni-Catalyzed Reductive Coupling of Enone and Methylene cyclopropane (Institute of Science and Engineering, Chuo Univ.) SHIMADA, Daisuke; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 4L2-11** Hydrocarbamoylation of Alkenes by Nickel/Lewis Acid Catalysis (Graduate School of Engineering, Kyoto Univ.) MIYAZAKI, Yosuke; YAMADA, Yuuya; NAKAO, Yoshiaki; HIYAMA, Tamejiro
- 4L2-12** Nickel/Lewis acid-catalyzed Alkylation of Pyridones (Graduate School of Engineering, Kyoto Univ.) TAMURA, Ryuichi; YAMADA, Yuuya; NAKAO, Yoshiaki; HIYAMA, Tamejiro
- 4L2-13** Addition of Polyfluorobenzonitrile to Alkynes and Alkenes via Nickel / Lewis acid-Catalyzed Selective C-CN Bond Activation (Department of Applied Chemistry, Institute of Science and Engineering, Chuo Univ.) YOSHIYASU, Hirofumi; MINAMI, Yasunori; NAKAO, Yoshiaki; HIYAMA, Tamejiro

Chair: YAMAGUCHI, Junichiro (11:20~12:10)

- \* 11:10-11:20: interval for laptop PC connection.(4L2-15, 4L2-16, 4L2-17,

4L2-18, 4L2-19)

- 4L2-15** Ni-Catalyzed Efficient Synthesis of Unsaturated Carboxylic Acids from Diketene (Nagasaki Univ., Faculty of Engineering) AKIOKA, Yusuke; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari
- 4L2-16** Ni-Catalyzed Selective Formation of Phenylacetic Acid Derivatives Promoted by Organoaluminum (Nagasaki Univ., Faculty of Engineering) NAKAMURA, Toshiyuki; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari
- 4L2-17** C-H metalation of heteroaromatic compounds with Grignard reagent and catalytic secondary amine (Kobe Univ.) TANAKA, Daiki; TANAKA, Shota; SUGIE, Atsushi; MORI, Atsunori
- 4L2-18** Regiochemical studies on the metalation of thiophene in the synthesis of head-to-tail type oligothiophene (Kobe Univ.) TANAKA, Shota; TANAKA, Daiki; TAMBA, Shunsuke; SUGIE, Atsushi; MORI, Atsunori
- 4L2-19** One-Pot Synthesis of Substituted Pyridines by Nickel-Catalyzed Carbon-Carbon Bond Formation of Saturated Ketones at the  $\beta$ -Position with Enamines (Kyushu Univ.) MAEDA, Ryohei; KUWANO, Ryoichi; UENO, Satoshi

Wednesday, March 28, PM

Ni

Chair: ITO, Shingo (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(4L2-28, 4L2-29, 4L2-30, 4L2-31, 4L2-32, 4L2-33)
- 4L2-28** Mechanistic studies on nickel and palladium catalyzed cross-coupling reaction of alkyl halides with Grignard reagents (Graduate School of Engineering, Osaka Univ.) FUKUOKA, Asuka; OMORI, Takehiro; TSUMURA, Asako; IWASAKI, Takanori; TERAO, Jun; KUNIYASU, Hitoshi; KAMBE, Nobuaki
- 4L2-29** Stereoselective Coupling Reaction of Carbon Dioxide with Unsaturated Hydrocarbons Utilizing Efficient Reactivities of Nickel Catalyst and Organozinc Reagents (Nagasaki Univ., Faculty of Engineering) SHIRASHIGE, Ryo; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari
- 4L2-30** Highly Stereoselective Coupling Reaction of Allylnickelacycle and Alkyne (Nagasaki Univ., Faculty of Engineering) MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari
- 4L2-31** Stereodefined Construction of Dienyl Alcohols via Conjugate Addition of Aldehydes and Organozinc to Diene (Nagasaki Univ., Faculty of Engineering) MORI, Yasuyuki; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari
- 4L2-32<sup>#</sup>** Step and Atom Economical Synthesis of Benzobicyclo[2.2.2]octenones by Nickel-Catalyzed Asymmetric Intramolecular Alkene Insertion into Cyclobutanones (Graduate School of Engineering, Kyoto Univ.) LIU, Lantao; ISHIDA, Naoki; MURAKAMI, Masahiro
- 4L2-33** Nickel-Catalyzed Insertion of Alkynes into the Carbon-Carbon Bond of Azetidines (Graduate School of Engineering, Kyoto Univ.) YUUKI, Tatsuya; ISHIDA, Naoki; MURAKAMI, Masahiro

Chair: OGATA, Kenichi (14:40~15:30)

- \* 14:30-14:40: interval for laptop PC connection.(4L2-35, 4L2-36, 4L2-37, 4L2-38, 4L2-39)
- 4L2-35** Nickel-catalyzed decarbonylative cycloaddition of thioisatins to alkynes. (Kyoto Univ.; Graduate School of Engineering) INAMI, Tasuku; KURAHASHI, Takuya; MATSUBARA, Seiji
- 4L2-36** Nickel-catalyzed decarbonylative cycloaddition of phthalimides with alkynes via gem-carboamination. (Kyoto Univ.; Graduate School of Engineering) SHIBA, Takahiro; KURAHASHI, Takuya; MATSUBARA, Seiji
- 4L2-37** Ni-Catalyzed C-H/C-O Coupling of Azoles with Phenol Derivatives (Dept Chem, Nagoya Univ.) MUTO, Kei; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
- 4L2-38** Ni-Catalyzed Biaryl Coupling of Azoles with Aromatic Esters and Rapid Synthesis of Muscoride A (Dept Chem, Nagoya Univ.) AMAIKE, Kazuma; MUTO, Kei; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
- 4L2-39** Ni-catalyzed coordination copolymerization of ethylene and allyl monomers (The Univ. of Tokyo, Graduate School of Engineering) OTA, Yusuke; ITO, Shingo; NOZAKI, Kyoko

Room M1

14th Bldg. Sosokan 14-201

Physical Organic Chemistry -Structures and Properties-

Sunday, March 25, AM

Chair: KOZAKI, Masatoshi (10:00~10:50)

- \* 9:50-10:00: interval for laptop PC connection.(1M1-07, 1M1-08, 1M1-09,

1M1-10)

- 1M1-07\*** Tri(quinoidimethane)-Type Biradicaloids with High Photo- and Thermal- Stability (The Univ. of Tokyo) ZHU, Xiaozhang; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi; TSUJI, Hayato; NAKAMURA, Eiichi
- 1M1-08** Synthesis of Dizethrenylacetylene (Graduate School of Engineering Science, Osaka Univ.) KITABAYASHI, Kenichi; HIBI, Daijiro; SHIMIZU, Akihiro; TOBE, Yoshito
- 1M1-09** Synthesis of 5,7,12,14-tetra(anthroxy)-substituted pentacene (Graduate School of Science, Osaka Univ.) SAGAYAMA, Kensuke; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi
- 1M1-10\*** Synthesis and Properties of Condensed Polycyclic  $\pi$ -Conjugated Air-stable Neutral Radicals Based on Triangulene System (Osaka Univ.; Osaka City Univ.) WASA, Hideki; UEDA, Akira; KANZAKI, Yuki; SATO, Kazunobu; TAKUI, Takeji; MORITA, Yasushi

Chair: NAGAHORA, Noriyoshi (11:00~11:50)

- \* 10:50-11:00: interval for laptop PC connection.(1M1-13, 1M1-14, 1M1-15)
- 1M1-13** Synthesis and Electronic-spin Structure of Bis(trioxotriangulene) Neutral Diradical (Osaka Univ.) ASAKURA, Noriaki; UEDA, Akira; MURATA, Tsuyoshi; KANZAKI, Yuki; SATO, Kazunobu; TAKUI, Takeji; MORITA, Yasushi
- 1M1-14** Synthesis and Physical Properties of Novel Diphosphacyclobutanediyl with Nucleophilic Aromatic Substitution (Graduate School of Science and Engineering, Tokyo Institute of Technology) UETA, Yasuhiro; MIKAMI, Koichi; ITO, Shigekazu
- 1M1-15** Young Scholar Lectures of CSJ Studies on Open-shell Molecular Systems with Unique Functionalities: Phenalenyl Radicals and Stable Triplet Radicals (Grad. Sch. Sci., Osaka City Univ.) SUZUKI, Shuichi

### Sunday, March 25, PM

Chair: ITO, Shigekazu (13:00~14:00)

- \* 12:50-13:00: interval for laptop PC connection.(1M1-25, 1M1-26, 1M1-27, 1M1-28, 1M1-29)
- 1M1-25** Synthesis and Properties of Mononuclear and Binuclear Platinum Complexes Directly Linked to Nitronyl Nitroxide (Osaka City Univ.) ZHANG, Xun; SUZUKI, Shuichi; KOZAKI, Masatoshi; KAMITANI, Masahiro; NAKAZAWA, Hiroshi; OKADA, Keiji
- 1M1-26** Syntheses and Structures of Bis(phenothiazinyl)boranamine and Their Analogues: Neutral States and Radical Cations (Osaka City Univ.) YOSHIDA, Kohei; SUZUKI, Shuichi; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; OKADA, Keiji
- 1M1-27** Boron-Containing Polycyclic  $\pi$ -Conjugated System: Synthesis Based on Intramolecular Radical Cyclization of Triarylboranes and Properties (Department of Chemistry, Graduate School of Science, Nagoya Univ.; CREST, Japan Science and Technology Agency) MATSUO, Kyohei; SAITO, Shohei; YAMAGUCHI, Shigehiro
- 1M1-28** Electronic-spin Structures and Redox Properties of Oligothiophene-substituted Trioxotriangulene Stable Neutral Radicals (Osaka Univ.; Osaka City Univ.) MURAYAMA, Hirotsugu; UEDA, Akira; MURATA, Tsuyoshi; KANZAKI, Yuki; SATO, Kazunobu; TAKUI, Takeji; MORITA, Yasushi
- 1M1-29\*** Tailored Molecular Spin Batteries: Improvement of Output Voltage and Cycle Performance by Molecular Modification of Trioxotriangulene as Electrode-active Materials (Osaka Univ.; Osaka City Univ.; JEOL Ltd.) NISHIDA, Shinsuke; MURATA, Tsuyoshi; UEDA, Akira; KARIYAZONO, Kazuki; ARIFUKU, Kazunori; SATO, Kazunobu; TAKUI, Takeji; MORITA, Yasushi

Chair: TOBE, Yoshito (14:10~15:10)

- \* 14:00-14:10: interval for laptop PC connection.(1M1-32)
- 1M1-32** CSJ Award for Creative Works Studies on the Synthesis and Functional Properties of Cyclic and Star-Shaped Organic  $\pi$ -Electron Systems (Tokyo Metropolitan Univ.) IYODA, Masahiko

Chair: KATO, Shin-ichi (15:20~16:20)

- \* 15:10-15:20: interval for laptop PC connection.(1M1-39, 1M1-40, 1M1-41, 1M1-42, 1M1-43, 1M1-44)
- 1M1-39** Stepwise Synthesis of Cyclic Tetranuclear Platinum Complexes as Precursors for Cycloparaphenylenes (Institute for Chemical Research, Kyoto Univ.) TANAKA, Takeshi; KAYAHARA, Eiichi; IWAMOTO, Takahiro; YAMAGO, Shigeru
- 1M1-40** Synthesis of Cycloparaphenylene from Organoplatinum Complex through Reductive Coupling Reaction (Institute for Chemical Research, Kyoto Univ.) KAYAHARA, Eiichi; YAMAGO, Shigeru
- 1M1-41** Synthesis of [N]-Cyclic Fluorene Derivatives from a Cyclic Tetranuclear Platinum Complex (Institute for Chemical Research, Kyoto Univ.) KAYAHARA, Eiichi; KOJIMA, Mitsuru; SAKAMOTO, Youichi; SUZUKI, Toshiyasu; YAMAGO, Shigeru
- 1M1-42** Synthesis of Functionalized Cycloparaphenylenes (Graduate School of Science, Nagoya Univ.) MATSUURA, Sanae; SEGAWA, Yasutomo; ITAMI, Kenichiro
- 1M1-43** Synthesis of nitrogen-containing carbon nanoring (Graduate School of Science, Nagoya Univ.) MATSUI, Katsuma; SEGAWA, Yasutomo;

ITAMI, Kenichiro

- 1M1-44** Synthesis, Structure, and Photophysical Properties of [9]Cyclo-1,4-naphthylene (Graduate School of Science, Nagoya Univ.) YAGI, Akiko; SEGAWA, Yasutomo; ITAMI, Kenichiro

Chair: SEGAWA, Yasutomo (16:30~17:20)

- \* 16:20-16:30: interval for laptop PC connection.(1M1-46, 1M1-47, 1M1-48, 1M1-49, 1M1-50)
- 1M1-46** Synthesis and Physical Properties of a Quadruply Ring-Fused Porphyrin (Graduated School of Pure and Applied Sciences, Univ. of Tsukuba) OHTAKE, Kazuhisa; ISHIZUKA, Tomoya; KOJIMA, Takahiko
- 1M1-47** Synthesis of Cyclophanes with Oligoacenes (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) KOYAMA, Yutaro; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 1M1-48** Synthesis and properties of segregated donor-acceptor cyclophanes (Tokyo Metropolitan Univ.) INABE, Ayumi; TAKASE, Masayoshi; NISHINAGA, Tooru; NOMURA, Kotohiro
- 1M1-49** Synthesis and Self-Assembling Behavior of Phenanthrene-Fused Dehydro[12]- and [18]annulenes (Gunma Univ.) TAKAHASHI, Nobutaka; KATO, Shin-ichi; NAKAMURA, Yosuke
- 1M1-50** Synthesis and Properties of Thienylcarbazolophanes (Graduate School of Engineering, Gunma Univ.) TAJIMA, Toshihiro; KATO, Shin-ichi; NAKAMURA, Yosuke

Chair: TAKASE, Masayoshi (17:30~18:10)

- \* 17:20-17:30: interval for laptop PC connection.(1M1-52, 1M1-54)
- 1M1-52\*** Synthesis and Electronic Properties of Double-Decker Triphenylamine (Kyoto Univ.) SAKAMAKI, Daisuke; YOKOYAMA, Yuiciro; ITO, Akihiro; TANAKA, Kazuyoshi
- 1M1-54\*** Synthesis and dynamic behavior of propeller-shapedtris(dehydrobenzo[14]annulene)s (Graduate School of Engineering Science, Osaka Univ.) NOBUSUE, Shunpei; MUKAI, Yuichi; TAHARA, Kazukuni; TOBE, Yoshito

### Monday, March 26, PM

#### Porphyrin

Chair: SHINOKUBO, Hiroshi (12:40~13:30)

- \* 12:30-12:40: interval for laptop PC connection.(2M1-23, 2M1-24, 2M1-25, 2M1-26)
- 2M1-23** Synthesis and properties of core-modified phthalocyanines consisting of thiophene derivatives (Faculty of science, Tohoku Univ.) EMURA, Natsuko; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 2M1-24** Synthesis and properties of Superphthalocyanine derivatives (Faculty of science, Tohoku Univ.) OGURA, Yosuke; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 2M1-25** Synthesis and Properties of Tetrathiafulvalene-fused Subphthalocyanines (Tohoku Univ.) YAMAZAKI, Yoko; NAKANO, Shota; SHIMIZU, Soji; KOBAYASHI, Nagao
- 2M1-26\*** Withdrawn

Chair: FURUTA, Hiroyuki (13:40~14:30)

- \* 13:30-13:40: interval for laptop PC connection.(2M1-29, 2M1-32, 2M1-33)
- 2M1-29** CSJ Award for Young Chemists Exploration of Giant Functional Porphyrin Arrays (Grad. Sch. Sci., Kyoto Univ.; PRESTO, JST) ARATANI, Naoki
- 2M1-32** Synthesis of zinc phthalocyanine by using ate complex (The Univ. of Tokyo; RIKEN) KOMAGAWA, Shinsuke; KIKKAWA, Shoko; TAKITA, Ryo; MURANAKA, Atsuya; UCHIYAMA, Masanobu
- 2M1-33** Reversible redox switching of polyaniline-like aminoporphyrin oligomers (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; TAKEUCHI, Shouichi; ASANO, Motoko; SUGIURA, Ken-ichi

Chair: SHIMIZU, Soji (14:40~15:30)

- \* 14:30-14:40: interval for laptop PC connection.(2M1-35, 2M1-36, 2M1-37, 2M1-38, 2M1-39)
- 2M1-35** Synthesis of *meso*-Benzoporphycenes and Evaluation of the  $\pi$ -Conjugated System (Osaka Univ.) FUKUDA, Tamaki; HASEGAWA, Jun-ya; CHATTOPADHYAY, Prosenjit; ONODA, Akira; HAYASHI, Takashi
- 2M1-36** Cyclic indole oligomers and its analogs (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) KONDO, Takeshi; NAKAMURA, Shoichi; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 2M1-37** Control of NH tautomerism in N-confused porphyrin by hydrogen bonding (Graduate School of Engineering, Kyushu Univ.) SAKASHITA, Ryuichi; TOGANO, Motoki; FURUTA, Hiroyuki
- 2M1-38** Synthesis and Metallation of Doubly N-Confused Hexaphyrin containing Bipyrrrole Unit (Department of Chemistry and Biochemistry Graduate School of Engineering Kyushu Univ.) NISHIMURA, Keiichi; TOGANO, Motoki; FURUTA, Hiroyuki
- 2M1-39** Synthesis and properties of subporphyrins bearing an axial B-C bond (Department of Chemistry, Graduate School of Science, Kyoto Univ.) SAGA, Shun; HAYASHI, Shinya; TSURUMAKI, Eiji; ARATANI, Naoki;



OSUKA, Atsuhiko

Chair: HIROTO, Satoru (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(2M1-41, 2M1-42, 2M1-43, 2M1-44, 2M1-45)
- 2M1-41** Synthesis of beta-Functionalized Hexaphyrins (Department of Chemistry, Graduate School of Science, Kyoto Univ.) HIGASHINO, Tomohiro; OSUKA, Atsuhiko
- 2M1-42** Synthesis and Characterization of Butadiene-bridged Porphyrin Oligomers (Graduate School of Science, Kyoto Univ.) TOKUJI, Sumito; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 2M1-43** Synthesis of *meso*-free subporphyrin as a useful synthetic precursor (Graduate School of Science, Kyoto Univ.) KITANO, Masaaki; HAYASHI, Shin-ya; OSUKA, Atsuhiko
- 2M1-44** Syntheses and properties of a pyrene-fused subphthalocyanine and pyrene-bridged subphthalocyanine dimers (Graduate School of Science, Tohoku Univ.) NAKANO, Shota; SHIMIZU, Soji; KOBAYASHI, Nagao
- 2M1-45** Synthesis of Phosphorus Phthalocyanine Analogs Absorbing in the Near-IR Region (Graduate school of science, Tohoku Univ.) SATO, Ko; FURUYAMA, Taniyuki; KOBAYASHI, Nagao

Chair: YAMASHITA, Ken-ichi (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(2M1-47, 2M1-48, 2M1-49, 2M1-51)
- 2M1-47** Structures and Properties of Gold Phthalocyanines and its Analogues (Tohoku Univ.) MIURA, Akito; SHIMIZU, Soji; WONG, Edwin; LEZNOFF, Daniel; KOBAYASHI, Nagao
- 2M1-48** Preparation and optical properties of porphyrin-linked silole (Saitama Univ.) OHYA, Tatsuki; KOYAMA, Tetsuo; MATSUOKA, Kouji; HATANO, Ken
- 2M1-49\*** Synthesis and Property of Novel Porphyrinoids Consisting of Carbazole and Indole (Faculty of Science and Technology, Keio Univ.) MAEDA, Chihiro; YOSHIOKA, Naoki
- 2M1-51** Synthesis and Properties of Carbazole-Containing Expanded Thiaporphyrins (Faculty of Science and Technology, Keio Univ.) MASUDA, Motoki; MAEDA, Chihiro; YOSHIOKA, Naoki

## Tuesday, March 27, AM

Chair: MAEDA, Chihiro (9 : 00 ~ 9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(3M1-01, 3M1-02, 3M1-03, 3M1-04, 3M1-05)
- 3M1-01** Synthesis of Donor-Acceptor Porphyrin and Quantitative Analysis of Absorption Spectrum (Kyoto Univ.) KATSUDA, Takayuki
- 3M1-02** Synthesis and characterization of dithiaporphyrin and thiacorrole (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) KAMIYA, Hiroki; SAKIDA, Takafumi; YAMAGUCHI, Shigeru; SHINOKUBO, Hiroshi
- 3M1-03** Synthesis of porphyrin dimers by oxidation of  $\beta$ -amino porphyrins. (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) AKITA, Masanari; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 3M1-04** Synthesis of sandwich-type novel metal complex of *meso*-aryl substituted porphyrin. (Graduate school of Science and Engineering, Integrated Center for Sciences, Ehime Univ.) MIKI, Kuniyoshi; MORI, Shigeki; NAKAE, Takahiro; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 3M1-05** Allosteric inhibition of axial ligand-binding of zinc porphyrin using Fe (II) ion as an external stimulus. (Osaka City Univ.) NINOMIYA, Yoshikazu; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji

Chair: TOGANO, Motoki (10 : 00~10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(3M1-07, 3M1-08, 3M1-09, 3M1-10, 3M1-11)
- 3M1-07** Synthesis and characterization of Phenylene-Bridged hexaphyrindimers (Department of Chemistry, Graduate School of Science, Kyoto Univ.) MORI, Hirotsuka; ARATANI, Naoki; OSUKA, Atsuhiko
- 3M1-08** Synthesis and Properties of Novel Porphyrin Pincer Platinum Complexes (Graduate School of Science, Kyoto Univ.) ANABUKI, Shoma; SHINOKUBO, Hiroshi; ARATANI, Naoki; OSUKA, Atsuhiko
- 3M1-09** Synthesis and characterization of a *meso*-free pentaphyrin and its metal complex (Graduate School of Science, Kyoto Univ.) YONEDA, Tomoki; MORI, Hirotsuka; OSUKA, Atsuhiko
- 3M1-10**  $\beta$  selective C-H direct arylation reactions of porphyrins a bearing functional group at the *meso* position (Graduate school of Science, Kyoto Univ.) AWANE, Hiroyuki; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 3M1-11** Palladium-Catalyzed  $\beta$  Selective Direct Arylation of 5,15-Dialkylporphyrins (Department of Chemistry, Graduate School of Science, Kyoto Univ.) YAMAMOTO, Yutaro; TANAKA, Takayuki; YORIMITSU, Hideki; OSUKA, Atsuhiko

Chair: OKUJIMA, Tetsuo (11 : 00~11 : 50)

- \* 10:50-11:00: interval for laptop PC connection.(3M1-13, 3M1-14, 3M1-16, 3M1-17)
- 3M1-13** Synthesis of *meso*-anthracenyl-substituted Hexaphyrin (Department of Chemistry, Graduate School of Science, Kyoto Univ.) NAODA, Koji;

MORI, Hirotsuka; OSUKA, Atsuhiko

- 3M1-14\*** Peripheral Functionalization of Moebius Aromatic [28]Hexaphyrin (1.1.1.1.1.1) Pd(II) Complex (Kyoto Univ.) TANAKA, Takayuki; OSUKA, Atsuhiko
- 3M1-16** Synthesis of multiporphyrin arrays connected through 6,6'-disubstituted-2,2'-bipyridine by nickel-mediated reductive coupling reaction (Tokyo Univ. of Science) NAMIKI, Tomoya; SATAKE, Akiharuru
- 3M1-17** Synthesis and optical properties of chlorophyll dimers bridged by *cis*- and *trans*-forms of Pt(II) bis-acetylide complexes (Ritsumeikan Univ.) YAMAMOTO, Youhei; TAMIAMI, Hitoshi

## Tuesday, March 27, PM

Chair: HAMURA, Toshiyuki (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(3M1-25, 3M1-26, 3M1-27, 3M1-28, 3M1-29, 3M1-30)
- 3M1-25** Synthesis of Chlorophyll Derivatives Possessing Amino Groups and Their Physical Properties (Ritsumeikan Univ.) TAMIAMI, Hitoshi; NAGAI, Tomoaki; MACHIDA, Shinnosuke
- 3M1-26** Synthesis of Chlorophyll Derivatives Directly Connecting Amino-derived Functional Groups at the 3-Position (Nagahama Inst. Bio-Sci. Tech.; Ritsumeikan Univ.) SASAKI, Shin-ichi; MIZUTANI, Keisuke; KUNIEDA, Michio; AZUMA, Kimiko; TAMIAMI, Hitoshi
- 3M1-27** Synthesis of  $\beta$ -Diketonate Substituted Chlorophyll Derivatives and Their Metal Coordination (Ritsumeikan Univ.) KINOSHITA, Yusuke; YAMAMOTO, Youhei; TAMIAMI, Hitoshi
- 3M1-28** Synthesis of fused anthracene dimers by oxidation of 2-aminoanthracene (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) GOTO, Kiyohiko; AKITA, Masanari; YAMAGUCHI, Ryuichi; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 3M1-29** Synthesis and Properties of Fused Perylene Bisimides and Naphthalene Monoimides (Department of Chemistry, Graduate School of Engineering, Nagoya Univ.) ITO, Satoru; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 3M1-30** Oxidative oligomerization of an alkylpyrene using a copper(II) salt (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; NAKAMURA, Akihiro; ASANO, Motoko; SUGIURA, Ken-ichi

Chair: YAMASHITA, Ken-ichi (14 : 10~15 : 10)

- \* 14:00-14:10: interval for laptop PC connection.(3M1-32, 3M1-33, 3M1-34, 3M1-35, 3M1-36, 3M1-37)
- 3M1-32** Synthesis of a precursor for naphthalene-fused 2*H*-isoindole and its thermo- and photo-chemical conversion (Ehime Univ. INCS) SEIKE, Aya; YAMAGAMI, Kaoru; NAKAE, Takahiro; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 3M1-33** Efficient access to substituted pentacenes by successive cycloadditions of isobenzofurans (Department of Chemistry, School of Science and Technology, Kwansei Gakuin Univ.) ARATANI, Masato; HANEDA, Hiroshi; EDA, Syouhei; HAMARA, Toshiyuki
- 3M1-34** Synthesis of isopentacenofuran by successive cycloaddition of dehydroisobenzofuran. (Department of Chemistry, School of Science and Technology, Kwansei Gakuin Univ.) CHUDA, Yu; HAMURA, Toshiyuki
- 3M1-35** The synthetic study of pyromellitic diimide-based macrocycles with diethynyl spacers as structural units of molecular tubes (IMCE Kyushu Univ.; Graduate School of Science, Kyushu Univ.) TIAN, Anna; ENJOZI, Yuta; GOTO, Kenta; SHINMYOZU, Teruo
- 3M1-36** Synthesis of Carbazole Derivatives with Various Aromatic Groups at 1,8-Positions and Their Complexation Behavior (Gunma Univ.) YASUDA, Kenji; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 3M1-37** Synthesis of macrocycle with bending carbazole and its dimer (Tokyo Inst. of Tech., Chem. Res. Lab.) SAKAMOTO, Sho; IDE, Tomohito; TAKEUCHI, Daisuke; OSAKADA, Kohtarou; MACHIDA, Shigeru

Chair: KATOONO, Ryo (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(3M1-39, 3M1-40, 3M1-41, 3M1-42, 3M1-43)
- 3M1-39** One-pot preparation of substituted isobenzofurans by sequential nucleophilic additions to 2-formylbenzoate (Department of Chemistry, School of Science and Technology, Kwansei Gakuin Univ.) NAKAYAMA, Ryosuke; HAMURA, Toshiyuki
- 3M1-40** Synthesis and Characterization of Stable *ortho*-Quinodimethane Derivatives (Department of Chemistry, School of Science and Technology, Kwansei Gakuin Univ.) HIROSE, Shunsuke; HAMURA, Toshiyuki
- 3M1-41** Synthesis and Physical Properties of 6,12-Diaryllindeno[1,2-*b*]fluorene Derivatives (Kansai Univ.) NAKATSUKASA, Masamichi; UMEDA, Rui; NISHIYAMA, Yutaka; TOBE, Yoshito
- 3M1-42** Synthesis and Properties of Sterically Crowded Triarylphosphines conjugated with Electron Acceptors (Graduate School of Science, Tohoku Univ.) SASAKI, Shigeru; SASAKI, Kohji; YOKOYAMA, Tatsuya; YOSHIFUJI, Masaaki; MORITA, Noboru
- 3M1-43\*** Synthesis and Structure of Highly Elaborated Helical Molecules Having Benzene and Naphthalene Units (Kansai Univ.; Osaka Univ.) UMEDA, Rui; MORISHITA, Shigeru; NISHIYAMA, Yutaka; TOBE, Yoshito

Chair: UMEDA, Rui (16:30~17:30)

\* 16:20-16:30: interval for laptop PC connection.(3M1-46, 3M1-48, 3M1-50, 3M1-51)

- 3M1-46\*** Preparation and redox behavior of the diarylethynyl-type electron-donors with water-soluble substituents (Hokkaido Univ.) ISHIGAKI, Yusuke; KATOONO, Ryo; FUJIWARA, Kenshu; SUZUKI, Takanori
- 3M1-48\*** Programming the Potential Structure of Phenylazomethine Dendrimer (Tokyo Institute of Technology, Chemical Resources Laboratory) ALBRECHT, Ken; YAMAMOTO, Kimihisa
- 3M1-50** Chiral Structures and Redox Properties of ortho-Substituted Unit Molecules of Polyaniline Bearing Amino Acid Moieties (Osaka Univ.) OHMURA, Satoshi; MORIUCHI, Toshiyuki; MORITA, Kenji; HIRAO, Toshikazu
- 3M1-51** Synthesis and Properties of Thienyl-Fused Porphyrins (Photoelectric Conversion Chemistry Laboratory, Department of Chemistry, The Univ. of Tokyo) MITSUSHIGE, Yusuke; YAMAGUCHI, Shigeru; MATSUO, Yutaka

Chair: UNO, Hidemitsu (17:40~18:30)

\* 17:30-17:40: interval for laptop PC connection.(3M1-53, 3M1-55, 3M1-56, 3M1-57)

- 3M1-53\*\*** Carbon-Bridged Oligo(phenylenevinylene)s: Synthesis and Properties (The Univ. of Tokyo) ZHU, Xiaozhang; TSUJI, Hayato; NAKAMURA, Eiichi
- 3M1-55** Synthesis of porphyrin derivatives as new soluble donor materials and application for OPV (The Univ. of Tokyo) HATANNO, Junichi; YAMAGUCHI, Shigeru; MATSUO, Yutaka
- 3M1-56** Surface modification of gold electrode using dynamic redox systems with lipolate/isolipolate ester groups as anchoring groups (Hokkaido Univ.; NIMS MANA; NIMS GREEN; Tokyo Univ. of Science) WADA, Kazuhisa; OKAWA, Yukihisa; ITO, Mikio; OHTA, Eisuke; UEHARA, Hiromitsu; HAN, Ying; KATOONO, Ryo; KAWAI, Hidetoshi; FUJIWARA, Kenshu; MASUDA, Takuya; NOGUCHI, Hidenori; UOSAKI, Kohei; SUZUKI, Takanori
- 3M1-57** Preparation and properties of dynamic redox system containing a perfluorobiphenyl skeleton (Hokkaido Univ.) SUZUKI, Takanori; TAMAOKI, Hitomi; WADA, Kazuhisa; KATOONO, Ryou; FUJIWARA, Kensyu

### Wednesday, March 28, AM

Chair: HIROTO, Satoru (9:00~9:50)

\* 8:50-9:00: interval for laptop PC connection.(4M1-01, 4M1-02, 4M1-04)

- 4M1-01** Influence of Interior Nitrogens on Properties of Pyrrole-Fused Azacoronene Family in Neutral and Oxidized States (Tokyo Metropolitan Univ.) NARITA, Tomoyuki; TAKASE, Masayoshi; NISHINAGA, Tohru; NOMURA, Kotohiro; MUELLEN, Klaus
- 4M1-02\*** Substituent Effects on Bowl Structure and Bowl Inversion of Sumanene (IMS; ICT) HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro; SASTRY, G. Narahari; SOUJANYA, Yarasi; PURUSHOTHAM, Uppala
- 4M1-04\*\*** Enantioselective Synthesis of Azabuckybowl, C3 Symmetric Chiral Triazasumanene (Institute for Molecular Science; SOKENDAI) TAN, Qitao; HIGASHIBAYASHI, Shuhei; KARANJIT, Sangita; SAKURAI, Hidehiro

Chair: KURATA, Hiroyuki (10:00~10:50)

\* 9:50-10:00: interval for laptop PC connection.(4M1-07, 4M1-08, 4M1-09)

- 4M1-07** Synthesis of Cyclic Polyphenylene Compounds that are Aimed at the Construction of Carbon Nanotube Segment (Hirosaki Univ.) ASAI, Shintaro; KUDO, Shun; NUMATA, Masayuki; ITO, Shunji; KAWAKAMI, Jun
- 4M1-08** Direct borylation of hexa-peri-hexabenzocoronene and its application (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) YAMAGUCHI, Ryuichi; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 4M1-09** Young Scholar Lectures of CSJ Bowl-shaped  $\pi$ -Conjugated Molecule Sumanene: Its Dynamics, Functionalization, and Complexation (Grad. Sch. Eng., Osaka Univ.) AMAYA, Toru

Chair: HIGASHIBAYASHI, Shuhei (11:00~11:50)

\* 10:50-11:00: interval for laptop PC connection.(4M1-13, 4M1-14, 4M1-15, 4M1-16)

- 4M1-13** Synthesis of Highly Curved  $\pi$ -Bowl based on Intramolecular Oxidative Cyclization (Osaka Univ.) AMAYA, Toru; HIRAO, Toshikazu
- 4M1-14** Synthesis and Characterization of Zirconocene Complexes with  $\pi$ -Bowl Sumanenyl Ligand. (Osaka Univ.) AMAYA, Toru; TAKAHASHI, Yuki; HIRAO, Toshikazu
- 4M1-15** Conducting Functionalization and Structural Characterization of Thin Film of Sumanene Derivative through Laser Annealing (Osaka Univ.) AMAYA, Toru; INADA, Yuh; SAEKI, Akinori; SEKI, Shuhei; HIRAO, Toshikazu
- 4M1-16\*** A model for graphenenanoribbons: Syntheses and properties of anthenes (Graduate School of Science, Osaka Univ.) KONISHI, Akihito; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO,

Takashi

### Wednesday, March 28, PM

Chair: TANI, Fumito (13:00~14:00)

\* 12:50-13:00: interval for laptop PC connection.(4M1-25, 4M1-27, 4M1-28, 4M1-29, 4M1-30)

- 4M1-25\*** Bottom-up synthesis of finite models of helical ( $n,m$ )-single-wall carbonnanotubes (Tohoku Univ.) HITOSUGI, Shunpei; NAKANISHI, Waka; YAMASAKI, Takashi; ISOBE, Hiroyuki
- 4M1-27** Synthesis of Oxazoline-Fused Fullerenes Utilizing  $N,N$ -Dihaloamides (Graduate School of Engineering, Osaka Univ.) MINAKATA, Satoshi; ENOKIJIMA, Satoru; TAKEDA, Youhei
- 4M1-28** Organocatalytic Ring Expansion Reaction of Aziridinofullerenes through Insertion of Heterocumulenes (Graduate School of Engineering, Osaka Univ.) MINAKATA, Satoshi; KAWAI, Hajime; NAGAMACHI, Toshiki; TAKEDA, Youhei
- 4M1-29** A new reactivity index in cycloadditions to  $C_{60}$  (Univ. of Kyoto) HARUTA, Naoki; SATO, Tohru; IWAHARA, Naoya; TANAKA, Kazuyoshi
- 4M1-30** Preparation of the Hydrophobic  $\gamma$ -Cyclodextrin- $C_{60}$  Complex and Its Reaction Behavior (Graduate School of Engineering, Osaka Univ.) NAGAMACHI, Toshiki; TAKEDA, Youhei; MINAKATA, Satoshi

Chair: TAKEDA, Youhei (14:10~15:10)

\* 14:00-14:10: interval for laptop PC connection.(4M1-32, 4M1-33, 4M1-34, 4M1-35, 4M1-36, 4M1-37)

- 4M1-32** Supramolecular Structures of Inclusion Complexes of Butadiyne-Linked Cyclic Porphyrin Dimers and Fullerene Derivatives (Institute for Materials Chemistry and Engineering, Kyushu Univ.) KAMIMURA, Takuya; NOBUKUNI, Hirofumi; UNO, Hidemitsu; SHIMAZAKI, Yuichi; NARUTA, Yoshinori; TANI, Fumito
- 4M1-33** Synthesis and Properties of a New Cyclic Porphyrin Dimers and Their Inclusion of Fullerenes (Institute for Materials Chemistry and Engineering, Kyushu Univ.) SAKAGUCHI, Kenichi; NOBUKUNI, Hirofumi; ISHIDA, Masatoshi; NARUTA, Yoshinori; TANI, Fumito
- 4M1-34** Synthesis and Properties of a Novel Open-Cage Fullerene Derivative having a 17-Membered-Ring Opening (Institute for Chemical Research, Kyoto Univ.) SAKURAI, Yuko; MURATA, Michihisa; KUROTOBI, Kei; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 4M1-35** Synthesis and Photophysical Properties of Azafullerenes Directly Connected to an Organic Dye (Institute for Chemical Research, Kyoto Univ.; Graduate School of Engineering, Osaka Univ.; ALCA, JST) MURATA, Michihisa; KATSUYA, Satoshi; MURATA, Yasujiro; OHKUBO, Kei; FUKUZUMI, Shunichi
- 4M1-36** Synthesis and Photovoltaic Properties of Dumbbell-Shaped Fullerene Derivatives (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO; Institute of Advanced Energy, Kyoto Univ.) NOBORI, Masahiro; MURATA, Michihisa; WAKAMIYA, Atsushi; SAGAWA, Takashi; YOSHIKAWA, Susumu; MURATA, Yasujiro
- 4M1-37** Synthesis of Cyclophanes via Stepwise Cross-Coupling Reactions and Their Transformation to Fullerene-Containing Glasses-like Molecules (Graduate School of Engineering, Kyoto Univ.) MATSUSHITA, Tsuyoshi; MIKI, Koji; OHE, Kouichi

Chair: MURATA, Michihisa (15:20~16:10)

\* 15:10-15:20: interval for laptop PC connection.(4M1-39, 4M1-40, 4M1-41, 4M1-42, 4M1-43)

- 4M1-39** Mechanistic Study on Thermal or Acid-Catalyzed Denitrogenation of 1,2,3-Triazolinofullerene (Graduate School of Engineering, Osaka Univ.) IKUMA, Naohiko; MIKIE, Tsubasa; NAKAGAWA, Koji; TANAKA, Nobuhide; KOKUBO, Ken; OSHIMA, Takumi
- 4M1-40** Synthesis and Properties of Novel Fullerendendrons via Diels-Alder Reaction of  $C_{70}$  with Pentacene Derivatives (Okayama Univ.) FUKUDA, Keitaro; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka
- 4M1-41** Synthesis and Properties of Fullerene-Oligothiophene Dyad Molecules for Single-molecule Photovoltaics (ISIR, Osaka Univ.) TANAKA, Kazunari; IE, Yutaka; ASO, Yoshio
- 4M1-42** Synthesis of Pentadecaphenylene and Formation of its Fullerene Complex (Tokyo Metropolitan Univ.) RAHMAN, M. J.; SHIMIZU, Hideyuki; SULTANA, Fatema; IYODA, Masahiko
- 4M1-43** Photoinduced Electron Transfer in PorphyrinFullerene Dyads Linked by Perfect Planar Carbon-Bridged Oligo- $p$ -Phenylenevinylenes (Department of Chemistry, School of Science, The Univ. of Tokyo) SUKEGAWA, Junpei; ZHU, Xiaozhang; TSUJI, Hayato; NAKAMURA, Eiichi

## Room M2

14th Bldg. Sosokan 14-202

## Physical Organic Chemistry -Structures and Properties-

Sunday, March 25, AM

Chair: INOKUMA, Yasuhide (10:00~10:50)

\* 9:50-10:00: interval for laptop PC connection.(1M2-07, 1M2-08, 1M2-09, 1M2-10, 1M2-11)

**1M2-07** Effective Synthesis of Catenane by Click Reaction using Stable Homoditopic Nitrile N-Oxide (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) YUKI, Tatsuya; MATSUMURA, Tohru; KOYAMA, Yasuhito; TAKATA, Toshikazu

**1M2-08** Synthesis and Property of Fluorescent Rotaxane derived via Click Reaction using Nitrile N-Oxide (Department of Organic and Polymeric Materials, Tokyo Inst. of Tech.) MATSUMURA, Tohru; KOYAMA, Yasuhito; TAKATA, Toshikazu

**1M2-09\*** Synthesis of spiro[pyran-containing rotaxane and evaluation of its dynamic behavior under external stimuli (Department of Organic and Polymer Materials; Tokyo Institute of Technology) LEE, Bong Soo; KOYAMA, Yasuhito; TAKATA, Toshikazu

**1M2-10** Synthesis of a Cryptand-based Rotaxane as an ion sensor (Osaka Institute of Technology) MURAOKA, Masahiro; MIZUTANI, Yuko; NAKATSUJI, Yohji

**1M2-11** Anion-templated Pseudorotaxanes Formation Threading Phenanthroline Derivatives as Axles (Osaka Institute of Technology) MURAOKA, Masahiro; FUJIHARA, Sae; NAKATSUJI, Yoji

Chair: MURAOKA, Masahiro (11:00~12:00)

\* 10:50-11:00: interval for laptop PC connection.(1M2-13, 1M2-14, 1M2-15, 1M2-16, 1M2-17, 1M2-18)

**1M2-13** Dynamic steric protection effect of wheel component to axle component of rotaxane (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) OHGATA, Yu-suke; NAKAZONO, Kazuko; TAKATA, Toshikazu

**1M2-14** Asymmetric Reaction Utilizing Optically Active Rotaxane (Tokyo Institute of Technology) XU, Kun; NAKAZONO, Kazuko; TKATA, Toshikazu

**1M2-15** Efficient Successive Reaction on Polymer Catalyzed by Palladium-templating Macrocyclic Complex (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) KAWASAKI, Ayumi; KOYAMA, Yasuhito; TAKATA, Toshikazu

**1M2-16** Diastereoselective Diels-Alder reactions via guest recognition within a porous coordination network (School of Engineering, The Univ. of Tokyo; CREST) IKEMOTO, Koki; INOKUMA, Yasuhide; FUJITA, Makoto

**1M2-17** Regioselectivity Control of Allylic Nucleophilic Substitutions by a Self-Assembled Coordination Cage (Grad. School of Engineering, The Univ. of Tokyo) KOHYAMA, Yuh; MURASE, Takashi; FUJITA, Makoto

**1M2-18** Thermal reaction of cyclobutenedione within crystalline coordination network: bicyclic formation and oxidative cyclization (School of Engineering, The Univ. of Tokyo; CREST) ARAI, Tatsuhiko; INOKUMA, Yasuhide; FUJITA, Makoto

Sunday, March 25, PM

Chair: MORIUCHI, Toshiyuki (13:10~14:10)

\* 13:00-13:10: interval for laptop PC connection.(1M2-26, 1M2-27, 1M2-28, 1M2-29, 1M2-31)

**1M2-26** Chromic Control of Tetrasubstituted Alkenes via Inclusion in a Self-Assembled Coordination Cage (Grad. School of Engineering, The Univ. of Tokyo; CREST) TAKEZAWA, Hiroki; MURASE, Takashi; FUJITA, Makoto

**1M2-27** Self-Assembly of Well-Defined Cluster of Ganglioside GM1 without Ceramide Chain (School of engineering, The Univ. of Tokyo; Okazaki Inst. for Integrative Bioscience; CREST) YOSHIMASA, Yutaka; FUJITA, Daishi; SATO, Sota; YAGI, Maho; KATO, Koichi; FUJITA, Makoto

**1M2-28** Synthesis of [1]polyrotaxane towards a linear / cyclic topology conversion (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) USUKI, Naoya; NAKAZONO, Kazuko; TAKATA, Toshikazu

**1M2-29\*** Thermo responsive molecular shuttling of trichloroacetate anion-containing rotaxane (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) ABE, Yoko; OKAMURA, Hisashi; NAKAZONO, Kazuko; KOYAMA, Yasuhito; TAKATA, Toshikazu

**1M2-31** Synthesis and property of rotaxane for the one directional translation of wheel (Dep. of Chemistry, Fac. of Science, Grad. of Kanagawa Univ.) NISHIYAMA, Junya; MAKITA, Yoshimasa; KIHARA, Nobuhiro

Chair: YAMADA, Yasuyuki (14:20~15:20)

\* 14:10-14:20: interval for laptop PC connection.(1M2-33, 1M2-34, 1M2-36, 1M2-38)

**1M2-33** Structural characteristics of copoly(phenylacetylene)s prepared by copolymerization using a rotaxane with molecular chirality as a comonomer (Dept. of Organic and Polymeric Materials, Tokyo Institute of Technology) SHIOZAKI, Nao; ISHIWARI, Humitaka; NAKAZONO, Kazuko; KOYAMA, Yasuhito; TAKATA, Toshikazu

**1M2-34\*** Effect of substituent of wheel component of pendant molecular chiral rotaxane moiety on one-handed helix induction of polyacetylene (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) ISHIWARI, Fumitaka; NAKAZONO, Kazuko; KOYAMA, Yasuhito; TAKATA, Toshikazu

**1M2-36\*** Rotaxane Switch Controls Foldamer Formation (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) NAKAZONO, Kazuko; SUZUKI, Sakiko; ISHIWARI, Fumitaka; TAKATA, Toshikazu

**1M2-38** Synthesis of Planar-Chiral [3]Rotaxanes from Pillar[5]arene (Graduate School of Natural Science and Technology, Kanazawa Univ.) IIZUKA, Ryo; YAMAFUJI, Daiki; KITAJIMA, Keisuke; OGOSHI, Tomoki; YAMAGISHI, Tada-aki

Chair: IKEDA, Atsushi (15:30~16:20)

\* 15:20-15:30: interval for laptop PC connection.(1M2-40, 1M2-41, 1M2-42, 1M2-44)

**1M2-40** Structure of cyclodextrin-containing rotaxane having linear alkane as the axle. (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) AKAE, Yosuke; KOYAMA, Yasuhito; OKAMURA, Hisashi; KAWAUCHI, Susumu; TAKATA, Toshikazu

**1M2-41** Synthesis and Host Behavior of Fluorene-containing Macrocyclic Oligoamide (Dept. of Organic and Polymeric Materials, Tokyo Tech.) YAMASHITA, Chika; NAKAZONO, Kazuko; TAKATA, Toshikazu

**1M2-42\*** Synthesis of porphyrin/phthalocyanine supramolecular arrays via four-fold rotaxane formation (Nagoya Univ., Research Center for Material Science; Kyoto Univ., Institute for the Promotion of Excellence in Higher Education; IMS; Nagoya Univ., Graduate School of Science, Department of Chemistry; CREST, JST) YAMADA, Yasuyuki; FURUKAWA, Ko; KATO, Tatsuhisa; TANAKA, Kentaro

**1M2-44** Synthesis of stacked porphyrin arrays in rotaxane toward sequential elongation (Nagoya Univ., Graduate School of Science, Department of Chemistry; Nagoya Univ., Research Center for Material Science; CREST, JST) OKADA, Masaaki; YAMADA, Yasuyuki; TANAKA, Kentaro

Chair: IKEDA, Toshiaki (16:30~17:20)

\* 16:20-16:30: interval for laptop PC connection.(1M2-46, 1M2-48, 1M2-49, 1M2-50)

**1M2-46\*** Synthesis and Characterization of Discrete Non-Linear PEGs (1) (IMRAM, Tohoku Univ.) MURAOKA, Takahiro; ADACHI, Kota; UI, Mihoko; KAWASAKI, Shunichi; TOCHIO, Hidehito; SHIRAKAWA, Masahiro; KINBARA, Kazushi

**1M2-48** Synthesis and Characterization of Discrete Non-Linear PEGs (2) (IMRAM, Tohoku Univ.) KAWASAKI, Shunichi; MURAOKA, Takahiro; ADACHI, Kota; KINBARA, Kazushi

**1M2-49** Control of Supramolecular Polymerization of Molecular Chaperones by Light (Department of Chemistry and Biotechnology, School of Engineering, The Univ. of Tokyo) SENDAI, Toshihiro; BISWAS, Shuvendu; AIDA, Takuzo

**1M2-50** Pseudorotaxane structure of a fullerene derivative-cyclodextrin 1:2 complex (Graduate School of Materials Science, Nara Institute of Science and Technology) AONO, Ryota; IKEDA, Atsushi; AKIYAMA, Motofusa; KATAO, Shohei; KIKUCCHI, Jun-ichi

Chair: MURAOKA, Takahiro (17:30~18:20)

\* 17:20-17:30: interval for laptop PC connection.(1M2-52, 1M2-53, 1M2-54, 1M2-55, 1M2-56)

**1M2-52** Supramolecular networks formed by hexakis[5]arene and dumbbell-shaped fullerene (Hiroshima Univ.) HIRAO, Takehiro; IKEDA, Toshiaki; HAINO, Takeharu

**1M2-53** Size Selective Inclusion of C70 by Cycloparaphenylenes (Institute for Chemical Research, Kyoto Univ.) UMEMA, Yoshitaka; IWAMOTO, Takahiro; HAINO, Takeharu; YAMAGO, Shigeru

**1M2-54** Synthesis and Properties of Dipeptidyl Ureas. (Osaka Univ.) MORIUCHI, Toshiyuki; YAJIMA, Naoya; HIRAO, Toshikazu

**1M2-55** Control of Thermo-responsive Behavior of Polymer Having Urea Moieties by Adding Small Molecules Forming Hydrogen Bond (Univ. of Hokkaido) AMEMORI, Shogo; KOKADO, Kenta; SADA, Kazuki

**1M2-56** Control of Thermo-responsive Behavior of Polymer Having Pyrene Units by Adding Acceptor Molecules (Univ. of Hokkaido) AMEMORI, Shogo; KOKADO, Kenta; SADA, Kazuki

Monday, March 26, PM

Chair: KOKADO, Kenta (13:00~13:20)

\* 12:50-13:00: interval for laptop PC connection.(2M2-25, 2M2-26)

**2M2-25** Preparations and Water Proton Relaxivities of the Water-soluble

Hyperbranched Polymers Carrying Metal Complexes (Graduate school of Pharmaceutical Sciences, Kyushu Univ.) SHIMADA, Takashi; KARASAWA, Satoru; KOGA, Noboru

**2M2-26** Self-assembly Behaviors of Spin-labeled Oligonucleotides Having Alkyl Chains and Their Water-proton Relaxivities (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) TANIMOTO, Emi; KARASAWA, Satoru; KOGA, Noboru

Chair: OGAWA, Takuji (13:30~14:20)

\* 13:20-13:30: interval for laptop PC connection.(2M2-28, 2M2-29, 2M2-30, 2M2-31, 2M2-32)

**2M2-28** Construction of Two-Dimensional Nano Pore with Fluorinated Alkyl Groups and Its Molecular Recognition Ability (Graduate School of Engineering Science, Osaka Univ.) KATAYAMA, Keisuke; TAHARA, Kazukuni; TOBE, Yoshito

**2M2-29** Effect of Number and Length of Chiral Alkyl Chains on Chirality of Porous Molecular Orderings (Graduate School of Engineering Science, Osaka Univ.; K. U. Leuven) NOGUCHI, Aya; TAHARA, Kazukuni; GHIJSENS, Elke; YAMAGA, Hiroyuki; DE FEYTER, Steven; TOBE, Yoshito

**2M2-30** Preparation of Metal-Organic Frameworks Modified with Multiple Substrates (Graduate School of Chemical Science and Engineering, Hokkaido Univ.) NAGATA, Shunjiro; SUGIKAWA, Kouta; KOKADO, Kenta; SADA, Kazuki

**2M2-31** Electron Transport through Aromatic Stacks of Trinuclear Au(I) Complexes within Self-Assembled Coordination Cages (Grad. School of Engineering, The Univ. of Tokyo; CREST) TANAKA, Ryota; OSUGA, Takafumi; MURASE, Takashi; INATOMI, Junichi; KIGUCHI, Manabu; FUJITA, Makoto

**2M2-32** Highly ordered porphyrin arrays accumulated on cylindrical phase segregation interface in liquid crystalline amphiphilic block copolymer thin film (Kyoto Institute of Technology) AKIMOTO, Gensuke; AOTANI, Masashi; YAMADA, Syunsuke; KOMURA, Motonori; YOSHIDA, Hirohisa; ASAOKA, Sadayuki

Chair: FUKUSHIMA, Takanori (14:30~15:20)

\* 14:20-14:30: interval for laptop PC connection.(2M2-34, 2M2-35, 2M2-37)

**2M2-34** Synthesis of bis(tert-butyl biphenyl porphyrin)-imide dyad for single molecular diode application (Graduate School of Science, Osaka Univ.) MURNI, Handayani; GODA, Shun; TANAKA, Daisuke; TANAKA, Hirohumi; OGAWA, Takuji

**2M2-35** Hierarchical Construction and Guest-responsive Fluorescence of Inclusion Crystals with  $\pi$ -Stacked Supramolecular Beads (Graduate School of Engineering, Osaka Univ.) HINOUE, Tomoaki; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji

**2M2-37** Synthesis of Two-dimensional Donor-Acceptor Polymers and Covalent Organic Frameworks for Photoinduced Electron Transfer and Charge Separation (SOKENDAI; IMS; PRESTO, JST, Osaka Univ., Nagoya Univ.) JIN, Shangbin; SUPUR, Mustafa; ADDICOAT, Matthew; E. El-khouly, Mohamed; DING, Xuesong; FENG, Xiao; NAGAI, Atsushi; IRLE, Stephan; FUKUZUMI, Shinichi; JIANG, Donglin

Chair: YAGAI, Shiki (15:30~16:20)

\* 15:20-15:30: interval for laptop PC connection.(2M2-40, 2M2-42, 2M2-44)

**2M2-40** Hierarchical Construction of Fluorescent Porous Structures by Ammonium Carboxylates and Their Guest-responsive Fluorescent Properties (Graduate School of Engineering, Osaka Univ.) YAMAMOTO, Atsushi; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji

**2M2-42** Modulation of Helical Chirality of Oligo(o-phenylene) by Terminal Functionalization with Chiral Amides (RIKEN ASI; ERATOSORST Nanospace Pro.; Tokyo Institute of Technology Chemical Resources Laboratory; The Univ. of Tokyo Graduate School of Engineering) ANDO, Shinji; SATO, Hiroyasu; OHTA, Eisuke; KOSAKA, Atsuko; FUKUSHIMA, Takanori; AIDA, Takuzo

**2M2-44** One-handed Helical Wrapping of Polydialkylsilanes onto Surface of Carbon Nanotubes (NAIST) CHUNG, Woojung; FUJIKI, Michiya; NAITO, Masanobu

Chair: HISAKI, Ichiro (16:30~17:30)

\* 16:20-16:30: interval for laptop PC connection.(2M2-46, 2M2-47, 2M2-49, 2M2-50, 2M2-51)

**2M2-46** Preparation of core-shell type aggregates of nanocrystals of sumanene and sumanenetrone and its selective emission-amplified effect (Institute for Molecular Science; The Graduate Univ. for Advanced Studies) MORITA, Yuki; HAESUWANNAKIJ, Setsiri; HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro

**2M2-47** Preparation of organosilica films from newly designed organoalkoxysilanes with electroactive organic bridges and its photovoltaic properties (Toyota Central R&D Labs., Inc.; JST/CREST) MAEGAWA, Yoshifumi; IKAI, Masamichi; GOTO, Yasutomo; TANI, Takao; INAGAKI, Shinji

**2M2-49** Construction of a Donor-acceptor Segregated Columnar Structure Based by Supramolecular Rosette (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; KURATA, Hiroki; KARATSU, Takashi; KITAMURA, Akihide

**2M2-50** Controlling Nanostructure of Ambipolar Tetracene Derivatives in Bulk Heterojunction Solar Cells (The Univ. of Tokyo; ISIR, Osaka Univ.; Osaka Univ.) SUZUKI, Tsuyoshi; OKAMOTO, Toshihiro; SAEKI, Akinori;

SEKI, Shu; MATSUO, Yutaka

**2M2-51** Electronic transport and magnetic properties of double decker lanthanide phthalocyanines/gold nanoparticle assemblies (Reserch Institute Electronic Science, Hokkaido Unicerity) ARAKI, Mizuki; NODA, Yuki; KUBO, Kazuya; NORO, Shinichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

## Tuesday, March 27, AM

Chair: NISHIYABU, Ryuhei (9:00~9:50)

\* 8:50-9:00: interval for laptop PC connection.(3M2-01, 3M2-02, 3M2-03, 3M2-04, 3M2-05)

**3M2-01** Construction of metal-coordination assisted self-assembly of porphyrin (Faculty of Science and Technology, Keio Univ.) SAKUMA, Takao; SAKAI, Hayato; HASOBE, Taku

**3M2-02** Formation of Ion Materials Based on  $\pi$ -Conjugated Planar Charged Species (Institute of Science and Engineering, Ritsumeikan Univ.; Graduate School of Engineering, Osaka Univ.) HAKETA, Yohei; HONSHO, Yoshihito; SEKI, Shu; MAEDA, Hiromitsu

**3M2-03** Structure Control of Charge-Based Assemblies Comprising Peripherally Modified Anion-Responsive Molecules (Institute of Science and Engineering, Ritsumeikan Univ.) BANDO, Yuya; MAEDA, Hiromitsu

**3M2-04** Gelation of the Eu(III) complex prepared from the corresponding diketone ligand (Department of Applied Chemistry, Kyushu Institute of Technology) YAKEYA, Daisuke; MORIGUCHI, Tetsuji; ARAKI, Koji; TSUGE, Akihiko

**3M2-05** Enantioselection of C<sub>5</sub>-Symmetric Corannulene via One-Dimensional Assembly Driven by H-Bonding Chiral Side Chains. (Department of Chemistry and Biotechnology, School of Engineering, The Univ. of Tokyo) HARADA, Soichiro; MIYAJIMA, Daigo; AIDA, Takuzo

Chair: MAEDA, Hiromitsu (10:00~10:50)

\* 9:50-10:00: interval for laptop PC connection.(3M2-07, 3M2-08, 3M2-10)

**3M2-07** Chirality sensing based on supramolecular transmission of chirality to V-shaped hosts (Hokkaido Univ.) KATOONO, Ryo; KAWAI, Hidetoshi; FUJIWARA, Kenshu; SUZUKI, Takanori

**3M2-08** Folding and Self-assembly of "Multi-joint Polymer" Consisting of  $\pi$ -Conjugated Chiral Ferrocene as Molecular Pivot (School of Engineering, The Univ. of Tokyo) FUKINO, Takahiro; FUJITA, Norifumi; AIDA, Takuzo

**3M2-10**  $\pi$ -Conjugated Ferrocene Nanotube (School of Engineering, The Univ. of Tokyo) JOO, Hyunho; FUKINO, Takahiro; FUJITA, Norifumi; AIDA, Takuzo

Chair: ISHIDA, Yasuhiro (11:00~11:50)

\* 10:50-11:00: interval for laptop PC connection.(3M2-13, 3M2-16, 3M2-17)

**3M2-13** Young Scholar Lectures of CSJ Supramolecular Sensing and Photochemistry with Chiral Functional Hosts (Grad. Sch. Eng., Osaka Univ.) FUKUHARA, Gaku

**3M2-16**  $2_1$  Helical Supramolecular Assemblies of Cinchona Alkaloids in the Crystal State (Graduate School of Engineering, Osaka Univ.) HIRAIISHI, Eri; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji

**3M2-17** Supramolecular assembly formation of PEG-coated semiconductor cluster through the interaction with small molecules (Hokkaido Univ.) FUKUNAGA, Naoto; SHICHIBU, Yukatsu; KONISHI, Katsuaki

## Tuesday, March 27, PM

Chair: FUKUHARA, Gaku (13:00~13:50)

\* 12:50-13:00: interval for laptop PC connection.(3M2-25, 3M2-26, 3M2-27, 3M2-28, 3M2-29)

**3M2-25** Construction of chiral environments by self-assembly of sodium complexes with cholesterol sidearms (Graduate Schools of Science, Osaka City Univ. and JST, CREST) SHINODA, Satoshi; ASADA, Aya; MASAKI, Miyuki; ITOH, Hiroshi; TSUKUBE, Hiroshi

**3M2-26** Real-time Single-molecule Observation of Organic Compound with Optical Microscopy; Visualization of Structural Change of Open/Closed Type Fluorescent Molecule (School of Engineering, The Univ. of Tokyo) TSUKAHARA, Takahiro; IKEDA, Tomohiro; IINO, Ryota; NOJI, Hiroyuki

**3M2-27** Real-Time Single-Molecule Observation of Artificial Molecular Rotors with Optical Microscopy (School of Engineering, The Univ. of Tokyo) IKEDA, Tomohiro; TAKEUCHI, Masayuki; IINO, Ryota; NOJI, Hiroyuki

**3M2-28** Construction of Supramolecular Copolymers through the Positive Allosteric Bindings of Hydrindacenehexamide Receptors and Resorcinol Derivatives (Tokyo Univ. of Science) KAWAI, Hidetoshi; AKIMOTO, Keita; ONO, Yuki; OBA, Fumi; FUJIWARA, Kenshu; SUZUKI, Takanori

**3M2-29** Self-Assembly of Charge-Transfer Complexes from TCNQ and Lipophilic Dihydrophenazine Derivatives and Their Charge Transfer Properties (Kyushu Univ.; IRCMS; JST CREST) IGUCHI, Hiroaki; KIMIZUKA, Nobuo

Chair: YAMANAKA, Masamichi (14:00~14:50)

\* 13:50-14:00: interval for laptop PC connection.(3M2-31, 3M2-32, 3M2-33, 3M2-35)

**3M2-31** Self-Assembly and Circular Polarized Luminescence of Chiral

(Phenylisoxazolyl)benzene possessing perylenebisimide (Hiroshima Univ.) IKEDA, Toshiaki; MASUDA, Tetsuya; HIRAO, Takehiro; HAINO, Takeharu

**3M2-32** Synthesis and self-assembly of extended pi-conjugated molecules (Hiroshima Univ.) UEDA, Yuku; IKEDA, Toshiaki; HAINO, Takeharu

**3M2-33\*** Chiral Perylene Bisimide Assemblies Formed by Hydrogen Bonds (Graduate school of Engineering) SEKI, Tomohiro; KARATSU, Takashi; KITAMURA, Akihide; YAGAI, Shiki

**3M2-35** Self-assembly and Photoluminescence Property of Amphiphilic Dipolar Molecules (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; OKAMURA, Satoru; KARATSU, Takashi; KITAMURA, Akihide

Chair: MAEDA, Hiromitsu (15:00~16:00)

\* 14:50-15:00: interval for laptop PC connection.(3M2-37, 3M2-38, 3M2-39, 3M2-40)

**3M2-37** Aggregation-induced Emission Found in Donor-Acceptor Dyes (Kurume National College of Technology) IKEDA, Kei; OGAWA, Michiaki; ISHI-I, Tsutomu

**3M2-38** Dynamic covalent bond induced supramolecular hydrogel formation (Shizuoka Univ.) AMAKATSU, Mawo; HARAYA, Nana; YAMANAKA, Masamichi

**3M2-39** Development of pH responsive supramolecular hydrogel (Shizuoka Univ.) YANAI, Kazushige; MUNENOBU, Kanako; HARAYA, Nana; YAMANAKA, Masamichi

**3M2-40** CSJ Award for Young Chemists Construction of Functional Dye Assemblies by Hydrogen-Bond-Directed Supramolecular Modulation (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki

Chair: KUBO, Yuji (16:10~17:00)

\* 16:00-16:10: interval for laptop PC connection.(3M2-44, 3M2-46, 3M2-47)

**3M2-44\*** New Functions of One-Dimensionally Assembling Peptidic Macrocycles (1): Unidirectionally Oriented Nanoporous Liquid Crystalline Materials (The Univ. of Tokyo) SATO, Kohei; ITOH, Yoshimitsu; AIDA, Takuzo

**3M2-46** New Functions of One-Dimensionally Assembling Peptidic Macrocycles (2): Recognition of Biorelated Oxyanions (The Univ. of Tokyo) YOKOMIZO, Saki; SATO, Kohei; ITOH, Yoshimitsu; AIDA, Takuzo

**3M2-47\*** One-Dimensional Self-Assembly and Ambipolar Charge-Transport Properties of Donor-Acceptor Hybridized Liquid-Crystalline Molecules (Kyushu Univ.; The Univ. of Tokyo; JST PRESTO; Univ. of Sheffield) YASUDA, Takuma; SHIMIZU, Tomohiro; UNGAR, Goran; KATO, Takashi

Chair: YAGAI, Shiki (17:10~18:10)

\* 17:00-17:10: interval for laptop PC connection.(3M2-50, 3M2-51, 3M2-52, 3M2-53, 3M2-54, 3M2-55)

**3M2-50** Photochromic Organogel Formed by Molecular Association of Tris (phenylisoxazolyl)benzene and Bis(pyridylethynyl)benzene (Hiroshima Univ.) HIRAI, Yuku; IKEDA, Toshiaki; HAINO, Takeharu

**3M2-51** Boronate ester-based soft particles showing a selective saccharide-induced morphological change (Tokyo Metropolitan Univ.) NISHIYABU, Ryuhei; MATSUSHIMA, Yusuke; KUBO, Yuji

**3M2-52** Fabrication and catalytic function of self-organized boronate esters with supported gold nanoclusters (Tokyo Metropolitan Univ.) MATSUSHIMA, Yusuke; NISHIYABU, Ryuhei; HARUTA, Masataka; KUBO, Yuji

**3M2-53** Synthesis of  $C_{2v}$  cavitand and construction of hybrid supramolecular capsule (Faculty of Science, Shizuoka Univ.) NITO, Yuki; KOBAYASHI, Kenji; YAMANAKA, Masamichi

**3M2-54** Self-assembly of  $C_3$  symmetrical tris-urea (Shizuoka Univ.) SHIMAZU, Hideo; HIGASHI, Daisuke; YAMANAKA, Masamichi

**3M2-55** Fluorescent boronate hydrogels showing a selective response for copper ion (Tokyo Metropolitan Univ.) NISHIYABU, Ryuhei; KOBAYASHI, Hiroyasu; KUBO, Yuji

## Wednesday, March 28, AM

### Optical Property

Chair: AKINE, Shigehisa (9:00~9:50)

\* 8:50-9:00: interval for laptop PC connection.(4M2-01, 4M2-02, 4M2-03, 4M2-04, 4M2-05)

**4M2-01** Carboxylic Acid Recognition of Diamidine Having Fluorophore and Its Multicomponent Assembly with Carboxylic Acids. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; TANAKA, Syugo; HARADA, Toshiro

**4M2-02** Photoelectrochemical properties of Ta<sub>3</sub>N<sub>5</sub> electrode for water splitting prepared by particle transfer method (The Univ. of Tokyo) OKADA, Takuya; MINEGISHI, Tsutomu; MA, Guijin; TAKANABE, Kazuhiro; KATAYAMA, Masao; KUBOTA, Zyun; DOMEN, Kazunari

**4M2-03** Emission color change of ethynylquinoline derivatives by complexation with metal ions (Graduate School of Material Science, Nara Institute of Science and Technology) YAMADA, Masataka; YUASA, Junpei; KAWAI, Tsuyoshi

**4M2-04** Novel Power Collection System, Development of Electronic Relay System and Construction of Artificial Photochemical System (Tokyo

Metropolitan Univ.) TAKEDA, Yuichiro; YAMAMOTO, Daisuke; NABETANI, Yu; YANO, Kazuhisa; TACHIBANA, Hiroshi; INOUE, Haruo

**4M2-05** Selective colorimetric sensing of Co(II) in aqueous media with a spiropyran-amide-dipicolylamine linkage under UV irradiation (Osaka Univ.) MATSUNAGA, Yoshinao; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

Chair: KUBOTA, Jun (10:00~10:50)

\* 9:50-10:00: interval for laptop PC connection.(4M2-07, 4M2-08, 4M2-09, 4M2-10)

**4M2-07** Colorimetric Sensing of Cu(II) with a Spiropyran Derivative via an Oxidative Dehydrogenation Mechanism (Osaka Univ.) TANAKA, Kazuya; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

**4M2-08\*** Luminescent Response of a Novel Cyclometalated Iridium(III) Complex Bearing a Coordination Site to Metal Ions (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) LU, Fengniu; YAMAMURA, Masaki; NABESHIMA, Tatsuya

**4M2-09** Synthesis and Guest Recognition of Novel Macrocyclic Compounds Having a Hexa-*peri*-hexabenzocoronene Skeleton (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) ONUMA, Takahiro; AKINE, Shigehisa; NABESHIMA, Tatsuya

**4M2-10\*** Chiral Induction and Memory Effect in Molecular Assembly of Novel Amphiphilic ortho-Phenylenes (RIKEN, ASI) ENOZAWA, Hideo; FUKUSHIMA, Takanori; AIDA, Takuzo

Chair: MATSUMOTO, Shoji (11:00~11:50)

\* 10:50-11:00: interval for laptop PC connection.(4M2-13, 4M2-14, 4M2-15, 4M2-16, 4M2-17)

**4M2-13** Change in Optical Chirality of a Fluorene Derivative in Stepwise Complex Formation with Zinc Ion (Graduate School of Materials Science, Nara Institute of Science and Technology) TERUNUMA, Takuya; YUASA, Junpei; INUKAI, Norie; KAWAI, Tsuyoshi

**4M2-14** Mechanistic Understanding of Multistep Assembly of DNA with Carbazole Derivatives (Graduate School of Materials Science, Nara Institute of Science and Technology) INUKAI, Norie; KAWAI, Tsuyoshi; YUASA, Junpei

**4M2-15** Syntheses and Crystal Structures of Tetrathiafulvalenothioquinone-1,3-dithioleimide and Their Halogen Substituted Derivatives (Fac. of Eng., Shizuoka Univ.) UEDA, Kazumasa; SUZUKI, Kenta; KUNIMOTO, Kei

**4M2-16** Chirality Transfer from a Cyclen-Lanthanide Complex to Glycine-Derived Anions Through Asymmetric Coordination Chemistry (Osaka City Univ.) YASUEDA, Yuki; SHINODA, Satoshi; TSUKUBE, Hiroshi

**4M2-17** Chirality Amplification in Ring-expanded Cyclooctapyrroles by Binding of Carboxylic Acids (Kobe Univ.) NIKKUNI, Yoshiko; SETSUNE, Jun-ichiro

## Wednesday, March 28, PM

### Molecular Recognition

Chair: MOROHASHI, Naoya (13:00~13:50)

\* 12:50-13:00: interval for laptop PC connection.(4M2-25, 4M2-26, 4M2-28)

**4M2-25** Ion-Driven Chiroptical Properties of  $\pi$ -Conjugated Anion Receptors (Institute of Science and Engineering, Ritsumeikan Univ.; Nara Institute of Science and Technology; PRESTO, JST) BANDO, Yuya; HANE, Wataru; NAITO, Masanobu; KAWAI, Tsuyoshi; MAEDA, Hiromitsu

**4M2-26\*** Visualization of Molecular Recognition Using the Changes of the Size and Color of Stimuli-Responsive Gels (Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) ISEDA, Kazuya; HAKETA, Yohei; KOKADO, Kenta; MAEDA, Hiromitsu; FURUTA, Hiroyuki; SADA, Kazuki

**4M2-28\*** Synthesis of  $\alpha$ -Bridged BODIPY Oligomers and Supramolecular Formation by B-F—Cation Interactions (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) SAKAMOTO, Naoya; NABESHIMA, Tatsuya

Chair: MAEDA, Hiromitsu (14:00~14:50)

\* 13:50-14:00: interval for laptop PC connection.(4M2-31, 4M2-32, 4M2-33, 4M2-34, 4M2-35)

**4M2-31** Development of supramolecular host compounds constructed of 2,2'-thiodiphenol structural units (Graduate School of Engineering, Tohoku Univ.) SHIMAZAKI, Takanori; AKAHIRA, Yuki; MOROHASHI, Naoya; HATTORI, Tetsutaro

**4M2-32** Synthesis of 1,3-diiodocalix[4]arene via Ullmann-type reaction and transformation of the iodo groups (Graduate School of Engineering, Tohoku Univ.) NEBUYA, Satoru; NAKAMURA, Yuka; MOROHASHI, Naoya; HATTORI, Tetsutaro

**4M2-33** Synthesis and structural analysis of palladium(II) complexes coordinated by 1,3-bis (diphenylphosphino)calix[4]arene (Graduate School of Engineering, Tohoku Univ.) HORIUCHI, Takeru; NEBUYA, Satoru; KOBAYASHI, Takahiro; MOROHASHI, Naoya; HATTORI, Tetsutaro

**4M2-34** Synthesis of calix[4]arene diphosphonic acids and investigation of their extraction ability toward rare earth ions (Graduate School of Environmental Studies, Tohoku Univ.) HAYASHI, Tomoko; NAKAZIMA, Tyuya; NAKAMURA, Yuka; MOROHASHI, Naoya; HATTORI, Tetsutaro

**4M2-35** Ionic Liquid Pillar[5]arenes (Graduate School of Natural Science and

Technology, Kanazawa Univ.) UESHIMA, Naosuke; OGOSHI, Tomoki; YAMAGISHI, Tada-aki

Chair: KONDO, Shin-ichi (15:00~15:50)

\* 14:50-15:00: interval for laptop PC connection.(4M2-37, 4M2-38, 4M2-40, 4M2-41)

**4M2-37** Solvent Dependency of Stoichiometry for Host-Guest Complex of Pillar[5]arene with Viologen (Graduate School of Natural Science and Technology, Kanazawa Univ.) AOKI, Takamichi; OGOSHI, Tomoki; YAMAGISHI, Tada-aki

### Supermolecules

**4M2-38\*** Synthesis of "Molecular Nuts" Based on Ethynylpyridine Oligomers (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) KAYAMORI, Fumihiko; ABE, Hajime; INOUE, Masahiko

**4M2-40** Convergent synthesis and characteristics of optically active molecule-linked ethynylpyridine oligomers (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) MAKIDA, Hiroki; ABE, Hajime; INOUE, Masahiko

**4M2-41** Interaction of Tiara-shaped Metal-thiolate Clusters with Metallic Ions (Hokkaido Univ.) SEDA, Keita; SHICHIBU, Yukatsu; KONISHI, Katsuaki

Chair: OGOSHI, Tomoki (16:00~17:00)

\* 15:50-16:00: interval for laptop PC connection.(4M2-43, 4M2-45, 4M2-46, 4M2-47, 4M2-48)

**4M2-43\*** Cu(II)-Induced CD Enhancement and Chiral Memory Effects on meta-Ethynylpyridine Polymer with Cu(II)-Coordinating Side Chains (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) TAKASHIMA, Shunsuke; ABE, Hajime; INOUE, Masahiko

**4M2-45** Adductive Effect of Cu(II) ion on the CD of Saccharide-Linked Ethynylpyridine Oligomers. (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) OHISHI, Yuki; ABE, Hajime; INOUE, Masahiko

**4M2-46** Anion recognition by cyclic bisurea derivatives (Yamagata Univ.) KONDO, Shin-ichi; ISHIZAWA, Yuki; SATAKE, Akira

**4M2-47** Preparation and characteristics of a  $D_{3h}$ -Symmetric Ethynylpyridine Macrocyclic (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) OHTANI, Kohei; ABE, Hajime; INOUE, Masahiko

**4M2-48** Syntheses and Saccharide Recognition of Hydrogen-Bonding Macrocyclic Hosts Involving Aromatic Rings and Acetylene Bonds (Univ. of Toyama) ABE, Hajime; KAWASUMI, Hisao; INOUE, Masahiko

## Room M3

14th Bldg. Sosokan 14-203

### Physical Organic Chemistry -Structures and Properties-

Sunday, March 25, AM

Chair: HIRANO, Tomoya (10:00~10:50)

\* 9:50-10:00: interval for laptop PC connection.(1M3-07, 1M3-08, 1M3-09, 1M3-10)

**1M3-07** Kinetic Studies on Dynamic Behavior of Planer-Chiral Cyclophadienes for their rope-skipping isomerization (Waseda Univ.) KANOMATA, Nobuhiro; UEJIMA, Kazuhiro; MARUYAMA, Satoshi; SAKAMOTO, Norihiko

**1M3-08** Synthesis and Conformation of 2,11-dioxal[3.3]metacyclophane (Kanazawa Univ.) ENDO, Shinsuke; MAEDA, Hajime; SEGI, Masahito

**1M3-09** Control of the dynamic structure of the pyridinophanes by complexation with zinc porphyrin (Department of Applied Chemistry, Kyushu Institute of Technology) YOKOO, Masahiro; MORIGUCHI, Tetsuji; ARAKI, Koji; TSUGE, Akihiko

**1M3-10\*** The Study of Structure Elucidation of Symmetric Organic Molecules (Graduate School of Science & Engineering, Yamagata Univ.) KUSAKARI, Miho; KIJIMA, Tatsuro

Chair: ARAKI, Koji (11:00~11:50)

\* 10:50-11:00: interval for laptop PC connection.(1M3-13, 1M3-14, 1M3-15, 1M3-16)

**1M3-13** Flanking steric hindrance between two triptycyl groups and its effects on dynamic behavior in macrocyclic structures. (Okayama Univ. of Sci.) SHIRAKAWA, Eiji; IWANAGA, Tetsuo; TOYOTA, Shinji

**1M3-14** Synthesis and structural analysis of novel  $N,N'$ -bisporphyrin derivatives. (Ochanomizu Univ.) MATSUMURA, Mio; MURANAKA, Atsuya; UCHIYAMA, Masanobu; HASHIDUME, Daisuke; MASU, Hyuma; AZUMAYA, Isao; KAGECHIKA, Hiroyuki; TANATANI, Aya

**1M3-15** A study of dynamic behavior of active mobile N-H proton in strongly basic guanidine-based ionic liquids. (Faculty of Engineering, Yokohama National Univ.) KUROHA, Michiaki; SUZUKI, Hirotsugu; SAKAKIBARA,

Kazuhsa

**1M3-16\*** Stereochemistry of substitution Cyanoguanidines (Univ. of Tokyo Denki) TANAKA, Satomi; TAKAHASHI, Ryouhei; SHIBA, Ryuichi

### Sunday, March 25, PM

Chair: YAMAGUCHI, Kentaro (13:00~14:00)

\* 12:50-13:00: interval for laptop PC connection.(1M3-25, 1M3-27, 1M3-28, 1M3-29, 1M3-30)

**1M3-25\*** Synthesis and characterization of twin *m*-calix[3]amide connected by bithiophenes (Graduate School of Engineering, Nagoya Institute of Technology) YAMAKADO, Ryohei; SUGIMOTO, Shinri; MATSUOKA, Shin-ichi; SUZUKI, Masato; TAKAGI, Koji

**1M3-27** Application of Preferential Enrichment to Ketoprofen (Kyoto Univ) SUGIWAKE, Ryusuke; IWAMA, Sekai; GONNADE, Rajesh; TAKAHASHI, Hiroki; TSUE, Hirohito; TAMURA, Rui

**1M3-28** Construction of helical coordination polymer using aromatic sulfonamide ligands (Tokushima Bunri Univ.) SAKAI, Takahiro; KATAGIRI, Kosuke; TOMINAGA, Masahide; AZUMAYA, Isao

**1M3-29** Construction and chiral control of coordination polymer with optically active aromatic sulfonamide ligands (Tokushima Bunri Univ.) KATAGIRI, Kosuke; TOMINAGA, Masahide; AZUMAYA, Isao

**1M3-30** Formation and Control of Metal-Driven Helical pi-Conjugated Systems (Institute of Science and Engineering, Ritsumeikan Univ.; RIKEN-ASI; Graduated School of Pharmaceutical Sciences, The Univ. of Tokyo; PRESTO, JST) MAEDA, Hiromitsu; NISHIMURA, Takuma; TAKAISHI, Kazuto; UCHIYAMA, Masanobu; MURANAKA, Atsuya

Chair: TOMINAGA, Masahide (14:10~15:10)

\* 14:00-14:10: interval for laptop PC connection.(1M3-32, 1M3-33, 1M3-34, 1M3-36)

**1M3-32** Synthesis and crystal structure of molecular tubes containing four anthracene rings (Chemical Resources Laboratory, Tokyo Institute of Technology) HAGIWARA, Keita; SEI, Yoshihisa; YOSHIZAWA, Michito; AKITA, Munetaka

**1M3-33** Synthesis of Cationic Molecular Bowls Bearing Anthracene Rings (Chemical Resources Laboratory, Tokyo Institute of Technology) YAZAKI, Kohei; KISHI, Norifumi; YOSHIZAWA, Michito; AKITA, Munetaka

**1M3-34\*** Fluorescent Properties of Anthracene Trimers with a Triphenylamine or Triphenylphosphine Core (Chemical Resources Laboratory, Tokyo Institute of Technology) LI, Zhiou; ISHIZUKA, Hiromi; YOSHIZAWA, Michito; AKITA, Munetaka

**1M3-36\*** Deconstruction of Hydrogen-Bonded Capsules Using Chiral Spacers (The Scripps Research Institute) YAMAUCHI, Yoshihiro; AJAMI, Dariush; REBEK, Julius, Jr.

Chair: AZUMAYA, Isao (15:20~16:20)

\* 15:10-15:20: interval for laptop PC connection.(1M3-39, 1M3-40, 1M3-41, 1M3-42, 1M3-43, 1M3-44)

**1M3-39** Cyclic Spiroorthocarbonates: Preparation and Evaluation of Their Molecular Recognition Behavior (Konan Univ.; Tokushima Bunri Univ.) IWASO, Kazuhisa; DANJO, Hiroshi; KAWAHATA, Masatoshi; YAMAGUCHI, Kentaro; MIYAZAWA, Toshifumi

**1M3-40** Preparation of Spiroborate Nanocages (Konan Univ.; Tokushima Bunri Univ.) MASUDA, Yuhki; DANJO, Hiroshi; KAWAHATA, Masatoshi; YAMAGUCHI, Kentaro; MIYAZAWA, Toshifumi

**1M3-41** Coordination of Oligo(imidazole)s toward Lanthanoid Ions (Graduate School of Science, Osaka Univ.) NOBUKUNI, Hirofumi; YAKIYAMA, Yumi; MURATA, Tsuyoshi; MORITA, Yasushi

**1M3-42** Keto-enol tautomerism with remarkable color change (Aoyama Gakuin Univ.) YAMASHITA, Hiroaki; ABE, Jiro

**1M3-43** Oxidation State Analysis of P-Heterocyclic Singlet Biradicals (Graduate School of Science and Engineering, Tokyo Institute of Technology) KOBAYASHI, Makoto; MIKAMI, Koichi; ITO, Shigekazu

**1M3-44** Study on the Square Pyramidal Geometry of Hypervalent Organotelluriums (IV) (Department of Chemistry, School of Science, Kitasato Univ.; Air Liquide Laboratories; Department of Theoretical and Computational Molecular Science, Institute for Molecular Science) MINOURA, Mao; ISHII, Hana; YAMAMOTO, Gaku; NAGASE, Shigeru

Chair: ABE, Jiro (16:30~17:20)

\* 16:20-16:30: interval for laptop PC connection.(1M3-46, 1M3-48, 1M3-49, 1M3-50)

**1M3-46\*** Intramolecular Chiral Transfer from a Binaphthyl to an Azobenzene (RIKEN; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo) TAKAISHI, Kazuto; KAWAMOTO, Masuki; MURANAKA, Atsuya; UCHIYAMA, Masanobu

**1M3-48** The CD signal reversal of the condensed diarylethene with chiral core (Graduate School of Engineering, Kyoto Univ.) INOUE, Yuki; HIROSE, Takashi; HIGASHIGUCHI, Kenji; HASEGAWA, Jun-ya; MATSUDA, Kenji

**1M3-49** Theoretical Investigations of Circular Dichroism of 4,7-Deuterio[2.2]paracyclophane. (Graduate School of Engineering, Osaka Univ.) TODA, Mitsunobu; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; INOUE,

Yoshihisa

- 1M3-50** Theoretical Investigations of the Circular Dichroism of Carbo[n] helicenes (Graduate School of Engineering, Osaka Univ.) NAKAI, Yoshito; TODA, Mitsunobu; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; INOUE, Yoshihisa

Chair: MATSUO, Yutaka (17:30~18:00)

- \* 17:20-17:30: interval for laptop PC connection.(1M3-52, 1M3-55, 1M3-56)  
**1M3-52 CSJ Award for Young Chemists** Construction and Control of Two-Dimensional Porous Molecular Orderings on Surfaces Utilizing Alkyl Chain Interactions (Graduate School of Engineering Science, Osaka Univ.) TAHARA, Kazukuni

Chair: MATSUO, Yutaka (18:00~18:20)

- 1M3-55** Solid State Fluorescence of Quinoline Derivatives and Its Thermal Alteration of Structure and Fluorescence (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) KARASAWA, Satoru; ABE, Yuichiro; KOGA, Noboru  
**1M3-56** Thermal Crystal Phase Transition of Naphthyridine Derivatives Accompanied with Alternation of Fluorescence (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) HARADA, Naomi; ABE, Yuichiro; KARASAWA, Satoru; KOGA, Noboru

## Monday, March 26, PM

### Molecular Magnetic Materials

Chair: YOSHIOKA, Naoki (12:30~13:30)

- \* 12:20-12:30: interval for laptop PC connection.(2M3-22, 2M3-24, 2M3-25, 2M3-26, 2M3-27)  
**2M3-22\*** Synthesis of All-Organic Nitroxide Monoradical and Biradical Compounds and Their Magnetic Properties in Their Liquid Crystalline Phases (Kyoto Univ.) SUZUKI, Katsuaki; UCHIDA, Yoshiaki; TAMURA, Rui; SHIMONO, Satoshi; YAMAUCHI, Jun  
**2M3-24** Synthesis of Cobalt Complex Coordinated with Tetradiazo-mono-pyridine Compound and Its Magnetic Properties after Irradiation (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) NAKANO, Kimihiro; YOSHIHARA, Daisuke; KARASAWA, Satoru; KOGA, Noboru  
**2M3-25** Molecular Structures and Magnetic Properties of Photoresponsive Heterospin Dinuclear Complexes Containing Fe(II), Co(II) or Ni(II) Ions (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) YOSHIHARA, Daisuke; KARASAWA, Satoru; KOGA, Noboru  
**2M3-26** Molecular Structure and Magnetic Property of Heterospin 12-nuclei Cobalt Cluster Bridging with Aminoxyl-Pyridine Ligand (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) MURASHIMA, Kensuke; YOSHIHARA, Daisuke; KARASAWA, Satoru; KOGA, Noboru  
**2M3-27** Mixed-Valence Molecular Crystals: 1-D Stacks Composed of Trioxotriangulene Neutral Radical and Anion (Osaka Univ.) MURATA, Tsuyoshi; MORITA, Yasushi

Chair: KARASAWA, Satoru (13:40~14:40)

- \* 13:30-13:40: interval for laptop PC connection.(2M3-29, 2M3-30, 2M3-31, 2M3-32, 2M3-33, 2M3-34)  
**2M3-29** Synthesis, magnetic properties, and magnetostructure relation of triplet biradicals toward materials showing thermally induced magnetism. (The Univ. of Electro-Communications) KONNO, Takuya; ISHIDA, Takayuki  
**2M3-30** Synthesis and Properties of Ground Triplet State Pyrimidine-4,6-diy Bis(*tert*-butyl Nitroxide) (The Univ. of Electro-Communications) HOMA, Yuta; OKAZAWA, Astushi; ISHIDA, Takayuki  
**2M3-31** Syntheses, structural and magnetic studies on the complexes consists of carboranyl radicals and transition metal ions. (College of Humanities and Sciences, Nihon Univ.) IWAHORI, Fumiyasu; UCHIDA, Takuto; SUZUKI, Rei  
**2M3-32** Substituent Effect of Indole Nitronyl Nitroxide Derivatives on Assembled Structure and Magnetic Property (Faculty of Science and Technology, Keio Univ.) SUGAWARA, Hiromasa; JO, Shorei; MAEDA, Chihiro; YOSHIOKA, Naoki  
**2M3-33** Syntheses and Properties of Annulated Benzimidazole Nitronyl Nitroxide Radical Derivatives (Faculty of science and technology, Keio Univ.) YAMAGUCHI, Yuta; MAEDA, Chihiro; YOSHIOKA, Naoki  
**2M3-34** Construction of PCET System with Stable Aryloxy Radicals (Graduate School of Science, Osaka Univ.) ISOGAI, Kazuki; HIRAO, Yasukazu; SAITO, Toru; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi

Chair: MISAKI, Yohji (14:50~15:40)

- \* 14:40-14:50: interval for laptop PC connection.(2M3-36, 2M3-38, 2M3-40)  
**2M3-36\***  $\pi$ -conjugating Dendritic Macromolecules with an Intramolecular Potential Gradient (Tokyo Tech.) IMAOKA, Takane; YAMAMOTO, Kimihisa  
**2M3-38\*** Synthesis and electronic structure of Ferrocene-Tetrathiafulvalene hybrid molecule (Riken) KUSAMOTO, Tetsuro; KATO, Reizo; NISHIHARA, Hiroshi  
**2M3-40** Structure and Physical Properties of Br salt based on reduced pi-donor

- DODHT (Ibaraki Univ.; Univ. of Tsukuba) SHINZAKI, Yoichi; NISHIKAWA, Hiroyuki; MATSUMOTO, Kiyotaka; OSHIO, Hiroki

Chair: IMAOKA, Takane (15:50~16:40)

- \* 15:40-15:50: interval for laptop PC connection.(2M3-42, 2M3-43, 2M3-44, 2M3-45, 2M3-46)  
**2M3-42** Synthesis and Properties of  $\pi$ -extended Bianthrone Thiophene Analogues (Graduate School of Science, Kitasato Univ.) TAKEHANA, Natsumi; HASEGAWA, Masashi; MAZAKI, Yasuhiro  
**2M3-43** Synthesis and properties of anthraquinoid-type  $\pi$ -extended TTF dimer of donor (Grad. Sch. Sci., Eng., Ehime Univ.) KATO, Minami; OGI, Daisuke; SHIRAHATA, Takashi; MISAKI, Yohji  
**2M3-44** Synthesis and properties of higher homologs of pi extended TTP system of with anthraquinoid spacer (Grad. Sch. Sci., Eng., Ehime Univ.) OGI, Daisuke; SHIRAHATA, Takashi; MISAKI, Yohji  
**2M3-45** Synthesis and properties of higher homologues of fused donors containing extended TTF units (Grad. Sch. Sci., Eng., Ehime Univ.) KATO, Minami; SHIRAHATA, Takashi; MISAKI, Yohji  
**2M3-46** Synthesis and Characterization of Novel Thallium Molecular Conductor Containing Organic Acceptor TANC (Department of Chemistry, Faculty of Science, Tokyo Univ. of Science. Department of Basic Science, Graduate School of Arts and Sciences, The Univ. of Tokyo.) YAMAGATA, Akio; ISODA, Kyosuke; ENOMOTO, Masaya; KAWABE, Yu; KOJIMA, Norimichi; TADOKORO, Makoto

Chair: HASEGAWA, Masashi (16:50~17:30)

- \* 16:40-16:50: interval for laptop PC connection.(2M3-48, 2M3-49, 2M3-50, 2M3-51)  
**2M3-48** Evaluation of the Molecular Conductance by Probing Exchange Interaction between Two Organic Radicals (Grad. School of Eng., Kyoto Univ.) SHINOMIYA, Masataka; HIGASHIGUCHI, Kenji; MATSUDA, Kenji  
**2M3-49** Synthesis and Properties of 1,2-Dithienylethylene Derivatives Containing Difluoroboron Diketonates (Nagoya Institute of Technology) KOBAYASHI, Yusuke; ONO, Katsuhiko  
**2M3-50** Structures and Properties of Quinacridonequinone Derivatives Modified by BF<sub>2</sub> Chelation (Nagoya Institute of Technology) YAMADA, Hiroyuki; TAKI, Masato; ONO, Katsuhiko  
**2M3-51** Synthesis and Properties of Donor- $\pi$ -Acceptor Dye Containing Difluoroboron Diketonates (Nagoya Institute of Technology) MIZUNO, Yosuke; ONO, Katsuhiko

## Tuesday, March 27, AM

### Molecular Conductors

Chair: IINO, Hiroaki (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3M3-01, 3M3-03, 3M3-04, 3M3-05, 3M3-06)  
**3M3-01\*** Mechanism to determine molecular orientations in organic thin films on the surfaces of self-assembled monolayers (National Institute of Advanced Industrial Science and Technology) OBATA, Shigeaki; SHIMOI, Yukihiro  
**3M3-03** Syntheses and properties of novel dicyanopyrazino[2,3-b]quinoxaline derivatives (Tokyo Institute of Technology, Interdisciplinary Grad. School of Sci. and Eng.) KAKISHITA, Hajime; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro  
**3M3-04** Benzothiadiazole-thienyltriphenylamine Polymers for Organic Solar Cells (Kurume National College of Technology) SHINOHARA, Yuki; YASUDA, Takeshi; HAN, Liyuan; ISHI-I, Tsutomu  
**3M3-05** Synthesis of porphyrin-imide molecular transistor (Graduate School of Science, Osaka Univ.) GOTO, Akifumi; GOHDA, Syun; TANAKA, Daisuke; TANAKA, Hirofumi; OGAWA, Takuji  
**3M3-06** Development of Benzopyrazine-Fused Tetracene Derivatives and Their Device Performances (School of Science, The Univ. of Tokyo) KOJIMA, Shungo; OKAMOTO, Toshihiro; MIWA, Kazumoto; TAKEYA, Junichi; MATSUO, Yutaka

Chair: OGAWA, Takuji (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(3M3-08, 3M3-10, 3M3-12)  
**3M3-08\*** Development of Thiophene-containing V-shape  $\pi$ -Conjugated Molecules with High Carrier Mobility (ISIR, Osaka Univ.) MITSUI, Chikahiko; OKAMOTO, Toshihiro; YAMAGISHI, Masakazu; NAKAHARA, Katsumasa; HIROSE, Yuri; MIWA, Kazumoto; SOEDA, Junshi; SATO, Hiroyasu; YAMANO, Akihito; UEMURA, Takafumi; TAKEYA, Junichi  
**3M3-10\*** Aggregated Structures and Device Performances of Alkyl-substituted Thiophene-containing V-shape  $\pi$ -Conjugated materials (ISIR, Osaka Univ.) OKAMOTO, Toshihiro; MITSUI, Chikahiko; YAMAGISHI, Masakazu; NAKAHARA, Katsumasa; HIROSE, Yuri; SOEDA, Junshi; SATO, Hiroyasu; YAMANO, Akihito; UEMURA, Takafumi; TAKEYA, Junichi  
**3M3-12\*\*** Synthesis of New Benzodipyrroles Bearing Water-Soluble Functional Groups and Their Application to Organic Solar Cells (Department of Chemistry, School of Science, The Univ. of Tokyo) FURUKAWA, Shunsuke; TANAKA, Hideyuki; TSUJI, Hayato; NAKAMURA, Eiichi

Chair: NISHIKAWA, Hiroyuki (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(3M3-15, 3M3-16, 3M3-18, 3M3-19)
- 3M3-15** Synthesis of Indacene Derivatives Bearing Phosphine Chalcogenide Moieties and Their Application to Organic Solar Cells (Department of Chemistry, School of Science, The Univ. of Tokyo) KOJIMA, Tatsuo; FURUKAWA, Shunsuke; TSUJI, Hayato; NAKAMURA, Eiichi
- 3M3-16\*** Liquid Crystalline Organic Semiconductors from Fused Porphyrin Oligomers (1): Hole/Electron Transporting Properties and Homeotropic Alignment of Liquid Crystalline Fused Porphyrin Dimers (The Univ. of Tokyo, Osaka Univ., Kyoto Univ.) SAKURAI, Tsuneaki; KOBAYASHI, Yoshiyuki; SAEKI, Akinori; SEKI, Shu; OSUKA, Atsuhiko; AIDA, Takuzo
- 3M3-18** Liquid Crystalline Organic Semiconductors from Fused Porphyrin Oligomers (2): Porphyrin Tapes with a Wide-Range Absorption up to Near-Infrared Region (The Univ. of Tokyo, Osaka Univ., Kyoto Univ.) TANAKA, Seiya; SAKURAI, Tsuneaki; SAEKI, Akinori; SEKI, Shu; OSUKA, Atsuhiko; AIDA, Takuzo
- 3M3-19\*** Improvement of thermal stability of soluble FET material using highly ordered liquid crystal phase (Tokyo Inst. of Tech. & JST-CREST) IINO, Hiroaki; USUI, Takayuki; KOBORI, Takeo; HANNA, Jun-ichi

## Tuesday, March 27, PM

Chair: ISHIDA, Takayuki (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(3M3-28, 3M3-29, 3M3-31, 3M3-32, 3M3-33)
- 3M3-28** Synthesis of naphthodifuran derivatives and their application to field-effect transistor (Department of Chemistry, School of Science, The Univ. of Tokyo; The Institute of Scientific and Industrial Research, Osaka Univ.) SHOYAMA, Kazutaka; MITSUI, Chikahiko; TAKEYA, Junichi; TSUJI, Hayato; NAKAMURA, Eiichi
- 3M3-29\*** Assembly of C<sub>3</sub>-Symmetric Pi-Conjugated Cyclic Molecules - Symmetry, Intermolecular Interactions, and Crystal Structures (Graduate School of Engineering, Osaka Univ.) HISAKI, Ichiro; SENGA, Hirofumi; SHIGEMITSU, Hajime; TOHNAI, Norimitsu; MIYATA, Mikiji
- 3M3-31** Withdrawn
- 3M3-32** Unique Photophysical Properties of Pyridyl-Substituted Benzodifuran Derivatives: Concentration Dependence in Solution and Mechanochromic Behavior in the Solid State (Department of Chemistry, School of Science, The Univ. of Tokyo) LEE, Sunri; FAVIER, Guillaume; MITSUI, Chikahiko; HASHIZUME, Daisuke; TSUJI, Hayato; NAKAMURA, Eiichi
- 3M3-33** Mechanofluorochromism of Diarylaminobenzaldehydes (Murooran Inst. Tech., Osaka Univ.) MIZUGUCHI, Kei; KAGEYAMA, Hiroshi; NAKANO, Hideyuki

## Photo-physical Properties

Chair: TSUDA, Akihiko (14:40~15:30)

- \* 14:30-14:40: interval for laptop PC connection.(3M3-35, 3M3-37, 3M3-38)
- 3M3-35\*** Fluorescence Emission Properties of Dinaphthylhexatrienes in Solution and in the Solid State: Effects of Internal Rotation (AIST) SONODA, Yoriko; SHIMOI, Yukihiko; GOTO, Midori; TOHNAI, Norimitsu; KANESATO, Masatoshi
- 3M3-37** Development of Highly Efficient Electroluminescence Devices Utilizing Thermally Activated Delayed Fluorescence of Spiro-structured Molecules (Kyushu Univ., OPERA) NASU, Keiro; NOMURA, Hiroko; ADACHI, Chihaya
- 3M3-38\*** Synthesis and Photophysical Properties of Fullerene Peapods Covalently Modified with Porphyrins (Kyoto Univ., iCeMS) UMEYAMA, Tomokazu; MIHARA, Junya; MATANO, Yoshihiro; IMAHORI, Hiroshi
- Chair: TOHNAI, Norimitsu (15:40~16:20)
- \* 15:30-15:40: interval for laptop PC connection.(3M3-41, 3M3-42, 3M3-43, 3M3-44)
- 3M3-41** Fluorescence Behavior of Cyano-bis(pyridylphenyl)ethene Showing Aggregate-induced Enhanced Emission in the Crystalline Phase (Grad. School of Eng., Kyoto Univ.) NISHIO, Suguru; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 3M3-42** Syntheses and Electronic Properties of Systematically Substituted Coronene and Benzo[ghi]perylene Derivatives (Faculty of Science and Technology, Keio Univ.) HIRAYAMA, Sunao; SAKAI, Hayato; MIURA, Tomoaki; HASOBE, Taku
- 3M3-43** Trialkylsilyl-Substituted Pyrenes as Emissive Liquids (Department of Chemistry, Graduate School of Science, Nagoya Univ.; CREST, Japan Science and Technology Agency) HAYASHI, Kenzo; YAMAGUCHI, Shigehiro
- 3M3-44** A Photoconductive, Thiophene-Fullerene Double-Cable Polymer, Nanorod Device (Kyoto Univ., iCeMS) KITAJIMA, Shinji; UMEYAMA, Tomokazu; MATANO, Yoshihiro; IMAHORI, Hiroshi

Chair: HASOBE, Taku (16:30~17:10)

- \* 16:20-16:30: interval for laptop PC connection.(3M3-46, 3M3-47, 3M3-48, 3M3-49)
- 3M3-46** Photo-responsive Structural Inversions of a Twisted Photochromic Nanoring (1) (Graduate School of Science, Kobe Univ.) LIU, Guanfan; SETSUNE, Jun-ichiro; TSUDA, Akihiko

- 3M3-47** Photo-responsive Structural Inversions of a Twisted Photochromic Nanoring (2) (Graduate School of Science, Kobe Univ.) YAMAMOTO, Taiki; LIU, Guanfan; SETSUNE, Junichiro; TSUDA, Akihiko
- 3M3-48** Synthesis of Novel Dyes with a 1,3-Dithiol unit, and Its Application to Solar Cells (Tokyo Institute of Technology, Interdisciplinary Graduate School of Science and Engineering) NAMATAME, Akira; NISHIDA, Jun-ishi; YAMASHITA, Yoshiro
- 3M3-49** Synthesis and Photovoltaic Properties of Low-Bandgap Conjugated Polymers Containing Thermally-Induced Isothianaphthene Dimer Subunits (Kyoto Univ., iCeMS) HIROSE, Kohei; UMEYAMA, Tomokazu; MATANO, Yoshihiro; ONO, Noboru; IMAHORI, Hiroshi

Chair: NAKANO, Hideyuki (17:20~18:00)

- \* 17:10-17:20: interval for laptop PC connection.(3M3-51, 3M3-52, 3M3-53)
- 3M3-51** Liquid Crystalline Phthalocyanine-Fullerene Dyad That Exhibits Ambipolar Charge Transport (Kyoto Univ., iCeMS) HAYASHI, Hironobu; UMEYAMA, Tomokazu; MATANO, Yoshihiro; IMAHORI, Hiroshi
- 3M3-52** Photoelectrochemical Property of Organic/Inorganic Composites Deposited on Graphene by Bottom-up Technique (Kyoto Univ., iCeMS) HAYASHI, Hironobu; UMEYAMA, Tomokazu; IMAHORI, Hiroshi
- 3M3-53\*** Function of Photoresponsive Alternating Amphiphilic Compound in Phospholipids (IMRAM, Tohoku Univ) SHIMA, Tatsuya; MURAOKA, Takahiro; HAMADA, Tsutomu; MORITA, Masamune; TAKAGI, Masahiro; KINBARA, Kazushi

## Room M4

14th Bldg. Sosokan 14-204

## Physical Organic Chemistry - Structures and Properties-

## Sunday, March 25, AM

Chair: KOBAYASHI, Kenji (9:50~10:50)

- \* 9:40-9:50: interval for laptop PC connection.(1M4-06, 1M4-07, 1M4-08, 1M4-09, 1M4-10)
- 1M4-06** Application of *anti-O,O'*-Di(carboxymethyl)calix- and thiacalix[4]arene as Chiral Solvating Agents (Ishinomaki Senshu Univ.) HOSHI, Yusuke; SUZUKI, Yume; NARUMI, Fumitaka
- 1M4-07** A Folding Bowl-shaped Structure of Cyclic Tripeptides of 2-(2-Aminophenoxy)alkanoic Acid and Their Binding of Quaternary Ammonium Compounds (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; KEICHO, Kazuaki; MATSUMOTO, Shoji
- 1M4-08** Construction of Foldamers by Complexation with Pybox Ligands Having Two Urea Moieties and Their Anion Recognition (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) KAWAGOE, Shota; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 1M4-09** Enantioselective Formation of  $\pi$ -Conjugated Helical Receptor-Anion Complexes Induced by Chiral Cation (Institute of Science and Engineering, Ritsumeikan Univ.) HAKETA, Yohei; MAEDA, Hiromitsu
- 1M4-10\*** Construction of Metallo-Supramolecular Architectures using Rhombic Macrocycles with Two Chemically-Equivalent Phenanthroline Coordination Sites (Grad. School of Science, The Univ. of Tokyo) KURITANI, Masumi; TASHIRO, Shohei; SHIONOYA, Mitsuhiko

Chair: IWASAWA, Nobuharu (11:00~11:50)

- \* 10:50-11:00: interval for laptop PC connection.(1M4-13, 1M4-14, 1M4-15, 1M4-16, 1M4-17)
- 1M4-13** Conformational Switching and Supramolecular Properties of a Molecular Tweezers by Intramolecular Hydrogen Bond. (Tokyo Inst. of Tech., Chem. Res. Lab.) TSUCHIDO, Yoshitaka; SUZAKI, Yuji; OSAKADA, Kohtaro
- 1M4-14** Formation of Cyclodextrin Structures Using a Fluorinated Solvent (Osaka Univ.) SATO, Shinichiro; KIDA, Toshiyuki; AKASHI, Mitsuru
- 1M4-15** Synthesis of Bowl Molecules Containing Pyridine-Substituted Six-Membered Ring Boronate Esters (Tokyo Metropolitan Univ.) OTSUKA, Kaoru; TAKEUCHI, Yuya; NISHIYABU, Ryuhei; KUBO, Yuji
- 1M4-16** Photoresponsive Self-Assembled Cubic Capsule Based on Calix[4]resorcinarene Bearing Azobenzene Side Chains (Shizuoka Univ.) SAKANO, Tsubasa; YAMANAKA, Masamichi; KOBAYASHI, Kenji
- 1M4-17** Metal- or Cavitand-Selection for Self-Assembled Metal-Coordination Cavitand Capsules (Shizuoka Univ.) ICHIHARA, Keisuke; YAMANAKA, Masamichi; KOBAYASHI, Kenji

## Sunday, March 25, PM

Chair: MAEDA, Hiromitsu (13:00~13:50)

- \* 12:50-13:00: interval for laptop PC connection.(1M4-25, 1M4-26, 1M4-27, 1M4-29)
- 1M4-25** Self-Assembled Boronic Ester Cavitand Capsules: Investigation for



Various Types of Bis(catechol)-Linkers (Shizuoka Univ) TAMAKI, Kento; HIRUMI, Yohei; ISHIGAMI, Asumi; YAMANAKA, Masamitsu; KOBAYASHI, Kenji

**1M4-26** Self-Assembled Boronic Ester Cavitand Capsule as a Guard Nanocontainer for BPEA Derivatives (Shizuoka Univ) HIRUMI, Yohei; SUZUKI, Kengo; KOBAYASHI, Kenji

**1M4-27\*** Controlled Construction of Macrocyclic Boronic Esters Derived from Chiral Diboronic Acid and Bis(1,2-diol) (Tokyo Institute of Technology, JST-CREST) ITO, Suguru; ONO, Kosuke; IWASAWA, Nobuharu

**1M4-29** Development of a Method for Connecting Macrocyclic Boronic Esters (Tokyo Institute of Technology) AIZAWA, Ryo; ONO, Kosuke; IWASAWA, Nobuharu

Chair: NABESHIMA, Tatsuya (14:00~15:00)

\* 13:50-14:00: interval for laptop PC connection.(1M4-31, 1M4-33, 1M4-34, 1M4-35, 1M4-36)

**1M4-31\*** Encapsulation of a Protein within a Synthetic Molecular Host (School of Engineering, The Univ. of Tokyo; Okazaki Inst. for Integrative Bioscience; Grad. School of Pharm. Science, Nagoya City Univ.; RIKEN; CREST) FUJITA, Daishi; SUZUKI, Kosuke; SATO, Sota; YAGI, Maho; SATOH, Tadashi; KURIMOTO, Eiji; YAMAGUCHI, Yoshiaki; KATO, Koichi; FUJITA, Makoto

**1M4-33** Synthesis, structure, and ligand exchange behaviors of an azatriptycene-derived metallo-molecular clutch (The Univ. of Tokyo) UBE, Hitoshi; ISHII, Satoshi; KAWAGUCHI, Atsushi; SHIONOYA, Mitsuhiro

**1M4-34** Construction of Supramolecular Metallo-Architectures using a Novel Triazatriptycene Ligand (The Univ. of Tokyo) HAYASHI, Kotaro; UBE, Hitoshi; SHIONOYA, Mitsuhiro

**1M4-35** Synthesis of (PdO)<sub>n</sub> and Pd<sub>n</sub> Clusters Derived from Multinuclear Complexes Coated with Silica Gel (School of Engineering, The Univ. of Tokyo; Grad. School of Engineering, Kyoto Univ.; JASRI; Grad. School of Science, Chiba Univ.; Grad. School of Advanced Integration Sciences, Chiba Univ.; CREST) SATO, Sota; TAKAO, Kiyotaka; SUZUKI, Kosuke; ICHIO, Tatsuya; ASAKURA, Hiroaki; TERAMURA, Kentaro; KATO, Kazuo; OHBA, Tomonori; MORITA, Takeshi; FUJITA, Makoto

**1M4-36** Anion-Driven Assemblies in Various Dimensions Based on Radially Arranged Receptor Oligomers (Institute of Science and Engineering, Ritsumeikan Univ.) MAEDA, Hiromitsu; SHIRAI, Tomohiro

Chair: TASHIRO, Shohei (15:10~16:10)

\* 15:00-15:10: interval for laptop PC connection.(1M4-38, 1M4-39, 1M4-40, 1M4-41, 1M4-42, 1M4-43)

**1M4-38** Synthesis of Novel Macrocyclic Compounds by Self-assembly of Pentiptycene Derivatives (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) KUSAMA, Daisuke; AKINE, Shigehisa; NABESHIMA, Tatsuya

**1M4-39** Azobenzene Isomerization Controlled by Formation of Macrocyclic Terpyridine Fe<sup>II</sup> Complex (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) OKAZAKI, Yuki; YAMAMURA, Masaki; NABESHIMA, Tatsuya

**1M4-40\*** An M<sub>18</sub>L<sub>24</sub> Stellated Cuboctahedron via Post-Stellation of an M<sub>12</sub>L<sub>24</sub> Core (Grad. School of Engineering, The Univ. of Tokyo; CREST) SUN, Qing-fu; SATO, Sota; FUJITA, Makoto

**1M4-41** Accumulation of Polymerizable Monomers by Endo-Functionalization of M<sub>24</sub>L<sub>48</sub> Self-Assembled Spherical Complexes (The Univ. of Tokyo; CREST) JEONG, Jinu; IWASA, Junji; SATO, Sota; FUJITA, Makoto

**1M4-42\*** Self-Assembly of Spherical Complexes Containing Internal Coordination Sites (Grad. School of Engineering, The Univ. of Tokyo; CREST) HARRIS, Kate; SUN, Qing-fu; SATO, Sota; FUJITA, Makoto

**1M4-43** Synthesis and Structural Control of Highly Fluorescent Dipyrroline-Germanium Complex (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) TAKIZAWA, Hiroaki; SAKAMOTO, Naoya; YAMAMURA, Masaki; NABESHIMA, Tatsuya

Chair: UBE, Hitoshi (16:20~17:20)

\* 16:10-16:20: interval for laptop PC connection.(1M4-45, 1M4-46, 1M4-47, 1M4-48, 1M4-49, 1M4-50)

**1M4-45** Synthesis and Functions of C<sub>3</sub> Symmetric Tris(bipyridine)-metal Complexes Bearing Various Functional Groups. (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) OKUHARA, Takashi; YAMAMURA, Masaki; NABESHIMA, Tatsuya

**1M4-46** Template Synthesis of TiO<sub>2</sub> nanoparticles within hollow spherical complexes (School of Engineering, The Univ. of Tokyo; CREST) ICHIO, Tatsuya; SATO, Sota; FUJITA, Makoto

**1M4-47** Nuclearity Control of a Tris(oloph) Zinc Cluster Complex Using the Bridging Anion Exchange (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) IIDA, Masaya; YAMAMURA, Masaki; NABESHIMA, Tatsuya

**1M4-48** Synthesis of Anion Receptors Comprising Directly Linked Oligopyrroles (Institute of Science and Engineering, Ritsumeikan Univ.) MAEDA, Hiromitsu; KAWASAKI, Yuto

**1M4-49** Effects of solvent on aggregation behavior of water-soluble phthalocyanines (National Institute for Materials Science) ISAGO, Hiroaki; FUJITA, Harumi

**1M4-50** Synthesis and Self-Aggregation of Zinc 3-Aminomethyl-Chlorins and Their Dyads (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; MASUDA, Yohei; TAMIYAKI, Hitoshi

Chair: SAWADA, Tomohisa (17:30~18:30)

\* 17:20-17:30: interval for laptop PC connection.(1M4-52, 1M4-54, 1M4-55, 1M4-56)

**1M4-52\*** External Control of Cooperative Porphyrin aggregates by Photo-responsive Ligand (Eindhoven Univ. of Tech.) HIROSE, Takashi; HELMICH, Floris; MEIJER, E. W.

**1M4-54** A Supramolecular Metal Complex Composed of Porphyrin Ligands with Four Bidentate Coordination Sites in Its Periphery (The Univ. of Tokyo) NAKAMURA, Takashi; UBE, Hitoshi; SHIONOYA, Mitsuhiro

**1M4-55** Synthesis and structure of supramolecular consisted with porphyrin-DNA conjugate (Konan Univ.) WATARI, Masato; MURASHIMA, Takashi; TATEISHI, Hisae

**1M4-56\*** Single Crystal of Cyclodextrin-Porphyrin Supramolecular Complexes (ISIT) TSUCHIYA, Youichi; SHIRAKI, Tomohiro; MATSUMOTO, Takashi; SUGIKAWA, Kouta; SADA, Kazuki; YAMANO, Akihito; SHINKAI, Seiji

## Physical Organic Chemistry -Reaction Mechanism-

Monday, March 26, PM

Chair: USUI, Satoshi (14:10~15:10)

\* 14:00-14:10: interval for laptop PC connection.(2M4-32, 2M4-33, 2M4-34, 2M4-36, 2M4-37)

**2M4-32\*** Kinetic Stabilization of Singlet 2,2-Dialkoxycyclopentane-1,3-diyls (Hiroshima Univ.) YE, Jianhua; NAKAGAKI, Tomoyuki; FUJIWARA, Yoshihisa; ABE, Manabu

**2M4-33** Nitrogen Atom Effect on the Reactivity of Localized Singlet Biradicals (Hiroshima Univ.) MISHIMA, Megumi; FUJIWARA, Yoshihisa; ABE, Manabu

**2M4-34\*** Ion-induced Reversible Electron Transfer of Tetrathiafulvalene Calix [4]pyrrole as an Electron Donor and Anion Guest (Osaka Univ.; ALCA, JST; Univ. Texas Austin) OHKUBO, Kei; KAWASHIMA, Yuki; LYNCH, Vincent M.; PARK, Jung Su; SESSLER, Jonathan L.; FUKUZUMI, Shunichi

**2M4-36** Driving Force Dependence of Rate Constants of Photoinduced Electron-Transfer Reduction of Li<sup>+</sup>@C<sub>60</sub> (Osaka Univ.; ALCA, JST) KAWASHIMA, Yuki; OHKUBO, Kei; FUKUZUMI, Shunichi

**2M4-37** Capturing and Quantification of the Short-lived Reactive Radicals in the Gas-phase by Using Stable Radical Scavengers. (Faculty of Engineering, Yokohama National Univ.) SETO, Akira; HATAZAWA, Shota; KOMIYA, Shintaro; SAKAKIBARA, Kazuhisa; SEKI, Kanekazu; TOBA, Ryuta

Chair: OHKUBO, Kei (15:20~16:20)

\* 15:10-15:20: interval for laptop PC connection.(2M4-39, 2M4-40, 2M4-41, 2M4-42, 2M4-43, 2M4-44)

**2M4-39** Stretch Effect on the Lifetime of Localized Multi-radicals (Hiroshima Univ.) FURUNAGA, Haruka; ABE, Manabu

**2M4-40** Spin-alignment of Tetradicals based on the spin-control of cyclopentane-1,3-diyls (Hiroshima Univ.) OKAMOTO, Kazushige; NAKAMURA, Takeshi; ABE, Manabu

**2M4-41** Organic Radical Cations Possessing One-electron  $\sigma$ -Bond (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.; Grad. Sch. of Sci., Tohoku Univ.) ASADA, Naoya; OSHIMA, Mitsuhiro; MIZUNO, Kazuhiko; IKEDA, Hiroshi

**2M4-42** Mechanistic Insights into Oxygen-Acceleration by Zinc Carbenoid Mediated Cyclopropanation Reaction (Graduate School of Science, Osaka Prefecture Univ.) OKADA, Megumi; KOBAYASHI, Shoji; RYU, Ilhyong

**2M4-43** Paterno-Buechi reaction of Furfuryl alcohol derivatives (Department of Chemistry, Graduate School of Science, Hiroshima Univ.) FUJII, Yoshimi; ABE, Manabu

**2M4-44** Substituent Effect on the Reactivity of Triplet Excited State of Cyclic Azoalkanes. (Hiroshima uni.) WATANABE, Shinji; ABE, Manabu

Chair: HIRAGA, Yoshikazu (16:30~17:30)

\* 16:20-16:30: interval for laptop PC connection.(2M4-46, 2M4-48, 2M4-49, 2M4-50)

**2M4-46\*** Singlet Oxygen Generation Sensitized by Iridium Complexes: Study on Photooxygenation Reaction and Singlet Oxygen Quantum Yield (The Univ. of Tokyo; Aarhus Univ.) TAKIZAWA, Shin-ya; HOLMEGAARD, Lotte; OGILBY, Peter R.; MURATA, Shigeru

**2M4-48** Photoreaction of 4-Naphthylbutenes with Intramolecular Charge-Transfer Interaction (Graduate School of Engineering, Osaka Univ.) AOKI, Yoshiaki; ITO, Tadashi; NISHIUCHI, Emi; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; INOUE, Yoshihisa

**2M4-49** Mathematical Treatment of Catalysis Characterized by Slow Generation of Active Species (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) NAKATSUKA, Hiroshi; YAMAMURA, Tomoya; YOSHIMURA, Masahiro; KITAMURA, Masato

**2M4-50\*** Ring-cleavage reaction of 5-oxaporphyrin by various nucleophiles (Doshisha Univ.) KAKEYA, Kazuhisa; AOZASA, Masakatsu; MIZUTANI, Tadashi

## Tuesday, March 27, PM

Chair: NAKATA, Kazuhide (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3M4-28, 3M4-30, 3M4-31, 3M4-32, 3M4-33)
- 3M4-28\*** Electrophilicities of Bissulfonyl Ethylenes (Univ. of Munich) ASAHARA, Haruyasu; MAYR, Herbert
- 3M4-30** Kinetics Study on Methylation Mechanism of NitronateAmbident Anions (Rikkyo Univ.) SAKATA, Tomomi; YAMATAKA, Hiroshi
- 3M4-31** Synthesis of Hexa-Substituted Benzene Derivatives by an Aldol Cyclotrimerization in Ionic Liquid Based on Imidazolium Ion (Mie Univ.) NAKANISHI, Ryota; OKAZAKI, Takao; KITAGAWA, Toshikazu
- 3M4-32** NMR and DFT Studies on Carbocations Generated from Benzonaphthopyran, Dibenzobenzodifuran, and Their Isomers in Superacid (Mie Univ.) FUTEMMA, Takeshi; NAKAGAWA, Madoka; OKAZAKI, Takao; KITAGAWA, Toshikazu
- 3M4-33** Origins of the  $\pi$ -facial selectivity in Hydride reduction of  $\alpha$ -methoxy ketones (Kochi Univ.) Tabei, Masaru; KANENO, Daisuke
- Chair: KANENO, Daisuke (14 : 40~15 : 30)
- \* 14:30-14:40: interval for laptop PC connection.(3M4-35, 3M4-37, 3M4-38, 3M4-39)
- 3M4-35\*** Automated Exploration of Stereo-Chemical Reaction Processes by GRRM-GDSP Method (Toyota Phys. & Chem. Res. Institute; National Institute of Informatics: Graduate School of Science, Tohoku Univ.) OHNO, Koichi; SATOH, Hiroko; IWAMOTO, Takeaki
- 3M4-37** A study on hydrolysis of ethyl benzoate using QM/MC/FEP method and kinetic measurements (Yamaguchi Univ. Graduate School of Science and Engineering) KOKITA, Yohei; KAWETIRAWATT, Thanayuth; SUMIMOTO, Michinori; HORI, Kenji
- 3M4-38** Theoretical study of vinyl cation formation reaction (Rikkyo Univ.) JINGUJI, Masaru; YAMATAKA, Hiroshi
- 3M4-39** Substituent effects on the gas-phase acidities of benzoic acids (Hosei Univ.; Kyushu Univ.; Osaka City Univ.) NAKATA, Kazuhide; FUJIO, Mizue; NISHIMOTO, Kichisuke; TSUNO, Yuhō

Chair: OKAZAKI, Takao (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(3M4-41, 3M4-42, 3M4-43, 3M4-44, 3M4-45)
- 3M4-41** Mechanism Elucidation of Stereoselective Reaction by Hypervalent Iodine Reagent (Kochi Univ.) NAGANO, Tatsuya; KANENO, Daisuke
- 3M4-42** Reactivity and Selectivity of the electrophilic addition reaction of chalcogen-containing ester enolate (Kochi Univ.) SASAKI, Katsuyuki; KANENO, Daisuke
- 3M4-43** Theoretical Studies on the Pd-Catalyzed Cyanoesterification of Methyl Cyanoformate across Norbornadiene (Graduate School of Natural Science and Technology, Okayama Univ.; Faculty of Science, Ibaraki Univ.) OKUDA, Yasuhiro; MORI, Seiji; ISHIGURO, Yuya; NISHIHARA, Yasushi
- 3M4-44** Computational study of autooxidation of ethers (Osaka Pref. Univ.) MATSUBARA, Hiroshi; SUZUKI, Syouhei
- 3M4-45** Structure-mutagenicity relationship of nitrated pyrenes: ab initio calculations of DNA adducts with ultimate mutagens (Toho-Univ.) YAMAGAMI, Saburo; OHSHIMA, Shigeru

## Physical Organic Chemistry -Structures and Properties-

## Wednesday, March 28, AM

Chair: NISHINAGA, Tohru (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(4M4-01, 4M4-02, 4M4-03, 4M4-04, 4M4-05)
- 4M4-01** Synthesis and Solid-state Photophysical Properties of Unsymmetrical Bi(thienothiophene) Derivatives (Graduate School of Science, Nagoya Univ.) KISHI, Daisuke; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro
- 4M4-02** Synthesis and Solid-State Properties of Oligothiophene Cyclic Dimers with Two Flexible Linkers (Department of Chemistry, Graduate School of Science, Nagoya Univ. and CREST, JST) NAKAKURA, Ken; SAITO, Shohei; YAMAGUCHI, Shigehiro
- 4M4-03** Synthesis, Structure and Reactivity of Di(2-thienyl)acetylene Cyclic Dimer (Graduate School of Science, Nagoya Univ.; CREST, Japan Science and Technology Agency) OSHIMA, Hiroya; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro
- 4M4-04** Synthesis and Properties of Carbazole-Thiophene Oligomers (Gunma Univ.) SHIMIZU, Satoru; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 4M4-05** Construction of Hydrindacene-Macrocycles with Vertically Appended Thienyl Rings and Their Properties (Department of Chemistry, Faculty of Science, Tokyo Univ. of Science; Department of Chemistry, Faculty of Science, Hokkaido Univ.) KAWAI, Hidetoshi; UTAMURA, Tatsuya; MOTOI, Erina; FUJIWARA, Kenshu; SUZUKI, Takanori

Chair: YAMAGUCHI, Shigehiro (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(4M4-07, 4M4-09, 4M4-11)

- 4M4-07\*** Preparation and Properties of Newly Designed Thiophene-fused Azaacene Derivatives (Department of Chemistry, Faculty of Science, Hokkaido Univ.) MIURA, Youhei; KATOONO, Ryou; FUJIWARA, Kenshu; SUZUKI, Takanori
- 4M4-09\*** Steric Control in  $\pi$ -Dimerization of Oligothiophene Radical Cations and Its Applications (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) TATENO, Masaki; TAKASE, Masayoshi; KOMATSU, Koichi; IYODA, Masahiko; NISHINAGA, Tohru
- 4M4-11\*** Extra-large Fused Oligothiophenes Capable of Self-Assembling into Semiconducting Discotic Columnar Liquid Crystals (School of Engineering, The Univ. of Tokyo) XIAO, Qi; SAKURAI, Tsuneaki; SAEKI, Akinori; SEKI, Shu; AIDA, Takuzo

Chair: KATOONO, Ryo (11 : 10~12 : 00)

- \* 11:00-11:10: interval for laptop PC connection.(4M4-14, 4M4-16, 4M4-17, 4M4-18)
- 4M4-14\*** Synthesis and Properties of EDOT-containing Polythiophene (Hiroshima Univ.) IMAE, Ichiro; MASHIMA, Takahiro; KOMAGUCHI, Kenji; OYAMA, Yosuke; HARIMA, Yutaka
- 4M4-16** Synthesis of 3-dimensional curved oligothiophenes by olefin metathesis as a key step (Graduate School of Science, Osaka Univ.) ADACHI, Kazuhiko; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi
- 4M4-17** Synthesis of novel BODIPY Dyes with Diphenylamino Group and Their Application to Dye-Sensitized Solar Cells (Hiroshima Univ.; Graduate School of Engineering) HAGIWARA, Yuta; OYAMA, Yosuke; MIZUMO, Tomonobu; OHSHITA, Joji
- 4M4-18** Development of Azulene Derivatives Exhibiting Thermal, Optical and Electronic Functions (Hiroaki Univ.) KOBASHI, Rikiya; UEDA, Mao; ITO, Shunji; KAWAKAMI, Jun

## Wednesday, March 28, PM

Chair: OYAMA, Yosuke (13 : 10~14 : 00)

- \* 13:00-13:10: interval for laptop PC connection.(4M4-26, 4M4-28, 4M4-30)
- 4M4-26\*** Clarification of Characteristic Electronic Structures of Indenofluorene Derivatives (Graduate School of Engineering Science, Osaka Univ.; Graduate School of Science, Osaka City University) SHIMIZU, Akihiro; KISHI, Yohei; NAKANO, Masayoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; TOBE, Yoshito
- 4M4-28\*** Design, syntheses and photochemical properties of Aminobenzopyr-oxanthene (ABPX) fluorescent dyes with extended  $\pi$ -conjugated system (RIKEN CMIS) KAMINO, Shinichiro; MURANAKA, Atsuya; KOMEDA, Seiji; Horigome, Jun; HIROMURA, Makoto; UCHIYAMA, Masanobu; ENOMOTO, Shunichi
- 4M4-30** Synthesis, Structure, and Chiroptical Properties of Chiral Tetraarylmethane Derivative with High Inclination for Crystallization (Graduate School of Science, Osaka Univ.) TANAKA, Rina; MATSUMOTO, Kouzou; NEHIRA, Tatsuo; PESCITELLI, Gennaro; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

Chair: MATSUMOTO, Kouzou (14 : 10~15 : 00)

- \* 14:00-14:10: interval for laptop PC connection.(4M4-32, 4M4-33, 4M4-34, 4M4-35, 4M4-36)
- 4M4-32** Synthesis and Properties of  $\pi$ -Extended Thiadiazoles Fused with Indole Moieties (Gunma Univ.) FURUYA, Takayuki; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 4M4-33** Synthesis and Properties of Carbazole Dimers Linked by Various Spacers (Graduate School of Engineering, Gunma Univ.) NOGUCHI, Hiroto; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 4M4-34** Synthesis and Properties of Benzo-fused Borondipyrromethene Derivatives (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO) MORI, Haruki; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 4M4-35** Synthesis and Properties of Thieno-fused Dipyrromethene Derivatives (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO) SHIMOGAWA, Hiroyuki; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 4M4-36** Synthesis and Properties of  $\pi$ -Conjugated Molecules with Spirofluorene Moieties for White-Light-Emitting (Graduate School of Engineering, Kyoto Univ.; Institute for Chemical Research, Kyoto Univ.) FUJINAGA, Hiroki; WAKAMIYA, Atsushi; OHE, Kouichi

Chair: KATO, Shin-ichiro (15 : 10~16 : 00)

- \* 15:00-15:10: interval for laptop PC connection.(4M4-38, 4M4-39, 4M4-40, 4M4-41, 4M4-42)
- 4M4-38** Synthesis and Spectroscopic Properties of Anthracenebisimide Derivatives Incorporating Various Ethynyl Groups. (Okayama Univ. of Sci.) IWANAGA, Tetsuo; TANAKA, Ryo; YAMASHITA, Natsuki; TOYOTA, Shinji
- 4M4-39** Synthesis and Fluorescent Properties of Phenanthrylfuran derivatives (Grad. School of Eng., Univ. of Hyogo) KOJIMA, Taketo; KITAMURA, Chitoshi; KAWASE, Takeshi
- 4M4-40** Fluorescent Properties of Tetrabenzofluorene Derivatives Bearing 4-Pyridyl Groups (Grad. School of Eng., Univ. of Hyogo) UEDA, Yoshiaki; KITAMURA, Chitoshi; KAWASE, Takeshi; KONDO, Mizuho; MIKI, Naoko; KAWATSUKI, Yoshihiro

- 4M4-41** Synthesis of Fulvene and Fulvalene Derivatives Bearing Tetrabenzo-fluorene Unit(s) (Grad. School of Eng., Univ. of Hyogo) SHIBAMOTO, Hiroshi; KITAMURA, Chitoshi; KAWASE, Takeshi
- 4M4-42\*** Structures and Properties of Naphthaleneimide Dimers Fused with a Cyclooctatetraene Skeleton (Department of Chemistry, Graduate School of Science, Nagoya Univ.; CREST, Japan Science and Technology Agency) YUAN, Chunxue; SAITO, Shohei; YAMAGUCHI, Shigehiro

Chair: KAWAI, Hidetoshi (16 : 10~16 : 50)

\* 16:00-16:10: interval for laptop PC connection.(4M4-44, 4M4-45, 4M4-46, 4M4-47)

- 4M4-44** Photophysical Properties of Planarized Triphenylboranes (Department of Chemistry, Graduate School of Science, Nagoya Univ.; Department of Chemistry, Graduate School of Engineering Science, Osaka Univ.; Center for Quantum Material Science under Extreme Conditions, Osaka Univ.; Department of Chemistry, Graduate School of Science, Hokkaido Univ.; Institute for Chemical Research, Kyoto Univ.; JST-PRESTO;CREST, Japan Science and Technology Agency) KUSHIDA, Tomokatsu; ZHOU, Zhiguo; KATAYAMA, Tetsuro; ITO, Syoji; MIYASAKA, Hiroshi; SAKUDA, Eri; KITAMURA, Noboru; IRLE, Stephan; WAKAMIYA, Atsushi; YAMAGUCHI, Shigehiro
- 4M4-45** Synthesis and Properties of Planarized Triphenylborane-Bearing Thiophene  $\pi$ -Electron Systems (Department of Chemistry, Graduate School of Science, Nagoya Univ.; Institute for Chemical Research, Kyoto Univ.; CREST, Japan Science and Technology Agency) SHUTO, Ayumi; KUSHIDA, Tomokatsu; FUKUSHIMA, Tatsuya; KAJI, Hironori; YAMAGUCHI, Shigehiro
- 4M4-46** Substituent Effect on Optical Properties and Photostability of Steric-Protected Diphenylanthracene Derivatives (Shizuoka Univ.; Hamamatsu Photonics) FUJIWARA, Yutaka; OZAWA, Ryota; SUZUKI, Kengo; KOBAYASHI, Kenji
- 4M4-47** Synthesis and Properties of Steric-Protected Diphenylpentacene Derivatives (Shizuoka Univ.; Bruker ax; Hamamatsu Photonics) SERIZAWA, Koretaka; YOZA, Kenji; SUZUKI, Kengo; KOBAYASHI, Kenji

## Room P

Hiyoshi Commemorative Hall

Sunday, March 25, AM

(10 : 00~11 : 30)

### Organic Chemistry -Reaction and Synthesis- Aromatic Compounds

- 1PA-001** The salt effect on the formation of HMF from fructose using microwave irradiation. (Wakayama National College of Technology) IWAKI, Azusa; TAKAGI, Koichi; NOMURA, Eisaku
- 1PA-002** Synthesis of vanillin and related derivative from ferulic acid by ozone oxidation (Wakayama National College of Technology) TSUTITANI, Akane; HIROSHIMA, Minoru; NOMURA, Eisaku
- 1PA-003** Synthesis and properties of phthalocyanine precursor (Ehime Univ.) FURUTA, Tomoya; HASHIMOTO, Yusuke; MORI, Shigeki; NAKAE, Takahiro; YAMADA, Hiroko; UNO, Hidemitsu; ONO, Noboru; OKUJIMA, Tetsuo
- 1PA-004** Synthesis and properties of naphthalene-fused cyclo[8]pyrrole (Ehime Univ.) ANDO, Chie; MATSUMOTO, Naoki; OHARA, Keishi; MORI, Shigeki; NAKAE, Takahiro; YAMADA, Hiroko; UNO, Hidemitsu; OKUJIMA, Tetsuo
- 1PA-005** Synthesis of substituted oxa[9]helicenes by the reaction of helical quinones with several nucleophiles (Graduate School of Engineering, Utsunomiya Univ.) SALIM, Mohammad; TSURUMI, Takuya; KURIHARA, Takashi; KIMURA, Takao; KARIKOMI, Michinori
- 1PA-006** Alkoxyacylation reaction of aryl halides catalyzed by the nickel supported gold nanoparticles as an alternative catalyst of nickel carbonyl (Kyushu Univ.) FUJIMARU, Yuka; HAMASAKI, Akiyuki; NISHIKAWA, Hiroaki; ISHIDA, Tamao; AKITA, Tomoki; TOKUNAGA, Makoto
- 1PA-007** S-Arylation of sulfides using asymmetrical diaryliodonium salts (Osaka Institute of Technology) SHIMOMURA, Osamu; SEKIYA, Kenta; OHTAKA, Atsushi; NOMURA, Ryoki
- 1PA-008** Selective oxidation to benzaldehydes from toluenes with hydrogen peroxide (Osaka Municipal Technical Research Ins.) NAKAI, Takeo; IWAI, Toshiyuki; MIHARA, Masatoshi; ITO, Takatoshi; MIZUNO, Takumi
- 1PA-009** Synthesis and properties of clipped molecules bridged by naphthobipyrrole (Tokyo Metropolitan Univ.) SUGAWARA, Yuki; INABE, Ayumi; TAKASE, Masayoshi; NISHINAGA, Tohru; NOMURA, Kotohiro
- 1PA-010** Synthesis and properties of azulenylyltracyanobutadiene connected with  $\pi$ -electron cores (Shimshu Univ.) SHOJI, Taku; MARUYAMA, Mitsuhsa; ITO, Shunji; MORITA, Noboru

- 1PA-011** Silylation of  $C_{60}$  with Transition Metal Complex (Dept. of Engineering Science, Univ. of Electro-Commun.) IIDA, Ryosuke; INABA, Daiki; KAKO, Masahiro
- 1PA-012** Dimerization of 2-(p-substituted styryl)-1,4-naphthoquinones by thermal and photochemical reaction -Substituent effects on the formation of heptacyclic compound- (Shimane Univ.) NISHIMURA, Kohei; IWAMOTO, Hidetoshi; NISHIGAICHI, Yutaka
- 1PA-013** Structure-activity relationship study of small molecular CXCR4 antagonists bearing the dipicolylamine/azamacrocyclic-metal complex structures (Tokyo Medical and Dental Univ.;IBB) KONNO, Makoto; NOMURA, Wataru; NARUMI, Tetsuo; AIKAWA, Haruo; TAMAMURA, Hirokazu; TANAKA, Tomohiro; HASHIMOTO, Chie; OHASI, Nami; OZAKI, Taro; SOUMA, Akira; ITOTANI, Kyoko; MURAKAMI, Tsutomu; YAMAMOTO, Naoki
- 1PA-014** Formation reaction and crystal structural features of non-coplanar arranged naphthalene-rings-accumulated molecules (Tokyo Univ. of Agriculture and Technology) TSUMUKI, Takehiro; ISOGAI, Atsumi; OKAMOTO, Akiko; OIKE, Hideaki; YONEZAWA, Noriyuki
- 1PA-016** Synthesis and reactions of Ethyl 2-amino-3-iodoazulene-1-carboxylate (Tokyo Univ. of Science, Faculty of Science and Technology) NAKAGAWA, Hajime; HYODOU, Marie; ITOU, Yoshino; IKEDA, Reiko; KONAKAHARA, Takeo; GUNJI, Takahiro; ABE, Noritaka
- 1PA-017** Synthesis and photo-reaction of diketo precursors of anthradithiophenes (Graduate School of Materials Science, Nara Institute of Science and Technology, CREST) KANESHIGE, Yoshitaka; AOTAKE, Tatuya; KATOU, Ryuta; KUZUHARA, Daiki; YAMADA, Hiroko
- 1PA-018** Synthesis of novel acene analogs containing nitrogen atom (Nara Institute of Science and Technology) IKEDA, Shinya; YAMADA, Hiroko
- 1PA-019** Synthesis of boron [14]triphyrin(2.1.1) (Graduate School of Materials Science, Nara Institute of Science and Technology, CREST) KUZUHARA, Daiki; YAMADA, Hiroko
- 1PA-020** The Vilsmeier reaction of N,N-dimethylanilines under microwave irradiation (The Nippon Dental Univ.) SUZUKI, Tsuneo; TANEMURA, Kiyoshi; NISHIDA, Yoko
- 1PA-021** Alkylation of aromatics using alcohols in the presence of silica gel supported sodium hydrogen sulfate (College of Science and Technology, NIHON Univ.; Shibaura Institute of Technology) SATO, Yuta; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 1PA-022** Vinylation of aromatics by  $\alpha$ -chlorostyrene in the presence of Lewis acid (College of Science and Technology, NIHON Univ.; Shibaura Institute of Technology) YAMAGUCHI, Natsuko; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 1PA-023** Aerobic oxidation of alcohols using [4-hydroxy TEMPO + NaCl]/SiO<sub>2</sub> and iron(III) nitrate (College of Science and Technology, NIHON Univ.; Dep. of Bioscience and Engineering, Shibaura Inst. of Tech.) TAMURA, Naoya; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 1PA-024** The new synthetic method for 3,4-positions substituted and 5-membered ring fused 1,6-methano[10]annulenes (Univ. of Toyama) SUGIURA, Yuji; OKABE, Yuka; MURATA, Yasuno; HORINO, Yoshikazu; MIYATAKE, Ryuta; ODA, Mitsunori; KURODA, Shigeyasu
- 1PA-025** Coupling Reaction of Aldehydes with Indole in Subcritical Water (Graduate School of Engineering, Nagoya Institute of Technology) OGAWA, Masaki; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 1PA-026** Suzuki-Miyaura Cross-Coupling reaction in Solkane (Department of Frontier Materials, Graduate School of Engineering, Nagoya Institute of Technology) AZUMA, Ayaka; XU, Xui-hua; TOKUNAGA, Etsuko; SHIBATA, Norio
- 1PA-027** A improved synthesis of 6,6'-dibromoindigo (2) (Faculty of Science and Engineering, Meisei Univ. ; Chemical Research Club, Meisei Univ.) SAOTOME, Mika; SENOU, Haruo; ENOKIDA, Shou; HACHIGASAKI, Hidemine; SAWADA, Tadanobu
- 1PA-028** Synthesis of unsymmetrically substituted pyrene derivatives through (6-bromo-3,8-dibutylpyren-1-yl)trimethylsilane (Ryukoku Univ.) SATO, H. Akihiro; MIHARA, Shigenori; IWASAWA, Tetsuo

### Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds

- 1PA-031** Synthesis and Chemical Properties of 6-[(Ethoxycarbonyl)methyl]-9-methyl-6H-cyclohepta[b]pyrimido[5,4-d]pyrrol-8(6H),10(9H)-dione derivatives (Fukushima Univ., Graduate School of Symbiotic Systems Science and Technology) SUZUKI, Yuichiro; KOMATSU, Masato; TAKAYASU, Tohru
- 1PA-032** Synthesis and Bioactivity of Tetrazole Analogs (Nagoya Institute of Technology, Graduate School of Engineering) MORI, Satoru; TOKUNAGA, Etsuko; SHIBATA, Norio
- 1PA-033** Selective Synthesis of Tetrazolium-5-thiolates by Alkylation with Alcohols (Graduate School of Engineering, Nagoya Institute of Technology) MURAKAMI, Suguru; SYOJI, Takuo; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 1PA-034** Synthetic study of Flumequine and Nebivolol (College of Engineering, Nihon Univ.) NODA, Yoshihiro; SAITOU, Toshiyuki; ISHII, Yuuya
- 1PA-035** Synthesis of 1H-pyrrol-2(3H)-one derivatives using enamines. (Tokyo Univ. of Science) KONAKAHARA, Takeo; KANAMORI,

- Taisuke; KATO, Takubo; IKEDA, Reiko; SAKAI, Norio
- 1PA-036** Synthesis of 4-azaindoles by a multi-component coupling reaction via *N*-vinylaminonitriles. (Tokyo Univ. of Science) KONAKAHARA, Takeo; SHIMIZU, Yuta; YANAGIBASHI, Kenji; SASADA, Toshiaki; IKEDA, Reiko; SAKAI, Norio
- 1PA-037** Intramolecular Diels-Alder Reaction of Furans (Tokyo Denki Univ; School of Engineering) SHINOZAKI, Hiraku; NOGUUCHI, Kei; SATOH, Hironori; MIYAZAKI, Kouji
- 1PA-040** Short-Step Construction of Fused Pyridine Alkaloid Skeletons through a Hetero Diels-Alder Reaction of Isotellurazoles and Substituted Benzoylacetylenes. (Faculty of Engineering, Iwate Univ.) SHIMADA, Kazuaki; ITO, Takumi; OGAWA, Satoshi
- 1PA-041** Beckmann rearrangement of cyclohexanone oxime catalyzed by Lewis acid / cobalt salt (Yamaguchi Univ.; Ube Industries, Ltd) YAMAMOTO, Hidetoshi; KOMEDA, Masahiro; OZAKI, Ayana; SUMIMOTO, Michinori; HORI, Kenji; SUGIMOTO, Tsunemi
- 1PA-042** Beckmann rearrangement of cyclohexanone oxime catalyzed by Bronsted acid / cobalt salt (Yamaguchi Univ.; Ube Industries, Ltd) YAMAMOTO, Hidetoshi; KOMEDA, Masahiro; OZAKI, Ayana; SUMIMOTO, Michinori; HORI, Kenji; SUGIMOTO, Tsunemi
- 1PA-043** Synthesis of Bisindoles via Electrophilic Addition of Indoles (Okayama Univ.) KIDA, Tatsuya; KAWASW, Tomoka; MORIMOTO, Naoki; NISHINA, Yuta
- 1PA-044** Hetero-Diels-Alder Reaction using an Aluminium Complex with an [OSSO]-type Bis(phenolato) Ligand Bearing a *trans*-Cyclooctane Ring as a Lewis-acid Catalyst (Saitama Univ.) SAITO, Yusuke; NAKATA, Norio; ISHII, Akihiko
- 1PA-045** Catalytic effects of Lewis acids in O-H insertion reactions of metal carbenoids generated from *N*-( $\alpha$ -diazoacyl)oxazolidinone derivatives (Shinshu Univ.) ARISUE, Kaoru; ITOH, Kennosuke; SUGA, Hiroyuki
- 1PA-046** Asymmetric 1,3-dipolar cycloaddition reactions of nitrones with electron-deficient olefins catalyzed by chiral binaphthylamine-metal complexes (Shinshu Univ.) SHIRAI, Takumi; ITOH, Kennosuke; SUGA, Hiroyuki
- 1PA-047** Reaction of 6,6'-(Phenylene)bis(4-methoxy-2-(trifluoromethyl)-5,6-dihydro-2*H*-pyran-2-ols) with Amines - Synthesis of Bis( $\delta$ -trifluoroacetylbutadienyl)benzenes (Kobe Univ.) TANAKA, Kazumi; KAMIYA, Naoki; YOSHIOKA, Kotaro; OKADA, Etsuji
- 1PA-048** Synthetic Study of 6,5-fused bicyclic diamine derivatives (Kanagawa Inst. of Tech.; Dep. Applied Bioscience) SHIMOGAKI, Takuya; NODA, Takeshi
- 1PA-049** Intramolecular Oxidative Coupling of Reticuline Derivatives with Hypervalent Iodine Compound (Kanagawa Univ. Dept. of Chemistry) WATANABE, Nobuko; SUGIYAMA, Kayo; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 1PA-050** Palladium-Catalyzed Reaction of Indoles with 1,4-Naphthoquinones (National Fisheries Univ.) TANOUE, Yasuhiro; KAI, Norihisa
- 1PA-051** Facile and Convenient Synthesis of Novel Fluorine-containing Benzonaphthridines by Cyclocondensation Reaction of 4-Amino-2-methoxy-3-trifluoroacetylquinoline with Ketones (Kobe Univ.) HATAKENAKA, Mizuki; MEDEBIELLE, Maurice; OKADA, Etsuji
- 1PA-052** Trifluoroacetylation Reaction of 4-Trifluoromethyl-7-dimethylaminobenzo[*h*]quinoline -Synthesis of Novel Building Blocks for the Construction of Fluorine-Containing Heterocycles (Kobe Univ.) TAMAI, Yusuke; KITADE, Masanori; KOMORI, Takatsugu; HATAKENAKA, Mizuki; OKADA, Etsuji
- 1PA-053** Convenient Synthetic Method for Novel Fluorine-Containing Quinazolinocridines (Kobe Univ.) TONAI, Masahiro; NAKANO, Shiro; YOSHIOKA, Kotaro; HATAKENAKA, Mizuki; KOMORI, Takatsugu; OKADA, Etsuji
- 1PA-054** Synthesis of Novel 7,9-Bis(trifluoroacetyl)benzo[*g*]indazole-6-amines by Aromatic Nucleophilic N-N Exchange Reaction (Kobe Univ.) ITOI, Yuichi; HATAKENAKA, Mizuki; OKADA, Etsuji
- 1PA-055** Synthesis of Selenium Compounds bearing 2-Azaindoline Skeleton and Evaluation of Their Biological Activity (Chubu Univ.) NIYOMURA, Osamu; NIWA, Rikiya; OHNISHI, Motoko; AOYAMA, Yuka; ANDO, Fumio; KOKETSU, Jugo
- 1PA-056** Synthesis of 3,3-disubstituted 3,4-dihydroisoquinolines (Graduate School of Engineering, Tottori Univ.) MATSUMOTO, Naoki; MATSUMOTO, Kouta; KOBAYASHI, Kazuhiro
- 1PA-057** Synthesis of thioxanthen-9-ones and their aza-analogues (Graduate School of Engineering, Tottori Univ.) NAKAGAWA, Kazuhiro; HARA, Erika; KOMATU, Toshihide; KOBAYASHI, Kazuhiro
- 1PA-058** Synthesis of (*Z*)-4-arylmethylene-5-ethoxyoxazolidine-2-thione derivatives (Engineering, Tottori Univ.) EZAKI, Kosuke; HASHIMOTO, Hiroo; KOBAYASHI, Kazuhiro
- 1PA-059** Synthesis of 2,3-dihydrothiopyranopyridin-4-one derivatives (Engineering, Tottori Univ.) IMAOKA, Ayumi; KOBAYASHI, Kazuhiro
- 1PA-060** Synthesis and properties of porphyrin derivatives containing acceptor linked N,N'-bridge substituents (Osaka Municipal Tech. Res. Inst.; Kobe Univ.) TAKAO, Yuka; OHNO, Toshinobu; MORIWAKI, Kazuyuki; MATSUMOTO, Fukashi; SETSUNE, Jun-ichiro
- 1PA-061** DNA - Water-Insoluble Porphyrins Complexes in Ionic Liquids (Oita Univ.) NAKAMURA, Ayumi; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuich
- 1PA-062** Effect of Charge Delocalized Anion on Solvation Behaviour in Ionic Liquids (Oita Univ.) TOKUMARU, Masaki; NOBUOKA, Kaoru; KITAOKA, Satoshi; OHGA, Yasushi; ISHIKAWA, Yuichi
- 1PA-063<sup>#</sup>** Studies on the synthesis of thianthrene derivatives linked with polyethylene glycol (Graduate School of Science and Engineering) SHEIKH, Md. C.; NAKAJIMA, Akitaka; IWASAWA, Takashi; KITAO, Atsuta; YOSHIMURA, Toshiaki; MORITA, Hiroyuki
- 1PA-064** Synthesis of asymmetrical phthalocyanine for DSSC (Shibaura Institute of Technology, Engineering department, Applied chemistry department) FUKAI, Hidetaka; KIDOWAKI, Masatoshi
- 1PA-065** Synthesis of a Hydrogenated-Porphycene (Kyushu Univ.) HASHIMOTO, Koichi; OKAWARA, Toru; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio
- 1PA-066** Design and Synthesis of Flavin-Containing Molecules for Light-Induced Charge-Separation (Frontier Research Core for Life Sciences, Univ. of Toyama) SEKI, Takayuki; OKA, Yoshimi
- 1PA-067** Synthesis and Spectroscopic investigation of phthalocyanine derivatives having pentafluorosulfanyl group (Graduate School of Engineering, Nagoya Institute of Technology) IIDA, Norihito; TOKUNAGA, Etsuko; SHIBATA, Noria
- 1PA-068** Development of a New Efficient Synthesis of (+)-Batzellaside B from L-Pyrogutamic Acid (Faculty of Engineering, Shizuoka Univ.) TAKAHASHI, Masaki; MAKINO, Yuto; WIERZEJSKA, Jolanta; MOTOGOE, Shin-ichi; SENGOKU, Tetsuya; YODA, Hidemi
- 1PA-069** New Bicyclic NHC-Catalyzed Asymmetric Benzoin Condensation and Asymmetric Stetter Reaction (Graduate School of Science, Chiba Univ.) HASEGAWA, Momo; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 1PA-070** Synthesis and antitumor activity of 1-substituted  $\beta$ -carboline derivatives (Tokyo Univ. of Science) KONAKAHARA, Takeo; HIDAKA, Mai; OGIWARA, Takafumi; TAKEE, Ayako; IKEDA, Reiko; SAKAI, Norio
- 1PA-071** Determination of the Absolute Configuration of Optically Active 16-Methylamellarin Ns and Evaluation of Their Protein Kinase Inhibitory Activities (Graduate School of Engineering, Nagasaki Univ.; Graduate School of Science and Technology, Nagasaki Univ.; Graduate School of Fisheries Science and Environmental Studies, Nagasaki Univ.; C.N.R.S.) YOSHIDA, Kenyu; ITOYAMA, Ryosuke; FUKUDA, Tsutomu; ISHIBASHI, Fumito; IWAO, Masatomio; MEIJER, Laurent
- 1PA-072** Conversion of Cellulose into Biofuel Utilizing Ionic Liquids (Oita Univ.) NAKANO, Takashi; KITAOKA, Satoshi; NOBUOKA, Kaoru; ISHIKAWA, Yuichi
- 1PA-073** Synthesis and Photochemical Reactions of 1-Alkyl-4-chloro-7-azaisatins (AIT) BANNO, Yuichi; TATSUGI, Jiro
- 1PA-074** Synthesis and Photochemical Reactions of 1-Alkyl-5-azaisatins (AIT) SUGIYAMA, Kazuki; TATSUGI, Jiro
- 1PA-075** Synthesis and Photochemical Reactions of 1-Alkyl-5-(trifluoromethoxy)isatins (AIT) MISUYA, Mamoru; TATSUGI, Jiro
- 1PA-076** Haloimidazole Manipulation for Drug Discovery. (Takasaki Univ. of Health & Welfare) TORISAWA, Yasuhiro
- 1PA-077** Synthesis and properties of substituted imidazo[1,5-*a*]pyridine carbenes (Department of Chemistry, Faculty of Engineering, Gifu Univ.) KOUTO, Yuma; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 1PA-078** Practical synthesis of highly durable fluorescent 4,6,7-triaryl-1,2,5-thiadiazolo[3,4-*c*]pyridine dye (1) Deoxygenation reaction of 3,4-diaroyl-1,2,5-oxadiazole-N-oxide derivative. (KSU.IST) ISOBE, Shin-ichiro; MATUOKA, Youhei; MATUOKA, Ryouta; KAWAHARADA, Tadashi; YAZUMI, Takashi; TASUGI, Mkako
- 1PA-079** 5-arylaminothiazoles : Synthesis with thioamido dianion and their properties. (Department of Chemistry, Faculty of Engineering, Gifu Univ.) YAMAGUCHI, Kirara; HORI, Fumihiko; MURAI, Toshiaki
- 1PA-080** Computational Study on the Acid Catalyzed Reactions of Fluorine-containing 2,4-Dialkoxy-3,4-dihydro-2*H*-pyrans with Aromatic Compounds (Kobe Univ.) KAMITORI, Yasuhiro; OTA, Norio; SHIRAI, Ryusuke; HATAKENAKA, Mizuki; OKADA, Etsuji
- 1PA-081** Computational Study on the Acid Catalyzed Ring-opening Reactions of Fluorine-containing 2,4-Dialkoxy-3,4-dihydro-2*H*-pyrans with Thiols (Kobe Univ.) KAMITORI, Yasuhiro; GO, Keiki; OTA, Norio; OKADA, Etsuji
- 1PA-082** Quantum yields of new fluorescent aza-quinquephenyls (Interdisciplinary Faculty of Science and Engineering, Shimane Univ.) KAWAMI, Akina; TAKAHASHI, Kazufumi

## Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

- 1PA-085** Substituent Effect on the Luminescent Properties of Multicolor Fluorescent Dyes Based on Firefly Bioluminescence (Univ. of Electro Communications) YAMASHITA, Reiko; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 1PA-086** Modulation of imidazoprazinone chemiluminescence by systematic introduction of phenylethynyl groups (The Univ. of Electro-Communications) SASA, Makiko; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 1PA-087** Synthesis and photochemical properties of boron-containing polycyclic aromatic compounds. (Faculty of Science and Engineering, Shimane

- Univ.) NAKAHARA, Yuta; SHIRATORI, Hideo; KUBO, Yasuo
- 1PA-088** Synthesis and Properties of Porphyrin-Linked Dendritic Quinone Pools Containing Two Types of Quinones (Inst. for Molecular Science) KAWAO, Masahiro; NAGATA, Toshi
- 1PA-089** Photochromic Behavior of Bis(aryloxy)naphthacenequinones (Oita Univ.) UESHIMA, Tomomi; KAWANO, Naohiro; BABA, Hisanori; TANIGUCHI, Hirokazu; MORIYAMA, Masaya
- 1PA-090** Synthesis and Chemiluminescent Decomposition of Novel Oligoaryl-substituted Dioxetanes (Kanagawa Univ. Dept. of Chemistry) WATANABE, Nobuko; TAKATSUKA, Hikaru; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 1PA-091** Topochemiluminescence of Bicyclic Amino-substituted Dioxetanes Bearing a Hydroxyaryl Moiety (Kanagawa Univ. Dept. of Chemistry) MATSUMOTO, Masakatsu; TANAKA, Teruhiko; MATSUMOTO, Kairi; WATANABE, Nobuko; IJUIN, Hisako; NISIMOTO, Yuuko
- 1PA-092** Synthesis of macrocyclic compounds using photochemical cycloaddition reactions between di-2-pyrone s tethered by methylene chain and alpha, omega-diolefin (Kagoshima Univ. Graduate School of Science and Engineering) ZHANG, Huimin; TAKAHASHI, Katsuya; SHIMO, Tetsuro
- 1PA-093** Synthesis and Fluorescence Property of Di(thiene-2-yl) Ketone Derivatives (Sch. of Eng., Osaka Pref. Univ.; Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) TOMIYORI, Yuusuke; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 1PA-094** Wavelength Effect on Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylic Acid Mediated by  $\gamma$ -Cyclodextrin Derivatives (Graduate School of Engineering, Osaka Univ.) YANG, Cheng; INOUE, Yoshihisa
- 1PA-095** Synthesis of Novel Dioxetanes Bearing an  $\alpha$ -Hydroxymethyl- $\beta$ -Hydroxy Naphthalen-5-yl Moiety and Their Color-changing Chemiluminescence (Kanagawa Univ. Dept. of Chemistry) WATANABE, Nobuko; MIZUTANI, Tomohiro; TANAKA, Teruhiko; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 1PA-096** Synthesis and Photochemical Reactions of Fluorinated Substituted 1-Alkylisatins (AIT) MIZUNO, Keiichi; HAYASHI, Mayumi; TATSUGI, Jiro
- 1PA-097** Tandem Asymmetric Reaction Using Chiral Memory Effect (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; YAGISHITA, Fumitoshi; MINO, Takashi; FUJITA, Tsutomu
- 1PA-098** Photocycloaddition Reactions of 4-Alkoxy-2-pyrone s with Maleimides in the Solid-state (Kagoshima Univ. Graduate School of Science and Engineering) ISHIDA, Yoshiki; SHIMO, Tetsuro
- 1PA-099** Supramolecular Complexation and Photocyclodimerization of Cinnamic Acid Mediated by (S)-Prolinol in Solution (Grad. School of Eng. and UIC, Osaka Univ.) AZUMAI, Hiroki; NISHIJIMA, Masaki; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; INOUE, Yoshihisa
- 1PA-100** Synthesis of photolabile protecting groups with a high performance of the two-photon absorption ability (Hiroshima Univ.; JST-CREST) MOTOISHI, Ryusei; SAKAMOTO, Yuya; ITOH, Shuhei; ABE, Manabu
- 1PA-101** Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate with Phage Display Technique-4 (IMRAM, Tohoku Univ.) MINATO, Sakie; MIYATI, Ayumi; SUGAWARA, Yui; SAKAMOTO, Seiji; NAKAKIDO, Makoto; UI, Mihoko; ARAKI, Yasuyuki; NISHIJIMA, Masaki; TSUMOTO, Kouhei; KINBARA, Kazushi; INOUE, Yoshihisa; WADA, Takehiko
- 1PA-102** The Blocking Effect of a Substituent on a 1, 3-Distyrylbenzene in Oxidative Photocyclization (Toho Univ.) TOYOSHIMA, Takuya; YOSHIDA, Satoshi; WATANABE, Soichiro
- 1PA-103** Photochemical reactions of phenanthraisoazolequinone with electron-rich olefins (Shimane Univ.) WAKIYAMA, Takahumi; IWAMOTO, Hidetoshi; NISHIGAICHI, Yutaka
- 1PA-104** Photochemical Reactions of 1-Alkyl-5-nitroisatins with 2,3-Dimethylbut-2-ene (AIT) KIMURA, Mahito; TATSUGI, Jiro
- 1PA-105** Synthesis and structure of *p,p'*-dibenzene s formed by Photochemical reaction of diaza[3.3]paracyclophanes (Okayama Univ.; Kyushu Univ.) OKAMOTO, Hideki; OKABAYASHI, Zenji; UEHARA, Hiroyuki; ITO, Satoshi; SHINMYOZU, Teruo; SATAKE, Kyosuke
- 1PA-106** Synthesis and photoreactions of oligosilanes substituted with phenyl groups (Dept. of Engineering Science, Univ. of Electro-Commun.) OZAWA, Mitsuhiro; OHTAKE, Masayoshi; SATOH, Haruhiko; TAKEYA, Osamu; KAKO, Masahiro
- 1PA-107** Reaction Mechanism of Photoreactions of *N*-Alkyl-1,8-naphthalimides with Alkylbenzenes (Faculty of Science and Engineering, Shimane Univ.) YAMANE, Kouta; SHIRATORI, Hideo; KUBO, Yasuo
- 1PA-108** Synthesis of C2-chiral ligands by the photodimerization reaction of chromone derivatives (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; UEDA, Yuki; YOSHIDA, Wataru; YAGISHITA, Fumitoshi; MINO, Takashi; FUJITA, Tsutomu
- 1PA-109** Development of Triplet Photosensitizing Ruthenium (II) Complex Bearing Hydrophobic Anthracene Fragments (Faculty of Engineering, Shizuoka Univ.) TAKAHASHI, Masaki; KEMMOCHI, Kazuhiro; SENGOKU, Tetsuya; YODA, Hidemi
- 1PA-110** Crystal Structure and Photophysical Property of a Organoboron Complex Containing [2.2]Paracyclophane Framework (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) MURAOKA, Shunsuke; YOSHIMOTO, Yuichi; MIZUNO, Kazuhiko;

IKEDA, Hiroshi

- 1PA-111** Photocatalytic hydrogen production using cobalt complex and biomass (Kyushu Univ.) FUJITA, Yusuke; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio

Sunday, March 25, PM

(12 : 30~14 : 00)

## Inorganic Chemistry

- 1PB-001** Epoxidation of olefin with hydrogen peroxide catalyzed by di-zirconium(IV) and di-hafnium(IV) cluster cation-containing Keggin sandwich-type polyoxometalates (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; AOTO, Hiroki
- 1PB-002** Synthesis of carboxylate-bridged dirhodium complex formed by mono-lacunary Keggin polyoxometalate having carboxylate-terminated organosilyl groups (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; MATSUNAGA, Satoshi; KODA, Tatsuya; NOGUCHI, Marie
- 1PB-003** Synthesis and structural characterization of dimeric complexes of mono-ruthenium substituted heteropolytungstates (Hiroshima Univ.; JST PRESTO) KITATOMI, Hiroaki; SADAKANE, Masahiro; OGO, Shuhei; IDE, Yusuke; SANO, Tsuneji
- 1PB-004** Investigation of the template-effects under the formation of polyoxometalate clusters in the molybdenum-blue solution. (Yamaguchi Univ.) NAKAMURA, Ippei; YOSHIDA, Mamoru; TSUNASHIMA, Ryo; ISHIGURO, Katsuya
- 1PB-005** Syntheses and Molecular Structures of Dinuclear Zr(IV) and Hf(IV) Edge- and Face-Sharing Type Complexes Sandwiched between Two Mono-Lacunary  $\alpha$ -Keggin-type Silicotungstates (Kanagawa Univ. Faculty of Science) OSADA, Hironori; SAKU, Yoshio; MATSUKI, Yuhsuke; ISHIKAWA, Akio; MATSUNAGA, Satoshi; NOMIYA, Kenji
- 1PB-006** Synthesis of monomeric, tri-titanium(IV)-substituted Dawson polyoxometalate and derivation of its non-bridging tetrameric species with encapsulated cation in the central cavity (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; MATSUKI, Yuhsuke; TAKAKU, Shouko
- 1PB-007** A novel sandwich-type polyoxometalate with lacunary Kepplerate polyoxometalates as building-blocks (Tokyo Institute of Technology) SAITO, Masaki; OZEKI, Tomoji
- 1PB-008** Synthesis of Precursor of Ionic Conducting Metal Tungstates Solid Solutions and Effect on Crystallization Temperature (Kochi Univ.) SHIMANOUCI, Rie; OMICHI, Tomomi; NISHIZAWA, Hitoshi
- 1PB-009** Preparation of alumina/mica sintered composites using polyhydroxaluminum composite gels (Shinshu Univ.) YAMAGUCHI, Tomohiro; TANAKA, Hirohito; YAMAKAMI, Tomohiko; TARUTA, Seiichi; KITAJIMA, Kunio
- 1PB-010** Preparation of Lithium Zinc Borate and Its Electrical Properties (Kanazawa Institute of Technology) KIHARA, Akihiro; TSUYUMOTO, Isao
- 1PB-011** Preparation of New Ternary Alkali Metal - Benzylamine - Graphite Intercalation Compounds (Okayama Univ.) KATAGIRI, Kaori; GOTOH, Kazuma; ISHIDA, Hiroyuki
- 1PB-012** Synthesis and drug release behavior of enteric polymer coated drug/layered double hydroxide nanohybrid. (Iwate Univ.) KONNO, Hitoe; AISAWA, Sumio; TAKAHASHI, Satoshi; HIRAHARA, Hidetoshi; NARITA, Eiichi
- 1PB-013** Intercalation behavior of porphyrin compounds into Mg-Al layered double hydroxide. (Iwate Univ.) ABE, Tomoko; AISAWA, Sumio; TAKAHASHI, Satoshi; HIRAHARA, Hidetoshi; NARITA, Eiichi
- 1PB-014** Fabrication and Electrochemical Properties of Reduced Graphite Oxide Nanosheet Electrodes Prepared by Layer-by-Layer Assembly (Shinshu Univ.) MITSUI, Takahiro; HIGRASHI, Kazuki; SATO, Jun; FUKUDA, Katsutoshi; SUGIMOTO, Wataru
- 1PB-015** Preparation of alkylammonium- $H_2W_{12}O_{42}$  intercalation compound in aqueous media (Shinshu Univ.; Waseda Univ.) OHUCHI, Masato; SUGAHARA, Yoshiyuki; FUKUDA, Katsutoshi; SUGIMOTO, Wataru
- 1PB-016** Intercalation of carboxylic acids into carbonate-type layered double hydroxide in organic solvents (Kobe Pharm. Univ.) NAGATA, Rie; JASHIKI, Mika; SAKAGUCHI, Yuko; HAYASHI, Aki; NAKAYAMA, Hirokazu
- 1PB-017** Control of Titanophosphonate Nanostructures using Titania Nanosheets (Tokyo Univ. of Agriculture and Technology) ITO, Katsunori; KONDO, Atsushi; MAEDA, Kazuyuki
- 1PB-018** Preparation and Ion Exchange of layer structured molybdates (Tokuyama College of Technology) OHASHI, Masao; MURATA, Natsuko
- 1PB-019** Synthesis of phyllosilicate/ethanolamine/alkylammonium hybrids with using a phyllosilicate/organic hybrid (Nat. Inst. Mater. Sci.) FUJII, Kazuko; HASHIZUME, Hideo; ARIGA, Katsuhiko; ANDO, Toshihiro
- 1PB-020** Decarbonation of carbonate-type LDH (layered double hydroxide) by using alcohol containing amine-acid salts (NIMS) IYI, Nobuo; YAMADA, Hirohisa; SASAKI, Takayoshi
- 1PB-021** Photochromic property of tungstate nanosheets with 2D bronze-structure (MANA, NIMS) FUKUDA, Katsutoshi; AKATSUKA, Kosho; EBINA, Yasuo; OSADA, Minoru; SASAKI, Takayoshi
- 1PB-022** Synthesis of layered compounds,  $Na_0.9Mo_2O_4$  and  $Li_xMoO_2$ , and

their protonation. (NIMS/ Univ. Tsukuba) FUKUE, Asuka; OZAWA, Tadashi C.; KIM, Dae Sung; SASAKI, Takayoshi

- 1PB-023** Nitrogen doping in pillared layered titanate (Univ. of Hyogo) MAEDA, Katsuya; MATSUO, Yoshiaki  
**1PB-024** Introduction of acidic sites in pillared magadiite (Univ. of Hyogo) YAMAUCHI, Yusuke; MATSUO, Yoshiaki

## Coordination Chemistry, Organometallic Chemistry

### Organometallic

- 1PB-027** Synthesis of silyl-substituted triazine (KURASHIKI UNIVERSITY OF SCIENCE AND THE ARTS) JAHANA, Yoshifumi; NAKA, Akinobu  
**1PB-028** Synthesis and Reactions of 9,9-Dialkoxy-9-silafluorenes (Graduate School of Engineering, Gunma Univ.) HIROSE, Satoshi; KANNO, Ken-ichiro; KYUSHIN, Soichiro  
**1PB-029** Synthesis of Stereo Regular Ladder Siloxane (Gunma Univ.) KAWAKAMI, Yoshiteru; UNNO, Masafumi  
**1PB-030** Preparation of Ge-porphyrin/TiO<sub>2</sub> Complex as Visible-light Driven Photocatalyst (Univ. of Miyazaki) KAJIHARA, Kurumi; NAKAMURA, Haruki; SHIRAGAMI, Tsutomu; MATSUMOTO, Jin; YASUDA, Masahide  
**1PB-031** Synthesis of Titanium Complexes That Have O,N,O-Tridentate Ligands and Their Catalytic Activity for Olefin Polymerization (Sophia Univ.) KOBAYASHI, Go; HASEGAWA, Takeshi; SUZUKI, Noriyuki; MASUYAMA, Yoshiro  
**1PB-032** Haptotropic behavior of [5]cumulenes in zirconium complexes (Sophia Univ.) YOSHITANI, Takao; SUZUKI, Noriyuki; MASUYAMA, Yoshiro  
**1PB-033** Synthesis of Hafnium Complexes with an [OSSO]-Type Bis(phenolato) Ligand Bearing a *trans*-Cycloheptane Ring and 1-Hexene Polymerization. (Saitama Univ.) IKUMA, Keita; NAKATA, Norio; ISHII, Akihiko  
**1PB-034** Reactions of dicationic bis(arene)iron complexes with N-heterocyclic carbenes (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) MURAYAMA, Tsukasa; HOSHINO, Ryoko; OHKI, Yasuhiro; TATSUMI, Kazuyuki  
**1PB-035** Stepwise Chlorination and Bromination of Two Acetylene Molecules on Tetrairon Cores (Graduate School of Science and Technology, Hirotsuki Univ.) MATSUKURA, Yusuke; GOTO, Misako; TSUKAHARA, Yuhei; OKAZAKI, Masaaki  
**1PB-036** Rapid Catalytic Asymmetric Cyclopropanation Reactions of Alkenyl Diazoketones by Ru(II)-Pheox (Toyoashi Univ. of Technology) mat nor, muazam shah bin; SHIBATOMI, Kazutaka; IWASA, Seiji  
**1PB-037** Ru(II)-Pheox Catalyzed Asymmetric Cyclopropanation of alpha, beta-Unsaturated Carbonyl Compounds with Methyl (Diazoacetoxy)acetate (Toyoashi Univ. of Technology) CHANTHAMATH, Soda; SHIBATOMI, Kazutaka; IWASA, Seiji  
**1PB-038** Aerobic Oxidation of Ethers by Using a Cyclometalated Ru Complex Catalyst (Univ. of Tsukuba) KIJIMA, Yuhei; AIKI, Shota; KUWABARA, Junpei; KOIZUMI, Takeaki; KANBARA, Takaki  
**1PB-039** Theoretical Study on Transformation Mechanisms of Internal Alkynes to Vinylidenes in Ruthenium Complex (Ochanomizu Univ.; Faculty of Science and Engineering, Chuo Univ.) OTSUKA, Miho; TSUCHIDA, Noriko; IKEDA, Yousuke; KIMURA, Yusuke; MUTOH, Yuichiro; ISHII, Youichi; TAKANO, Keiko  
**1PB-040** An Structural Change of SNS Pincer Ruthenium Complexes Induced by Deprotonation of Thioamide moiety. (Univ. of Tsukuba TIMS) KOMIYAMA, Yoko; KUWABARA, Junpei; KANBARA, Takaki  
**1PB-041** Synthesis of Cisoid Binuclear Ruthenium-Fulvalene Complexes Bridged by Chalcogens (Hiroshima Univ.; Grad. Sch of Science.) YASUHARA, Hiroki; NAKASHIMA, Satoru  
**1PB-042** Syntheses of Metal Complexes with Tripodal Tridentate Ligands having N-heterocyclic Carbenes (Nagasaki Univ.) NAKAMURA, Takuo; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke  
**1PB-043** Preparation of Iridium(III)  $\eta^1$ -allyl Carbonyl Complexes Bearing the  $\eta^1$ : $\eta^1$ -coordinated Ind-P Ligand (Department of Chemistry, Faculty of Science, Nara Women's Univ.) HIGASHINAKAGAWA, Tomoe; URA, Yasuyuki; KATAOKA, Yasutaka  
**1PB-044** Intramolecular C-H bond activation of the Ir cationic complex bearing the Ind-NHC<sup>Me</sup> ligand (Department of Chemistry, Faculty of Science, Nara Women's Univ.) HASHIMOTO, Tamaho; AOYAMA, Kyoko; URA, Yasuyuki; KATAOKA, Yasutaka  
**1PB-045** Synthesis of Dinuclear Pt-Ir Complexes Bridged by (*S*)-BINAP and *trans*-Cyclooctane-1,2-dithiolate Ligands and Hydrosilylation Catalyzed by the Complexes (Saitama Univ.) KOMATSUBARA, Chizuru; NAKATA, Norio; ISHII, Akihiko  
**1PB-046** Synthesis of triplatinum complex using sexidentate phosphine ligand. (Grad. School of sci., Hiroshima Univ.) YASUDA, Shogo; KUBO, Kazuyuki; MIZUTA, Tutomu  
**1PB-047** Theoretical Study of Alkyl/Halogen Exchange Reaction on Pt Complexes with Phosphine Ligand (Ochanomizu Univ.) TAKASHIMA, Mari; TSUCHIDA, Noriko; SHIGESATO, Yuka; ITAZAKI, Masumi; NAKAZAWA, Hiroshi; TAKANO, Keiko  
**1PB-048** Synthesis of novel coordination polymers from nickel(II) dithiocar-

bamates of amino acids as bridging ligands (Osaka Institute of Technology) NOMURA, Ryoki; MARI, Yuya; OHTAKA, Atsushi; SHIMOMURA, Osamu

- 1PB-049** Synthesis of Novel Palladium(II) Complex with Cyclobutenone Ligand (Fac. of Eng., Saitama Inst. of Tech.) TANIFUJI, Ryutarou; IWASAKI, Masakazu  
**1PB-050** Syntheses and Properties of Methylplatinum Complexes Containing a Photosensitizing Cyclometalated Iridium Unit (Tokyo Institute of Technology, Chemical Resources Laboratory) SHIBA, Yuichiro; INAGAKI, Akiko; AKITA, Munetaka  
**1PB-051** Palladium-catalyzed selective synthesis of arylacetaldehydes from vinylarenes (Faculty of Science, Nara Women's Univ.) NAKAOKA, Sonoe; URA, Yasuyuki; KATAOKA, Yasutaka  
**1PB-052** Synthesis and Structure of Multinuclear Palladium Complexes supported by Linear Tetrakisphosphine Ligands with Electron Withdrawing Groups (Nara Women's Univ.) MOCHIZUKI, Ayaka; NAKAMAE, Kanako; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki  
**1PB-053** Synthesis of Dinuclear Palladium Complexes Supported by *rac*-dpmpm Ligand (Nara Women's Univ.) OTAKI, Risa; NAKAMAE, Karako; NISHIDA, Tomoko; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki  
**1PB-054** Synthesis, Structures and Reactivities of Thiolate Bridged Dinuclear Complexes Supported by a P<sub>2</sub>S<sub>2</sub> Ligand (Nara Women's Univ.) SANO, Mikie; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki  
**1PB-055** Reactivities of Tri- and Tetranuclear Complexes Supported by a Tetrakisphosphine Ligand Dpmpm (Nara Women's Univ.) ZOUHA, Maki; SAKAMOTO, Miyuki; KURAI, Sachi; NODA, Sayo; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki  
**1PB-056** Preparation of Dipalladium Complexes with Bridging Silylene Ligands Starting from (Aminosilyl)boronic Esters (Chem. Res. Lab.; Tokyo Tech., Kyoto Univ.) SAKAI, Masaru; TANABE, Makoto; OSAKADA, Kohtarou; OHMURA, Toshimichi; SUGINOME, Michinori  
**1PB-057** Syntheses and characterization of dinuclear Pd(II) complexes with an N-heterocyclic carben ligand having two 2-pyridylimidazolium groups on an aromatic ring (Nagoya Institute of Technology) NAGATA, Yui; YAGYU, Takeyoshi  
**1PB-058** Preparation and Catalysis of Polysiloxane Gels in which Palladium Nanoparticles are encapsulated (Kyushu Univ.) ISHII, Ai; NAGASHIMA, Hideo  
**1PB-059** Heck reaction catalyzed by palladium nanoparticles supported on metal organic frameworks (Tokyo Institute of Technology) GOTO, Toshinori; MAKIOKA, Yoshikazu; TANIGUCHI, Yuki

### Coordination Chemistry

- 1PB-060** Synthesis, Molecular Structure and Antimicrobial Activities of Silver (I) *L*-Arginate (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; CHIKARAISHI, Noriko; TAKAYAMA, Akihiko; YOSHIKAWA, Rie; IYOKU, Sayuri  
**1PB-061** Synthesis, Characterization and Antimicrobial Activities of Trinuclear (*L*-Histidinato)argentate(I) Complex (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; CHIKARAISHI, Noriko; YANAGITA, Kousuke; YOSHIKAWA, Rie; TAKAGI, Yoshitaka  
**1PB-062** Synthesis and Structure of Mono- and Dinuclear Hydrazone-Pd(II), Pt(II) Complexes, and Their Property Changes by Protonation and Deprotonation (Aichi Univ. of Education; Hokkaido Univ.) YAMASHITA, Yurika; OHARA, Keishi; KOBAYASHI, Atsushi; CHANG, Ho-chol; KATO, Masako; NAKAJIMA, Kiyohiko  
**1PB-063** Preparation, Structures, and Solvatochromic Behavior of Ru(II) Complexes with Hydrazone Ligands (Dept. Chem., Aichi Univ. of Edu., Dept. Chem., Hokkaido Univ.) MORI, Asami; KOBAYASHI, Atsushi; CHANG, Ho-chol; KATO, Masako; NAKAJIMA, Kiyohiko  
**1PB-064** Study of single crystal structures and electron configuration of lanthanide supramolecular complexes (Ln = Nd, Sm, Eu, Tb, Yb) (Department of Material and Life Chemistry, School of Engineering, Kanagawa Univ.) HINO, Ryotaro; KOMORI-ORISAKU, Keiko; KOIDE, Yoshihir  
**1PB-065** Kinetics and solid state reaction of photocatalytic olefin dimerization reactions in ytterbium supramolecular complex (Department of Material and Life Chemistry, School of Engineering, Kanagawa Univ.) TAKAHASHI, Synpei; SUGIURA, Kenta; KOMORI-ORISAKU, Keiko; KOIDE, Yoshihiro  
**1PB-066** Synthesis and Supramolecular Structure of Copper(II) Complex with Planar Tetradentate Ligand. (Osaka Kyoiku Univ.) KUBONO, Koji; TSUNO, Yuki; YOKOI, Kunihiko  
**1PB-067** Syntheses and Supramolecular Structures of Metal Complexes with Piperazine Derivatives (Osaka Kyoiku Univ.) TAKAHASHI, Mami; KUBONO, Koji; YOKOI, Kunihiko  
**1PB-068** Redox behavior of rotaxane-type Cu(II)-porphyrin/Cu(II)-phthalocyanine stacking array (Nagoya Univ., Graduate School of Science, Department of Chemistry; Nagoya Univ., Research Center for Material Science; CREST, JST) ISHIIHARA, Yu; YAMADA, Yasuyuki; TANAKA, Kentaro  
**1PB-069** Synthesis of hetero-dinuclear metal complexes in a porphyrin/phthalocyanine four-fold rotaxane (Nagoya Univ., Graduate School of Science, Department of Chemistry; Nagoya Univ., Research Center for

- Materials Science; CREST, JST) YAMADA, Yasuyuki; MIHARA, Nozomi; TANAKA, Kentaro
- 1PB-070** Structural and functional control of tetraoxime-type macrocyclic metal complexes by chemical modification (Grad. School of Science, The Univ. of Tokyo) TANIHIRA, Junichiro; YAMADA, Mihoko; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 1PB-071** Synthesis and Properties of Dihydroxo(phthalocyaninato)arsenic(V) complex. (National Institute for Materials Science.) KAGAYA, Yutaka; ISAGO, Hiroaki
- 1PB-072** Surface modification of subnanometer-sized Au<sub>13</sub> cluster derivatives and their photoluminescence properties (Hokkaido Univ.) OHTSUKA, Eika; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 1PB-073** Synthesis and properties of trinuclear complexes using Co(II) complexes with a hexadentate tripodal ligand as a ligand complex (Department of Chemistry, Faculty of Science, Okayama Univ.) FUJINO, Tae; KOBAYASHI, Tamami; SUZUKI, Takayoshi; SUNATSUKI, Yukinari; KOJIMA, Masaaki
- 1PB-074** Synthesis of New Ternary Ligand with N4 Bridging Motif and Their Dinuclear Complexes. (Institute for Molecular Science) KON, Hiroki; NAGATA, Toshi
- 1PB-075** Siteselective bridging-ligand substitution reaction in the trinuclear cobalt(III) complexes with acetato and pyrazolato bridges (Kitasato Univ.) KONDOU, Shohei; YOSHIDA, Jun; YUGE, Hidetaka
- 1PB-076** Syntheses, crystal structures and properties of novel Cu(I) ethylene complexes with multidentate nitrogen ligands (Research Institute for Science and Technology, Kinki Univ.; Department of Chemistry, Kinki Univ.) MINAMINO, Ai; MAEKAWA, Masahiko; OKUBO, Takashi; KURODA, Takayoshi; MUNAKATA, Megumu
- 1PB-077** Withdrawn
- 1PB-078** Synthesis and Emissive Properties of Halogeno Copper(I) Coordination Polymers Having Halogeno Bridged Dimeric Units with Ethoxy- or Ethyl-diphenylphosphine (Univ. of Toyama) HIGO, Miki; ISHIYAMA, Takanori; NOZAKI, Koichi; TSUGE, Kiyoshi
- 1PB-079** Synthesis and luminescence properties of mononucleareuropium(III) complexes with tetradentate schiff base ligands derived from chiral stilbene-diamine (Chiba institute of technology) TOYODA, Saori; TSUCHIMOTO, Masanobu; WATANABE, Masayuki; NAKAZIMA, Kiyohiko
- 1PB-080** Synthesis and magnetism of novel polynuclear iron(II) complexes with a novel S-shaped hexadentate ligand derived from phenazine. (Faculty of Science and Technology, Kinki Univ., R.I. for Science and Technology, Kinki Univ., Japan Synchrotron Radiation Research Institute) YAMAGUCHI, Ryotaro; SUGIMOTO, Kunihisa; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PB-081** Synthesis of diiron(III) complexes with a new bis-tpa type dinucleating ligand having four electron-donating pendant pyridyl groups 6-hpa(CH3)2, CH3O (Doshisha Univ.) KAZURAO, Masaaki; IRIE, Hiroaki; KAWAHARA, Yuka; HITOMI, Yutaka; KODERA, Masahito
- 1PB-082** Syntheses and properties of fluorinated-ethylidene-metallporphyrins bearing a substituted phenyl group at  $\alpha$ -position (School of Science, Kitasato Univ.) TANAKA, Yo; ICHIKAWA, Yuuki; YUGE, Hidetaka
- 1PB-083** Development of a porphyrin catalyst system using PFC layer (Nagoya Institute of Technology) TAKAGI, Shigeru
- 1PB-084** Synthesis of iron-sulfur clusters via the C-S bond cleavage of triphenylmethanethiolate (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) NAGASAKI, Ayaka; XIE, Yiming; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1PB-085** Syntheses, crystal structures and properties of novel Ir(III) hydride complexes with multidentate nitrogen ligands (Research Institute for Science and Technology, Kinki Univ.; Department of Chemistry, Kinki Univ.) KUBO, Yukimi; MAEKAWA, Masahiko; OKUBO, Takashi; KURODA, Takayoshi; MUNAKATA, Megumu
- 1PB-086** Syntheses, Structures and Luminescence of Ir(III) Complexes with Orthometalated Ligands and Amino Acids (Dept. Chem., Saitama Univ.; CACS, Saitama Univ.) NAKAMURA, Kazuki; NAGASAWA, Akira; FUJIHARA, Takashi
- 1PB-087** Synthesis and Properties of a Heteroleptic Triple-decker Sandwich Dinuclear Lu(III) Complex Containing Octabutoxy- and Octamethyl-substituted Phthalocyanines (Part 1) (Kyushu Univ.) MIKI, Arata; TAKAHASHI, Kazuhiro
- 1PB-088** Geometry switching of Ni(II) complexes in response to acid-base stimuli (Graduate School of Science, Osaka City Univ.) MIYAKE, Hiroyuki; YAMASHITA, Shohei; TUKUBE, Hiroshi
- 1PB-089** Metal Arrangement using a Rigid Cyclophane-type Macrocyclic Ligand composed of Phenanthroline and Anthracene Frames (Grad. School of Science, The Univ. of Tokyo) OMOTO, Kenichio; KURITANI, Masumi; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 1PB-090** Synthesis and characterization of a novel heterometallic trinuclear complex with triply bridged sulfide ligands induced an N-heterocyclic carbene platinum unit (Graduate School of Science, Osaka City Univ.) MAEDA, Yuri; HASHIMOTO, Hideki; NISHIOKA, Takanori
- 1PB-091** Synthesis and properties of with cyclometalated platinum complexes with 1,1'-bis(diphenylphosphino)ferrocene (Nagasaki Univ.) KANEMATSU, Yasunori; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 1PB-092** Synthesis and luminescent properties of mixed-metal complexes with various (diimine)platinum units and group 11 metal ions (Nagasaki Univ.) HIGASHITANI, Ami; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 1PB-093** Syntheses and Pt-Pt Interaction of Platinum(II) Trinuclear Complexes Having  $\pi$ -Stacking Structures (Univ. of Toyama) NUNO, Takahiro; TSUGE, Kiyoshi
- 1PB-094** Preparation and Structures of Rhodium (III) Complexes Bearing Adeninate (1-) or Thyminate (1-) and their Hydrogen-Bonding Interactions (Department of Chemistry, Faculty of Science, Okayama Univ.) IKEDA, Miyu; TAKAYAMA, Asuka; KASHIMA, Ayana; SUZUKI, Takayoshi; SUNATSUKI, Yukinari; KOJIMA, Masaaki
- 1PB-095** Synthesis and Chemical Properties of New Dinuclear Rhodium(II) Complexes Bearing a Bridging Anthridine Ligand (Tokyo Tech.) KOIZUMI, Take-aki; HIRAKAWA, Shota; FUKUSHIMA, Takanori
- 1PB-096** Development of photo-oxygen-evolving molecular device tethered to multi-electron-storage moieties (Kyushu Univ.) NAKAI, Takaaki; KITAMOTO, Kyouji; SAKAI, Ken
- 1PB-097** Synthesis of the Dendritic Ligand with Carboxylate Terminal Group and Its Binuclear Metal Complex (Kyushu Univ.) NAKANISHI, Taro; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 1PB-098** Synthesis and spectroscopic properties of ruthenium(II) complexes with phosphine sulfides (Univ. of Yamanashi; Seikei Univ.) TSUKUDA, Toshiaki; MATSUMOTO, Takayuki; TSUBOMURA, Taro
- 1PB-099<sup>f</sup>** Synthesis and reactivity of metal complexes comprising a cyclen derivative (Tohoku Univ.) KANDERU, Ramuji-; BURI-DORABU, Buraian; YAMASHITA, Masahiro
- 1PB-100** Synthesis of Ruthenium Complexes with a Peptide Containing Histidine and an Unnatural Bipyridyl-Type Amino Acid (Kitasato Univ.; PRESTO JST) MATSUDA, Tomohiro; KURAMOCHI, Yusuke; USHIDA, Kiminori; ISHIDA, Hitoshi
- 1PB-101** Synthesis and Photophysical Properties of Ruthenium-Peptide Complexes Bearing a Pyrenyl Group (Kitasato Univ.; PRESTO JST) YASUDA, Mito; KURAMOCHI, Yusuke; USHIDA, Kiminori; ISHIDA, Hitoshi
- 1PB-102** Synthesis and Substitution Reactions of Ru-dmsO Mononuclear Complex with a Tetradentate Ligand *N,N'*-dimethyl-*N,N'*-di-(pyridin-2-yl)pyrimidine-4,6-diamine (Meiji Univ.) MAKISE, Takashi; TOYAMA, Mari; NAGAO, Noriharu
- 1PB-103** Synthesis of a fluorescent novel silicon complex with a Schiff base ligand (Okayama Univ. of Sci.) KAWAMOTO, Keisuke; IKKAI, Fumiya; UCHIYAMA, Keita; YAMASAKI, Mikio; SHIBAHARA, Takashi
- 1PB-104** Syntheses of a new dinucleating ligand having two triazacyclononane pendant groups and its dizinc complex stable in an aqueous solution (Doshisha Univ.) YAMADA, Hitoshi; NOMURA, Akiko; HITOMI, Yutaka; KODERA, Masahito
- 1PB-105** Metallophthalocyanines substituted with positively-charged phenyl derivatives (Univ. of Toyama; Shimane Univ.) SUGIMORI, Tamotsu; NOMURA, Mitsuki; TAKAHASHI, Yasutake; HANDA, Makoto; IKEUE, Takahisa
- 1PB-106** Structure and photo-luminescence properties of hexanuclear 2-quinolinethiolato silver(I) or copper(I) complexes. (Univ. of Hyogo; Japan Synchrotron Rad. Res. Institute) MASUNAGA, Azusa; OZAWA, Yoshiki; YASUDA, Nobuhiro; TORIUMI, Koshiro
- 1PB-107** Crystal Structure and Conductive Properties of a Mixed-Valence Copper Coordination Polymer with a Dipentyl-Dithiocarbamate Ligand (Kinki Univ.) TOKUGAWA, Kenta; ANMA, Haruho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PB-108** Synthesis and Properties of Luminescent Copper(I) Acetylacetonate Complexes with Bulky Phosphine Ligands (Osaka City Univ., Showa Chemical Industry Co. Ltd.) HORIKOSHI, Takafumi; KAMBARA, Ryusuke; SUZUKI, Shuichi; KOZAKI, Masatoshi; UENO, Mituyo; ISHIYAMA, Yasushi; OKADA, Keiji
- 1PB-109** Crystal structures and magnetic properties of [Cu(gly)(L)(H<sub>2</sub>O)]<sub>n</sub> (L = Cl, NO<sub>3</sub>) (Shinshu Univ.) OHKI, Hiroshi; KANEKO, Hitoshi
- 1PB-110** Complete Spontaneous resolution of Trinuclear Transition-metal and Lanthanoid complexes (Department of Chemistry, Faculty of Science, Okayama Univ.) ISOZAKI, Manami; WADA, Koki; YAMAGUCHI, Tomoka; SUNATSUKI, Yukinari; SUZUKI, Takayoshi; KOJIMA, Masaaki
- 1PB-111** Synthesis and magnetic property of Fe(II) complexes consisting of tetra-Schiff base ligand and pyridine derivatives (Kinki Univ.) YAMANO, Masaki; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PB-112** Change of magnetism accompanied with cation uptake in Fe(II) salen complexes modified with polyether groups (Kinki Univ.) HINANO, Athushi; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PB-113** Synthesis and magnetic properties of novel polynuclear Mn clusters with tridentate Schiff-base ligands (Faculty of Science and Technology, Kinki Univ., R.I. for Science and Technology, Kinki Univ.) SHINKE, Naoya; MASUDA, Takayuki; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PB-114<sup>f</sup>** Preparation and Properties of Supramolecules Based on the Nickel (II) and Copper(II) Polyazamacrocycles Having Side Chains. (Suncheon National Univ., Korea) KWAK, Chee-hun; OTGONBATAAR, Enkhzul; CHUNG, Minchul
- 1PB-115** Crystal Structure Changes Brought about by Bulky Terminal Groups in [Ni(dmit)<sub>2</sub>] Complex Salts (Tokyo Univ. Sci.) SAEKI, Masahiro; DAI,

- Kotaro; TOMONO, Kazuaki; MIYAMURA, Kazuo
- 1PB-116** Synthesis and complexation of water-soluble oxime-peptides directed toward artificial metallo-peptides (Grad. School of Science, The Univ. of Tokyo) TAKAMATSU, Yoshinori; MATSUOKA, Koji; TASHIRO, Shohei; SHIONOYA, Mitsuhiko
- 1PB-117** Study of the mechanism of single-crystalline photochromism on a platinum complex by theoretical analysis and single-crystal neutron structure analysis (Rikkyo Univ.; CROSS; Univ. of Tokyo; RIKEN; Tokyo Inst. Tech.; Ibaraki Univ.; JAEA) MATSUSHITA, Nobuyuki; OHHARA, Takashi; ARAKI, Kosei; NAKAMURA, Shinichiro; OZEKI, Tomoji; UCHIDA, Waka; YUKI, Taichi; NAKATA, Hiroya; TANAKA, Ichiro; KUSAKA, Katsuhiko; HOSOYA, Takaaki; YAMADA, Taro; KURIHARA, Kazuo; NIIMURA, Nobuo
- 1PB-118** Temperature-dependence of crystal structure of a redox-active non-bridged platinum(II) dinuclear complex (Rikkyo Univ.) YOSHIDA, Mana; MATSUSHITA, Nobuyuki
- 1PB-119** Syntheses and Substitution Reactions of Cationic Ru(II) Complexes with a Tridentate Ligand *N,N'*-dimethyl-*N,N'*-di-(2-pyridyl)pyridine-2,6-diamine (Meiji Univ.) OKUDA, Jun-ya; TOYAMA, Mari; NAGAO, Noriharu
- 1PB-120** Syntheses and Structures of Ruthenium(II) Complexes with a Di-2-pyridylamine and an Ethylenediamine (Meiji Univ.) TOYAMA, Mari; NAGAO, Noriharu
- 1PB-121** Synthesis and Substitution Reactions of Ruthenium(II) Complexes with an Unsymmetrical Ligand *N*-methyl-(6-chloro-3-pyridazinyl)(2-pyridyl)amine. (Meiji Univ.) SHIMIZU, Shun; ISHIDA, Tomokazu; TOYAMA, Mari; NAGAO, Noriharu
- 1PB-122** Growth of co-crystals through intermolecular hydrogen bondings of zinc(II) dithiocarbamate from amino acids (Osaka Institute of Technology) NOMURA, Ryoki; OGURA, Ryou; OHTAKA, Atsushi; SHIMOMURA, Osamu
- 1PB-123** Electrochemistry of Cobalt(II) Clathrochelate Complexes on the Electrode Surface and in Solution (Dept. Chem., Saitama Univ.; CACS, Saitama Univ.) KIMURA, Keigo; NAGASAWA, Akira; FUJIHARA, Takashi
- 1PB-124** Synthesis, Properties, Aromaticity, and Reactivity of Coordinatively Unsaturated Complexes Protected with Bowl-Shaped Ligands (Univ. of Tokyo) MARUYAMA, Masashi; NAKAMURA, Eiichi; MATSUO, Yutaka
- 1PB-125** Photo-induced reduction of hybrid systems of Phe- and other derivatives of Schiff base Cu(II) complexes and titanium(IV) oxide (Tokyo Univ. of Science, Faculty of Science) NISHIZURU, Hitoe; KIMURA, Naoko; AKITSU, Takashiro
- 1PB-126** Alkane Oxidation by Immobilized Metal Complex Catalysts: Structural and Reactivity Changes of the Complex depending on metal species. (Kanagawa Univ.) DOI, Yuma; NAKAZAWA, Jun; HIKICHI, Shiro
- 1PB-127** Alkane Oxidation by Immobilized Nickel Complex Catalysts: Structural and Reactivity Changes of the Complex Induced by Surface Density of the Ligand (Kanagawa Univ.) NAKAZAWA, Jun; HIKICHI, Shiro
- 1PB-128** Mechanistic Studies on Photocatalysis of Biscarbonyl Bisphosphine Rhenium(I) Complexes for CO<sub>2</sub> Reduction (Tokyo Institute of Technology) NAKANISHI, Ryoichi; MORIMOTO, Tatsuki; ISHITANI, Osamu
- 1PB-129** Photoreduction of carbon dioxide sensitized by ruthenium complexes using rhenium complexes as catalysts in vesicles (The Univ. of Tokyo) IKUTA, Naoya; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 1PB-130** Reduction Reactions of Dichloridoruthenium(III) Complex Bearing 2,2'-bipyridine and 2-pyridinecarboxylate (Faculty Sci. Technol., Sophia Univ.) KONO, Taro; ITOHIIYA, Toshiyuki; SHIKANO, Kazunori; FUKUI, Sohei; NAGAO, Hirotaka
- 1PB-131** Investigation of Photochemical Oxygen Generation in Vesicles (The Univ. of Tokyo) SATO, Youichi; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 1PB-132** Photochemical CO<sub>2</sub> Reduction Catalyzed by Ruthenium Complexes in Aqueous Solvents (Kitasato Univ.; PRESTO JST) KAMIYA, Masaya; KURAMOCHI, Yusuke; USHIDA, Kiminori; ISHIDA, Hitoshi
- 1PB-133** The examination of effects of organic anions on supramolecular structures and their phosphate hydrolysis activity of supramolecular complexes formed from three components. (Fac. Pharm. Sci., Tokyo Univ. Sci.) SUZUKI, Asami; ZULKEFELI, Mohd; HISAMATSU, Yosuke; SHIRO, Motoo; AOKI, Shin
- 1PB-134** Effects of Phosphine Ligands on Structures and Emissive Properties of Halogeno Silver(I) Coordination Polymers Bridged by 4,4'-Bipyridine (Univ. of Toyama) GOTO, Syunya; KITAMURA, Yosuke; NOZAKI, Koichi; TSUGE, Kiyoshi
- 1PB-135** Guest-responsivity of Co(II)M(II)(M = Ni, Pd, Pt) Porous Coordination Polymers (Kyushu Univ) OHBA, Hisayoshi; MISHIMA, Akio; YONEDA, Ko; OHTANI, Ryo; KITAGAWA, Susumu; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 1PB-136** Evaluation of the electrochemical properties of fused oligosalphen-Co complexes (IIS, Univ.Tokyo) NAGANO, Yuta; ITO, Muneyuki; YAGI, Keisuke; HOUJOU, Hirohiko
- 1PB-137** Light-induced multi-step magnetic control of a Co-layered double hydroxide with a mixture of two types of diarylethene derivatives (Tokyo Univ. of Science, The Univ. of Tokyo) OOSIMA, Hirofumi; ENOMOTO, Masaya; OKAZAWA, Atsushi; KOJIMA, Norimichi
- 1PB-138** Self-Assemblies of Nitridocromium(V) Complexes with Schiff Base Ligand Carrying Hydroxy Naphthaldehyde and their Intermolecular Magnetic Interactions (Faculty of science and technology, Keio Univ.) YAMADA, Masashi; MAEDA, Chihiro; YOSHIOKA, Naoki
- 1PB-139** Development of Bulk-Hetero-Junction Type Solar Cells with a Dithiocarbamate Coordination Polymer (Kinki Univ.) NAKATANI, Kenji; ANMA, Haruho; TANAKA, Naoya; KIM, Kyung Ho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PB-140** Electric conductivities and Crystal Structures of 3-DCoordination Polymers including Dithiocarbamate Derivatives (Kinki Univ.) SUZUKI, Shimpei; TANAKA, Naoya; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PB-141** basis set dependency on magnetic interaction of CuM hetero binuclear complex (Osaka Univ.) HATAKE, Hiroshi; YASUDA, Natsumi; KITAGAWA, Yasutaka; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka
- 1PB-142** Structures and Magnetic Properties of Lanthanide(III)-Phthalocyaninato Quadruple-Decker Complex (Ln-Cd-Ln) (Tohoku Univ.) HORII, Yoji; KATOH, Keiichi; YAMASHITA, Masahiro
- 1PB-143** Synthesis, Structures and Magnetic Properties of Hetero-Triple-Decker type Lanthanide(III)-Phthalocyaninato Complexes (Tohoku Univ.) MIURA, Akira; KATOH, Keiichi; YAMASHITA, Masahiro
- 1PB-144** Luminescence sensing of aromatic amino acids with a library of lanthanide ions and chelate ligands (Graduate School of Science, Osaka City Univ. and JST, CREST) SHINODA, Satoshi; TOKUDA, Chiharu; TSUKUBE, Hiroshi
- 1PB-145** Luminescence behavior of an additive compound of gyroidal Ln complex and terephthalate (College of Science and Engineering, Aoyama Gakuin Univ.) SATO, Saki; KUNISAKI, Shunsuke; TAKAHASHI, Isao; HASEGAWA, Miki
- 1PB-146** Mechanism of induced circularly polarized luminescence of bis (diimine-dicarboxylic acid)Eu(III) complexes (Univ. of Toyama) OKUTANI, Kazuhiro; YAMAMOTO, Motohiko; KIMURA, Yoshihiro; IWAMURA, Munetaka; NOZAKI, Kouichi
- 1PB-147** Study on the size effect of photoisomeric cation on the magnetic properties of iron mixed-valence complexes (SP-R)[Fe<sup>II</sup>Fe<sup>III</sup>(dto)<sub>2</sub>]SP = spiropyran; R = alkyl group; dto = C<sub>2</sub>O<sub>2</sub>S<sub>2</sub> (The Univ. of Tokyo) YOSHIDA, Junya; OKAZAWA, Atsushi; KOJIMA, Norimichi
- 1PB-148** Pressure Effect of Dynamic Spin Crossover Phenomena in Monothiooxalate-bridged Iron Complexes (Univ. of Tokyo) MATSUOKA, Takafumi; KAGESAWA, Koichi; OKAZAWA, Atushi; KOJIMA, Norimichi
- 1PB-149** Synthesis and Magnetic Properties of an Iron Spin-crossover Complex Containing Anionic Spiropyran (Univ. Tokyo) SUGAHARA, Akira; TANAKA, Naru; OKAZAWA, Atsushi; KOJIMA, Norimichi
- 1PB-150** Photochromism of a triphenylmethane dye conjugated with iron complex moieties (IIS, Univ.Tokyo) HIRAYAMA, Koichiro; YAMADA, Hiroka; HOUJOU, Hirohiko
- 1PB-151** Withdrawn
- 1PB-152** Determination of the change in the ligand-field-splitting of Gd phthalocyanine double decker complexes due to oxidation of the ligand by single crystal ESR (Osaka Univ.) TADURU, Aoi; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto
- 1PB-153** Intermolecular Interaction of Ir-Complex in the Excited State (Yokohama City Univ.) TAKAYASU, Satoshi; SHINOZAKI, Kazuteru
- 1PB-154** A series of alternating chains with canted antiferromagnetic interaction constructed by carboxylate ligands and salen-type manganese(III) units: towards to single-chain magnets (Tohoku Univ.) YOSHIDA, Hiroki; ZHANG, Weixiong; YAMASHITA, Masahiro
- 1PB-155** Solvent effect on the spin state of nickel(II) quinoidal porphyrin complexes (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; HIRANO, Daisuke; TAKEUCHI, Shouichi; ASANO, Motoko; SUGIURA, Ken-ichi
- 1PB-156** Theoretical study of electronic structures, magnetic interactions, and absorption spectral features of Ni-Au supramolecular complexes (Department of Chemistry, Graduate School of Science, Osaka Univ.) KATAOKA, Yusuke; KITAGAWA, Yasutaka; OKUMURA, Mitsutaka; IGASHIRA, Asako; KONNO, Takumi
- 1PB-157** Spontaneous helical folding of dinuclear salphen complex containing isobutylene linker (IIS, Univ. of Tokyo) ACHIRA, Hiroto; ITO, Muneyuki; HOUJOU, Hirohiko
- 1PB-158** Control on Assembled Forms of Aromatic Coordination Complexes by Modification of Side Chains (School of Engineering, The Univ. of Tokyo; CREST) TAKEUCHI, Ryosuke; SATO, Sota; FUJITA, Makoto
- 1PB-159** Hydrogen-Evolving Activity and Ligand Exchange Reaction of Platinum(II) Complexes of Thioethers. (Kyushu Univ. ) SHINTO, Tomohiro; YAMAUCHI, Kosei; MASAOKA, Shigeyuki; SAKAI, Ken
- 1PB-160** Luminescent Properties of Platinum(0) Complexes Bearing Monodentate Phosphines (Seikei Univ.) OHKUBO, Takuma; NAKAZAWA, Miyako; TAKAO, Koichiro; TSUBOMURA, Taro
- 1PB-161** Electronic State of a Novel Iodine-bridged Pt Complex with Long Alkyl Chains and Its Ferroelectricity (Tohoku Univ.) SHIN, Minseob; TAKAISHI, Shinya; KATOH, Keiichi; SAGAYAMA, Hajime; ARIMA, Takahisa; YAMASHITA, Masahiro
- 1PB-162** Vapoluminescence of tetracyanoplatinates(II) (Rikkyo Univ.) UMEZAWA, Izumi; MATSUSHITA, Nobuyuki
- 1PB-163** Hydrogen sorption/desorption of [Rh(bpy)<sub>2</sub>]<sup>+</sup> complex in a



- polymer (Yokohama City Univ.) OKAMOTO, Kotaro; SHINOZAKI, Kazuteru
- 1PB-164** Syntheses and photocatalytic abilities of new Ru-Rh-Ru trinuclear complexes (Tokyo Tech.) OHKUBO, Kei; TAMAKI, Yusuke; KOIKE, Kazuhide; MORIMOTO, Tatsuki; ISHITANI, Osamu
- 1PB-165** Photoisomerization of trans-Ru(dbb)(CN)<sub>2</sub> (Yokohama City Univ.) TENMYO, Kazuhiro; SHINOZAKI, Kazuteru
- 1PB-166** Preparation of Photoelectrochemical cells modified with molecular photocatalysts and their application to water splitting. (Kyushu Univ.) SAKAI, Kakeru; KIYOTA, Josaku; SAKAI, Ken
- 1PB-167** Change in properties of supramolecular photocatalyst by modulating electronic structure of bridging ligand (Tokyo Tech.) KATO, Eishiro; MORIMOTO, Tatsuki; ISHITANI, Osamu; KOIKE, Kazuhide
- 1PB-168** Pressure dependence of thermal deactivation processes of phosphorescent states in Ru(II) polypyridyl complexes (Univ. of Toyama) MAEBA, Junichi; IWAMURA, Munetaka; NOZAKI, Koichi
- 1PB-169** Dynamic magnetism quadruple-decker phthalocyanine complexes (Osaka Univ.) MATSUMURA, Kazuya; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto
- 1PB-170** The magnetic behavior of inverted-sandwich-type phthalocyaninato dilanthanide complexes (Osaka Univ.) TSUCHIYA, Satoshi; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto
- 1PB-171** Near-infrared Luminescent Schiff-Base Zn(II)-Ln(III)-Zn(II) trinuclear complexes (Nara Women's Univ.) KUWATANI, Marina; KUSUNOKI, Naoko; YAMASHITA, Kei; KATAOKA, Yumiko; KAJIWARA, Takashi
- 1PB-172** Topological Transformation of Coordination Polymer by Use of Ligand Exchange (Kyoto Univ.) UMEYAMA, Daiki; HORIKE, Satoshi; KITAGAWA, Susumu
- 1PB-173** Luminescence behavior of a triphenylmethane dye conjugated with zinc complexes (IIS, Univ.Tokyo) NAKAJIMA, Yuta; TAKEZAWA, Syunpei; YAMADA, Hiroka; YOSHIKAWA, Isao; ARAKI, Koji; MATSUMURA, Kazunari; HOUJOU, Hirohiko
- 1PB-174** Asymmetric thiolysis of epoxide catalysed by homochiral MOF (Kansai Univ.) YANAMOTO, Daisuke; TANAKA, Koichi
- 1PB-175** Optical resolution of DL-amino acids via ternary Cu(II) Complexes containing optically active amino acids or a histidine derivative (Kansai Univ.) KIMURA, Makiko; MATSUMOTO, Hiroshi; FUJITA, Shiori; YAJIMA, Tatsuo; SHIRAIWA, Tadashi
- 1PB-176** Properties of Dye-Sensitized Solar Cells with Coordination Polymers and its Particle-Size Dependencies (Kinki Univ.) TANAKA, Hideyuki; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PB-177** Theoretical study of the ground spin state of the RuIV=O(N4Py) complex (IMCE, Kyushu Univ.) TAKAHASHI, Shoya; ABE, Takafumi; SHIOTA, Yoshihito; KOJIMA, Takahiko; YOSHIZAWA, Kazunari
- 1PB-178** Development of the oxidation catalyst using ruthenium complexes (Tokyo Metropolitan Univ. Faculty of Urban Environmental Sciences) IKEJIRI, Kazuki; YAMAGUCHI, Motoo; SATO, Kiyoshi
- 1PB-179** Thermodynamic parameters for the formation of metal-imidazole complexes (Doshisha Univ., Faculty of Science and Engineering) ICHIMIYA, Yuuka; WATANABE, Kenji; KITAGISHI, Hiroaki; KANO, Koji
- 1PB-180** Specific Interaction of Metal Complexes with Lysozyme (I) Consideration of Association Behavior on the Basis of MM Calculations and ITC measurements (Univ. of Aichi Prefecture) TAURA, Toshiaki; MATSUURA, Makoto
- 1PB-181** Subcellular Localization of Organelle Specific Copper(I) Probes Based on a Reduced Fluorescein Platform (Kyoto Univ.) MITSUI, Koji; TAKI, Masayasu; YAMAMOTO, Yukio
- 1PB-182** Synthesis and property of N-confused corrole copper(III) complexes (Department of Chemistry and Biochemistry Graduate School of Engineering Kyushu Univ.) NODA, Katsuya; TOGANOH, Motoki; FURUTA, Hiroyuki
- 1PB-183<sup>#</sup>** Preparation of Bio-inspired Molecular Catalyst for O<sub>2</sub> Reduction (Kyushu Univ., Dept. of Chem.; Kyushu Univ., IMCE and I2CNER) NAGARAJU, Perumandla; LIU, Jing-gang; OHTA, Takehiro; NARUTA, Yoshinori
- 1PB-184** Preparation of Diiron Core Embedded within the Cavity of B-barrel Protein as Model of [FeFe] Hydrogenase Active Site (Osaka Univ.) KIHARA, Yoshihiko; ONODA, Akira; HAYASHI, Takashi
- 1PB-185** Effect of Amino Acid Residues on Ionization Potential of *Anabaena* PCC7119 Ferredoxin Active Site (Osaka Univ.) YASUDA, Natsumi; HATAKE, Hiroshi; KITAGAWA, Yasutaka; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka
- 1PB-186** Attempt to synthesis of six-coordinate iron(IV) porphyrinate. (School of Medicine, Toho Univ.) NIIBORI, Yuka; IKEZAKI, Akira; NAKAMURA, Mikio
- 1PB-187** Synthesis of Active Site Models of [NiFe] Hydrogenase from the Reactions of the Tetranuclear (CO)<sub>3</sub>Fe-Ni-Ni-Fe(CO)<sub>3</sub>Complex with <sup>1</sup>BuNC or Bulky Thiolates (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) MAKINO, Tetsuya; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1PB-188<sup>#</sup>** Reduced-State Models of the [NiFe] Hydrogenase Active Site: Dithiolate-bridged (Carbonyl)Fe(0)-Ni(II) / (Carbonyl/Cyano)Fe(II)-Ni(0) Dinuclear Complexes (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) LI, Zilong; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1PB-189** Reactions of [4Fe-4S] clusters having two tridentate thiolates with Fe and Nicomplexes: a model synthesis of CO dehydrogenase active site. (Sch. Sci. and Grad. Sch. Sci. and Res. Ctr. Mat.Sci, Nagoya Univ.) TANAKA, Kaho; NAKAMURA, Tomohiko; TERADA, Tamaki; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 1PB-190** Phosphodiester hydrolysis promoted by lanthanide ion and water-soluble crown ether ligands (Shibaura Institute of Technology) MIKAMI, Masafumi; MATUMURA, Kazunari; KASUYA, Yuzou
- 1PB-191** Synthesis of a cubane-type Mn<sub>4</sub>O<sub>4</sub> cluster by the reactions of Mn(II) alkoxide complexes with O<sub>2</sub> (School of Science and Research Center for Materials Science, Nagoya Univ.) ITOH, Takahiro; KOGAWA, Yumiko; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1PB-192** Synthesis of Cubane-Type [MoFe<sub>3</sub>S<sub>4</sub>] Clusters Bearing a Citrate or a Homocitrate on Molybdenum (Sch. Sci. and Grad Sch. Sci. and Res. Ctr. Mat. Sci., Nagoya Univ.) KAWASE, Genki; LI, Jichun; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1PB-193** Dinuclear Nickel Complexes Bridged by Diamido-dithiolate as Active Site Models of the Acetyl CoA Synthase. (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) OZAWA, Yuka; OANA, Ayaka; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 1PB-194** Synthesis and Interaction of Platinum(II) Complex Containing Azo-Groups with DNA (Kansai Univ.) OKA, Shogo; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 1PB-195** DNA-Binding Properties of Ruthenium(II) Complexes Capable of Hydrogen-Bonding (Kansai Univ.) IIZUKA, Naho; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 1PB-196** Syntheses and Properties of Dinuclear Ruthenium(II)-dmsO Complexes Directed toward Progress of Cell Membrane Permeability (Kansai Univ.) NAKAGAWA, Tomohiro; YAMADA, Takeshi; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 1PB-197** Synthesis and properties of a carbonic-anhydrase inhibitor having a tris(2,2'-bipyridine)ruthenium(II) complex modified with a viologen moiety (Nara Women's Univ., Faculty of Science) TSUJINO, Ayumi; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 1PB-198** Enzyme-inhibition properties of tris(2,2'-bipyridine)ruthenium(II) complex appending multiple binding sites for carbonic anhydrase (Nara Women's Univ., Faculty of Science) IMAMURA, Narumi; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 1PB-199** synthesis and DNA interaction of sugar linked Zn complexes containing naphthyl unit (Kansai Univ.; Kyoto Univ.; NAIST) FUKUDA, Hironobu; NAKAI, Misaki; YANO, Shigenobu; NAKABAYASHI, Yasuo
- 1PB-200** Synthesis and photophysical property of zinc-porphyrin appending a copper complex as an active-site model of nitrite reductase (Nara Women's University, Faculty of Science) YAMAZAKI, Nanami; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 1PB-201** Chiral separation of sulfoxides by HPLC column using chiral MOF as stationary phase (Kansai Univ.) MURAOKA, Toshihide; TANAKA, Koichi
- 1PB-202** Construction of high porous metal organic framework based on dehydrobenzo[12]annulene derivatives (Graduate School of Engineering, Osaka Univ.) YASUMIYA, Daisuke; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji

Sunday, March 25, PM

(15 : 00~16 : 30)

## Biofunctional Chemistry ; Biotechnology

## Molecular Recognition

- 1PC-001** Site-specific introduction of a reporter molecule into melocularly imprinted recognition sites. (Graduate School of Engineering, Kobe Univ.) OHTA, Takeo; SUNAYAMA, Hirobumi; OOYA, Tooru; TAKEUCHI, Toshifumi
- 1PC-002** Protein imprinting using a maleimide-type functional monomer (Graduate School of Engineering, Kobe Univ.) SUGA, Yusuke; SUNAYAMA, Hirobumi; OOYA, Tooru; TAKEUCHI, Toshifumi
- 1PC-003** Protein imprinting on a self-assembled monolayer by living radical polymerization (Graduate School of Engineering, Kobe Univ.) KAMON, Yuri; OOYA, Tooru; TAKEUCHI, Toshifumi
- 1PC-004** Interaction of N-methylpyridinium Schiff base dinuclear copper(II) complex with DNA (Faculty of Science and Engineering, Chuo Univ.) HARA, Kosuke; TAKAKITA, Shota; KITAMURA, Yusuke; CHIKIRA, Makoto
- 1PC-005** Evaluation of DNA binding affinity and cleaving activity under different conditions of cationic Schiff-base copper (II) binuclear complexes. (Faculty of Science and Engineering, Chuo Univ.) INABA, Hideyuki; SHI, Jian; TOJO, Midori; TAKAKITA, Shota; KITAMURA, Yusuke; CHIKIRA, Makoto
- 1PC-006** Synthesis of cationic Schiff base binuclear copper (II) complex and evaluation of DNA binding mode and the affinity (Faculty of Science and Engineering, Chuo Univ.) IDE, Yasushi; HARA, Yoshie; KITAMURA,

- Yusuke; CHIKIRA, Makoto
- 1PC-007** Immunosensing by immobilized antibody in organic/inorganic hybrid thin films (Graduate School of Engineering, Kobe Univ.) MURATA, Akiko; OOYA, Tooru; TAKEUCHI, Tshifumi
- 1PC-008** Interaction of a fluorescent molecule towards interiors of polyglycerol dendrimers with different generation (Graduate School of Engineering, Kobe Univ.) LEE, Haejoo; OOYA, Tooru; TAKEUCHI, Tshifumi
- 1PC-009** Synthesis of open circular polyamine copper (II) complexes and the interaction with DNA (Faculty of science and Engineering, Chuo Univ.) MORISHITA, Keisuke; ASAKA, Takahiro; KITAMURA, Yusuke; CHIKIRA, Makoto
- 1PC-010** Effect of the change in the ligand of a cyclic amine copper (II) complex on the interaction with DNA (Faculty of Science and Engineering, Chuo Univ.) ASAKA, Takahiro; MORISHITA, Keisuke; KITAMURA, Yusuke; CHIKIRA, Makoto
- 1PC-011** A facile strategy for the modification of photolabile protecting groups (Toho Univ.) SUZUKI, Akinobu Z; HAMAGUCHI, Tomomi; FURUTA, Toshiaki
- 1PC-012** Design and synthesis of new caged arachidonic acids (Toho Univ.) SHIRAIISHI, Yukiko; SUZUKI, Akinobu; FURUTA, Toshiaki
- 1PC-013** Synthesis and properties of 3-[(1-arylsulfanyl)ethyl] chlorins (Utsunomiya Univ.; Ritsumeikai Univ.; Nagahama Institute of bio-science and technology) OBA, Toru; MORIOKA, Misaki; ITO, Satoshi; YOSHIZATO, Mari; SASAKI, Shin-ichi; TAMIAMI, Hitoshi
- 1PC-014** Cell Adhesion by Lys-Based Supramolecular Hydrogel (Dept. Chem., Grad. Sch. Sci. and Eng., Saga Univ.) SUGA, Torao; OSADA, Satoshi; KODAMA, Hiroaki
- 1PC-015** Effect of side chain of cyclic tetrapeptide in ion channel formation (Dept. Chem., Grad. Sch. Sci. and Eng., Saga Univ.) ANAN, Yuua; SUGA, Torao; OSADA, Satoshi; KODAMA, Hiroaki
- 1PC-016** anion recognition properties of cyclodextrin derivatives (Yamagata Univ) KARUBE, Nobuyuki; ITO, Kazuaki
- 1PC-017** Synthesis and Properties of Cyclic and Acyclic Squaramide Derivatives (Yamagata Univ) MATSUKAWA, Naomi; ITO, Kazuaki
- 1PC-018** Chiral Anion Recognition of Squaramide Derivatives (Yamagata Univ) TANAKA, Noriko; ITO, Kazuaki
- 1PC-019** Synthesis of hematoporphyrin-platinum complex and singlet oxygen generation (Univ. of Yamanashi) MORI, Tomoyo; KOBAYASHI, Kazuki; SHINMORI, Hideyuki; OGWA, Kazuya
- 1PC-020** Examination of the molecular mechanism for the enhanced thermal stability of anthocyanin induced by metal cations and functional polysaccharides (Kobe Univ.) TACHIBANA, Noriko; KIMURA, Yukihiro; OHNO, Takashi
- 1PC-021** Evaluation of interaction of bidentate cationic Schiff base copper(II) complexes with DNA (Faculty of Science and Engineering, Chuo Univ.) YOSHIZAWA, Mai; HAINO, Kenji; KIMURA, Masato; KITAMURA, Yusuke; CHIKIRA, Makoto
- 1PC-022** Fluorescent properties of o-dialdehyde-substituted fluorophores and their applications to physiological analysis (Grad. Sch. Biomed. Sci., Instit. Biomat. Bioeng., Tokyo Med. Dent. Univ.) KOBAYASHI, Shusaku; KUBO, Haruko; KOIDE, Akiko; HIRANO, Tomoya; KAGECHIKA, Hiroyuki
- 1PC-023** Synthesis of solid support whose surface is modified with terminal alkyne via photocleavable linker (Toho Univ.) TAKAHASHI, Toshiki; KISHIMOTO, Toshihiko; WATANABE, Soichiro
- 1PC-024** The synthesis of a coumarin derivative by cross coupling reaction that causes red shift in UV absorption. (Toho Univ.) KAMIMURA, Yasuhiro; WATANABE, Soichiro
- 1PC-025** Fluorescent response of 1,4,7-triazacyclononane-based quinoline derivatives toward zinc ion. (Fac.Sci.and KYOUSEI Science center, Nara Women's Univ.) NODOMI, Yuki; MIKATA, Yuji
- 1PC-026** Synthesis and Photocytotoxicity of PEGylated fluorophenylporphyrin derivatives (Nara Institute of Science and Technology;Univ. of Yamanashi) YASUI, Nobutaka; HIROHARA, Shiho; KAWAI, Tsuyoshi; OBATA, Makoto; ANDO, Tsuyoshi; TERADA, Kayo; TANIHARA, Masao
- 1PC-027** Synthesis and photocytotoxicity of O-Glucosylated fluorophenylporphyrin derivatives (Nara Institute of Science and Technology;Univ. of Yamanashi) YASUI, Nobutaka; HIROHARA, Shiho; KAWAI, Tsuyoshi; OBATA, Makoto; ANDO, Tsuyoshi; TERADA, Kayo; TANIHARA, Masao
- 1PC-028** Synthesis and Characterization of Water Soluble Cyclophane Dimmer Having a Disulfide Moiety (Fukuoka Univ., Graduate School of Science) ICHIMURA, Kazuaki; NAKASHIMA, Tomomi; HAYASHIDA, Osamu
- 1PC-029** Synthesis of Water-soluble Cyclophane Bearing a Ni-NTA Moiety as a Host Molecule (Fukuoka Univ., Faculty of Science) YASUNAGA, Terutaka; HAYASHIDA, Osamu
- 1PC-030** Preparation and Cellular Uptake of Cationic Cyclophanes Bearing Guanidyl Groups (Fukuoka Univ., Faculty of Science) MIYAHARA, Naoya; KIMURA, Keiichiro; HAYASHIDA, Osamu
- 1PC-031** Synthesis and Characterization of Cyclophane Derivatives Having Choline Moieties as a Tag for Choline Receptors (Fukuoka Univ., Faculty of Science) SATO, Daisuke; NAKAMURA, Yuki; ICHIMURA, Kazuaki; NAKASHIMA, Tomomi; HAYASHIDA, Osamu
- 1PC-032** Preparation of lipophilic spin trap reagent CYPMPPO derivatives and ESR spectrum of their spin adducts (Hokkaido Univ. of Edu.; NFRI)
- AZUMAYA, Hiroyuki; KAMEYA, Hiromi; UKAI, Mitsuko; NAKAMURA, Hideo
- 1PC-033** Synthesis and Photo-Induced Electron Transfer of Ruthenium-Peptide Complexes Attached to Electron Donor and Acceptor (Kitasato Univ.; PRESTO JST) SHIINA, Yoshimi; KURAMOCHI, Yusuke; USHIDA, Kiminori; ISHIDA, Hitoshi
- 1PC-034** Substituent Effects on Optical- and Electrochemical Properties of Chlorophyll Derivatives (Ryukoku Univ.) MIYATAKE, Tomohiro; HIEDA, Masato; KASUNO, Megumi
- 1PC-035** Synthesis of Various Chlorophyllous Pigments and Their Complexion with Polypeptides. (Ryukoku Univ.) MIYATAKE, Tomohiro; WATANABE, Mikiya; MUKAI, Yumi
- 1PC-036** Sonication Effect on Self-Aggregation of Zinc 3-(1-Hydroxyethyl)-Chlorins (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; SHIMIZU, Tomohiro; HIRAI, Ryoji; TAMIAMI, Hitoshi

## Nucleic Acids

- 1PC-037** Electrochemical Signal Modulation in Homogeneous Solutions Using the Formation of an Inclusion Complex between Ferrocene and  $\beta$ -Cyclodextrin on a DNA Scaffold (Kumamoto Univ.) IHARA, Toshihiro; NAKATAKE, Ryuta; WASANO, Tsugutoshi; ARSLAN, Pelin; KITAMURA, Yusuke; JYO, Akinori
- 1PC-038** Rational design of nucleobase recognition on DNA scaffold (Department of Applied Chemistry and Biochemistry, Graduate School of Science and Technology, Kumamoto Univ.) FUTAMURA, Akira; IMOTO, Takeshi; KITAMURA, Yusuke; JYO, Akinori; NISHIZAWA, Seiichi; SATO, Yusuke; TERAMAE, Norio; IHARA, Toshihiro
- 1PC-039** Construction of Electron Relay System Using Nucleic Acids: Synthesis of DNA Conjugates Possesing Porphyrin and Ferrocene Units (Univ. of Hyogo) UMEMOTO, Ryo; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 1PC-040** Excess Electron Transfer in DNA/RNA chimeras and effects of mismatched base pairs (Univ. of Hyogo) TAKAMATSU, Yuta; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 1PC-041** Specific Binding of Cationic Porphyrins to Artificial Hydrophobic Cavities in DNA (Univ. of Hyogo) SHIMOGAKI, Nao; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 1PC-042** Molecular Organization on DNA by Using Uracil DNA Glycosylase (Univ. of Hyogo) ASHIDA, Akane; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 1PC-043** A method for detecting G-quadruplex in long-strand DNA (Faculty of Medicine, Univ. of Miyazaki) YANG, Jie; XU, Yan
- 1PC-044** The development of an ethenocytosine-forming reaction using 2-phenylfuran-conjugated oligodeoxyribonucleotides and its applications in SNPs detection. (Kyoto Inst. of Tech.) KAKUTANI, Keita; YAMAYOSHI, Asako; MURAKAMI, Akira; KOBORI, Akio
- 1PC-045** Development of a ribonucleoprotein(RNP) sensing system with bispyrene-modified 2'-OMeRNA probes (Kyoto Inst. of Tech.) MURAKAMI, Akira; UTSUMI, Natsuki; TASAKI, Kazuhiko; YAMAYOSHI, Asako; KOBORI, Akio
- 1PC-046** Exploration of binding motifs of small organic ligands and mutagenic nucleosides in DNA duplex (Kyoto inst. of Tech.) YAMAMOTO, Isao; KOBORI, Akio; YAMAYOSHI, Asako; MURAKAMI, Akira
- 1PC-047** Intracellular Delivery and Gene Silencing by Functional Fusion of Peptides and Nucleic Acids (Univ. of Kinki) FUJIAKI, Shutaro; FUJII, Masayuki
- 1PC-048** Interaction analysis of ATP aptamer with ATP using quartz crystal microbalance (QCM) (Kyushu Institute of Technology) KOGA, Taichi; SATOU, Shinobu; TAKENAKA, Shigeori
- 1PC-049** Cleavage activity of 8-17DNAzyme in the presence of several metal chelators (Kumamoto Univ.; Chuo Univ.) KITAMURA, Yusuke; YAMAMOTO, Asuka; TANAKA, Takeshi; IHARA, Toshihiro; CHIKIRA, Makoto
- 1PC-050** Post-synthetic modification of short oligonucleotides and their application to the synthesis of modified siRNAs (Gunma Univ., Graduate School of Engineering) KIMURA, Shingo; MASUDA, Tomokazu; OZAKI, Hiroaki
- 1PC-051** Synthesis of a novel DNA strand break detecting probe using BODIPY-modified deoxycytidine. (Kanagawa Institute of Technology) TSUJI, Akito; TAKAMURA, Takeji
- 1PC-052** Synthesis of oligonucleotides carrying bio-degradable long alkyl chains (Kanagawa Univ.) MITA, Akihiro; SAGAWA, Naoki; OKAMOTO, Itaru; ONO, Akira
- 1PC-053** Development of a prodrug-type oligonucleotides having enzyme degradable protection groups. (Kanagawa Univ.) SAGAWA, Naoki; TOMORI, Takahito; OKAMOTO, Itaru; ONO, Akira
- 1PC-054** Synthesis of short oligonucleotides with enzyme degradable protecting groups (Kanagawa Univ.) TOMORI, Takahito; SAGAWA, Naoki; OKAMOTO, Itaru; ONO, Akira
- 1PC-055** Synthesis and properties of thymine dimer connected by a linker group (Kanagawa Univ.) TAKASAKI, Syunnichi; YABE, Hiroyuki; OKAMOTO, Itaru; ONO, Akira
- 1PC-056** Binding of Hg(II) ions by a polymer carrying uracil residues.

- (Kanagawa Univ.) YABE, Hiroyuki; OKAMOTO, Itaru; ONO, Akira
- 1PC-057** Preparation of short DNA duplexes carrying metal ion binding side chains. (Kanagawa Univ.) ARAKAWA, Kaoru; OKAMOTO, Itaru; ONO, Akira
- 1PC-058** Development of a novel RNA detecting probe having a boronic acid group (Kanagawa Univ.) OHNO, Kentaro; ONO, Akira; OKAMOTO, Itaru
- 1PC-059<sup>#</sup>** Synthesis and properties of novel amphiphilic DNA containing oligo (ethylene glycol)dodecyl groups (ISIR, Osaka Univ.) SONG, Jin; MAKISHI, Shingo; SHIBATA, Tomonori; DOHNO, Chikara; NAKATANI, Kazuhiko
- 1PC-060** Design and Synthesis of small Molecules for binding RNA Secondary Structures (ISIR, Osaka Univ.) FUKUZUMI, Takeo; MURATA, Asako; HARADA, Yasue; NAKATANI, Kazuhiko
- 1PC-061** Synthesis and properties of a modified siRNA having a photo-removable MeNP group at the O<sup>6</sup> position of guanine (Teikyo Univ. Sci.) IWASE, Reiko; OBATA, Keiko; IJIMA, Rie
- 1PC-062** Development of a method for the detection of target nucleotides using aptamers which bind a solvatochromic fluorophore. (Tokyo Univ. of Technol.) TADA, Maiko; KATO, Teru
- 1PC-063** Development of a new approach for the synthesis of morpholino nucleic acids using phosphoramidite derivatives (Tokyo Institute of Technology) HARAKAWA, Taro; ISHII, Akihiro; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 1PC-064** Reactivities of the 6-amino groups of various 9-substituted adenine derivatives (Tokyo Institute of Technology, Life Science) SATO, Yuta; MATSUKI, Shigeki; KANAMORI, Takashi; TSUNODA, Hirotsuke; OKUBO, Akihiro; SEKINE, Mitsukio; SEIO, Kouji
- 1PC-065** Synthesis and Short-RNA selective binding of oligodeoxynucleotides having 5'-terminal modification and bridged phosphate backbone (TITech) IJIMA, Yoshihiro; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji
- 1PC-066** synthesis and evaluation of PNA oligomers with a cross-link forming base (Tohoku Univ. Institute of Multidisciplinary Research for Advanced Materials) ISHIZAWA, Yuki; SASAKI, Kaname; HAGIHARA, Shinya; NAGATSUGI, Fumi
- 1PC-067** Studies on dynamics of G-Quadruplex formation triggered by high salt concentration by time-resolved CD measurement. (IMRAM, Tohoku Univ.) HAMADA, Yoshiki; MURAKAMI, Makoto; ARAKI, Yasuyuki; SAKAMOTO, Seiji; WADA, Takehiko
- 1PC-068** Interaction between DNA and photoionized Malachite Green polymer (Nara National College of Technology) OHSHITA, Minami; UDA, Ryoko
- 1PC-069** Facile Synthesis of Cyclic Bis(3'-5')diadenylic Acid (Nagoya Univ.) SUZUKI, Noritaka; OYAMA, Kin-ichi; TSUKAMOTO, Masaki
- 1PC-070** Excess electron transfer in pyrene conjugated DNA. (Suzuka Univ. of Medical Sciences; Kyoto Univ.) TASHIRO, Ryu; OHOTUKI, Akimichi; SUGIYAMA, Hiroshi

## Proteins

- 1PC-071** Influence of Novel Peptidomimetics with a Phenylthio Group on Amyloid-Beta Production and Their Biotinylation (Iwate Medical Univ.; Iwate Univ.) KAWANO, Tomikazu; NAGASAWA, Haruka; OGAWA, Satoshi
- 1PC-072** Functions of the fluctuated amino acids on the surface of heme oxygenase when binds to heme (Kurume Univ. Sch. of Med.; Suntory Found. for Life Sci.; Osaka Univ.) HARADA, Jiro; HARADA, Erisa; HIGASHIMOTO, Yuichiro; SUGISHIMA, Masakazu; SATO, Hideaki; TAIRA, Junichi; FUKUYAMA, Keiichi; SUGASE, Kenji; NOGUCHI, Masato
- 1PC-073** The enhancement of protein expression in E.coli by co-expression with LEA-like peptide (Kyushu Institute of Technology LSSE) UCHIDA, Nana; IKENO, Shinya; HARUYAMA, Tetsuya
- 1PC-074** Preparation and Antigenic Properties of Nano-Encapsulated Synthetic Antigen from Plasmodium falciparum (Gunma Univ.) SATO, Shota; OKU, Hiroyuki; OSAWA, Aoi; FUKUNO, Mai; YAMADA, Keiichi; YANO, Kazuhiko; KANO, Shigeyuki
- 1PC-075** Development of Liposomes Having Ganglioside-binding Peptides and Intracellular Delivery of Oligonucleotides (Keio Univ.) AOYAMA, Yuka; KIM, Jiyeong; MATSUBARA, Teruhiko; SATO, Toshinori
- 1PC-076** Molecular Evolution of Ganglioside GM1 binding Peptides using a Phage Display Method (Keio Univ.) NISHIHARA, Masaya; KATOU, Hiroki; MATSUBARA, Teruhiko; SATO, Toshinori
- 1PC-077** Role of ion pairs on activity and thermostability in a thermophilic serine protease (Kogakuin Univ.) OSAKU, Kanae; SAKAGUCHI, Masayoshi; SUGAHARA, Yasusato; OYAMA, Fumitaka; KAWAKITA, Masao
- 1PC-078** Production of acidic mammalian chitinase in *Escherichia coli* and characterization of its properties (Univ. of Kogakuin) KASHIMURA, Akinori; KOTARO, Ishikawa; SEKINE, Kazutaka; KIDA, Yuuta; SAKAGUCHI, Masayoshi; SUGAHARA, Yasusato; OYAMA, Fumitaka
- 1PC-079** Synthesis and inhibitory activity of EcPDF inhibitors derived from bacterial origin peptide (Grad. Sch. of Eng., Saga Univ.) OKITANI, Marie; HAYASHI, Ryo; KITAMURA, Hiromi; JONO, Tatsuhiro; TAIRA, Junichi; HIGASHIMOTO, Yuichiro; OSADA, Satoshi; KODAMA, Hiroaki
- 1PC-080** Dual-targeting protection of thiol based HDAC inhibitor (Grad. Sch. of Eng., Saga Univ.) YAMASHITA, Ayumi; OSADA, Satoshi; KODAMA, Hiroaki; SAKAMOTO, Hitomi
- 1PC-081** Construction and Physicochemical Property of Hemoprotein Assembling System with a Photoresponsive Linker (Osaka Univ.) ONUMA, Yoshitaka; OOHORA, Koji; ONODA, Akira; HAYASHI, Takashi
- 1PC-082** Synthetic studies of FRET-sensitive polymeric substrate for proteases (Saitama Univ.) SUZUKI, Yuya; KOYAMA, Tetsuo; HATANNO, Ken; MATUOKA, Koji
- 1PC-083** Binding Force Measurement of Polysaccharide-Degrading Enzyme (National Institute of Advanced Industrial Science and Technology) FUKUDA, Masato; KIKKAWA, Yoshihiro; KANESATO, Masatoshi; KASHIWADA, Ayumi; MATSUDA, Kiyomi; WADA, Masahisa; IMANAKA, Tadayuki; TANAKA, Takeshi
- 1PC-084** Role of a Highly Conserved Site of *Escherichia coli* Dihydrofolate Reductase in Its Function and Stability (AIST) YOKOTA, Akiko
- 1PC-085<sup>#</sup>** Development of the Method of Reasonably Designing Antibody (Inst. of Med. Sci., Univ. of Tokyo) KIYOSHI, Masato; OKAMOTO, Mio; NAKAKIDO, Makoto; SOGA, Shinji; SIRAI, Hiroki; KAWABATA, Shigeki; NAKAMURA, Haruki; TSUMOTO, Kouhei
- 1PC-086** Design and Synthesis of Selective Inhibitors of Dinuclear Zinc(II) Peptidase (Tokyo Univ. of Science) KOBAYASHI, Kouya; HANAYA, Kengo; MIZUSEDA, Yuki; KUROSAKI, Hiromasa; ARIYASU, Shinya; AOKI, Shin
- 1PC-087** Core-streptavidin fusion antibody for pretargeting drug delivery (Med. Genome Sci., Frontier Sci., Univ. of Tokyo) YUMURA, Kyohei; UI, Mihoko; OKAMOTO, Mio; DOI, Hirohumi; SUGIYAMA, Akira; HAMAKUBO, Takao; KODAMA, Tatsuhiro; TSUMOTO, Kouhei
- 1PC-088** Design of a Sensing System for Caspase Activities Using Split-Proteins-2 (IMRAM, Tohoku Univ.) TAKI, Shusaku; SAKAMOTO, Seiji; ARAKI, Yasuyuki; WADA, Takehiko
- 1PC-089** Redox Behavior of Cyclodextrin/Metalloporphyrin Supramolecular Complexes (Doshisha Univ., Faculty of Science and Engineering) ONAMI, Tsuyoshi; YAMAGAMI, Kaori; OKABE, Takashi; KITAGISHI, Hiroaki; KANO, Koji
- 1PC-090** Structural analysis of supramolecular myoglobin models in aqueous solution by NMR. (Doshisha Univ., Faculty of Science and Engineering) AOKI, Masumi; KITAGISHI, Hiroaki; KANO, Koji
- 1PC-091** Evaluation of L-tryptophan recognition ability by the human serum albumin immobilized gels (College of Ind. Tech., Nihon Univ.) NAKAMURA, Keisuke; TAKAHASHI, Daisuke; IZUMI, Tsuyoshi
- 1PC-092** Characterization of N-isopropylacrylamide / 2-methacryloyloxyethyl phosphorylcholine copolymer gel beads (College of Ind. Tech., Nihon Univ.) KUWABARA, Taketomo; TAKAHASHI, Daisuke; IZUMI, Tsuyoshi
- 1PC-093** Evaluation of the Adsorption ability of Lysozyme of Recognition Acrylamide Gel (College of Ind. Tech., Nihon Univ.) YOSHIDA, Takaaki; TAKAHASHI, Daisuke; IZUMI, Tsuyoshi
- 1PC-094** GdnHCl-induced Unfold State of  $\alpha$ -Proteins (Nat. Def. Acad) TAKEKIYO, Takahiro; NIHEI, Azusa; OMATA, Tomoya; YAMAZAKI, Kumiko; ABE, Hiroshi; YOSHIMURA, Yukihiko
- 1PC-095** Computational Alanine Scanning of Zinc-Finger Proteins: a Molecular Dynamics Examination (Kitasato Univ.) UENO-NOTO, Kaori; MORI, Hirotsushi
- 1PC-096** Extraction of membrane proteins using peptide-based gemini surfactants (Grad. School Eng., Nagoya Inst. Tech.) KOEDA, Shuhei; MIZUNO, Toshihisa; UMEZAKI, Katsunari; SAKAI, Shunsuke; KONDO, Masaharu; YAMAMOTO, Yasushi; TAGA, Keiji; DEWA, Takehisa; TANAKA, Tosiki
- 1PC-097** Preparation and characterization of green fluorescent protein-poly(2-vinylpyridine) conjugates (Grad. School Eng., Nagoya Inst. Tech.) OKIYAMA, Naoya; MIZUNO, Toshihisa; SAKAI, Shunsuke; KONDO, Masaharu; DEWA, Takehisa; OKU, Jun-ichi; TANAKA, Tosiki
- 1PC-098** Reaction of 3Fe-4S cluster involved in nitrogenase transcriptional regulator VnfA with Nitric Oxide (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) MIURA, Yukio; YOSHIMITSU, Kyohei; NAKAJIMA, Hiroshi; WATANABE, Yoshihito
- 1PC-099** Crystallization Screening of Xylanase with Zeolites (RIKEN) SUGAHARA, Michihiro; KUNISHIMA, Naoki

## Sugar

- 1PC-100** LC/MS High throughput analysis of glycan structures using an oligosaccharide library obtained by saccharide primer method. (Keio Univ.) HIRAI, Miwa; SATO, Toshinori
- 1PC-101** Development of Glycosaminoglycan Saccharide Library by Saccharide primer and Decision of its Structure. (Keio Univ.) SUZUKI, Takaharu; SIBA, Keisuke; SATO, Toshinori
- 1PC-102** Analyses of the Interaction between Influenza Viruses and Glycans Obtained by Saccharide Primer Method (Keio Univ.) HISAI, Tomoko; TAKAHASHI, Yoshihisa; SATO, Toshinori
- 1PC-103** Development of GMI-containing biomembrane models to analyze the mechanism on amyloid beta assembly (Keio Univ.) FUKUDA, Ryoto; KOJIMA, Takahiro; MATSUBARA, Teruhiko; YAMAMOTO, Naoki

YANAGISAWA, Katsuhiko; SATO, Toshinori

- 1PC-104** Immobilization of Fluorous Oligosaccharide Recognized by Influenza Virus on Polytetrafluoroethylene Filter (Lab. of Glyco-org., The Noguchi Inst.; Inst. Ind. Sci., Univ. of Tokyo; Facul. of Med., Univ. of Tsukuba) MIZUNO, Mamoru; TOJINO, Mami; MORI, Masako; KASUYA, Maria Carmelita; HATANAKA, Kenichi; KAWAGUCHI, Atsushi; NAGATA, Kyosuke
- 1PC-105** Tosylated and azidated inulins as key substrates for further chemical modifications to access inulin-based advanced biomaterials: an inulin-based glycocluster (Toyo Univ.) IZAWA, Kazumi; AKIYAMA, Kento; HASEGAWA, Teruaki
- 1PC-106** Synthesis of 2x2-type cluster compound having GlcNAcs and biotins (Saitama Univ.; Department of Functional Materials Science, Faculty of Engineering) KOEDA, Saori; TSUCHIBUCHI, Koji; SUZUKI, Miho; KOYAMA, Tetsuo; HATANO, Ken; MATSUOKA, Koji
- 1PC-107** Studies on the synthesis of Fuc  $\alpha$  (1-3) GlcNAc (Saitama Univ.) SASAKI, Takayuki; KOYAMA, Tetsuo; HATANO, Ken; MATSUOKA, Koji
- 1PC-108<sup>#</sup>** A convenient method for the introduction of ethylene linker to carbohydrates by using oxy-Michael addition (Grad. Sch. of Biosci. and Biotech., Tokyo Tech.) BAI, Lina; SHIMOYAMA, Atsushi; YUASA, Hideya
- 1PC-109** Syntheses of Ruthenium-Glycoclusters Controlling Linker Length (Tokyo Univ. of Technology) IMAIZUMI, Ryuichi; OKADA, Tomoko; MINOURA, Norihiko
- 1PC-110** Convenient Synthesis of Mercaptoalkyl Glycosides Containing a Ferrocenyl Group (Biomedical Research Institute, AIST) MURAKAMI, Teichi; SATO, Yukari; YOSHIOKA, Kyoko; SHIBAKAMI, Motonari
- 1PC-111** Self-assembling properties of semi-artificial curdlan derivatives (Sojo Univ.) MATHUDA, Sayaka; TAMARU, Shun-ichi; SHINKAI, Seiji; HORI, Kaori
- 1PC-112** Structural Analyses of Artificial Glycopeptides Containing Collagen Peptide (Tokyo Univ. of Technology) EZAKI, Sumiyo; ISOBE, Chika; OKADA, Tomoko; MINOURA, Norihiko
- 1PC-113** NMR Study of Correlation of Glucose and Water (Keio Univ.) MATSUO, Goh; WATANABE, Yasuho; KUDOH, Sho; MIURA, Azusa; SOGA, Tomoyoshi; TOMITA, Masaru
- 1PC-114** Synthesis of molecular devices using hinge sugar (Tokyo Institute of Technology) FUKUDA, Sumito; TAKEUCHI, Junji; SHIMOYAMA, Atsushi; YUASA, Hideya

## Lipid

- 1PC-115** Effects of Biological Molecules on the Physicochemical and Biological Behaviors of Lipopolysaccharide and Lipid A (National Institute for Advanced Industrial Science and Technology; Univ. clinic Jena; Research Center Borstel; European Molecular Biology Laboratory) FUKUOKA, Satoshi; RICHTER, Walter; HOWE, Joerg; ANDRAE, Joerg; ROESSLE, Manfred; ALEXANDER, Christian; GUTSMANN, Thomas; BRANDENBURG, Klaus
- 1PC-116** Construction of a cholesterol-synthesizing yeast for expression of human membrane proteins. (Tokyo Institute of Technology Graduate school of Bioscience and Biotechnology) NACHI, Mizuki; HONDA, Tsuyoshi; OURA, Takahiro; ERWIN, Lamping; RECHARD, D.Cannon; KAJIWARA, Susumu
- 1PC-117** Formation of lipid nanodiscs with organic-inorganic hybrid structure and their structure control (Grad. Sch. Mater. Sci., Nara Inst. Sci. Technol.) HAYASHI, Hiroki; KITAZATO, Shingo; YASUHARA, Kazuma; KIKUCHI, Jun-ichi
- 1PC-118** Semipermeable property of organic-inorganic hybrid vesicle 'Cerasome' (Grad. Sch. Mater. Sci., Nara Inst. Sci. and Technol.) OKUDA, Shizuyo; OSHIMA, Shohei; YASUHARA, Kazuma; KIKUCHI, Jun-ichi

## Cell

- 1PC-119** Development of a protein labeling method based on PYP-tag and novel cinnamic acid-type probes and no-wash live cell imaging (Graduate School of Engineering, Osaka Univ.) HORI, Yuichiro; NAKAKI, Kyohei; SATO, Motoki; KIKUCHI, Kazuya
- 1PC-120** Three-dimensional culture of human hepatocellular carcinoma-derived FLC-5 cells on non-woven fabrics coated with silk proteins and hydroxyapatite (Natl. Inst. of Agrobiological Sciences; BioFuture Technologies Ltd.; The Jikei Univ. School of Medicine; Natl. Inst. of Health Sciences) GOTOH, Yohko; ISHIZUKA, Yasuyuki; MATSUURA, Tomokazu; NIIMI, Shingo

## Bioinformatics

- 1PC-121** Effect of linker structure of bis-PNA on its triplex formation with single strand DNA. (ISIR, Osaka Univ.) SAWADA, Shinjiro; KAIHATSU, Kunihiko; KATO, Nobuo

## Biotechnology

- 1PC-122** Photo-induced Antibacterial activity of xanthene dyes as photosensitizers (Okayama Univ. of Sci.) MAITA, Mami; ADACHI, Yasuki;

KATAYAMA, Sei-ichi; INOGUCHI, Masahiko; ODO, Junichi

- 1PC-123** Mechanism of amyloid fibril formation of ovalbumin for the property control of protein gel. (Kyoto Institute of Technology) TAMURA, Yuji; MORIMOTO, Yumi; KAWACHI, Yuki; WAKU, Tomonori; KUNUGI, Shigeru; TANAKA, Naoki
- 1PC-124** Selection of DNA aptamers to somatostatin and its application to bio-sensing (Kobe Univ.) OGINO, Chiaki; AMINO, Tomokazu; MIYACHI, Yusuke; KONDO, Akihiko
- 1PC-125** Rapid identification of the specific gene in *Bacillus cereus* on the Compact Disk (CD)-shaped device for cell isolation (Soka Univ.) ARAI, Kazuyuki; FURUTANI, Shunsuke; IWASHITA, Kayoko; AOYAMA, Yuri; KUBO, Izumi
- 1PC-126** Design of transcriptional regulators towards monitoring of intracellular glycation. (Tokyo Univ. of Technology) MIKAMI, Akane; KUDOU, Kaoru; AYANO, Kouichi; YAMAZAKI, Tomohiko; KARUBE, Isao
- 1PC-127** Examination of reaction conditions in luminol chemiluminescence detection of amino acids (Hiroshima City Univ.) KUGIMIYA, Akimitsu; HAMAOKA, Toshinobu; FUKADA, Rie
- 1PC-128** Examination of Absorbance Measurement of Glutamine using Enzyme Reaction (Hiroshima City Univ.) FUNAMOTO, Daiki; KUGIMIYA, Akimitsu

## Medical

- 1PC-129** The investigation of the effect of fenitrothion and the metabolite on the organism. (Biomed. Res. Cent., Div. Anal. Sci., Saitama Med. Univ.) SAKAMOTO, Yasushi; HIROSAWA, Narumi; SUZUKI, Yuko; UEMURA, Yasushi

## Biocatalysis

- 1PC-130** Lipase-catalyzed optical resolution of boron-cluster-containing secondary alcohols (Grad. Sch. Biomed. Sci., Instit. Biomat. Bioeng., Tokyo Med. Dent. Univ.) TAKAGAKI, Ryohei; MORI, Shuichi; KAGECHIKA, Hiroyuki
- 1PC-131** Synthesis of Theogallin Derivatives with Pancreatic Lipase Inhibitory Activity (Graduate School of Science, Osaka Prefecture Univ.) IHAYA, Kota; USA, Ryosuke; KOJIMA, Hideo
- 1PC-132** Dynamic Kinetic Resolution by Lipases in Flow Systems (Graduate School of Science, Osaka Prefecture Univ.) MATSUMOTO, Yohei; SATO, Masaaki; KOJIMA, Hideo
- 1PC-133** Direct Observation of Proton Transfer and Key Residues-Mn complexation during the reaction of ADP-Ribose Pyrophosphatase (Osaka City Univ.) FURUIKE, Yoshihiko; AKITA, Yuka; MIYAHARA, Ikuko; KAMIYA, Nobuo
- 1PC-134** Studies on Preparation of Compounds with Chiral Silicon Center by Enzymatic Reactions (Okayama Univ. of Sci.) SAKAMOTO, Mariko; NAKATANI, Kazuhiro; MARUI, Rumi; YAMAMOTO, Toru; KUBOKI, Atsuhito; OHIRA, Susumu
- 1PC-135** Overexpression, purification and characterization of novel acetophenone reductase from *Geotrichum candidum* NBRC 4597 (Tokyo Institute of Technology) YAMAMOTO, Takuro; NAKATA, Yasuo; CAO, Chen; MATSUDA, Tomoko
- 1PC-136** Oxidation of 1,5-bis(hydroxymethyl)tritycene by a soil bacterium *Pseudomonas nitroreducens* (Tokyo University of Science, Department of Chemistry, Faculty of Science, Graduate School of Science) NISHIMURA, Shinosuke; KITAOKA, Tsukasa; TAKEMURA, Tetsuo
- 1PC-137** Asymmetric reduction of acetophenone derivatives by chlorella or cyanobacterium (College of Science and Technology, Nihon Univ.) KAKIMOTO, Tsuyoshi; ITOH, Ken-ichi; MATSUBA, Ryusuke; AOYAMA, Tadashi; MURAKAMI, Masahiko; YAMANAKA, Rio; MURANAKA, Toshiya; SAKAMAKI, Hiroshi; NAKAMURA, Kaoru; TAKIDO, Toshio
- 1PC-138** Studies on Effects of an Addition of Albumins to an Enzymatic Hydrolysis of Enol Esters (Meisei Univ.) MATSUMOTO, Kazutsugu; AKASAKA, Takuro; SATO, Hiroyasu
- 1PC-139** Syntheses of optically active heterocyclic compounds via enzyme-mediated hydrolysis of 1,2-diol monotosylate derivatives (Meisei Univ.) OKABE, Hirokazu; HASHIMOTO, Manabu; MATSUMOTO, Kazutsugu

## Others

- 1PC-140** Recognition and Sensing of Fluorous Compounds with Molecularly Imprinted Polymers (FIRST, Konan Univ.) YUMA, Nakahori; SAKURAI, Takeshi; NAKAGAWA, Yuichi; MATSUI, Jun
- 1PC-141** Search for the receptor of self defense toxin climacostol (Yonago National College of Technology) NOJIMA, Yukiko; OOTANI, Kyoko; URUMA, Yoshiyuki; FUJII, Yuzo; TAHARA, Mari; MURATA, Wakae; USUKI, Yoshinosuke; IIO, Hideo
- 1PC-142** Synthetic Studies on self defense toxin of keronopsin (Yonago National College of Technology materials science) HYOUE, Shun'ichi; SHIMOZAKI, Yasuhiro; URUMA, Yoshiyuki; USUKI, Yoshinosuke; IIO, Hideo
- 1PC-143** Synthesis of psoralen linked fullerene and its evaluation as a photodynamic therapy reagent. (Univ. of Kanagawa Inst of Technol)

- HASHIMOTO, Akiko; TAKAMURA, Takeji  
**1PC-144** Sake-brewing method using oligosaccharide mixture. (Tokyo Univ. of Technology; Food tech lab) SHIGENO, Masaki; YAMASITA, Takasi  
**1PC-145** Finding a new enzyme for soy-milk clotting (Tokyo Univ. of Technology Graduate School of Bionics, Computer and Media Sciences Bionics; Food tech lab) ITO, Takashi; YAMASHITA, Takashi  
**1PC-146** Proteomics at the time of making lactic acid bacteria and acetic acid bacteria symbiose (Tokyo Univ. of Technology food tec lab AIST) OBARA, Hikaru; KINOSHITA, Nao; YOKOYAMA, Kenji; YAMASHITA, Takashi  
**1PC-147** Development of a new photoaffinity labeling system using two types of probes. (Tokyo Univ. of Agriculture and Technology) INOUE, Mai; SAKURAI, Kaori; OKADA, Ayumi; TAWA, Masaki; YAMADA, Rika

## Energy and Related Chemistry

- 1PC-149** Development of Inverted Organic Thin-Film Solar Cells Using Niobium Oxide as Electron Collection Layer (Kyushu Institute of Technology) HAMADA, Keisuke; MURAKAMI, Naoya; OHNO, Teruhisa  
**1PC-150** Fabrication of Organic Thin-Film Solar Cells Using Metal Oxide as HoleTransport Layer (Kyushu Institute of Technology) MURAKAMI, Daiki; MURAKAMI, Naoya; OHNO, Teruhisa  
**1PC-151** Electrochemical Formation of Metal Oxide Films for Block Layer of Organic Photovoltaic Cells (OMTRI; Osaka Electro. Commun. Univ.) NAKAMURA, Yuji; WATANABE, Mitsuru; MATSUMOTO, Fukashi; SHINAGAWA, Tsutomu; MORIWAKI, Kazuyuki; WATASE, Seiji; TIGANE, Masaya; TAMAI, Toshiyuki; OHNO, Toshinobu; NISHIOKA, Noboru; MATSUKAWA, Kimihiro  
**1PC-152** Study of the dye-sensitized solar cell with carbon nanoshell as a counter electrode material (Tokyo City Univ.; Energy functional material chemistry Lab.) ISHIZAKI, Tomoyuki; TAKAHASHI, Mashashi; KOBAYASHI, Koichi  
**1PC-153** Application and fabrication of electro polymerized PEDOT-CIO<sub>4</sub> on metal plate for dye-sensitized solar cells (Tokyo City Univ.; Energy functional material chemistry Lab.) SAKURAI, Sho; TAKAHASHI, Masashi; KOBAYASHI, Koichi  
**1PC-154** Protionic phosphonium ionic liquids as electrolytes of dye sensitized solar cells. (Tokai Univ.;Nippon Chemical Industrial Co. Ltd.;Wakayama Nat. Coll. Tech.) TAKASHIMA, Asako; OSAO, Keiko; KODAMA, Syun; SUGIYA, Masashi; TSUNASHIMA, Katsuhiko; KUNUGI, Yoshihito  
**1PC-155** Effects of the structures of perylene derivatives on DSSC properties (CST, Nihon Univ.) TAKAHASHI, Daichi; OTSUKI, Joe; ISLAM, Ashraf; HAN, Liyuan  
**1PC-156** Dye-Sensitized Solar Cells with beta-Modified Porphyrin Dyes. (The Univ. of Tokyo) SAKURADA, Tomoaki; ARAI, Yonbon; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi  
**1PC-157** Immobilization of Sodium p-Styrenesulfonate on Titanium Dioxide by method of electrochemically initiated polymerization and Adsorption of Cationic Porphyrin Zinc Complex. (Kochi Univ. of Technology, Depart. of Technology) SHINOHARA, Takuya; SUMI, Katsuhiro  
**1PC-158** Synthesis of Trifluoromethylthiazole Dyes Having Thiophene Spacers and their Applications to Dye-sensitized Solar Cell. (Seikei Univ.) IWATA, Satoru; KOBAYASHI, Shintaro; TANAKA, Kiyoshi  
**1PC-159** New Organic Sensitizers with Pyrrole Units for Dye-Sensitized Solar Cells (Sagami Chemical Research Institute; Tokai Univ.) AIHARA, Hidenori; HARA, Masaki; KONDOU, Daisuke; KUNUGI, Yoshihito  
**1PC-160** Effect of the Crystal Facets of the anatase TiO<sub>2</sub> on the Photo Excited Charge Transfer and Application to the Dye-Sensitized Solar Cell (Grad. School of Sci. and Eng.; Tokyo Inst. Tech.) TANAKA, Keita; MAITANI, Masato; MOCHIZUKI, Dai; SUGIYAMA, Sakae; FUSE, Shinichiro; TAKAHASHI, Takashi; WADA, Yuji  
**1PC-161** Self-assembly of Anatase Titanium Dioxide Sheet and its Application to Dye-sensitized Photoelectric Conversion (Grad. School of Sci. and Eng.; Tokyo Inst. Tech.) XU, Chen; TANAKA, Keita; MOCHIZUKI, Dai; MAITANI, Masato; WADA, Yuji  
**1PC-162** Photoelectrochemical Property of Self-Assembled TiO<sub>2</sub> Nanoarchitecture Fabricated by Anodization in Halogen-Free Electrolytes (Fukushima-NCT) UCHIDA, Kenichi; KAMO, Yoichi; SAKAMAKI, Kenji  
**1PC-163** Visible-light Responsive Fe<sub>2</sub>O<sub>3</sub> Semiconductor Utilizing Non-linear Current Oscillation Reaction (3) (Fukushima-NCT) SASAKI, Takaaki; UNAYAMA, Shun; OYAKE, Kanako; USUBA, Manami; ITO, Minako; SAKAMAKI, Kenji  
**1PC-164** Autocatalytic Preparation of Nano-Semiconductor Electrode for Solar Energy Conversion (6) (Fukushima-NCT) SAKAMOTO, Manami; SHIKE, Ikuro; YOKOTA, Eri; FUJISAWA, Hirofumi; SAGAWA, Yuka; SAKAMAKI, Kenji  
**1PC-165** Photoelectrode characteristics of polythiophene/methanofullerene composite in the water phase (Hirosaki Univ. ; Aomori Pref. Industrial Technology Research Center ; Tokyo Institute of Technology) ABE, Toshiyuki; ICHIKAWA, Miyuki; HIKAGE, Takahito; KAKUTA, Seiji; NAGAI, Keiji  
**1PC-166** Studies on Synthesis of Platinum Diacetylde Complexes linked with Electron Donor and Acceptor moieties for Photoelectric Conversion Molecular System (Osaka City Univ., Univ. of Toyama; Sizuoka Univ.) MATSUMOTO, Yuma; TSUBAMOTO, Mai; SUZUKI, Shuichi; SUGIMURA, Ryoji; KOZAKI, Masatoshi; KIMOTO, Kenshi; NOZAKI,

- Koichi; KONNO, Akinori; OKADA, Keiji  
**1PC-167** Theoretical study for the oxidation state of Mn4-cluster in Photosystem II (RIKEN) HATAKEYAMA, Makoto; OGATA, Kouji; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro  
**1PC-168** Effects of site-directed mutation at the C-terminal region on the thermal stability of cytochrome c' from purple sulfur photosynthetic bacteria (Kobe Univ.) KASUGA, Sachiko; KIMURA, Yukihiro; FURUSAWA, Kei; OHNO, Takashi; OTOMO, Seiu  
**1PC-169** Synthesis and Properties of Ligand-deuterated Ruthenium(II) Complexes - Effects on Luminescent Properties (National Institute of Advanced Industrial Science and Technology) KAWANISHI, Yuji; MIYAZAWA, Akira; SHIMOI, Yukihiro; INOUE, Kyoko; OHTA, Shinichi  
**1PC-170** Synthesis and Properties of Ligand-deuterated Ruthenium(II) Complexes - Isotope Effects on Durability (National Institute of Advanced Industrial Science and Technology) MIYAZAWA, Akira; KAWANISHI, Yuji; SHIMOI, Yukihiro; INOUE, Kyoko; OHTA, Shinichi  
**1PC-171** Luminescence Properties of Liposomal Suspensions Containing Two Kinds of Dye Aggregates. (Univ. of Tsukuba) SATO, Tomoo; TSUCHIYA, Shimpei; KUNITANI, Sayaka; HIDA, Ai  
**1PC-172** Femtosecond Laser Fabrication on Glass Substrates Induced by Gold Nanoparticles (The Univ. of Tokushima; Hokkaido Univ.) HORIUUCHI, Kana; HASHIMOTO, Shuichi; TAKASE, Mai; MURAKOSHI, Kei  
**1PC-173** Development of anion-exchange membranes by radiation grafting-Effect of crosslinker for swelling- (JAEA:DAIHATSU MOTOR CO., LTD) ASANO, Masaharu; KOSHIKAWA, Hiroshi; TYAMAKI, Tetsuya; MAEKAWA, Yasunari; YAMAMOTO, Kazuya; SAMPEI, Fumihoro; ASAZAWA, Koichiro; YAMAGUCHI, Susumu; TANAKA, Hirohisa  
**1PC-174** Improvement of durability and methanol oxidation by Pt catalysts for PEFC using titania-coated carbon nanotube support (Tokyo City Univ.) SHIMIZU, Ryota; TAKAHASHI, Masashi; KOBAYASHI, Koichi  
**1PC-175** Preparation and Oxygen Reduction Reaction Activity of Nitrogen-doped Carbon Electrocatalysts Derived from Polyallilamine as a Nitrogen source. (Faculty of Eng.,Tokyo Univ. of Sci.; Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.; Tokyo Natl. Col. of Tech.) YAMAMOTO, Tomoya; NAKAJIMA, Kaname; YAMAMOTO, Toru; WATANABE, Atsushi; YAMAGIWA, Kiyohumi; SHIROISHI, Hidenobu; AYATO, Yuxuke; KUWANO, Jun  
**1PC-176** Synthesis and characterization of proton conductive composite electrolyte consisting of potassium dihydrogen phosphate and phosphotungstic acid (Toyoashi Univ. of Technology) OH, Song-yul; KIKUCHI, Takuya; KAWAMURA, Go; MUTO, Hiroyuki; MATSUDA, Atsunori  
**1PC-177** Fast Proton Conductive Mesoporous Silica Film with Perfluoro-sulfonic-Acid Group (Toyota Central R&D Labs., Inc.) FUJITA, Satoru; HASEGAWA, Naoki; KOIWA, Akihiko; MUTO, Atsuko; KAWASUMI, Masaya; INAGAKI, Shinji  
**1PC-178** Oxygen ion conductivity in LaGaO<sub>3</sub>-based (LSGMC) Oxide at low temperatures (Tokyo Univ. of Sci.; Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.) NOGIMURA, Ryo; NAKAO, Keisuke; MATSUSHIMA, Kentaro; YAMAGIWA, Kiyohumi; AYATO, Yusuke; KUWANO, Jun  
**1PC-179** Synthesis of metal sulfide nanoparticles by controlled thermolysis and their application to all-solid-state lithium secondary batteries (Osaka Prefecture Univ.; Osaka Municipal Technical Research Institute) ASO, Keigo; HAYASHI, Akitoshi; TADANAGA, Kiyoharu; TATSUMISAGO, Masahiro; KASHIWAGI, Yukiyasu; YAMAMOTO, Mari; SAITOH, Masashi; OHNO, Toshinobu; NAKAMOTO, Masami  
**1PC-180** Preparation of graphite-like carbon nitride and the hydrogen storage properties (Yamaguchi Univ.) NAKAHARA, Takashi; SHIMIZU, Maiko; SAKATA, Yoshihisa; IMAMURA, Hayao  
**1PC-181** Sonochemical Performance Using Ultrasonic Atomizer at 2.4 MHz (Graduate School of Science and Engineering, Meisei Univ.) SHINASHI, Kiyooki; HOUKIN, Toshinari; HARADA, Hisashi

## Theoretical Chemistry, Informatics Chemistry and Computational Chemistry

- 1PC-183** Assessment of chemical core potentials for the computation on enthalpies of formation of transition-metal complexes (Ochanomizu Univ.; Univ. of Alberta) MORI, Hiroto; ZENG, Tao; KLOBUKOWSKI, Mariusz  
**1PC-184** Theoretical Study on Complexes of Cyclodextrins (CDs) with Cholic Acid(CA) (Ochanomizu Univ.) YAO, Lan; MORI, Yukie; TAKANO, Keiko  
**1PC-185** Geometries and electronic structures of Bn (n = 4-20): Global optimization by density functional theory (Ochanomizu Univ.) FUJIKI, Sayuri; MORI, Hiroto; TAKANO, Keiko  
**1PC-186** Theoretical study of the zero-field splitting tensor of p-phenylene-dinitrene (Graduate School of Science, Osaka City Univ.) SUGISAKI, Kenji; TOYOTA, Kazuo; SATO, Kazunobu; SHIOMI, Daisuke; KITAGAWA, Masahiro; TAKUI, Takeji  
**1PC-187** Electronic structure on heterojunction of Single Walled Carbon Nanotube and Polythiophene (The Univ. of Tokyo) NISHIMURA, Katsuhiko; JONO, Ryota; FUJII, Mikiya; YAMASHITA, Koichi  
**1PC-188** Numerical Integration of Atomic Electron Density with Double

- Exponential Formula (Mie Univ.) MITANI, Masaki; YOSHIOKA, Yasunori
- 1PC-189** Theoretical Study for Mechanisms of Asymmetric HydrogenRearrangement Reactions of Allylic Amines Catalyzed by Rh(I)-BINAP (Ibaraki Univ.) KENMOTSU, Yoshiyuki; YOSHIMURA, Takayoshi; MOROKUMA, Keiji; MORI, Seiji
- 1PC-190** Theoretical study of oxidation of cyclohexanediol to adipic anhydride by Ru(IV)O complex (IMCE, Kyushu Univ.) ABE, Takafumi; SHIOTA, Yoshihiro; YOSHIZAWA, Kazunari; KOJIMA, Takahiko
- 1PC-191** Hydration of aldehydes: Effects of the number of water molecules and Substituents (National Institute of Advanced Industrial Science and Technology) SETOKUCHI, Osamu
- 1PC-192** Theoretical Study on the Formation Process of Acetamide from Formamide and Methylene in SgrB2(N) (Chiba Institute of Technology) TAKATSUKA, Akihiro; MATSUZAWA, Hidenori
- 1PC-193** Theoretical study on adsorption and reaction of methanethiol on noble metal surfaces (RIKEN Advanced Institute for Computational Science) AKINAGA, Yoshinobu; NAKAJIMA, Takahito
- 1PC-194** Theoretical investigation of the aza-Cope rearrangement in a supramolecular assembly (RIKEN Advanced Institute for Computational Science) OOTANI, Yusuke; AKINAGA, Yoshinobu; NAKAJIMA, Takahito
- 1PC-195** Theoretical Investigation of Rotational Transition Processes of the CsI Molecule by an Optical Frequency Comb (JAEA) ICHIHARA, Akira; MATSUOKA, Leo; KUROSAKI, Yuzuru; YOKOYAMA, Keiichi
- 1PC-196** 3D-QSAR Analysis of 4-Trifluoromethylimidazoles as Cytotoxic Agents using Molecular Operating Environment (MOE) (Graduate school of science, Josai Univ.) MATSUZAKA, Takuya; TAKAZAKI, Yuto; MIYAMAE, Tomoki; WAKABAYASHI, Hidetsugu
- 1PC-197** Docking Studies on COX-2 - 4-Trifluoromethylimidazoles using Molecular Operating Environment (MOE). (Josai Univ.) MATSUZAKA, Takuya; TAKAZAKI, Yuto; UCHIDA, Naoki; KOZONO, Takayuki; WAKABAYASHI, Hidetsugu
- 1PC-198** Interaction Analysis of HIV-1 Antibody 2G12 and Glycans Using FMO Calculation and MD Simulation (Ochanomizu Univ.) KUYAMA, Yuka; NOTO, Kaori; TAKANO, Keiko
- 1PC-199** Inactivation Mechanism of Diol Dehydratase in the Glycerol Dehydration Reaction (IMCE) DOITOMI, Kazuki; KAMACHI, Takashi; TORAYA, Tetsuo; YOSHIZAWA, Kazunari
- 1PC-200** An Efficient Procedure to Locate Buried Waters in Homology Model (IMCE, Kyushu Univ.) OGATA, Tatsunobu; KAMACHI, Takashi; YOSHIZAWA, Kazunari
- 1PC-201** Kinetic Theory of Enzymes and Diseases (National Center for Global Health and Medicine) OMATA, Kazumi
- 1PC-202** A Density Functional Study on Hydration Structures of Metal Ions with 12 Water Molecules in the Cavity of the KcsA Potassium Channel (Mie Univ.) ITOH, Mizuki; MITANI, Masaki; YOSHIOKA, Yasunori
- 1PC-203** B3LYP study on electronic structures and stabilities of complexes of phosphatase and phosphoric acid ester (Mie Univ.) YOSHIOKA, Yasunori; ICHINO, Tomoya; MITANI, Masaki
- 1PC-204** Theoretical study of molecular structures and two-electron oxidation by Mn/Fe binuclear system (Mie Univ.) SHIMIZU, Tomoya; ICHINO, Tomoya; MITANI, Masaki; YOSHIOKA, Yasunori
- 1PC-205** 3D-QSAR models of alkyl-and arylpyrazines as blood platelet aggregation inhibitors using Molecular Operating Environment (MOE) (Graduate school of science, Josai Univ.) YOSHINO, Ryunosuke; WAKABAYASHI, Hidetsugu
- 1PC-206** Fragment molecular orbital calculation with solvation effect based on Poisson-Boltzmann equation (The Univ. of Tokyo) OKIYAMA, Yoshio; NAKANO, Tatsuya; MOCHIZUKI, Yuji; TANAKA, Shigenori
- 1PC-207** Quantum Chemical Study on Participation of Catalytic Group in Stepwise Mechanism for Peptide Bond Formation in the Ribosome (Wakayama Med. Univ.; Nagoya Women's Univ.) FUKUSHIMA, Kazuaki; IWAHASHI, Hideo; NISHIKIMI, Morimitsu
- 1PC-208** Chelate-interaction analysis of crown ether-based Palladium extractants by quantum chemical calculation (Ochanomizu Univ.) HIRAYAMA, Natsumi; MORI, Hirotochi
- 1PC-209** Theoretical study on the relation between charge mobility and molecular orientation of organic molecular ensemble (Waseda Univ.; Inst. Mol. Sci.; JST-CREST) TAKADA, Yuta; KOBAYASHI, Masato; NAKAI, Hiromi
- 1PC-210** High efficiency theoretical calculation for the phonon dispersions of graphene nanoribbons (The Univ. of Electro-Communications) ZAIZEN, Moto; YAMAKITA, Yoshihiro
- 1PC-211** Crystal polymorphs of polycyclic aromatic hydrocarbons by quasi-Monte Carlo calculations (The Univ. of Electro-Communications) ITO, Ryo; YAMAKITA, Yoshihiro
- 1PC-212** Crystal Structure Prediction of LiH by Using the SHS Method (Wakayama Univ., Kyoto Univ., Toyota Phys. & Chem. Reserch Institute.) SAWADA, Yu; TOKOYAMA, Hiroaki; YAMAKADO, Hideo; MAEDA, Satoshi; OHNO, Koichi
- 1PC-213** Searching for C<sub>20</sub> isomers by using the SHS method with SCC-DFTB method (Wakayama Univ., Kyoto Univ., Toyota Phys. & Chem. Research Institute) TOKOYAMA, Hiroaki; YAMAKADO, Hideo; MAEDA, Satoshi; OHNO, Koichi

- 1PC-214** Graph Theoretical Study for Geometry of Lithium Clusters (Shizuoka Univ.) KOJIMA, Kazuki; SEKINE, Rika
- 1PC-215** Describe the scents of essential oils by the calculated chemical features of their component molecules (Kisarazu National College of Tech.) YOSHII, Fumiko
- 1PC-216** Use of quantification theory in 2D chemical structure depiction (The Noguchi Institute) YAMADA, Issaku; MIZUNO, Mamoru

Monday, March 26, AM

(10 : 00~11 : 30)

## Physical Chemistry -Chemical Kinetics and Dynamics-

- 2PA-001** Direct analysis of neutral fragments using superconducting tunnel junction detector in electron transfer dissociation (Osaka Pref.Univ.; AIST, RIIF) HAYAKAWA, Shigeo; OHKUBO, Masataka; TOMITA, Shigeo
- 2PA-002** Decomposition dynamics of cyclohexane cation in intense laser fields by ion-trap mass spectrometry (School of Science, the Univ. of Tokyo) YAMAZAKI, Takao; KANYA, Reika; YAMANOUCI, Kaoru
- 2PA-003** Determination of molecular constants of molecules in the gas phase by high-resolution THz spectroscopy (The Univ. of Tokyo) ONO, Keisuke; IWASAKI, Atushi; HATANAKA, Koji; YAMANOUCI, Kaoru
- 2PA-004** Laser flash photolysis and fluorometry of CsI (Japan Atomic Energy Agency) HASHIMOTO, Masashi; MATSUOKA, Leo; YOKOYAMA, Keiichi
- 2PA-005** Addition reaction of copper(I) salt to an Au<sub>10</sub> cluster (Faculty of science, Ibaraki Univ.) OHNUMA, Saori; MAKUHI, Etsuyo; IZUOKA, Akira
- 2PA-006** Withdrawn
- 2PA-007** Stable composition of PVP protected bimetallic cluster (Tokyo Univ. of Science; Graduate School of Chemical Science and Technology) NIIHORI, Yoshiki; WATANABE, Yohei; NEGISHI, Yuichi
- 2PA-008** Ultrafast photoinduced reaction dynamics of flavodoxin from Helicobacter pylori (Institute for Laser Technology) TANIGUCHI, Seiji; CHOSROWJAN, Haik; KITAMURA, Masaya; TANAKA, Fumio; NAKANISHI, Takeshi; OGINO, Kumiko
- 2PA-009** Experimental and Theoretical Analyses of Photoinduced Electron Transfer in Medium Chain Acyl-CoA Dehydrogenase (MCAD): Electron Transfer in the Normal Region (Institute for Laser Technology; Chulalongkorn Univ.; Mahasarakham Univ.) CHOSROWJAN, Haik; TANIGUCHI, Seiji; NAKASHIMA, Nobuaki; TANAKA, Fumio; LUGSANANGARM, Kiattisak; PIANWANIT, Somsak; KOKPOL, Sirirat; NUNTHABOOT, Nadtanet
- 2PA-010** Study for Nano Explosion Processes in Solid Phase under 110K : Photochemical Reactions between Butadiene and Chlorine (Fac. Eng., Yokohama Nat. Univ.) OHIRA, Masashi; SEKI, Kanekazu
- 2PA-011** Photochemistry of Dichloroethylenes in Argon Matrix Using FT-IR Spectroscopy (Fac. Eng., Yokohama Nat. Univ.) YOKOTE, Yuichi; SEKI, Kanekazu
- 2PA-012** The effect of metal ion on the photodynamic properties of silylporphyrin (Department of Chemistry and Chemical Biology, Gunma Univ.) HORIUCHI, Hiroaki; TERASHIMA, Keisuke; OKUTSU, Tetsuo; HIRATSUKA, Hiroshi
- 2PA-013** Study of photo-disintegrative liposomes as carriers of photosensitizer (Department of Chemistry and Chemical biology, Gunma Univ.) FUKUDA, Kana; HORIUCHI, Hiroaki; YAMADA, Keiichi; OKUTSU, Tetsuo
- 2PA-014** Protein crystal nucleation induced by photochemical reaction of quinones. (Dept. of Chem, Biochem., Gunma Univ.) TAKASE, Yuta; TAGUCHI, Tohru; HIRATSUKA, Hiroshi; HORIUCHI, Hiroaki; OKUTSU, Tetsuo
- 2PA-015** Symmetry effect of the molecules for ultrafast lightinduced intramolecular electron transfer dynamics in ionic liquids (Graduate School of Engineering Science and Center for Quantum Materials Science under Extreme Conditions) MURAMATSU, Masayasu; MORISHIMA, Satoe; KATAYAMA, Tetsuro; NAGASAWA, Yutaka; MIYASAKA, Hiroshi
- 2PA-016** Enhancement of nuclear wave packet motion by femtosecond degenerate four-wave-mixing in ionic liquid. (Graduate School of Engineering Science and Center for Quantum Materials Science under Extreme Conditions, Osaka Univ.) TSUMORI, Hiroki; MURAMATSU, Masayasu; NAGASAWA, Yutaka; MIYASAKA, Hiroshi
- 2PA-017** Development of the tunable femtosecond transient microscopy system and its application to organic crystalline systems. (Graduate School of Engineering Science, Osaka Univ. and Center for Quantum Materials Science under Extreme Conditions) JINNO, Akira; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi
- 2PA-018** Relaxation processes of urea-anthracene derivatives via hydrogen bonding with anion (Univ. of Tsukuba) NISHIMURA, Yoshinobu; MASAI, Haruki; ARAI, Tatsuo
- 2PA-019** Occurrence and mechanism of fluorescence enhancement of polycyclic aromatic ketones (Toho Univ.) YAGISHITA, Mayuko; KON, Shinchiku; LI, Gi; KOIKE, Kazuo; OHSHIMA, Shigeru
- 2PA-020** Dynamics of excitation transfer from biphenylene excimers in

- periodic mesoporous biphenylene-silica to coumarin 1 in the mesochannel (Toyota Central R&D Labs., Inc.; Toyota Physical & Chemical Research Institute; JST-CREST) YAMANAKA, Ken-ichi; OKADA, Tadashi; GOTO, Yasutomo; IKAI, Masamichi; TANI, Takao; INAGAKI, Shinji
- 2PA-021** Pulsed laser processing of sub wavelength nanoholes on a polymer film based on resonant plasmonic excitation of Au nanoparticles (Hokkaido Univ.) MURAOKA, Keita; SYOJI, Tatsuya; YAMADA, Kazushi; SUGIMURA, Hiroyuki; KITAMURA, Noboru; TSUBOI, Yasuyuki
- 2PA-022** Optical trapping of lambda-DNA based on the gold nano structure and the fluorescence spectroscopy. (Hokkaido Univ.; JST-PRESTO) SAITO, Junki; SYOJI, Tatsuya; KITAMURA, Noboru; TAKASE, Mai; MURAKOSHI, Kei; TSUBOI, Yasuyuki
- 2PA-023** Photoluminescence from polystyrene and CdS/polystyrene films observed by repetitional PL up conversion measurements: Study of PL mechanism based on the excitation intensity dependence (Univ. of the Ryukyus) SAWADA, Kengo; MIYAZATO, Toshiaki; UCHIHARA, Toshiro
- 2PA-024** Toward Biomimetic Building Materials such as Magnetoreceptor in Migratory Bird (Univ. of Toyama) OKA, Yoshimi; SEKI, Takayuki
- 2PA-025** Excited-state Dynamics of Periodic Mesoporous Organosilicas in Solid Thin Film by means of Time-resolved Measurement; Comparison between Biphenyl- and Pyrenyl-Bridged PMO (Ehime Univ.; Osaka Univ.; Toyota Central R&D Labs., Inc.) ISHIBASHI, Yukihide; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi; YAMANAKA, Ken-ichi; GOTO, Yasutomo; TANI, Takao; INAGAKI, Shinji; ASAH, Tsuyoshi
- 2PA-026** Exciton Dynamics of CdTe QDs on Graphene (School of Science and Technology, Kwasei Gakuin Univ.) HIROSE, Takuya; USHIO, Shoji; KUTSUMA, Yasunori; KANEKO, Tadaaki; TAMAI, Naoto
- 2PA-027** Photoinduced Charge Separation of Platinum Porphyrin Linked with Triphenylamine and Naphthalenediimide Moieties (Osaka City Univ., Graduate School of Science, and Univ. of Toyama, Graduate School of Science and Engineering) SUGIMURA, Ryoji; SUZUKI, Shuichi; KOZAKI, Masatoshi; KIMOTO, Kenshi; NOZAKI, Koichi; OKADA, Keiji
- 2PA-028** Synthesis and Photophysical Properties of Platinum Complex-Triphenylamine-Naphthalenediimide Triad Linked with Triethynylbenzene Unit (Osaka City Univ., Univ. of Toyama, and Kyoto Institute of Technology) HORIKOSHI, Takafumi; SUZUKI, Shuichi; SUGIMURA, Ryoji; KOZAKI, Masatoshi; KIMOTO, Kenshi; NOZAKI, Koichi; MATSUSITA, Hironori; IKEDA, Noriaki; OKADA, Keiji
- 2PA-029** Selective radical-radical recombination reactions in solid hydrogen (School of Engineering, Nagoya Univ.) MINAMI, Masato; KUMAGAI, Jun; KUMADA, Takayuki
- 2PA-030** The influence of nanobubbles in electrochemistry (Department of Chemistry, Saitama Univ.) KAWAHARA, Shizuka; NAKABAYASHI, Seiichirou
- 2PA-031** Performance as oxygen reduction of cobalt-poly(4-vinylpyridine) cathode catalyst (Tokyo Univ. of Science) SUGIHARA, Itsuki; KONDO, Takeshi; YUASA, Makoto
- 2PA-032** COD measurement of organic compounds at boron-doped diamond electrodes (Tokyo Univ. of Science) TAMURA, Yusuke; KONDOU, Takeshi; WATANABE, Takeshi; EINAGA, Yasuaki; YUASA, Makoto
- 2PA-033** Evaluation of the antioxidant capacities of various compounds using flow system bearing reactive oxygen species sensor (Tokyo Univ. of Science) IWAORI, Hiromu; MATHUOKA, Ryo; KAISE, Thihiro; KANEKO, Teruhisa; KONDO, Takeshi; YUASA, Makoto
- 2PA-034** Electrochemical property of paper typed diamond electrode providing heat treatment (Tokyo Univ. of Science) YAJIMA, Keita; KODAMA, Yasutaka; KONDO, Takeshi; YUASA, Makoto
- 2PA-035** Detection of reactive oxygen species under irradiation of ultraviolet rays in a stratum corneum intercellular lipid model using electrochemical sensor (Tokyo Univ. of Science; Yuasa Lab.) AOKI, Yu; MATUOKA, Ryo; KAISE, Chihiro; KANEKO, Teruhisa; KONDO, Takeshi; YUASA, Makoto
- 2PA-036** Effect of Number Density of Microbeads on Shape Deformation of Microbeads-Encapsulating Giant Vesicles (Graduate School of Arts and Sciences, The Univ. of Tokyo) NATSUME, Yuno; TOYOTA, Taro
- 2PA-039** Control of chiral optical properties in axially chiral binaphthyl compound by changing dihedral angle of binaphthyl unit. (Kinki Univ.; NIMS;NAIST) KINUTA, Takafumi; TAJIMA, Nobuo; FUJIKI, Michiya; MIYAZAWA, Mitsuo; IMAI, Yoshitane
- 2PA-040** Preparation of chiral supramolecular organic fluorophore having CPL property composed of *par*-conjugated sulfonic acid and chiral amine derivatives. (Kinki Univ.; Univ. of Tokyo; NAIST) KIMOTO, Takaya; OKUNO, Takahiro; SAKOTA, Yumeko; KINUTA, Takafumi; SATO, Tomohiro; TOKUTOME, Hayato; FUJIKI, Michiya; KURODA, Reiko; IMAI, Yoshitane
- 2PA-041** Synthesis of A Photoswitchable Crown Rotor and Crystal Structure of Alkali Metal Complex (Faculty of Science, Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) NAKANO, Yuki; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PA-042** Synthetic Study of a Light-driven Rotary Molecular Motor toward DNA Conformational Change (Faculty of Science, Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) NOGUCHI, Toshiaki; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PA-043** Assignments of Absolute Configuration of Chiral Amines by CD Exciton Chirality Method (Faculty of Science, Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) NAKAMURA, Masaya; YAMAGUCHI, Akira; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PA-044** 2-Methoxybenzoic Acid: A versatile reagent for simultaneous enantioresolution and assignment of the absolute configuration of Aromatic Alcohols (Faculty of Science, Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) TASAKI, Nobuyoshi; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PA-045** Synthesis of open-cage fullerenes and H<sub>2</sub>O encapsulation at ordinary temperature and pressure (Department of chemistry, Faculty of Science, Kanagawa Univ.) ISHIDA, Takuya; SHIMURA, Keita; SUZUKI, Yasuyuki; SEKINO, Hayato; FURUYA, Junko; YOKOYAMA, Hiroshi; KABE, Yoshio
- 2PA-046** Synthesis of Self-Assembled Hollow Coordination Cages with Bulky Capping Ligands (Grad. School of Engineering, The Univ. of Tokyo; CREST) FANG, Yu; MURASE, Takashi; FUJITA, Makoto
- 2PA-047** Biomimetic Approach to Multifunctional Nano-Pockets using a Cyclophane-type  $\alpha/\zeta$ -Hexapeptide (Grad. School of Science, The Univ. of Tokyo) CHIBA, Masayuki; TASHIRO, Shohei; SHIONOYA, Mitsuhiko
- 2PA-048** Coordination polymers and networks derived from adamantane-based bidentate ligands: structural diversity of the complexes by ligand and solvent modifications (Tokushima Bunri Univ.) TOMINAGA, Masahide; MASU, Hyuma; OHARA, Kazuaki; YAMAGUCHI, Kentaro; AZUMAYA, Isao
- 2PA-049** Formation of novel thienocyclopentadiene derivatives from 1,3-bis(2-thienyl)allene derivatives (Graduate School of Science, Kitasato Univ.) MORI, Yuusuke; HASEGAWA, Masashi; MAZAKI, Yasuhiro
- 2PA-050** Photoracemization of 1,3-Bis(tetrahydrofulvalenyl) allene (Graduate School of Science, Kitasato University) IWATA, Seiya; SONE, Yasuto; HASEGAWA, Masashi; MATSUZAWA, Hideyo; MAZAKI, Yasuhiro
- 2PA-051** Conformational Properties of *N,N'*-diarylsquaramides (Ochanomizu Univ.; Tokyo Medic. and Dent. Univ.; Faculty of Pharmaceutical Sciences at Kagawa Campus, Tokushima Bunri Univ.; Chemical Analysis Center, Chiba Univ.) KANDA, Midori; FUJII, Shinya; MASU, Hyuma; KATAGIRI, Kousuke; AZUMAYA, Isao; KAGECHIKA, Hiroyuki; TANATANI, Aya
- 2PA-052** Syntheses of Luminescent Hetero-Bridged Thiophene Derivatives and Their Application to Organic Electroluminescence Devices (Kyushu Univ.; OPERA) KONDO, Ryosuke; YASUDA, Takuma; YANG, Yu Seok; KIM, Jun Yun; ADACHI, Chihaya
- 2PA-053** Development of New Electron Transport Materials Having Pyridine and Pyrimidine Moieties (Kyushu Univ.; OPERA; Hodogaya Chemical Co., Ltd) SAGARA, Yuta; TOGASHI, Kazunori; YASUDA, Takuma; ADACHI, Chihaya
- 2PA-054** Synthesis and Photophysical Properties of Pyrene-Based Light-Emitting monomer (Graduate School of Science and Engineering, Saga Univ.) FENG, Xing; YI, Liu; IWANAGA, Fumitaka; YAMATO, Takehiko
- 2PA-055** Synthesis and photophysical properties of extended *par*-conjugated giant molecules based on the pyrene (Graduate School of Science and Engineering, Saga Univ.) IWANAGA, Fumitaka; FENG, Xing; YAMATO, Takehiko
- 2PA-056** Synthesis of macrocycles based on ethynylphenylenediamines (Wakayama Univ.) UKAI, Miho; TABATA, Hideyuki; KIZU, Kengo; OKUNO, Tsunehisa
- 2PA-057** Structure and properties of chemical oxidation product of promazine (Nagoya Municipal Industrial Res. Inst.; Chemical Resources Lab., Tokyo. Institute of Tech.) HAYASHI, Hideki; KOIZUMI, Take-aki
- 2PA-058** Synthesis and Properties of viologen derivatives extended with thienothiophenes having long alkyl chains (School of Science, Kitasato University) MINEGISHI, Takeo; HOSOI, Aiko; HASEGAWA, Masashi; MAZAKI, Yasuhiro
- 2PA-059** Synthesis of Quinomethide Dyes Bearing a Carboxylic Acid (Grad. School of Eng., Univ. of Hyogo) OZOE, Hiroaki; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PA-060** Synthesis and properties of novel BODIPY dimers comprising a pyrrolopyrrole unit (Graduate School of Science, Tohoku Univ.) IINO, Taku; SHIMIZU, Soji; KOBAYASHI, Nagao
- 2PA-061** Synthesis and properties of novel donor-acceptor compounds with a thienopyrrole dione unit (Tokyo Institute of Technology, Interdisciplinary Grad. School of Sci. and Engi.) HARA, Masatoshi; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 2PA-062** Unexpected Products in N-Arkylation of Isatin: Extended *pi*-Conjugation Due to Dimeric Condensation (Josai Univ.) KASONO, Masaki; TAKAHASHI, Shunsuke; WAKABAYASHI, Hidetsugu; KOBAYASHI, Keiji
- 2PA-063** Synthesis and optical properties of a macrocyclic tetramer composed of carbazole having an expanded  $\pi$  conjugate system (Univ. of Yamanashi) SHIMURA, Kyosuke; HANAI, Kaito; OGAWA, Kazuya
- 2PA-064** Exploitation of Tetrahedrally Extended  $\pi$ -Electron Systems Using Partially Brominated Tetrathienylmethane Derivatives (Graduate School of Science, Osaka Univ.) SUZUKI, Takeshi; MATSUMOTO, Kouzou; KUGO, Sota; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

## Physical Organic Chemistry -Structures and Properties-

- 2PA-039** Control of chiral optical properties in axially chiral binaphthyl compound by changing dihedral angle of binaphthyl unit. (Kinki Univ.; NIMS;NAIST) KINUTA, Takafumi; TAJIMA, Nobuo; FUJIKI, Michiya; MIYAZAWA, Mitsuo; IMAI, Yoshitane
- 2PA-040** Preparation of chiral supramolecular organic fluorophore having CPL property composed of *par*-conjugated sulfonic acid and chiral amine derivatives. (Kinki Univ.; Univ. of Tokyo; NAIST) KIMOTO, Takaya; OKUNO, Takahiro; SAKOTA, Yumeko; KINUTA, Takafumi; SATO, Tomohiro; TOKUTOME, Hayato; FUJIKI, Michiya; KURODA, Reiko; IMAI, Yoshitane
- 2PA-041** Synthesis of A Photoswitchable Crown Rotor and Crystal Structure of Alkali Metal Complex (Faculty of Science, Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) NAKANO, Yuki; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PA-042** Synthetic Study of a Light-driven Rotary Molecular Motor toward DNA Conformational Change (Faculty of Science, Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) NOGUCHI,

- 2PA-065** Synthesis of 2,2'-Bis(spirodienone)-Bridged-3,3'-Bithiophene Derivatives toward Creation of a New Mechanochromic Polymer (Graduate School of Science, Osaka Univ.) NISHIDA, Yuri; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi
- 2PA-066** Synthesis and Properties of 2,2'-bis(spirodienone)-Bridged-Biphenyl Derivatives (Graduate School of Science, Osaka Univ.) NAKAMURA, Kazuto; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi
- 2PA-067** Synthesis and Photophysical Properties of Carbazole-Phenanthridine fused Heterocycles (Osaka Kyoiku Univ.) HORI, Kazushige; ORIBE, Kenichi; TANI, Keita
- 2PA-068** Systematic Syntheses of Coronene Imide Derivatives and their Supramolecular Assemblies with Donor Molecules (Faculty of Science and Technology, Keio Univ.) IIDA, Koichi; SAKAI, Hayato; HASOBE, Taku
- 2PA-069** systematic syntheses and properties of self-assemblies of hexaazatriphenylenetriimide derivatives (Faculty of Science and Technology, Keio Univ.) AOKI, Toru; SAKAI, Hayato; HASOBE, Taku
- 2PA-070** Synthesis and Properties of Carbazole-Substituted Pyrimidine Derivatives (Gunma Univ.; Ihara Chemical Industry Co.Ltd.) YAMADA, Yuji; HIYOSHI, Hidetaka; UMEZU, Kazuto; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 2PA-071** Synthesis of Macrocycles Containing Naphthalene Diimide Moieties and Application into Synthesis of [2]Rotaxanes (Gunma Univ.) KURAHASHI, Noriko; MUROYA, Naoki; KATOU, Sin-ichiro; NAKAMURA, Yosuke
- 2PA-072** Formal [2 + 2] Cycloadditions of Ethynylcarbazoles with TCNE and Properties of Resulting Adducts (Graduate School of Engineering, Gunma Univ.) NOGUCHI, Hiroto; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 2PA-073** Syntheses and fluorescent properties of Aminobenzopyroxanthenedyes (ABPX) with azomacrocycles (Graduate School of Medicine, Density and Pharmaceutical Sciences, Okayama Univ., Okayama, Japan/Department of Pharmaceutical Sciences, Okayama Univ., Okayama, Japan/Imaging Research Laboratory, RIKEN CIMS, Kobe, Japan/Hitachi High-Technologies Co., Ltd. Osaka Univ. of Pharmaceutical Science, Osaka, Japan/Department of Pharmaceutical Sciences, Okayama Univ., Okayama, Japan) MURAKAMI, Miho; KAMINO, Shinichiro; HORIGOME, Jun; FUJITA, Yoshikazu; TATSUMI, Asana; WATANABE, Keiko; HIROMURA, Makoto; ENOMOTO, Shuichi
- 2PA-074** Synthesis and Structure of Dithienobenzene Dimer Fused with a Cyclooctatetraene Skeleton (Department of Chemistry, Graduate School of Science, Nagoya Univ.; CREST, Japan Science and Technology Agency) TSUZAKA, Eri; SAITO, Shohei; YAMAGUCHI, Shigehiro
- 2PA-075** E-Z Isomerization and Solid-State Properties of Thiophene-Fused Pentafulvalenes (Graduate School of Science, Nagoya Univ.) MINEMURA, Kazumitsu; FUKAZAWA, Aiko; YAMAMOTO, Kyohei; YAMAGUCHI, Shigehiro
- 2PA-076** Synthesis and Properties of Anthracene Having a Carboxyimide group (Univ. of Hyogo) UEKI, Masanori; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PA-077** Synthesis and Properties of Extended Chrysene Derivatives via 1,5-Naphthodiyne Synthetic Equivalent (Univ. of Hyogo) HIGASHINE, Koji; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PA-078** An Improved Synthesis and Properties of 2,3-Dialkyltetracenes (Univ. of Hyogo; Osaka Univ.) KITAMURA, Chitoshi; OE, Genki; KAWASE, Takeshi; SAEKI, Akinori; SEKI, Shu
- 2PA-079** Synthesis and property of azoniathallicenes (Tokyo Metropolitan Univ.) TAKADA, Kazuma; YAMAGUCHI, Motowo; SATO, Kiyoshi; ISOZAKI, Ryoko
- 2PA-080** Synthesis of quinoidal fluorene (Univ. of Yamanashi) HORIGUCHI, Yoshikazu; TANAKA, Misa; OGAWA, Kazuya
- 2PA-081** Synthesis and optical properties of fluorene array bridged by butadiyne (Univ. of Yamanashi) AMANO, Tatsuya; OGAWA, Kazuya
- 2PA-082** Synthesis and Properties of Trioxotriangulene Neutral Radicals Having Alkoxyphenyl Groups (Osaka Univ.; Osaka City Univ.) KAWAKAMI, Yuki; MURAYAMA, Hirotaka; UEDA, Akira; KARIYAZONO, Kazuki; MURATA, Tsuyoshi; SATO, Kazunobu; TAKUI, Takeji; MORITA, Yasushi
- 2PA-083** Synthesis and physical properties of the propeller-shaped molecule with three phenalenyl radicals (Graduate School of Science, Osaka Univ.) MIYAZAKI, Shogo; HIRAO, Yasukazu; Aoba, Mitsuya; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 2PA-084** Syntheses and photophysical properties of new 7-helicene derivatives bearing a phenazine unit (Faculty of Science and Technology, Keio Univ.) SHINTO, Sho; SAKAI, Hayato; HASOBE, Taku
- 2PA-085** Efficient synthesis of unsymmetrical BPEA derivatives by reaction integration and their spectroscopic properties (Okayama Univ. of Sci.) MAMIYA, Daiki; IWANAGA, Tetsuo; TOYOTA, Shinji
- 2PA-086** Effects of Substituents on Electronic Properties of 5,12-Bis(phenylethynyl)tetracenes (Okayama Univ. of Sci.) NISHIOKA, Keita; IWANAGA, Tetsuo; TOYOTA, Shinji
- 2PA-087** Synthesis and electronic properties of tetraazacyclophane with anthracene moieties (Kyoto Univ./Institute for Molecular Science) MASUDA, Yasuyuki; SAKAMAKI, Daisuke; ITO, Akihiro; TANAKA, Kazuyoshi; FURUKAWA, Ko; KATO, Tatsuhisa
- 2PA-088** Synthesis and Properties of 9,9'-Spirobi(4,5-diazafluorene) (School of Science, Kitasato Univ.) OODA, Tomonari; SEKIYA, Naomi; HASEGAWA, Masasi; MAZAKI, Yasuhiro; OZAKI, Hiroyuki; TUBOI, Motoki
- 2PA-089** Synthesis and properties of N-pyridyl-1,6-methano[10]annulene-3,4-dicarboximides (Shinshu Univ.; Univ. of Toyama) ODA, Mitsunori; SUGENO, Yuka; ABE, Takako; KURODA, Shigeyasu
- 2PA-090** Crystal structure, basicity, and acidity of 2-(2-hydroxyphenyl)-1-azaazulene (Shinshu Univ.; Univ. of Toyama) ODA, Mitsunori; FUJIWARA, Yurie; TAKEUCHI, Rie; MIYATAKE, Ryuta; ABE, Takako; KURODA, Shigeyasu
- 2PA-091** Synthesis and properties of benzo- and naphtho-annulated 1,6-methano[10]annulene-3,4-dicarboximides (Shinshu Univ.; Univ. of Toyama) ODA, Mitsunori; NAKAMURA, Tomomi; ABE, Takako; KURODA, Shigeyasu
- 2PA-092** Reactions of 6-tert-butylazulene with Grignard reagents (Shinshu Univ.; Univ. of Toyama) ODA, Mitsunori; FUJIWARA, Ayaka; ABE, Takako; KURODA, Shigeyasu
- 2PA-093** Synthesis and properties of origoazulene bearing dipole moment in the same direction. (Graduate School of Science and Engineering Yamagata Univ.) OGAWA, Keisuke; YAMAGUCHI, Yuji; KATAGIRI, Hiroshi; NAKAYAMA, Kenichi; OHBA, Yoshihiro
- 2PA-094** Synthesis and Properties of Cyclophanes Bearing Siloxane Linkages (Univ. of Gunma) YAMAZAKI, Nanae; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 2PA-095** Development of photoinduced charge-transfer molecules using [2.2]paracyclophane (IMCE, Kyushu Univ.; Department of Chemistry, Graduate School of Sciences, Kyushu Univ.) MIYAZAKI, Takaaki; FUJISHIGE, Jun-ichi; GOTO, Kenta; SHINMYOZU, Teruo
- 2PA-096** Electroluminescence Properties of Ferulic acid derivatives (Industrial Technology Center of Wakayama Prefecture) MIYAKE, Yasuhiro; MIKURA, Miwako; MORI, Megumi; OSAKI, Shusuke; MORI, Takeshi; SAOMOTO, Hitoshi; MACHITANI, Koji; INOUE, Kaname; KOSHITANI, Takeshi; AOKI, Yasunori
- 2PA-097** Synthesis of Chlorophyll Derivatives Possessing C2-Substituents at the 3- and 20-Positions and Their Physical Properties (Ritsumeikan Univ.; Ryukoku Univ.) TAMIAMI, Hitoshi; SUGIYAMA, Haruka; MIYATAKE, Tomohiro
- 2PA-098** Synthesis and properties of extended pi-electronic conjugated system of the porphyrin derivative carrying bis(dimethylamino)phenyl moiety (Univ. of Toyama; Graduate School of Science and Engineering) KEMPE, Hideto; KOZAKE, Yui; YOSHINO, Junro; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 2PA-099** Synthesis of novel phthalocyaninoids focused on modification of the meso-position (Faculty of Science, Tohoku Univ.) KUSHIYA, Tomofumi; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 2PA-100** Synthesis of phthalocyanine and subphthalocyanine analogues containing a naphthalene unit (Tohoku Univ.) MURATA, Agato; SHIMIZU, Soji; KOBAYASHI, Nagao
- 2PA-101** Synthesis and Optical Properties of Imidazo[1,2-a]pyrrolo[2,1-c]quinoxaline Derivatives (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; IWAMOTO, Naoki; ABE, Hajime; AKAZOME, Motohiro
- 2PA-102** Optical Properties of 2,5-Dicarboxyl-2,4-cyclopentadienone Derivatives (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; KAZAMA, Mutsuko; AKAZOME, Motohiro
- 2PA-103** Synthesis of O-Acetylglucosylated Fullerene and its Use in Solution-processable, Organic Thin-film Solar Cell (Sojo Univ.; Phoenix; NISSAN CHEMICAL INDUSTRIES, LTD) YAGAMI, Akifumi; YOSHITAKE, Masayoshi; MIZUKI, Keiji; HATTA, Taizo; OOTANI, Naoki; YOSHIMOTO, Takuji
- 2PA-104** Relation between molecular structure and film morphology, and OPV performance of novel oligothiophene derivatives (RCPVT AIST) KONO, Takahiro; SHIBATA, Yosei; KOUMURA, Nagatoshi; YOSHIDA, Yuji
- 2PA-105** Development of novel MK Dyes Having Phosphonic Acid for High durable Dye-Sensitized Solar Cells (Advanced Industrial Science and Technology) YOSHIDA, Eri; MURAKAMI, Takuro; HARA, Koujiro; KOUMURA, Nagatoshi
- 2PA-106** Synthesis of Doubly-N-Confused Hexaphyrin Dimer (Graduate School of Engineering, Kyushu Univ.) TAKENOSHITA, Yuichi; FURUTA, Hiroyuki
- 2PA-107** Synthesis of meso-phenyl-substituted cyclic porphyrin dimers (Institute for Materials Chemistry and Engineering, Kyushu Univ.) NAWATE, Hironori; KAMIMURA, Takuya; NOBUKUNI, Hirohumi; NARUTA, Yoshinori; TANI, Fumito
- 2PA-108** Synthesis and Properties of New Cyclic Porphyrin Dimers Having Expanded  $\pi$ -conjugated Systems (Institute for Materials Chemistry and Engineering, Kyushu Univ.) INOUE, Yasuyuki; NOBUKUNI, Hirofumi; NARUTA, Yoshinori; TANI, Fumito
- 2PA-109** Synthesis of Sandwich-like Triple-Decker metal complexes of Bisporphyrin (Graduate School of Science and Engineering, Ehime Univ.; Integrated Center for Sciences, Ehime Univ.) WATANABE, Yuta; MORI, Shigeki; MAKAE, Takahiro; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 2PA-110** A Synthetic Approach for the Construction of Carbon Nanotube Segment via Cyclic Polyphenylene Derivatives (Hirosaki Univ.) ASAI, Shintaro; KUDO, Shun; NUMATA, Masayuki; ITO, Shunji; KAWAKAMI,



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- 2PA-111** Synthesis and Properties of Bisphenols as Precursors of Novel Galvinoxyl Radical Derivatives (Josai Univ.) OGINO, Hiroki; KAWAI, Masayuki; WAKABAYASHI, Hidetsugu; TSUKADA, Hideyuki; KOBAYASHI, Keiji.
- 2PA-112** Synthesis of a novel aryl alcohol bearing a potential of PCET (Graduate School of Science, Osaka Univ.) MARUTANI, Miki; HIRAO, Yasukazu; SAITO, Toru; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 2PA-113** Synthesis of the new PAH radical for building an one-dimensional column structure (Graduate School of Science, Osaka Univ.) UCHIDA, Kazuyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 2PA-114** Synthesis of Metal Complexes Coordinated with C<sub>2</sub> Anion of Nitronyl-nitroxide Radical (Osaka City Univ., Graduate School of Science) ZHANG, Xun; YOKOI, Hiroyuki; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji
- 2PA-115** Syntheses and Properties of Nitronyl-Nitroxide (NN) with an adjacent Chiral Group (Osaka City Univ.) TANIMOTO, Ryu; SUZUKI, Shuichi; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; OKADA, Keiji
- 2PA-116** Development of tumor-selective SPECT probes based on porphyrin (Graduate School of Pharmaceutical Sciences, Chiba Univ.) SUZUKI, Masaaki; HOSHINO, Tyuji; NEYA, Saburo; UEHARA, Tomoya; ARANO, Yasushi
- 2PA-117** Synthesis and Characterization of Copper Molecular Conductor Containing Organic Acceptor TANC (Department of Chemistry, Faculty of Science, Tokyo Univ. of Science; Department of Basic Science, Graduate School of Arts and Science, The Univ. of Tokyo) KAWABE, Yu; ISODA, Kyosuke; ENOMOTO, Masaya; YAMAGATA, Akio; KOJIMA, Norimichi; TADOKORO, Makoto
- 2PA-118** Development of a novel salt-bridge molecular conductor composed of bis-fused TTF donor (National Institute for Materials Science) TERAUCHI, Takeshi; KOBAYASHI, Yuka; MISAKI, Yohji
- 2PA-119** Synthesis and Properties of new Metal-coordinated TTF donors containing a 4,5-Diazafluorene Unit(1) (Nagoya Institute of Technology; Kyushu Univ.; Okayama Univ. of Science; Japan Women's Univ.) SAKO, Katsuya; EMA, Sayuri; KATO, Asami; SHINMYOZU, Teruo; IWANAGA, Tetsuo; TOYOTA, Shinji; TAKEMURA, Hiroyuki; SHIOTSUKA, Michito; TATEMITSU, Hitoshi
- 2PA-120<sup>#</sup>** Synthesis and Electronic Properties of Novel Thiophene-fused Aromatic Materials (Nagoya Univ.) XIE, Yongfa; MATSUSHITA, Michio. M; AWAGA, Kunio
- 2PA-121** Fundamental Properties and Carrier Transport Characteristics of Stable Allyl Radical BDPA and Its Analogue (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) SHIGEMORI, Minoru; ENDO, Toshiyuki; NAITO, Hiroyoshi; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 2PA-122** Optical Properties of Dialkyl Biphenylphosphonate-Silica Composites: A DFT Study (Chemical Resources Laboratory, Tokyo Institute of Technology; Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) MAKIOKA, Yoshikazu; MICHIBAYASHI, Nobuhiro; TANIGUCHI, Yuki
- 2PA-123** Synthesis and OFET properties of thiophene-containing acenes with soluble precursor method (Graduate School of Materials Science, Nara Institute of Science and Technology) AOTAKE, Tatsuya; OHASHI, Chika; KATSUTA, Shuhei; NAKAYAMA, Kenichi; YAMADA, Hiroko
- 2PA-124** Theoretical studies on intermolecular forces and transfer integrals in several dimers of fused-furan compounds (Univ. of Toyama) HAYASHI, Naoto; IWAGAMI, Masayuki; YOSHINO, Junro; HIGUCHI, Hiroyuki
- 2PA-125** Recognition of the boric acid using a polyol compound (Kyushu Institute of Technology) BABA, Ryota; NAKAGAMI, Hidenori; TOYOSE, Yasushi; TSUGE, Akihiko; ARAKI, Koji
- 2PA-126** Molecular Design of Triazine Derivatives Having a High Up-conversion Efficiency from Triplet into Singlet Excited States and Their Application to OLEDs (Kyushu Univ.; OPERA) LEE, Sae Youn; YASUDA, Takuma; ADACHI, Chihaya
- 2PA-127** Studies on the solid-state photochromism of the aromatic diimides bearing donor side-chains (Graduate School of Sciences, IMCE, Kyushu Univ.) MATSUNAGA, Yuki; GOTO, Kenta; SHINMYOZU, Teruo
- 2PA-128** photophysical properties of *N*-azulene-2-yl-naphthalimides. (Gunma National College of Technology) NAKAJIMA, Satoshi; KUBO, Shosei
- 2PA-129** Synthesis and Property of Chiral [3.3](3,9)Carbazolophane-Terephthalate Dyad (Osaka Kyoiku Univ.) KATO, Haruka; OGAMI, Fuko; IMAFUKU, Risa; HORI, Kazushige; KUBONO, Kouji; TANI, Keita; NAKAI, Yoshito; MORI, Tadashi; INOUE, Yoshihisa
- 2PA-130** Photoinduced Electron Transfer in Porphyrin-Naphthaldiimide Dyads with Light-harvesting System (Graduate School of Engineering, Osaka Prefecture Graduate School of Science, Osaka City Univ., CREST/JST. OCARINA/OCUUniv., The Research Institute for Molecular Electronic Device, Osaka Prefecture Univ.) UETOMO, Atsuhiko; KOZAKI, Masatoshi; SUZUKI, Shuichi; KOSUMI, Daisuke; HASHIMOTO, Hideki; KANO, Yusuke; OHTA, Eisuke; IKEDA, Hiroshi; OKADA, Keiji
- 2PA-131** Studied on Photoinduced Electron Transfer of Triphenylamine-BODIPY Dyads with Oligo(phenyleneethynylene) (Osaka City Univ., Univ. of Toyama, Kyoto Institute of Technology) NAKATSUKA, Shoichi; SUZUKI, Shuichi; IEKI, Nobuhiro; KOZAKI, Masatoshi; KIMOTO, Kenshi; NOZAKI, Koichi; SHIMIZU, Hiroki; IKEDA, Noriaki; OKADA, Keiji
- 2PA-132** Photochromic Property and Application of Hemithioindigo Analogues with Pyridine Moiety (Seikei Univ.) TANAKA, Kiyoshi; KATO, Hisatsugu; HAMASAKA, Natsumi; IWATA, Satoru
- 2PA-133** Optical and electronic functionalization by proton control in lumazine-based molecular solids (Chitose Inst. of Sci. & Tech.; IMRAS, Tohoku Univ.) SAKAI, Ken-ichi; NAGAHARA, Kenta; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 2PA-134** Synthesis and Optical Resolution of Partially-Overlapped [3.2](3,9) Carbazolophane Derivatives (Osaka Kyoiku Univ.) OGAMI, Fuko; KATO, Haruka; KUBONO, Kouji; HORI, Kazushige; TANI, Keita; NAKAI, Yoshito; MORI, Tadashi; INOUE, Yoshihisa
- 2PA-135** Molecular-packing-dependent Solid-state ESPT luminescence of methyl substituted hydroxyphenylbenzimidazole. (Institute of Industrial Science, Univ. of Tokyo) SHIDA, Toshihide; MUTAI, Toshiaki; ARAKI, Koji
- 2PA-136** Photo-responsibility of a novel photochromic compound consisting of spiropyran and azobenzene (Toyo Univ. Faculty of Engineering) AIKAWA, Yoshiki; KUWABARA, Akihiko; TANAKA, Hiroya; OOMORI, Tadayoshi; FUKUSHIMA, Yasumasa
- 2PA-137** Complexation property of chiral-silver vorous molecules having additional binding sites in the side-arms (Department of Chemistry, Faculty of Science & Research Center for Materials with Integrated properties, Toho Univ.) YAMAZAKI, Tomoya; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PA-138** Allosteric property of cylindrical cryptand-Ag<sup>+</sup> complexes (Dept. Chem., Toho Univ.; RSMIP, Toho Univ.) NIHEI, Yutaro; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PA-139** Metal ion-induced fluorescence spectral changes in the solid-state and in a solution by double-armed cyclens bearing chromophores in the side-arms. (Department of Chemistry, Faculty of Science & Reserch Center for Materials with Integrated Properties, Toho Univ.) TANIGUCHI, Aya; HIRAOKA, Takao; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PA-140** A dual-mode sensor molecule which can detect Hg<sup>2+</sup> and Ag<sup>+</sup> ions (Department of Chemistry, Faculty of Science, Toho Univ. & Reserch Center for Materials with Integrated Properties, Toho Univ.) IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PA-141** Synthesis of rosamine-containing ligands which show specific spectral changes toward Hg<sup>2+</sup> ion (Department of Chemistry, Faculty of Science Toho Univ. & Reserch Center for Materials with Integrated Properties, Toho Univ.) IKEDA, Mari; YANAGIBORI, Yukino; MINAGAWA, Marie; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PA-142<sup>#</sup>** Ditiopic Receptors Based on Lower- and Upper-Rim Substituted Hexahomotrioxacalix[3]arenes: Novel Cation-Controlled Hydrogen Bonding of Anion (Graduate School of Science and Engineering, Saga Univ.) JIN, Chengcheng; WANG, Shi; NI, Xin-long; YAMATO, Takehiko
- 2PA-143** Synthesis and Evaluation of a Novel Pyrenyl-Appended Triazole-Based Thiacalix[4]arene as a Fluorescent Sensor (Graduate School of Science and Engineering, Saga Univ.) NI, Xin-long; TANAKA, Tetsuya; YAMATO, Takehiko
- 2PA-144<sup>#</sup>** Substituent Effect of Substrates on Cucurbit[8]uril-catalytic Oxidation of Aryl Alcohols at Room Temperature (Graduate School of Science and Engineering, Saga Univ.) CONG, Hang; YAMATO, Takehiko
- 2PA-145** Complexation behavior of diethanoanthracene-bridged bisporphyrin with fullerenes. (Ehime Univ.) TAGAWA, Kazunari; WATANABE, Hajime; OKUJIMA, Tetsuo; NAKAE, Takahiro; MORI, Shigeki; UNO, Hidemitsu
- 2PA-146** Fluorescence enhancement of *N*-arylaminothalenes caused by inclusion complexations with various cyclodextrins and cucurbit[7]uril. (Okayama Univ.) NAKATANI, Shinichiro; OSAWA, Yoshihiro; SUEISHI, Yoshimi
- 2PA-147** Carboxylic Acid Recognitions and Fluorescence Properties of 1,8-Diamidino anthracene (Kyoto Institute of Technology) KUSUKAWA, Takahiro; TAKESHITA, Syouta; HARADA, Toshiro
- 2PA-148** Syntheses and properties of the cyclophanes having the ability to catch the lithium ion or cesium ion selectively (Department of Applied Chemistry, Kyushu Institute of Technology) EGAMI, Tatsuya; MORIGUCHI, Tetsuji; ARAKI, Koji; TSUGE, Akihiko
- 2PA-149** Synthesis and Characterization of Lithium Ion Selective Calix[4]arenes (Kyushu Institute of Technology) INUZUKA, Shino; TOYOSE, Yasushi; TSUGE, Akihiko; ARAKI, Koji
- 2PA-151** 2-Aminotryptanthrin Derivatives as FRET-based Fluorescent Chemosensors for Metal Ions (Hirosaki Univ.) KAWAKAMI, Jun; MAE, Masataka; KIKUCHI, Yoh; NARITA, Nobuo; ITO, Shunji
- 2PA-152** Photochromic reaction of 2,2'-Spiro[2H-1-benzopyran] and its transient complex formation with metal ions. (Osaka Univ. Grad. Scho. Engi. Sci., Kyokugen, JST-PRESTO) NAGASAWA, Yutaka; HASEGAWA, Nobuya; MURAMATSU, Masayasu; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi
- 2PA-153** Colorimetric Sensing of Cyanide Anion in Aqueous Media with a Fluorescein-Spiropyran Conjugate (Osaka Univ.) SUMIYA, Shigehiro; DOI, Takayuki; SHIRAI, Yasuhiro; HIRAI, Takayuki
- 2PA-154** Functionalization of receptors bearing silanols as anion recognition

- sites (Yamagata Univ.) BETSU, I; KONDO, Shin-ichi
- 2PA-155** Specific interaction between polyaryl-substituted imidazolium and anions (Graduate School of Tokyo Metropolitan Univ.) NAKASHIMA, Kousuke; YAMAGUCHI, Motowo; SATO, Kiyoshi; SEKI, Yuta
- 2PA-156** Synthesis and complexation behavior of TTF derivative containing fused benzo-26-crown-8 (Shinshu Univ.) TANAKA, Tomokazu; OHTA, Akira
- 2PA-157** Synthesis and Properties of Redox-responsive Molecular Tweezers Containing Two Extended Tetrathiafulvalene Units (Shinshu Univ.) FUJII, Mikako; OHTA, Akira
- 2PA-158** Synthesis and properties of bis(benzocrown ether)-type redox-responsive host undergoing a reversible structural change (Shinshu Univ.) TANIGUCHI, Daisuke; OHTA, Akira
- 2PA-159** Preparation and Characterization of Self-assembled Monolayer of Dendron Having Photodegradable Linker with Alkoxy Groups. (Kanagawa Univ. Faculty of Science) MATSUSHITA, Kazuki; CHIKARAISHI, Noriko; YAMAGUCHI, Kazuo
- 2PA-160** Effect of Alkyl Substituent Group at Benzyl Position on Photodegradation of 2-Nitrobenzyl Esters (Kanagawa Univ. Faculty of Science) SAITO, Yusuke; WATANABE, Kazuhiro; CHIKARAISHI, Noriko; YAMAGUCHI, Kazuo
- 2PA-161** Synthesis of Macrocyclic Sulfoximine for the Recognition of Cyclic Amides (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) IJIMA, Kohta; KIHARA, Nobuhiro
- 2PA-162** A relationship between intramolecular-rotation in biphenyl skeleton and enthalpy-entropy compensation for pentachloro biphenyls. (Univ. of Shizuoka; Inst. for Environ.Sci.) MAKINO, Masakazu
- 2PA-163** Effects on Inclusion Ability by Functionalization of Cyclic Trimer Consisted of 2-(3-Aminophenoxy)propanoic Acid (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; TAKAGI, Koji; MATSUMOTO, Shoji
- 2PA-164** Chiral Discrimination Ability of Cyclic Trimer of 2-(3-Aminophenoxy)propanoic Acids (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; AKAMATSU, Tatsuya; TAKAGI, Koji; MATSUMOTO, Shoji
- 2PA-165** Synthesis and Properties of Pentacenequinone Derivatives Bearing Binding Sites for Metal Ions (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) TAKATSUKI, Yuri; AKINE, Shigehisa; NABESHIMA, Tatsuya
- 2PA-166** Synthesis and Optical Properties of N2O2-type Dipyrrin Complexes Having a Recognition Site (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) UCHIDA, Junji; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2PA-167** Synthesis and Cellular Imaging of *Ar,O*-BODIPYs Bearing a Sugar Chain (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) YAZAKI, Shinya; YAMAMURA, Masaki; SHIMAMURA, Michio; NABESHIMA, Tatsuya
- 2PA-168** Synthesis of Novel Dipyridoacridine Platinum(II) Complexes for  $\pi$ - $\pi$  Stacking-Based Molecular Recognition (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) YAMAKI, Yusuke; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2PA-169** Synthesis of novel cryptand-type ligands bearing three saloph coordination sites (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) MIYASHITA, Masato; AKINE, Shigehisa; NABESHIMA, Tatsuya
- 2PA-170** Synthesis of azacrown ether derivatives having pyreneacetamide moieties and detection of alkali metal ions (Dept. of Chem.; Tokyo Med. Univ.) NISHIMURA, Yukihiko; HOSONO, Yasuhiro; ARAI, Sadao
- 2PA-171** Development of a dye-sensitized solar cell that having an antenna function by self-organization. (Faculty of engineering, Gifu Univ.) GOTO, Chiaki; FUJIMOTO, Junko; YOSHIDA, Tsukasa; MIYAJI, Hidekazu
- 2PA-172** Development of a dye-sensitized anion sensor using a color change by anion recognition. (Faculty of engineering, Gifu Univ.) SAWADA, Shogo; FUJIMOTO, Junko; YOSHIDA, Tsukasa; MIYAJI, Hidekazu
- 2PA-173** Preparation of Low Interaction Bifunctional Catenanes by Reduction of Amide Groups (Nihon Univ.) TSUCHIDA, Takashi; HAGIWARA, Toshiki; HOSHI, Toru; SAWAGUCHI, Takashi
- 2PA-174** Synthesis of Novel Interlocked Compounds Using H-F Interaction (Nihon Univ.) MARIKO, Sho; HAGIWARA, Toshiki; HOSHI, Toru; SAWAGUCHI, Takashi
- 2PA-175** Synthesis, Structure, and Properties of Acetylene-Extended 2,1,3-Benzothiadiazole Oligomers (Nagoya Institute of Technology) KURODA, Kaori; TERANO, Megumi; OHKITA, Masakazu
- 2PA-176** Synthesis of Pyridine-Thiophene Alternating Oligomers and Macrocycles (Nagoya Institute of Technology) KODAMA, Naoki; OHKITA, Masakazu
- 2PA-177** Chiral recognition of 2-hydroxy carboxylic acid by chiral macrocyclic amine host (Kansai Univ.) IWASHITA, Tomoharu; TANAKA, Koichi
- 2PA-178** Synthesis of chiral macrocyclic salen derivative from 3,5-diformyl-4-hydroxy benzoic acid (Kansai Univ.) TANAKA, Kohei; TANAKA, Koichi
- 2PA-179** Aggregation-induced Emission Found in Bis(thiadiazolo)quinoxaline-triphenylamines. (Kurume National College of Technology) MORIYAMA, Yuriko; IKEDA, Kei; ISHI-I, Tsutomu
- 2PA-180** Construction of multiple porphyrin self-assemblies using tetraphenylporphyrin modified by multiple cyclodextrins (Department of Biomolecular Engineering, Kyoto Institute of Technology) NAITO, Nobuhiro; SASAKI, Ken; KURODA, Yasuhisa
- 2PA-181** Development of Functional Molecular Materials Including Cucurbituril (Graduate school of science, Hiroshima Univ.) SAKO, Nagisa; NISHIHARA, Sadafumi; INOUE, Katsuya
- 2PA-182** Development of Synthetic Method for Optically Active Rotaxanes Having Topological Chirality Based on Prerotaxane Method (Graduate School of Engineering Science, Osaka Univ.) HIROSE, Keiji; TSUDA, Kyousuke; FURUTANI, Hajime; HINOHARA, Yuko; TOBE, Yoshito
- 2PA-183** Synthesis and self-assemblies of squaramide derivatives bearing aliphatic moieties (Yamagata Univ.) SEKIYA, Fumiaki; ITO, Kazuaki
- 2PA-184** synthesis and gelation of carbonylazide derivatives with a liposoluble moieties (Yamagata Univ.) NAGAYAMA, Keiko; ITO, Kazuaki
- 2PA-185** The Synthesis of Cavitand with Pyridine-Substituted Six-Membered Ring Boronate Esters (Tokyo Metropolitan Univ.) TAKEUCHI, Yuya; OTSUKA, Kaoru; NISHIYABU, Ryuhei; KUBO, Yuji
- 2PA-186** Synthesis of supramolecular gel using pyridine-substituted six-membered ring boronate ester (Tokyo Metropolitan Univ.) USHIKUBO, Shiho; NISHIYABU, Ryuhei; KUBO, Yuji
- 2PA-187** Synthetic study toward polycatenane. (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) SAKURAI, Masayoshi; KIHARA, Nobuhiro
- 2PA-188** Luminescent Perylene Bisimide Supramolecular Polymers Formed Through Complementary Hydrogen Bonds (Grad. Sch. of Eng., Chiba. Univ.) YAGAI, Shiki; USUI, Mari; SEKI, Tomohiro; KARATSU, Takashi; KITAMURA, Akihiko
- 2PA-189** Synthesis of Novel Acridine Oligomers Aimed for Construction of Self-assembly Structure by Stacking (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) IKUMA, Seira; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2PA-190** Formation of Supramolecular Polymers from Trisalloph Heterotetranuclear Complexes Bearing Adamantane Moieties in the Side Chains and  $\beta$ -CD (Faculty of Pure and Applied Sciences, Univ. of Tsukuba) KANAZAWA, Kotaro; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2PA-191** Synthesis of a Pseudorotaxane Composed of the Formed by a Dithiacrown Ether and Dibenzylammonium salt (Tokyo Inst. of Tech., Chem. Res. Lab.) NAGAI, Hiroyuki; SUZAKI, Yuji; OSAKADA, Kohtaro
- 2PA-192** Solid-State Study of the Arene-fluoroarene Interactions in the Pseudorotaxane Structure (Tokyo Inst. of Tech., Chem. Res. Lab.) SUZAKI, Yuji; AKEI, Asami; OSAKADA, Kohtaro
- 2PA-193** Endo-functionalization of Water-soluble  $M_{12}L_{24}$  Spherical Complexes (School of Engineering, The Univ. of Tokyo; CREST) TAKAHASHI, Asana; FUJITA, Daishi; SATO, Sota; FUJITA, Makoto
- 2PA-194** Synthesis of a Bridgehead-Substituted Azatriptycene and its Metal Coordination Properties (Department of Chemistry, School of Science, The Univ. of Tokyo.) YASUDA, Yoshihiro; UBE, Hitoshi; SHIONOYA, Mitsuhiko
- 2PA-195** Regioselective separation of bifunctionalized C60 derivatives by using cyclodextrin (Graduate School of Materials Science, Nara Institute of Science and Technology) ISHIKAWA, Michiko; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCCHI, Jun-ichi
- 2PA-196** Synthesis and Properties of Zinc 3-Methoxymethyl-Chlorins Possessing a Perfluoroalkyl Chain (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; KUROSAKA, Tomoya; KUMAGAI, Ryuichi; TAMIYAKI, Hitoshi
- 2PA-197** Synthesis and property evaluation of programmed one dimensional self-assembly of gold nanorodlinked by functional organic molecules (Graduate School of Science, Osaka Univ.) IMURA, Masaki; TOTOKI, Yuji; TANAKA, Daisuke; TANAKA, Hirofumi; YANAGIDA, Takeshi; OGAWA, Takuji
- 2PA-198** Nanostructure control of J-aggregated perylene bisimides by using diarylethene hydrogen-bonding (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; IWAI, Kazunori; KARATSU, Takashi; KITAMURA, Akihiko
- 2PA-199** Building and properties of the hybrid system of the Eu(III) complex and the bilayer membrane (Department of Applied Chemistry, Kyushu Institute of Technology) KISHI, Ryutarou; MORIGUCHI, Tetsuji; ARAKI, Koji; TSUGE, Akihiko
- 2PA-200** Fluorescence Quenching of Diimidazo[1,2-*a*:2',1'-*c*]quinoxalium Salts (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; ABE, Hajime; AKAZOME, Motohiro
- 2PA-201** Development of Mechanochromic Material Consisted of 2,2'-Bipyrrrole Structure (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; NORO, Daiki; BATMUNKH, Erdenebolor; AKAZOME, Motohiro
- 2PA-202** Consecutive gear motions by intramolecularly arranged multiple-triptycenes (The Univ. of Tokyo) ISHIDA, Junichi; UBE, Hitoshi; SHIONOYA, Mitsuhiko
- 2PA-203** The Preparation and Characterization of Ferulic Acid Derivatives (Industrial Technology Center of Wakayama Prefecture) MORI, Megumi; MIYAKE, Yasuhito; KIMURA, Miwako; OSAKI, Shusuke; MAEDA, Yasukatsu

### Physical Organic Chemistry -Reaction Mechanism-

- 2PA-205** Character of biradicals with an unusual electronic configuration (Hiroshima Univ.) MORIKAWA, Yoshiki; ABE, Manabu

- 2PA-206** An Analysis of the Reaction Mechanism of Phenacyl Chlorides with Methoxide Ion. (Department of Chemistry, Univ. of Rikkyo) TAGAWA, Kouhei; SASAGAWA, Keita; YAMATAKA, Hiroshi
- 2PA-207** Kinetic Study of Acyloin Rearrangement under Acidic and Basic Conditions (Rikkyo Univ., College of Science, Department Chemistry) KUBOUCHI, Daiki; KARINO, Masahiro; YAMATAKA, Hiroshi
- 2PA-208** The evaluation of reactive oxygen species scavenging capacities based on the reaction rates with hydrophilic antioxidants (Okayama Univ.) MATSUURA, Keiko; HORI, Masashi; SUEISHI, Yoshimi
- 2PA-209** The influence of cyclodextrin on the oxygen radical scavenging rates of lipophilic antioxidants (Okayama Univ.) ISHIKAWA, Misa; SUEISHI, Yoshimi
- 2PA-210** Spin-switch Reaction Using Butterfly Flap type Movement (Hiroshima Univ.) OMOKAWA, Yasuyuki; ABE, Manabu
- 2PA-211** Photoinduced electron transfer sensitized by iridium complexes having an absorption band in visible region (The Univ. of Tokyo) SHIMADA, Kengo; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-212** Photoinduced electron transport sensitized by an iridium complex using viologen derivatives as electron carriers (The Univ. of Tokyo) ABOSHI, Ryo; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-213** Photochemical hydrogen generation using Pt complex catalysts having long alkyl chains in vesicles (The Univ. of Tokyo) SUZUKI, Marina; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-214** Solvent Effect on the Scavenging Reaction of Reactive-Oxygen-Species Models by Green Tea Catechins (National Institute of Radiological Sciences; Osaka Univ.; Shibaura Institute of Technology; National Institute of Health Sciences) KAWASHIMA, Tomonori; NAKANISHI, Ikuo; IMAI, Kohei; OHKUBO, Kei; FUKUHARA, Kiyoshi; FUKUZUMI, Shunichi; MATSUMOTO, Kenichiro
- 2PA-215** Elucidation of Selectivity and Mechanism in Wittig Reaction (Kochi Univ.) KAWAKAMI, Yoshihide; KANENO, Daisuke
- 2PA-216** Ab initio Molecular Orbital Study on the mechanism of the Thermal Decomposition of Tetrazole Derivatives (Josai Univ.) UCHIDA, Naoki; WAKABAYASHI, Hidetsugu; KURIHARA, Teruo
- 2PA-217** Systematic Investigation of photocycloaddition Reactions of 1,4-Dicyanonaphthalene with Alkenes by Computational Methods (Shimane Univ.) SHIRATORI, Hideo; HAYASHI, Sachio; KUBO, Yasuo
- 2PA-218** FMO-MD Simulations for hydration of *t*-BuCl in water solution (Rikkyo Univ.) SATO, Makoto; YAMATAKA, Hiroshi; KOMEIJI, Yuto; MOCHIZUKI, Yuji; NAKANO, Tatsuya
- 2PA-219** A study on Effects for Methyl Transfer Reaction using theQM/MC/FEP method and its Kinetic Measurements (Graduate school of Science and Engineering, Yamaguchi Univ.) FUKUSHIMA, Akimasa; IWAI, Shihou; FUJITA, Takahiro; SUMIMOTO, Michinori; HORI, Kenji
- 2PA-220** Mixture of nitrobenzene and hydroxide: a new charge transfer complex (Kimoto Electric Co.Ltd.) KIMOTO, Chiaki; MATSUURA, Atsuko; KIMOTO, Takashi; HINOUE, Teruo

## Polymer

### polymer synthesis

- 2PA-223** Influence of Solvents on the Radical Polymerization Initiated with Borane-Diphenylphosphine Complex (Junior College Division, Tohoku Seikatsu Bunka College) KANNO, Shuichi
- 2PA-224** Influence of Solvents on the Radical Polymerization Initiated with Borane-Trimethylamine Complex (Junior College Division, Tohoku Seikatsu Bunka College) KANNO, Shuichi; SUDA, Atsushi
- 2PA-225** Construction and characterization of polystyrene layers onto Si(111) surface (Osaka Institute of Technology) SHIMOMURA, Osamu; YOSHIOKA, Kazuya; OHTAKA, Atsushi; NOMURA, Ryoki
- 2PA-226** Specific selectivity in antibody-antigen reaction of polymer particles containing dinitrophenyl groups. (Department of Chemistry, Kinki Univ.) NISHIMINE, Jun; ARITA, Naofumi; OKAMURA, Shintarou; SUENAGA, Yusaku; IWAMORI, Masao
- 2PA-227** Synthesis and Property of Poly(lactic acid-co- $\alpha$ , $\beta$ -malic acids) (KIT Graduate school of science and technology) IGUCHI, Makoto; ABIKO, Atsushi
- 2PA-228** Synthesis of optically pure lactide (KIT; Graduate School of Science and Technology) ISHIJIMA, Yuuki; ABIKO, Atsushi
- 2PA-229** Ring-opening Polymerization from Polysilsesquioxane Containing Hydroxyl Groups (National Defense Academy; Lintec Co. Ltd) MORIYA, Osamu; MTSUMOTO, Daiki; YAMAMOTO, Shin-ichi; ALIMADA, Bagus; KASHIO, Mikihiro; SUGIZAKI, Toshio
- 2PA-230** Synthesis of New Amphiphilic iPP-PEGMA Triblock Copolymer (Nihon Univ.) TAKADA, Martha; SASAKI, Daisuke; HOSHI, Toru; HAGIWARA, Toshiki; SAWAGUCHI, Takashi
- 2PA-231** Synthesis and properties of  $\pi$ -conjugated polymers based on binaphthyl and thiophene (Kanagawa Univ.) FUJITSUKA, Naoya; MIYASAKA, Makoto; KAMEYAMA, Atsushi

### polymer reaction

- 2PA-232** Formation of supramolecular polymers using viologen polymers and cyclodextrin derivatives by photoirradiation. (Kanagawa Univ.)

- TAMUKAI, Keiko; MIYASAKA, Makoto; KAMEYAMA, Atsushi
- 2PA-233** Photoinduced formation of supramolecular network with viologens and cyclodextrin polymers (Kanagawa Univ.) SASAHARA, Yohei; MIYASAKA, Makoto; KAMEYAMA, Atsushi
- 2PA-234** Development of Oxidatively Degradable Polymer that can be decomposed without water. (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) NAKAYAMA, Shota; KIHARA, Nobuhiro
- 2PA-235** Withdrawn

### Polymer structure, physics

- 2PA-236**  $\pi$ -Stacking Polymers with 2-Substituted Trimethylene Tethers (Kanagawa Univ.) NOMURA, Ryosuke; KUDO, Masaru; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 2PA-237** Synthesis New  $\pi$ -Stacking Polymers with 2-Substituted Trimethylene Tethers (Kanagawa Univ.) MORIAI, Ryouta; NOMURA, Ryosuke; KUDO, Masaru; OKAMOTO, Sentaro
- 2PA-238** Electron effects of the polymerization and helical polymer of *p*-substituted benzoylacetylene (Tokyo Gakugei Univ.) YOSIHARA, Nobutosi; TOKORO, Hiroyuki
- 2PA-239** Development of epoxy coating of cardanol obtained from natural resources (Meiji Univ. graduate school, synthetic organic chemistry lab.) YOKOYAMA, Kota; ENDO, Arisa; MIYAKOSHI, Tetsuo

### high performance polymer

- 2PA-240** Preparation and characterization of side chain crystalline polymer by ATRP under high pressure (Kagoshima Univ.) YAMASHITA, Kazuya; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi; NISHIO, Tomohiro; NAGAO, Ayumi

### biopolymer

- 2PA-241** Mechanical properties and chemical changes of hair via oxidation treatments (Iwate Univ., Graduate School of Engineering) TAKAHASHI, Masanobu; ONODERA, Tetsuya; SASAKI, Risa; AISAWA, Sumio; HIRAHARA, Hidetoshi; NARITA, Eiichi; YAMAGISHI, Hidetoshi
- 2PA-242** Preparation of DNA Multilayer Honeycomb Films (Chitose Institute of Science and Technology) KARTHAUS, Olaf; SATO, Aki
- 2PA-243** Preparation of Amylose-Poly(3-hydroxybutyrate) Inclusion Complex in Vine-Twining Polymerization (Kagoshima Univ.) YOSHIOKA, Asami; NOMURA, Shintaro; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi

### polymer engineering

- 2PA-244** Surface Modification and Adhesion of Ultra-High-Molecular-Weight Polyethylene Plates by Photografting Technique (College of Ind. Tech., Nihon Univ.) MOCHIZUKI, Kouhei; YAMADA, Kazunori

### Others

- 2PA-245** The spectra of the solvatochromic dyes in thermoplastic polyurethane elastomer. (Toyo Univ.) KAMII, Yuusuke; TAZIMA, Masahiro; MATSUNAGA, Katsuzi

### functional polymer

- 2PA-246** Synthesis of the Sulfonated COPNA Resins as Strong Protonic Acids (The Nippon Dental Univ.; Niigata Univ.) TANEMURA, Kiyoshi; NISHIDA, Yoko; SUZUKI, Tsuneo; HORAGUCHI, Takaaki
- 2PA-247** Synthesis and electronic properties of dimer models of U-shaped poly(9,10-anthryleneethynylene) bearing phenoxy residues. (Graduate School of Sci. & Tech., Niigata Univ.; N-Chem, Niigata Univ.; CTR, Niigata Univ.; VBL, Niigata Univ.; CIA, Niigata Univ.) TSUKAMOTO, Keita; LIU, Lijia; KAKIHANA, Yuriko; TERAGUCHI, Masahiro; AOKI, Toshiaki; KANEKO, Takashi
- 2PA-248** Syntheses of polyaniline nano- and micro-particles under supercritical carbon dioxide environment and their applications (Faculty of science and technology, Tokyo Univ. of Sci.; Yuasa Lab.) SAITO, Shuhei; KONDO, Takeshi; YUASA, Makoto
- 2PA-249** Synthesis and characteristics of luminescent materials using ferulic acid-based polystyrene (Inst. Tech. Ctr. Wakayama Pref.) MORI, Takeshi; SAOMOTO, Hitoshi; MACHITANI, Koji; MORI, Hajime
- 2PA-250** Synthesis of Amphiphilic Copolymer with Poly(trimethylene carbonate) Segment and Their Characterization (Konan Univ.) NITTA, Kyohei; MIYAKE, Junpei; WATANABE, Junji; IKEDA, Yoshiyuki
- 2PA-251** Preparation of polycarbonate derivatives aiming at drug inclusion and their solution properties (Konan Univ.) TSUNEMI, Shota; MIYAKE, Junpei; WATANABE, Junji; IKEDA, Yoshiyuki
- 2PA-252** Functionalization of hepatocyte spheroid by coculture method (Tokyo Univ. of Science) NAGAMURA, Masako; OKIMURA, Saya; SASAKI, Kohei; OTUSKA, Hidenori
- 2PA-253** Removal of bisphenol derivatives by quinone adsorption on chitosan (College of Ind. Tech., Nihon Univ.) KIMURA, Yuji; KASHIWADA, Ayumi; MATSUDA, Kiyomi; YAMADA, Kazunori; HATA, Yoji; SHIOTA,

Kazunori

- 2PA-254** Determination of optimum conditions of quinone oxidation of 1-naphthol by polyphenol oxidase and its removal with chitosan (College of Ind. Tech., Nihon Univ.) SHINOZAKI, Fumiyoshi; KASHIWADA, Ayumi; MATSUDA, Kiyomi; YAMADA, Kazunori
- 2PA-255** Evaluation of the Capture ability of Metal Ions by Cross-Linked Poly(vinylcatechol) (Osaka Institute of Technology) SHIMOMURA, Osamu; KURAMOTO, Kohei; KAWAGUCHI, Masaki; HORI, Takashi; ISHIZUKA, Saki; OHTAKA, Atsushi; NOMURA, Ryoki
- 2PA-256** Patterning characteristics of organic-inorganic hybrid film containing latent pigments by using microwave irradiation and photo acid generator (Shibaura Institute of Technology, Department of Applied Chemistry.) SUGAWARA, Shinya; OOISHI, Tomoji
- 2PA-257** Development of electrolyte membrane with perfluorosulfonic acid moiety for fuel cell (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) OSHINOMI, Motomichi; KIHARA, Nobuhiko
- 2PA-258** Stretchable supramolecular hydrogel using redox-responsive host-guest interaction (Graduate School of Science, Osaka Univ.) NAKAHATA, Masaki; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PA-259** Photo-stimuli responsive supramolecular hydrogels consisting of the host-guest polymer (Graduate School of Science, Osaka Univ.) HATANAKA, Shogo; TAKASHIMA, Yoshinori; OOTSUBO, Miyuki; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PA-260** Water State in Methylcellulose Thermo Reversible Hydrogels Containing Salt or PEG (Kanagawa Univ.) UEHARA, Yuzuru; SHIMODA, Eita; NISHIMOTO, Yuko
- 2PA-261** Preparation of organic-inorganic hybrid type ion-gels by condensation of PVA with boric acids in ionic liquid and their ion conductive properties (School of Materials Science, Japan Advanced Institute of Science and Technology) TSUTAKAWA, Hiroki; MATSUMI, Noriyoshi
- 2PA-262** The preparation and characteristics of ion-gels electrolytes using organoboron-based polymer as polymer support (School of Materials Science, JAIST) YOSHINAGA, Yuya; MATSUMI, Noriyoshi
- 2PA-263** Syntheses and Applications of 1,2-Polybutadiene Derivatives Having Azide Group in Their Pendant (Yamagata Univ.) SATO, Rikiya; MORI, Yusuke; IMAI, Haruna
- 2PA-264** Functionalization of thermoresponsive Polysilsesquioxane containing urea bond using click chemistry (National Defence Academy) MIYASAKA, Yohei; YAMAMOTO, Shin-ichi; MORIYA, Osamu

## Organic Crystals

- 2PA-267** Optical Properties in Inclusion Crystals of 9-aminophenylanthracene Depending on Guest Molecules (Graduate School of Engineering, Osaka Univ.) HANTANAKA, Keisuke; TOHNAL, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 2PA-268** Carboxylic Acid Acting As a Lewis Base(2): Structure of an Adduct of Copper(II) Benzoate with Bezoic Acid. (Josai Univ.) MIYAMAE, Hiroshi; HAYASHI, Eiji; HIHARA, Goro
- 2PA-269** Control of Axial Chirality of Nicotinamide Derivatives by Formation of Salt with Chiral Acid and Generation of Chiral Memory (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; OKAMOTO, Kazuma; KAMATAKI, Norifumi; MINO, Takashi; FUJITA, Tsutomu
- 2PA-270** Solid-state ESIPT luminescence of cyano-substituted imidazopyridines : effect of molecular packing (Institute of Industrial Science, Univ. of Tokyo) SUMI, Chisaki; SHONO, Hideaki; MUTAI, Toshiki; ARAKI, Koji
- 2PA-271** Crystal structure and properties of A-D-A triads consisting of p-benzoquinones as electron acceptors. (Univ. of Toyama) HIGASHIDE, Iyo; HAYASHI, Naoto; YOSHINO, Junro; HIGUCHI, Hiroyuki
- 2PA-272** Temperature Dependence of crystal structure and Photoluminescence Properties of Cubane-type copper(I) iodide tetranuclear complex with 3-picoline ligand in two polymorphs. (Univ. of Hyogo) YAMASAKI, Shota; OZAWA, Yoshiki; TORIUMI, Koshiro
- 2PA-273** Evaluation of phase structure in multicomponent organic mixed crystals by using thermal analysis (Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) KOMATSU, Hiromu; KOKADO, Kenta; SADA, Kazuki
- 2PA-274** Peculiar Crystalline Behavior of Benzylpyridinium Carboxylate Network Formed by Planar Molecules (Nagoya Inst. of Tech.) YAMOTO, Kazuhisa; AIBA, Motohiro; TSUCHIDA, Hiroe; MATSUOKA, Shin-ichi; TAKAGI, Koji; SUZUKI, Masato
- 2PA-275** Chiral Crystallization of Achiral Naphthalene Derivatives (Graduate School of Engineering, Osaka Univ.) MIYANO, Tetsuya; TOHNAL, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 2PA-276** Construction of Rigid and Stable Supramolecular Porous Materials Composed of 1,4-Bis(sulfophenylethynyl)benzene Derivatives and Alkylamines (Graduate School of Engineering, Osaka Univ.) HAMADA, Tomoya; TOHNAL, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 2PA-277** Crystal Structures and Inclusion Ability of Amino Acid Amides Having Two Trityl Groups (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; YOKOTA, Syouhei; MEGUMI, Ken; MATSUMOTO, Shoji
- 2PA-278** Inclusion and Chiral Recognition of Amides Using Asymmetric Urea Host Derived from Two Different Amino Acids (Graduate School of

Engineering, Chiba Univ.) MEGUMI, Ken; MATSUMOTO, Shoji; AKAZOME, Motohiro

**2PA-279** Reorientation of 1-aryl-4-pyridylbutadiene derivatives on exposure to acid gas (Ochanomizu Univ.) AYA, Kanae; YAMADA, Shinji

**2PA-280** Cascade Reactions of Pyridine Derivatives in the solid-state: Reorientation of Molecules on Exposure to Hydrogen Chloride Gas and Stereoselective Photodimerization Reactions (Ochanomizu Univ.) TAKAMORI, Eri; SAKOU, Nodoka; KAWAMURA, Chiaki; NOJIRI, Yuka; YAMADA, Shinji

**2PA-281** Dynamic behavior of guest molecules in channel inclusion compounds (Grad. School of Human & Env. Studies, Kyoto Univ.) TAKAHASHI, Hiroki

**2PA-282** Total Resolution of Isoindolinone Derivatives by Combination of Racemization and Preferential Crystallization (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; ISHIKAWA, Hiroki; HACHIYA, Shoko; YAGISHITA, Fumitoshi; ONUKI, Tatsuo; MINO, Takashi; FUJITA, Tsutomu

**2PA-283** Diastereoselective Photodimerization of Chromone-2-carboxamides Involving Crystallization-Induced Diastereomer Transformation (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; BABA, Nozomi; YAGISHITA, Fumitoshi; MINO, Takashi; FUJITA, Tsutomu

**2PA-284** Application of Preferential Enrichment to a cocrystal of arginine and fumaric acid (Graduate School of Human and Environmental, Kyoto Univ.) KUYAMA, Kazunori; IWAMA, Sekai; GONNADE, Rajesh; MANOI, Kochunnonny; TAKAHASHI, Hiroki; TSUE, Hirohito; TAMURA, Rui

Monday, March 26, PM

(12 : 30~14 : 00)

## Physical Chemistry -Structure-

**2PB-001** Improvement of picosecond time-resolved Raman spectrometer with near-infrared excitation and its application (Graduate School of Science and Engineering, Saitama Univ.) SAITOU, Yurie; YAMAATO, Tatsuya; SAKAMOTO, Akira

**2PB-002** The theoretical estimation of the double minimum potential at ROH...F(doublet) hydrogen bonded complex. (Waseda junior&Senior Highschool) SAITOH, Toshikazu

**2PB-003** Effect of n- $\pi$  interaction on intramolecular rotation and Raman intensities in para-substituted selenoanisole (The Univ. of Electro-Communications) KOBAYASHI, Noriaki; YAMAKITA, Yoshihiro; HAYASHI, Naoto

**2PB-004** Determination of Blended Ratios of Blended Fabrics Containing Wool by the Near-infrared Spectroscopy (Tokyo Univ. Agricult. & Technol.) BAL, Wenming; YOSHIMURA, Norio; TAKAYANAGI, Masao

**2PB-005** Photo-induced production of carbazole radical by low-temperature matrix-isolation infrared spectroscopy (Tokyo Univ. of Agriculture and Technology) SEKINE, Masahiko; NAKATA, Munetaka

**2PB-006** Room Temperature Phosphorescence Decay of Cyclodextrins-Naphthalene Derivatives in Aqueous Solutions (Iwate Univ.) SUZUKI, Eiichi; TANIFUJI, Mutsumi; YASHIRO, Hitoshi

**2PB-007** Photoionization-induced hydrogen-bond switching of hydrated 2-phenylethanol cluster revealed by electronic and vibrational spectroscopy in the gas phase (Kyushu Univ.) IKEDA, Takamasa; SAKOTA, Kenji; NAKATA, Shohei; SEKIYA, Hiroshi

**2PB-008** Quantum chemical study on the excited states of squaraine molecule (Univ. of Keio) OZAWA, Hitoshi; YASHIRO, Kazunori; YAMAMOTO, Takuma; YABUSHITA, Satoshi

**2PB-009** The hydrogen bonding and proton transfer of the 2-acetamidopyridine/acetic acid system (Tokyo Denki Univ.) KOKUMA, Kenji; ROKUSHIMA, Yuuki; SUGIMOTO, Shigeki; FUJIMOTO, Akira

**2PB-010** Manipulation of Electron and Nuclear Spins in Isotope Labeled Diphenylnitroxides by Time Proportional Phase Increment Detection in Pulsed ENDOR (Osaka City Univ.; Graduate School of Science, Osaka Univ.; Graduate School of Engineering Science, Osaka Univ.; FIRST) YOSHINO, Tomohiro; NISHIDA, Shinsuke; NAKAZAWA, Shigeaki; SATO, Kazunobu; RAHIMI, Robabeh; TOYOTA, Kazuo; SHIOMI, Daisuke; MORITA, Yasushi; KITAGAWA, Masahiro; TAKUI, Takeji

**2PB-011** Single Crystal Neutron Diffraction Study of a Photochromic Platinum Complex by iBIX (CROSS; Rikkyo Univ.; Univ. of Tokyo; Mitsubishi Chemical Co.;Ibaraki Univ.; JAEA) OHHARA, Takashi; MATSUSHITA, Nobuyuki; ARAKI, Kosei; NAKAMURA, Shinichi; OZEKI, Tomoji; TANAKA, Ichiro; KUSAKA, Katsuhiro; HOSOYA, Takaaki; YAMADA, Taro; KURIHARA, Kazuo; NIIMURA, Nobuo

**2PB-012** Synthesis and Structures of Alkali BHETCNQ Salts (Wakayama Univ.) OSADA, Yuki; YAMAKADO, Hideo

**2PB-013** Characterization of Ni<sub>2</sub>P(10-10) by photoemission spectroscopy (High Energy Accelerator Research Organization) IMAINISHI, Saori; MUNAKATA, Shiori; KAKUFUDA, Youhei; OZAWA, Ken-ichi; EDAMOTO, Kazuyuki

**2PB-014** STM study on the structures of Ti oxide films formed on Ag(100) (Univ. of Tokyo) MUNAKATA, Shiori; MASUDA, Seigo; KAKEFUUDA, Youhei; EDAMOTO, Kazuyuki; KOITAYA, Takanori; YOSHIMOTO, Shinya; YOSHINOBU, Jun

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**2PB-015** Substituent Effect of Normal Chain Form Alkyl Group on Proton Transfer between Pyridinimine Derivative and Alcohol (Tokyo Denki Univ.) IWASAKI, Naoya; SUZUKI, Takayuki; FUJIMOTO, Akira

### Physical Chemistry -Properties-

**2PB-017** Enthalpies of mixing of chiral Limonene in pentanol solution (Dept. Chem. Kinki Univ.) KIMURA, Takayoshi; KOSUGE, Yuri; KAMIYAMA, Tadashi; FUJISAWA, Masao

**2PB-018** Interaction between isoamines and alcohols (Dept. Chem. Kinki Univ.) SUZUKI, Tatsunori; KAMIYAMA, Tadashi; FUJISAWA, Masao; KIMURA, Takayoshi

**2PB-019** Relaxation Processes and Dielectric Anomalies for Liquid and Glassy States of Ionic Liquid ( $C_6mim$ )BF<sub>4</sub> (Department of Chemistry, Faculty of Science, Fukuoka Univ.) KUROKI, Takuya; WATANABE, Keisuke; NEGITA, Keishi

**2PB-020** Alcohol effect on thermal denaturation of  $\beta$ -lactoglobulin (Fukuoka Univ.) YOSHIDA, Koji; YAMAGUCHI, Toshio

**2PB-021** Glass Transition Behavior of Ionic Liquid, [bmim][Cl]-Water-Lysozyme Mixtures (Nat. Def. Acad.) YOSHIMURA, Yukihiko; OMATA, Tomoya; NIHEY, Azusa; YAMAZAKI, Kumiko; HATANO, Naohiro; TAKEKIYO, Takahiro; ABE, Hiroshi

**2PB-022** AC conductivity of mixture of protonic and non protonic ionic liquids (Hokkaido Univ.) ISHIGAKI, Satoko; KAGEYAMA, Yoshiyuki; MARUTA, Gorou; TAKEDA, Sadamu

**2PB-023** High-pressure phenomenon of the partial molar volume of L-valine in water (Department of Applied Chemistry, Ritsumeikan Univ.) SAWAMURA, Seiji

**2PB-024** Dynamics of small molecules in oriented structure of liquid crystal and its influence on physical property (Kanazawa Univ.) TAKADA, Mao; OHASHI, Ryutarou; MIZUNO, Motohiro

**2PB-025** Aggregation structure of triphenylene derivative salt TP-OCn.BF<sub>4</sub> in *1a3d* cubic phase (Univ. of Tsukuba; Gifu Univ.; Tokyo Inst. of Tech.; RIKEN ASI; The Univ. Tokyo.) NAKAZAWA, Yuri; YAMAMURA, Yasuhisa; KUTSUMIZU, Shoichi; SAKAJIRI, Koichi; FUKUSHIMA, Takanori; KAJITANI, Takashi; AIDA, Takuzo; SAITO, Kazuya

**2PB-026** Phase Transition induced by Slowing Down of Guest Molecular Reorientation in a Host-guest Compound (Coll. of Human. and Sciences, Nihon Univ.) KOBAYASHI, Hirokazu; ASAJI, Tetsuo; TAKAMISAWA, Hitoshi; WATANABE, Minato

**2PB-027** Dependence of growth condition on cage occupancy of Tetrahydrofuran clathrate hydrates (Meiji Univ.) MIYATA, Tomoya; NAGASHIMA, Kazushige

**2PB-028** The effect of temperature oscillation on ice crystals growth and melt (Meiji Univ.) KIKUCHI, Shota; NAGASHIMA, Kazushige

**2PB-029** Pattern formation of ice crystals under oscillated growth condition during directional solidification (Meiji Univ.) KAMADA, Yasuo; WASHIZU, Masatoshi; MURAOKA, Michihiro; NAGASHIMA, Kazushige

**2PB-030** Behavior of crystals in storm glass under applied temperature variation (Meiji Univ.) TAKAHASHI, Kyohei; MITSUYA, Takurou; MURAOKA, Michihiro; NAGASHIMA, Kazushige

**2PB-031** Experimental study on formation process of tetrahydrofuran clathrate hydrates in guest/host concentration boundary layer (Meiji Univ.) GOTO, Hiroaki; MURAOKA, Michihiro; NAGASHIMA, Kazushige

**2PB-032** Analysis of water dynamics in the pores of mesoporous silicas MCM-41, SBA-16 by <sup>2</sup>H NMR (Kanazawa Univ.) SAZANAMI, Kouichi; MIYATOU, Tatsuya; OHASHI, Ryutarou; MIZUNO, Motohiro; KITTAKA, Shigeharu

**2PB-033** Photochromism of Diarylethenes under Shear Stress (Tokyo Univ. of Science, Yamaguchi; Faculty of Engineering) INOUE, Takeshi; INOKUCHI, Makoto; YAKUSHI, Kyuya; SHIROTANI, Ichimin

**2PB-034** Synthesis and characterization of active layer consisting of fullerene C<sub>60</sub> derivatives HPCM in organic thin-film solar cell. (Toho Univ.) TAKESHITA, Akihito; PAC, Chyongjin; MORIYAMA, Hiroshi

**2PB-035** A Structural Effect in Novel Electron Acceptors of C<sub>60</sub> Derivatives with Poly(3-hexylthiophene) for Organic Photovoltaic Applications (Toho Univ. and Kyung Hee Univ.) MIURA, Shogo; OH, Jaebuem; RYU, Misun; LEE, Haeseong; JANG, Jin; PAC, Chongjin; MORIYAMA, Hiroshi

**2PB-036** Framework transformation of Non-IPR endohedral metallofullerene. (Univ. Tsukuba TARA, IMS) MUTO, Yasuhiro; KURIHARA, Hiroki; SLANINA, Zdenek; TSUCHIYA, Takahiro; NAGASE, Shigeru; AKASAKA, Takeshi

**2PB-037** Synthesis of a new unsymmetrical EOM-TTF donor and the physical properties of its charge transfer complexes and radical salts (School of Sci. & Eng., Aoyama Gakuin Univ.) HIRATA, Kentarou; INAYOSHI, Tomoko

**2PB-038** Synthesis of a new dissymmetrical EOM-EDT-TTF donor and some radical salts with this compound, and theselectrical properties. (School of Sci. & Eng., Aoyama Gakuin Univ.) INAYOSHI, Tomoko; TAKAHASHI, Masami

**2PB-039** Synthesis and Structures of their Cation Radical Salts of Vinylogous TTF Derivatives with Various Substituents (Grad. Sch. Sci., Eng., Ehime Univ.) WATADU, Hiroshi; SHIRAHATA, Takashi; MISAKI, Yohji

**2PB-040** Isotope Effect on EDO-TTF-*d*<sub>4</sub> and the Radical Cation Salts (LTM, Kyoto Univ.) NAKANO, Yoshiaki; TAKESHITA, Takuma; YAMACHI, Hideki; URUICHI, Mikio; YAKUSHI, Kyuya

**2PB-041** Orbital views of conductance perturbed by nitrile and isonitrile anchor groups (IMCE, Kyushu Univ.) KOGA, Junya; TSUJI, Yuta; STAYKOV, Aleksandar; YOSHIZAWA, Kazunari

**2PB-042** Development of dye-sensitized solar cells using TTF-BODIPY hybrid molecules (Grad. School of Sci., Osaka Pref. Univ.) OGASAWARA, Reiko; TSUJIMOTO, Keiji; FUJIWARA, Hideki

**2PB-043** Synthesis and properties of novel organic conductors based on DIETSe (Nagaoka Univ. of Technology) KOBAYASHI, Mitsuaki; SAITO, Yuya; IMAKUBO, Tatsuro

**2PB-044** Synthesis and properties of TTF derivatives containing fluoromethyl group(s) (Nagaoka Univ. of Technology) MONDEN, Syougo; SHIGA, Yuta; IMAKUBO, Tatsuro

**2PB-045** Synthesis and properties of organic conductors based on TSeF derivatives containing an ethylenedioxy group (Nagaoka Univ. of Technology) SHIGA, Yuta; MURAYAMA, Ryosuke; SHINBO, Kazuki; IMAKUBO, Tatsuro

**2PB-046** Syntheses and Properties of Chiral BEDT-TTF Diol Derivatives and their chiral complexes (ISSP) HASHIMOTO, Chiho; KRIVICHAS, Sara; TAKAHASHI, Kazuyuki; WALLIS, John; MORI, Hatsumi

**2PB-047** Crystal Structure and Conductivity of Charge Transfer Salt  $\beta$ -[BEDT-TTF]<sub>4</sub>[ReCl<sub>4</sub>(oxalate)](C<sub>6</sub>H<sub>5</sub>CN) (Tokyo Univ. of Science, The Univ. of Tokyo) SHIMOTORI, Fumitoshi; ENOMOTO, Masaya; OKAZAWA, Atsushi; KOJIMA, Norimichi

**2PB-048** Molecular Electronics on Crystal Surface with Contact Carrier Doping (School of Sci., Hokkaido Univ.) NAKAJIMA, Yuki; YOKOKURA, Seiya; HAYAKAWA, Kei; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; INABE, Tamotsu; NAITO, Toshio

**2PB-049** Electrical and electronic properties of Lead, Tin-Iodide Perovskite (School of Sci., Hokkaido Univ.) OSAKI, Tsuyoshi; KUDO, Yu; TAKAHASHI, Yukari; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; INABE, Tamotsu

**2PB-050** Molecular Motions in Organic Solids with Weak Charge-Transfer Interaction (School of Sci. Hokkaido Univ.) ASHIDATE, Shunsuke; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; INABE, Tamotsu

**2PB-051** Structure and properties of EtOH containing partially oxidized salts of Fe-phthalocyanine (School of sci. Hokkaido Univ.) TAKITA, Yusuke; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; INABE, Tamotsu

**2PB-052** Crystal Structure and Magnetic Properties of Metal Dithiolenes Complexes Containing 1,3,2-Dithiazole Units (Dept. Chem., TMU) NAKAMURA, Tadami; KODAMA, Takeshi; KIKUCHI, Koichi; FUJITA, Wataru

**2PB-053** Crystal Growth of Layered Transition Metal Hydroxides Using Hydrolysis (Tokyo Metropolitan Univ.) FUJITA, Wataru; MORI, Wasuke; KIKUCHI, Koichi

**2PB-054** Fabrication of Silicon Quantum Dots Using Femtosecond Laser Ablation in the Liquid and the Evaluation of the Emission Properties (Kwansei Gakuin Univ.) KOIKE, Eiko; MASUO, Sadahiro

**2PB-055** Photon antibunching behavior of a single quantum dot - silica-coated silver nanoparticle systems-silica shell thickness dependence- (Kwansei Gakuin Univ.) UEDAO, Toshihisa; NAIKI, Hiroyuki; MASUO, Sadahiro

**2PB-056** Emission behavior of a single quantum dot - metal nanoparticle system -Distance control by AFM manipulation- (Kwansei Gakuin Univ.) KANETAKA, Keisuke; MASUO, Sadahiro

**2PB-057** Investigation of the Optical Property of  $\lambda$ -Ti<sub>3</sub>O<sub>5</sub> with a Room-temperature Photoinduced Metal-semiconductor Phase Transition (Univ. of Tokyo) NAGATA, Toshiaki; TANAKA, Kenji; NASU, Tomomichi; YOSHIKIYO, Marie; HAKOE, Fumiyoshi; TANAKA, Shu; NAMAI, Asuka; TOKORO, Hiroko; OHKOSHI, Shin-ichi

**2PB-058** The chirality measurements of pseudoisocyanine homoassociates on circularly polarized luminescence spectrophotometer (Toho Univ. and The Univ. of Tokyo) KURIHARA, Mai; HARADA, Takunori; KURODA, Reiko; MORIYAMA, Hiroshi

### Analytical Chemistry

**2PB-061** Design and Syntheses of aminobenzopyroxanthene (ABPX) possessing the off/on optical switching of spirocyclic structures and evaluation of the compound as chemosensor for metal cations (Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.) OOTA, Tomoyuki; KAMINO, Shinichiro; WATANABE, Keiko; TAKEUCHI, Yasuo; ENOMOTO, Shuichi

**2PB-062** Micro-Spot Measurement of Singlet Oxygen Luminescence Lifetime for Antioxidant Assay of Rare Samples (Grad. Sch. Sci., Eng., Ehime Univ.) OHARA, Keishi

**2PB-063** Photophysics of organic-metallic hybrid polymers (Keio Univ.) MURONOI, Yu; ZHANG, Jian; HIGUCHI, Masayoshi; MAKI, Hideyuki

**2PB-064** Electric field enhancement by gap mode plasmon towards tip-enhanced Raman scattering (Saitama Univ.) ISHIBASHI, Takeshi; FUTAMATA, Masayuki

**2PB-065** Paper-based colorimetric gas sensor array for detection of amines using polymer nanoparticles (Keio Univ.) SOGA, Tamaki; JIMBO, Yusuke; CITTERIO, Daniel; SUZUKI, Koji

**2PB-066** Inducement of fluorescence resonance energy transfer between nanoparticles via single-stranded DNA and its use for a bioprobe development (Faculty of Science and Engineering, Doshisha Univ.) TORII,

- Masayuki; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2PB-067** Stripping voltammetric determination of trace silicon in aluminum (Graduate School of Chemical Sciences and Technology, Tokyo Univ. of Science) OTANI, Yui; TANAKA, Tatsuhiko
- 2PB-068** Development of biofuel cell using yeast as biocatalyst (Nara National College of Technology) MIKI, Kojiro; FUNABIKI, Ayumu
- 2PB-069** Rapid Measurement of  $\alpha$ -Glucosidase Activity in Rice Koji Using an Ultrasonic Apparatus. (Nara National College of Technology; Chemical Engineering) HORII, Makoto; MIKI, Kojiro
- 2PB-070** Instrumentation of a laser post ionization secondary neutral mass spectrometer (3) - Effect of the ion beam energy (Research Institute of Instrumentation Frontier, AIST) NAGAI, Hidekazu; NAKANAGA, Taisuke
- 2PB-071** Electrokinetic chromatography with colloidal silica nanoparticles as a pseudo-stationary phase (Waseda Univ. INN; Faculty of Sci. Eng., Waseda, Univ.; Kagami Memorial Research Institute for Materials Science and Technology, Waseda Univ.) SUMITOMO, Keiko; YAMADA, Hironori; KURODA, Kazuyuki
- 2PB-072** Development of a microfluidic system with elastic enclosure and squeezing rollers (Yokogawa Electric Co. Ltd.; Inst. Eng., Tokyo Univ. Agri. Tech.) TADENUMA, Takashi; TAGUCHI, Tomoyuki; KAKURYU, Nobuyuki; KATAKURA, Hisao; AOKI, Hidetoshi; TANAAMI, Takeo; MATSUNAGA, Tadashi; TANAKA, Tsuyoshi; HOSOKAWA, Masahito
- 2PB-073** Single-step detection of the neuraminidase inhibitor using combinable PDMS capillary (CPC) sensor array (Graduate School of Engineering, Osaka Prefecture Univ.) JIGAWA, Kaede; ISHIMOTO, Tadashi; HENARES, Terence G.; ENDO, Tatsuro; HISAMOTO, Hideaki
- 2PB-074** Development of single step multiple biosensing microdevices toward the discrimination of abnormal concentration component in serum (Osaka Prefecture Univ. Graduate School of Engineering) KIMURA, Yuusuke; FUNANO, Shunichi; HENARES, Terence G.; ENDOU, Tatsuuro; HISAMOTO, Hideaki
- 2PB-075** Fluorescence Properties of Anion Sensor Based on Diiminocarbazolophane (Osaka Kyoiku Univ.) KUSUMOTO, Nao; KUBONO, Keiji; TANI, Keita; YOKOI, Kunihiko
- 2PB-076** Development of Ion Sensor Based on Water-Soluble Piperazine Compound. (Osaka Kyoiku Univ.) TAKEDA, Yoshitaka; KUBONO, Keiji; YOKOI, Kunihiko
- 2PB-077** Development of Fluorescence Sensor Based on Julolidine Chromophore (Osaka Kyoiku Univ.) KAWAMURA, Miki; KUBONO, Kouji; TANI, Keita; YOKOI, Kunihiko
- 2PB-078** New tripodal ligand as extractant for silver ions and the effects of steric hindrance on extraction and back extraction (Univ. of Keio) WATANABE, Takafumi; HIRUTA, Yuki; CITTERIO, Daniel; SUZUKI, Koji
- 2PB-079** Coprecipitation of trace lead with silver - diethylthiocarbamate for a graphite furnace atomic absorption spectrometric determination (Department of General Education, Kobe City College of Technology) SATO, Hirotooshi
- 2PB-080** Micro analysis using ionic liquids for toxic organic compounds in water (Industrial Technology Center of Wakayama Prefecture) OSAKI, Shusuke; MIYAKE, Yasuhito; KIMURA, Miwako; MORI, Megumi; MAEDA, Yasukatsu
- 2PB-081** Scanning Tunneling Microscope Designed for Operation in Air and Liquid (3) (Fukushima-NCT; Hokuto Denko Corp.) KATO, Satsuki; KOBAYASHI, Takuma; SUGANAMI, Hikaru; SATOH, Soichiro; FUKUSHIMA, Misato; SUZUKI, Masahiro; KUROSAWA, Yuhki; SAKAMAKI, Kenji; MATSUDAIRA, Masahiko
- 2PB-082** Measurement of hydrazines in air using a two-bed silica cartridge impregnated with pyridine-2-aldehyde and trans-1,2-bis-(2-pyridyl) ethylene (National Institute of Public Health) UCHIYAMA, Shigehisa; INABA, Yohei; KUNUGITA, Naoki
- 2PB-083** Determination of volatile organic compounds in air using a headspace gas chromatography (National Institute of Public Health) TOMIZAWA, Takuya; UCHIYAMA, Shigehisa; INABA, Yohei; OHTA, Toshihiro; KUNUGITA, Naoki
- 2PB-084** Basic study for deodorization and bactericidal effects of fine water droplets generated by electrostatic atomization 2 (Kanagawa Univ.) TAKAYAMA, Yoshiki; UTSUMI, Kyohei; TANI, Miona; INAGAKI, Jun; TANAKA, Fumiko; NISHIMOTO, Yuko
- 2PB-085** Analysis of Metabolites Emitted by Soil-Derived Fungi Using GC/MS, LC/MS and Ion Mobility Spectrometry (Nara Women's Univ.; Nara Women's Univ.; AIST) ICHI, Shoko; KIMURA, Tomoko; OOIWA, Sayuri; SUZUKI, Takahito; KUCHI, Yoko; TAKEUCHI, Takae
- 2PB-086** Visual analysis for residual chlorine based on binarized color reaction (Toyama national college of technology) MANAKA, Atsushi; SAWAI, Hikaru; IGARASHI, Shukuro
- 2PB-087** Relationship of data accuracy between Ge Semiconductor detector and NaI Scintillation Counters Detection in the sample measurement related to Fukushima Daiichi Nuclear Disaster (Fukushima Univ.; Perkin Elmer) TAKASE, Tsugiko; KAWATSU, Kencho; SATO, Hiroyuki; TAKAGAI, Yoshitaka
- 2PB-088** Basic study of the Bactericidal effects of electrolyzed water containing hypochlorous acid -the effect of pH on the interaction with amino acids- (Kanagawa Univ.) SASAKI, Yuya; YASUTOMI, Mao; IKI, Hitomi; ISHIKAWA, Miyuki; NISHIMOTO, Yuko

- 2PB-089** Basic study on the active oxygen in the electrolyzed water containing hypochlorous acid (Kanagawa Univ.) UTSUMI, Kyohei; YASUTOMI, Mao; NISHIMOTO, Yuko
- 2PB-090** Influence of salt on interaction polyethylene glycol and water 2 (Kanagawa Univ.) INABA, Mayumi; NAKAMICHI, Syuji; NISHIMOTO, Yuko
- 2PB-091** Estimation of liposome destruction induced from surfactant on the basis of electrochemiluminescence (Prefectura Univ. of Hiroshima) EGASHIRA, Naoyoshi; OHGI, Mitsuyuki; MITOMA, Yoshiharu
- 2PB-092** Investigation of the interaction between GPCR and the ligand by AFM equipped with bio-molecule modified cantilever (Kobe Univ.) TAKENAKA, Musashi; OGINO, Chiaki; MIYACHI, Yusuke; KONDO, Akihiko
- 2PB-093** Expression of influenza B virus full-length nucleoprotein antigens in E. coli (Industrial Research Institute of Shizuoka Prefecture Numazu Technical Support Center) MATSUNO, Masayuki; MUROFUSHI, Keita; OHTA, Toshiya
- 2PB-094** Evaluation for the detection sensitivity of fluorescently-labeled DNA using a fluorescence enhancement technology by an optical interference mirror slide (Tokyo Univ. of Tech.) YASUDA, Mitsuru; AKIMOTO, Takuo
- 2PB-095** Detection of protein interaction using a glass capillary immobilized with Au nanoparticles (Tokyo Univ. of Tech.) HASEGAWA, Tooru; AKIMOTO, Takuo
- 2PB-096** Use of magnetic beads for single nucleotide variation detection based on single base extension (Faculty of Science and Engineering, Doshisha Univ.) FUJISHIMA, Kohei; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2PB-097** Detection of DNA point mutation by allele-specific cleavage of DNA/RNA/DNA chimeric probe with RNase H (Faculty of Science and Engineering, Doshisha Univ.) YUASA, Ayae; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2PB-098** Thermal Luminescence Spectroscopy of Dipeptides Using a Multi-channel Fourier-Transform Chemiluminescence Spectrometer (Tokyo Univ. of Agriculture and Technology; Japan Applied Technology Inc.) YANO, Ayako; YAMADA, Taishi; ISHII, Hiroshi; SATOH, Chikahiro; SEKINE, Masahiko; NAKATA, Munetaka
- 2PB-099** Simple method for the measurement of triacylglycerol in lipid (NARO-NFRI) TSUZUKI, Wakako
- 2PB-100** Estimation of sugar contents of blueberry by near-infrared spectroscopy (Tokyo Univ. of Agricult. Technol.) MITSUKI, Kenichiro; YOSHIMURA, Norio; TAKAYANAGI, Masao; HOSHINO, Hiroaki; OGIWARA, Isao
- 2PB-101** Study of tube radial distribution phenomenon (TRDP) and its application; the effects of pH and salt concentration on phase diagram and chromatogram (Graduate School of Science and Engineering of Doshisha Univ.) KAN, Hyo; JINNO, Naoya; HASIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2PB-102** Detection of influenza virus by electrochemiluminescence combining with immunoliposome (Prefectura Univ. of Hiroshima; Oita Univ.) IGUCHI, Yoshiya; MITOMA, Yoshiharu; HIFUMI, Emi; UDA, Taizo; EGASHIRA, Naoyoshi

Monday, March 26, PM

(15 : 00~16 : 30)

## Education and History

- 2PC-001** Teaching materials development for the movement of colored ions using agar by the microscale experiment (Faculty of Education and Culture, Univ. of Miyazaki) NUMAGUCHI, Kazuhiko; NAKAYAMA, Hayashi; NAKABAYASHI, Kenichi
- 2PC-002** Utility as science learning material of dye sensitized solar cell (Faculty of Education and Culture, Univ. of Miyazaki) NAKABAYASHI, Kenichi; KOBAE, Hiroki
- 2PC-003** Study of the teaching materials of the fuel cell (Ehime Univ., Department of Education) KUDOU, Hiroshi; OHASHI, Atsushi; SHIGEMATSU, Seiji
- 2PC-004** Craft of bronze alloy with the unelectrolyzed tin plating on copper (Tokyo Univ. Sci.) HORI, Hazuki; INOUE, Masayuki
- 2PC-005** Experiment of "Law of Electrolysis" by using current regulative diode (Toyama Univ. of International Study; Univ. of Toyama) HARA, Minoru; KATAOKA, Hiroshi; FUKAI, Akie
- 2PC-006** The Research and experiment for Science Literacy -The flame reaction by elements of foods ingredients and food materials (Toho Univ. Science Department, Medical Department, M-project) MITSUDA, Miyuki
- 2PC-007** The experiment of the property of the water solution using the pigment that extracted from a plant (Ehime Univ., Department of Education) DANO, Rina; OHASHI, Atsushi
- 2PC-008** Teaching materials of enzymes added in detergents (Oyama National College of Technology) MUNEGUMI, Toratane
- 2PC-009** The convenient coloring reaction to detect esters accelerated with cationic surfactants-classification by the component of fatty acids in plant oils- (Tokyo Univ. of Sci.) NAGASAKI, Kazuki; INOUE, Masayuki
- 2PC-010** Saponification of esters accelerated by cationic surfactants-applica-

- tion to synthesis of soap- (Tokyo Univ. Sci) YAMAMOTO, Tuyosi; INOUE, Masayuki
- 2PC-011** Synthesis of pigments utilizing boron oxide supported on silica gel as solid acid (Tokyo Univ. Sci.) SASAKI, Yuka; INOUE, Masayuki
- 2PC-012** Hydrogenation of plant oils catalyzed with chitin-supported palladium (Tokyo Univ. of Sci.) ABIRU, Daisuke; INOUE, Masayuki
- 2PC-013** Discrimination of sugars using gold (III) compound supported on chitosan (Tokyo Univ. of Sci.) HAYAKAWA, Shun; INOUE, Masayuki
- 2PC-014** Synthesis and observation of the absorption spectra using DVD spectroscopy of Co (III) complex in senior high school (Johoku senior high school) NAKAMURA, Jun; AOYAMA, Tomohumi
- 2PC-015** Synthesis and Analysis of a Copper Solvatochromic Complex (Kyoto Univ.; Kobe Univ.) HORIKOSHI, Ryo; FUNASAKO, Yusuke; YAJIMA, Takeshi; MOCHIDA, Tomoyuki; KOBAYASHI, Yoji; KAGEYAMA, Hiroshi
- 2PC-016** Chemistry education in the JST program of the "Mirai no kakakusha yousei kouza" using a micro scale chemistry experiment kit (Shizuoka Univ.) URITANI, Masahiro
- 2PC-017** Reduction of nitrobenzene utilizing ultrasonic washing machine and anionic surfactant (Tokyo Univ. Sci.) GOTO, Yoko; INOUE, Masayuki
- 2PC-018** Feel and learn the True Meaning of "Green Chemistry" through Experiment and Discussion (Tsuyama National College of Technology) HIROKI, Kazuaki; ISHIKAWA, Yasuhiko; HASUNUMA, Kazumi
- 2PC-019** Introduction to Advanced Sciences in the University Experimental Lessons (Univ. of Elector-Communications) OHASHI, Kazutaka
- 2PC-020** The Application of the Worksheets in English for Chemistry Experiment at High School (Taikyū high school in Wakayama prefecture) NASU, Etsuyo
- 2PC-021** The production of the space filling type molecular model using low-priced material (Ehime Univ., Department of Education) OHASHI, Atsushi; KUDOU, Hiroshi
- 2PC-022** Web Educational Materials for Learning the Beauty of Biological Macromolecules (Univ. of Niigata Prefecture) HONMA, Yoshio
- 2PC-023** Development of chemical teaching materials for first year students: atomic structure (Kitasato Univ.; College of Liberal Arts and Sciences) DAIGOKU, Kota
- 2PC-024** Lecture on chemical thermodynamics intending to qualitative understanding. 2. Improvement by using clicker. (Okayama Univ. Sci.) TAKAHARA, Shuichi
- 2PC-025** Study on educational support tools in chemistry using iPhone/iPod touch (Osaka Sangyo Univ.) HASHIMOTO, Yu; TAKANE, Shin-ya
- 2PC-026** Development of environmental-benign teaching material; application for super science high school program. (Kagawa Univ.) TAKAGI, Yumiko; YASUI, Masaki; KAGAWA, Saneyoshi; MAEDA, Keiko
- 2PC-027** Development of environmental-benign teaching material; application for open campus. (Kagawa Univ.) TAKAGI, Yumiko; YASUI, Masaki; KAGAWA, Saneyoshi; MAEDA, Keiko
- 2PC-028** Our events during The International Year of Chemistry 2011 (IYC 2011) at the Osaka Science Museum (Osaka Science Museum) TAKEGAWA, Yukiko
- (Gunma Univ.) MARUYAMA, Takuya; OKU, Hiroyuki; YAMADA, Keiichi; HAYAKAWA, Koichi; YANO, Kazuhiko; KANO, Shigeyuki
- 2PC-039** Stereochemistry of elisabethatriene, a bicyclic intermediate of pseudopteroin biosynthesis (Tokyo Institute of Technology) NASUDA, Masayuki; OHMORI, Miho; OHYAMA, Kiyoshi; FUJIMOTO, Yoshinori
- 2PC-040** Study on the mechanism of the amino group introduction at C-26 in the tomatine biosynthesis. (Tokyo Institute of Technology) MORIUCHI, Yuka; OHYAMA, Kiyoshi; FUJIMOTO, Yoshinori
- 2PC-041** Biosynthesis of 20-hydroxyecdysone in higher plants. Identification of 3 $\beta$ -hydroxy-5 $\beta$ -cholestan-6-one in *Ajuga hairy* roots (Tokyo Institute of Technology) ARAI, Takuya; OHYAMA, Kiyoshi; HIKIBA, Juri; KATAOKA, Hiroshi; FUJIMOTO, Yoshinori
- 2PC-042** Biosynthesis of cyasterone in *Cyathula* sp. Stereochemistry at C-24 of amarasterone A (Tokyo Institute of Technology) HIRAYAMA, Yui; OKUZUMI, Keiko; FUJIMOTO, Yoshinori
- 2PC-043** Investigation of P450 enzymes for the triterpene biosynthesis in *Glycyrrhiza* sp. (Titech) KIRITA, Taka; OHYAMA, Kiyoshi; SAWAI, Satoru; ISHIMORI, Masato; SEKI, Hikaru; SUDOU, Hiroshi; AKASHI, Tomoyoshi; AOKI, Toshio; MURANAKA, Toshiya; SAITOU, Kazuki; FUJIMOTO, Yoshinori
- 2PC-044** Analysis of Sterols derived from rice bran (Industrial Technology Center of Wakayama Prefecture, Tsuno Food Industrial Co., Ltd.) MORI, Hajime; MIYAKE, Yasuhito; TANAKA, Yoshie; OSAKI, Shusuke; MIYAZAKI, Takashi; MORI, Takeshi; TSUNO, Takuo; FUJITA, Muneki; SAWADA, Kazuo

## Sugar

- 2PC-045** Radical Reaction Synthesis of Glycosyl Bromide (The Noguchi Institute) TOJINO, Mami; MIZUNO, Mamoru
- 2PC-046** Synthetic study of N-glycans on solid supports: N-glycosylation and cleavage (Osaka Univ.) SALMASAN, Regina; NAGASAKI, Masahiro; TANAKA, Katsunori; FUKASE, Koichi
- 2PC-047** Synthesis of monosaccharide-based dendrimer-type glycoclusters and PET imaging (Osaka Univ.; RIKEN, Center for Molecular Imaging Science) LI, Haosheng; SIWU, Eric R. O.; IWATA, Takayuki; NOZAKI, Satoshi; HASEGAWA, Koki; WATANABE, Yasuyoshi; TANAKA, Katsunori; FUKASE, Koichi
- 2PC-048** Stereoselective Synthesis of 2,6-Disubstituted 8-Oxopurine- $\beta$ -nucleosides by Using Intramolecular Glycosylation (Aoyama Gakuin Univ.) SAWADA, Shuhei; NITTA, Daisuke; SUGIMURA, Hideyuki

## Others

- 2PC-049** Facile synthesis of halohydrin derivatives from epoxides by using metal-halide (Graduate School of Science and Engineering, Iwaki Meisei Univ.) SATO, Hirotsugu; KOSHISAKA, Akiko; KITAGOU, Yumi; UMEMURA, Kazuyuki
- 2PC-050** Synthetic Studies of novel Antibiotics, Watasemycins (Graduate School of Science and Engineering, Iwaki Meisei Univ.) KON, Takumi; SUZUKI, Hiroyoshi; UMEMURA, Kazuyuki
- 2PC-051** Synthetic Study of the Marine Natural Product Jamaicaimides (Faculty of Science and Technology, Sophia Univ.) WATANABE, Satoshi; TANAKA, Ayano; USUKI, Toyonobu
- 2PC-052** Synthetic Study of Gomadalactones, Contact Sex Pheromones of Anoplophora malasiaca (Grad. School of Sci. and Tech., Niigata Univ. Faculty of Eng., Niigata Univ.) HAGIWARA, Hisahiro; NAOE, Kohei; KANAYAMA, Masahiro; MASUBUCHI, Takashi; HOSHI, Takashi; SUZUKI, Toshio
- 2PC-053** Lipid components analysis of *Anacardiae* species in South East Asia (Univ. of Meiji) YAMAGUCHI, Koki; EIADTHONG, Wichan; HONDA, Takayuki; MIYAKOSHI, Tetuo
- 2PC-054** Effect of Seagrass *Thalassia hemprichii* Extracts on Larvae of Sessile Organisms (Faculty of Education, Univ. of the Ryukyus) SUEYOSHI, Kosuke; NAKANO, Yoshikatsu; IGUCHI, Akira; TERUYA, Toshiaki

## Catalysts and Catalysis

- 2PC-057** Adsorption and Reactivity of Methyl Acetate over Modified Silver Catalyst Supported over Silica (Graduate School of Science and Engineering, Yamaguchi Univ.) SAKATA, Yoshihisa; TAKAO, Shouta; YAMASHITA, Tatsuyoshi; FUKUSHIMA, Yuuhei; MAEDA, Yuuki; SADAKUNI, Atsuko; IMAMURA, Hayao
- 2PC-058** Reduction in water with a linear polystyrene-stabilized metal nanoparticles (Osaka Institute of Technology) OHTAKA, Atsushi; INUI, Shigeaki; YAMAGUCHI, Tomohiro; ARIMA, Takuya; SHIMOMURA, Osamu; NOMURA, Ryoki
- 2PC-059** Studies on the activation process of the preparation of tartaric acid-modified nickel catalyst by XPS (Univ. of Toyama, Metek Kitamura, Osaka Univ.) OSAWA, Tsutomu; LEE, I-Yin Sandy; IKEDA, Shinji; KITAMURA, Takayuki; INOUE, Yoshihisa; BOROVKOV, Victor
- 2PC-060** Research of the difference in reactivity in Ni surface and Ni/CeO<sub>2</sub> interface in the DRM reaction using Ni/CeO<sub>2</sub> (Utsunomiya Univ.; Catalysis chemistry laboratory) YUZAWA, Shigemasa; EGAWA, Chikashi
- 2PC-061** Degradative treatment of chlorophenols by the hydrothermal

## Natural Products Chemistry

### Fatty acids, and the related compounds

- 2PC-031** Total Synthesis of the Natural Dihydronaphthalenes, Utilizing Ring Expansion of Cyclopropanes. (Faculty of Textile Science and Technology, Shinshu Univ.) SAKAI, Ryo; TUCHITANI, Taiki; NISHII, Yoshinori
- 2PC-032** The Highly Selective Homo-Michael Addition Using Cyclopropane and C3-Synthetic Tool (Faculty of Textile Science and Technology, Shinshu Univ.) TSUBOUCHI, Issei; HORINOCHI, Shunsuke; KOBAYASHI, Yasuhiko; NISHII, Yoshinori
- 2PC-033** Structural studies on novel palytoxin congeners in dinoflagellates using Q-TOF LC/MS (Agilent Japan) UCHIDA, Hideaki; TAIRA, Yohsuke; YASUMOTO, Takeshi
- 2PC-034** Studies toward the Total Synthesis of Tetrahydrofuran-diol Derivatives Obtained as Novel Arachidonic Acid Metabolites (Aoyama Gakuin Univ.) TOYODA, Chikahiro; SUGIMURA, Hideyuki
- 2PC-035** HPLC Analysis of Proanthocyanidins from Bark of *Ziziphus jujuba* (Graduate School of Science and Technology, Tokyo Institute of Technology) TAKAHASHI, Haruko; YANO, Takahisa; OHMORI, Ken; KUSUMI, Takenori; SUZUKI, Keisuke
- 2PC-036** Isolation and structure determination of 22-membered macrolide from 28-membered macrolide haldoctacosanolides producing *Streptomyces* (Graduate School of Science and Engineering, Tokyo Institute of Technology) YAMADA, Akio; KUDO, Fumitaka; EGUCHI, Tadashi
- 2PC-037** Characterization of polyphenols extracted from *Prunus mume* fruit (Industrial Technology Center of Wakayama Prefecture; Kinki Univ.) TANAKA, Yoshie; MORI, Megumi; HORINISHI, Asako; KAWABATA, Tomoaki; AKAGI, Tomohiro; TAKAGAKI, Masafumi; YAMANISHI, Hisako; MAEDA, Yasukatsu; IKEMOTO, Shigeaki; MITANI, Takahiko

### Terpenes, Steroids

- 2PC-038** a new synthetic route toward artemisinin from 2-cyclohexene-1-one.

- oxidation method with metal-doped titanium dioxide catalysts (Osaka City Univ.) KOMETANI, Noritsugu; NAKAO, Kyohei; HONDA, Hiroki; SHIMOKAWA, Ai
- 2PC-062** Possibility of an electron beam assistance type catalyst reaction (Shimane Institute for Industrial Technology) TAJIMA, Masahiro
- 2PC-063** Activation of molecular oxygen in air and application to organic reaction using polyaniline. (Graduate School of Engineering, Toin Univ. of Yokohama; Faculty of Biomedical Engineering, Toin Univ. of Yokohama) WATANABE, Hiroo; ODA, Takuma; SAITO, Kiyoshi
- 2PC-064** Reaction behavior of hydroxytyrosol with active oxygen species using a polyaniline / oxygen / aqueous system (Graduate School of Engineering, Toin Univ. of Yokohama) YOUTA, Taichi; SAITO, Kiyoshi
- 2PC-065** Chromene Synthesis by Eliminative Cyclization of Phenol with  $\alpha, \beta$ -Unsaturated Carbonyl Compounds over Halide Cluster Catalysts (Saitama Univ.; RIKEN) TAKAHASHI, Toru; NAGASHIMA, Sayoko; KAMIGUCHI, Satoshi; CHIHARA, Teiji
- 2PC-066** Cracking of tert-butyl methyl ether (MTBE) over hexanuclear molybdenum sulfide cluster catalysts (RIKEN; Tokyo Univ. of Science; Saitama Univ.) KAMIGUCHI, Satoshi; SEKI, Yasunari; SATAKE, Akiharu; NAGASHIMA, Sayoko; CHIHARA, Teiji
- 2PC-067** Multiplicity in reaction of limonene included in zeolite (Yamagata Univ.) MIMORI, Naoaki; KUMAGAI, Takunori; KURIYAMA, Yasunao; ITOH, Hiroki
- 2PC-068** Steam Cracking of n-Hexane using Phosphorus-modified ZSM-5 Catalysts Calcined at High Temperature (National Institute of Advanced Industrial Science and Technology (AIST)) YAMAGUCHI, Aritomo; JIN, Dingfeng; INOUE, Tomoya; IKEDA, Takuji; SATO, Koichi; HIYOSHI, Norihito; SHIRAI, Masayuki; MIZUKAMI, Fujio; HANAOKA, Takaaki
- 2PC-069** Single crystal structure analysis of phenol-silicalite-1 (National Defense Academy) KAMIYA, Natsumi; OSHIRO, Takanori; TAN, Sachio; NISHI, Koji; YOKOMORI, Yoshinobu
- 2PC-070** Mechanism elucidation of organic reactions on nano-porous Au by surface science techniques (IIAIR, Tohoku Univ.; ASI, RIKEN; Depart. Chem. Tohoku Univ.; CIR, Tohoku Univ.; Interdisciplinary Grad. School Sci. Eng., Tokyo Institute of Technology; WPI-AIMR, Tohoku Univ.) MINATO, Taketoshi; ITO, Eisuke; ISHIKAWA, Yoshifumi; HATAKEYAMA, Naoya; ITO, Takashi; HARA, Masahiko; KIM, Yousoo; ASAO, Naoki; YAMAMOTO, Yoshinori
- 2PC-071** Electronic Structure of Ce-Fe-C Three-way Catalyst Studied by X-ray Absorption Spectroscopy (Spring-8) SAKAI, Chikako; HARADA, Yoshihisa; OSHIMA, Masaharu; KAMEYAMA, Hideo; KAKU, Yu; KIMATA, Fumikazu; OKUMURA, Hiroaki; NAKAHARA, Yunosuke; HOSHITO, Ouki; MIYATA, Seizo
- 2PC-072** Effect of Solvothermal Synthesis Conditions of Ga<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub> Solid Solutions on the Activities for Selective Catalytic Reduction of NO with Methane (Kyoto Univ.) LEE, Masakazu; UEDA, Mao; WATANABE, Tsunenori; KANAI, Hiroyoshi; HOSOKAWA, Saburo; WADA, Kenji; INOUE, Masashi
- 2PC-073** Synthesis and Characterization of Water Soluble Oxidative Degradation Catalysts using heteropoly acid for Generating Hydroxyl radical (TRI-Osaka) HAYASHI, Hirokazu; NAKASHIMA, Yoichi
- 2PC-074** Effect of surface modification of silica-supported rhodium catalyst on the hydrodechlorination of *para*-chlorophenol in a mixed solvent of water-ethanol (Nihon Univ., College of Science and Technology, Department of Liberal Arts and Science) YONEDA, Tetsuya; OKABE, Katsuma; AOYAMA, Tadashi; TAKIDO, Toshio; KONUMA, Kenji
- 2PC-075** Highly Efficient and Selective Hydrogenation of Nitroaromatics on Photoactivated Rutile Titanium Dioxide (Osaka Univ.) TOGAWA, Yoshiki; TSUKAMOTO, Daijiro; SHIRAI, Yasuhiro; HIRAI, Takayuki
- 2PC-076** Photocatalytic reductive deoxygenation of styrene oxide to styrene (Kinki Univ.) YAMAMOTO, Satoshi; IMAMURA, Kazuya; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 2PC-077** Oxidation reaction of stilbene derivative with TiO<sub>2</sub> photocatalyst (Osaka Prefecture Univ. College of Technology) HASHIMOTO, Yuichiro; HIGASHIDA, Suguru; MATSUMURA, Michio
- 2PC-078** Immobilization of dye molecules on calixarene-modified Pt/TiO<sub>2</sub> photocatalyst and investigation on its photocatalytic performances in the production of hydrogen under visible light (Osaka Univ.) MATSUURA, Sachio; KAMEGAWA, Takashi; YAMASHITA, Hiromi
- 2PC-079** Photocatalytic dehydrogenative oxidation of aromatic alcohols by platinum-loaded titanium(IV)oxide (Kinki Univ.) IMAMURA, Kazuya; TSUKAHARA, Hikaru; HAMAMICHI, Kenta; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 2PC-080** Photocatalytic Hydrodenitrogenation of Aromatic Cyanides on Titanium Dioxide loaded with Pd Nanoparticles (Osaka Univ.) SUGANO, Yoshitsune; FUJIWARA, Keisuke; SHIRAI, Yasuhiro; HIRAI, Takayuki
- 2PC-081** One-Pot N-monoalkylation of amines with alcohols on titanium dioxide loaded with Pd nanoparticles by tandem photocatalytic and catalytic reactions (Osaka Univ.) FUJIWARA, Keisuke; SUGANO, Yoshitsune; SHIRAI, Yasuhiro; HIRAI, Takayuki
- 2PC-082** Selective photocatalytic oxidation of benzyl alcohol in aqueous suspension of palladium ion-modified titanium oxide(IV) under visible light irradiation (Kinki Univ.) KITANO, Sho; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 2PC-083** Fabrication of Titania-metal binary hybrid nano-networks and their photocatalytic activities (Shinshu Univ.) SUZUKI, Masahiro; MATUMOTO, Shinichi; HANABUSA, Kenji
- 2PC-084** Visible-light induced hydrogen production on the titanium dioxide photocatalyst modified with organic compounds involving carbon and nitrogen sources (Osaka Institute of Technology) HIGASHIMOTO, Shinya; HIKIDA, Kouji; SAKATA, Yoshihisa
- 2PC-085** Photocatalytic activities of Fe-loaded nitrogen- and silicon-co-doped titanias under visible-light irradiation (Kyoto Univ.) KURATA, Ryohei; SUGIURA, Motohiko; HOSOKAWA, Saburo; IWAMOTO, Shinji; KOBAYASHI, Keita; WADA, Kenji; INOUE, Masashi
- 2PC-086** Preparation of Cr-Tadoped SrTiO<sub>3</sub> photocatalyst used to solar water splitting by Z-scheme mechanism. (AIST) FUJIYOSHI, Satoshi; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro
- 2PC-087** Reduction of nitrate ion over BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> photocatalyst using water as a reductant under various reaction conditions (Faculty of Science, Tokyo Univ. of Science) SHISHIDO, Wataru; ADACHI, Mariko; SAITO, Kenji; KUDO, Akihiko
- 2PC-088** Water splitting over Z-scheme photocatalyst composed of TiO<sub>2</sub>:A,Sb (A = Rh,Cr) as an O<sub>2</sub>-evolving photocatalyst in the presence of an Fe<sup>3+/2+</sup> electron mediator under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) YAMAGUCHI, Masaharu; ISHIGURO, Yoshimi; SAITO, Kenji; KUDO, Akihiko
- 2PC-089** Reduction of high concentration of nitrate over BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> photocatalyst loaded with various cocatalysts (Faculty of Science, Tokyo Univ. of Science) MOCHIZUKI, Yuta; SHISHIDO, Wataru; ADACHI, Mariko; SAITO, Kenji; KUDO, Akihiko
- 2PC-090** Photocatalytic Reduction of CO<sub>2</sub> over (MGa)<sub>x</sub>Zn<sub>2(1-x)</sub>S<sub>2</sub> (M = Ag, Cu) photocatalyst under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) NAKAMURA, Aki; WATO, Tomoaki; SAITO, Kenji; KUDO, Akihiko
- 2PC-091** Overall water splitting over Z-scheme photocatalyst composed of BaTa<sub>2</sub>O<sub>6</sub> codoped with Ir and La as a H<sub>2</sub>-evolving photocatalyst under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) KATO, Takaaki; YAMAGUCHI, Masaharu; ISHIGURO, Yoshimi; SAITO, Kenji; KUDO, Akihiko
- 2PC-092** Photocatalytic property of amorphous oxide semiconductor (Tokyo Univ. of Sci.) SAITO, Kenji; KUDO, Akihiko
- 2PC-093** Stability of oxide semiconductor photoelectrode for water splitting hydrogen production (ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY (AIST)) ONOZAWA, Nobuko; MISEKI, Yugo; FUNAKI, Takashi; KUSAMA, Hitoshi; KITAO, Osamu; KONISHI, Yoshinari; SAYAMA, Kazuhiro
- 2PC-094** Direction control of photochemical electron transfer between p-type semiconductor electrode and metal complexes (Tokyo Tech.) SAHARA, Go; MORIKAWA, Takeshi; SEKIZAWA, Keita; YUI, Tatsuo; SEKITO, Takeshi; KAJINO, Tsutomu; ISHITANI, Osamu
- 2PC-095** Photocatalysis induced by iron ion species naturally contained in a clay compound (Aomori Prefectural Industrial Technology Research Center; Nihon Kohken Inc.; Hirosaki Univ.) KAKUTA, Seiji; OKAYAMA, Toru; KATO, Megumi; ODA, Akihiro; ABE, Toshiyuki
- 2PC-096** Surface Modification of Photocatalyst with Layered Double Hydroxide for Reductive Decomposition of Nitrate (Faculty of Science, Tokyo Univ. of Science) ADACHI, Mariko; SHISHIDO, Wataru; KUDO, Akihiko

Tuesday, March 27, AM

(10 : 00~11 : 30)

Organic Chemistry -Reaction and Synthesis-  
Aliphatic and Alicyclic Compounds

- 3PA-001** Efficient preparation of amides from aldehydes and amines with DIH or molecular iodine (Graduate School of Science, Chiba Univ.) BABA, Haruka; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PA-002** One-pot conversion of aromatic bromides into N,N-disubstituted aromatic amides (Graduate School of Science, Univ. of Chiba) TAKAHATA, Misato; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PA-003** One-pot conversion of aromatics and aromatic bromides into aromatic esters and ketones (Chiba Univ.) USHIJIMA, Sousuke; MORIYAMA, Katsuhiko; TOUGOU, Hideo
- 3PA-004** Study of the one-pot transformation of alkyl and aryl bromides to the nitriles (Chiba Univ. Graduate School of Science) ISHII, Genki; TOGO, Hideo; MORIYAMA, Katsuhiko
- 3PA-005** Arylation of alcohols and phenols using unsymmetrical diaryliodonium salts. (Chiba Univ.) KAKINUMA, Yoji; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PA-006** The Corey-Kim oxidation with ion-supported methyl sulfide (Chiba Univ.) TSUCHIYA, Daisuke; TABATA, Masayuki; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PA-007** Hetero Diels-Alder Reaction of  $\alpha$ -Amino-*o*-quinodimethane Generated by Photolysis (Gunma Univ.) FUJIWARA, Kennichi; SANO, Hiroshi
- 3PA-008** Asymmetric Cycloaddition of 2-Iminobenzyltributylstannane with  $\alpha, \beta$ -Unsaturated Aldehydes Catalyzed by Proline/AcOH (Gunma Univ.) SHIRAKAWA, Hidenori; SANO, Hiroshi



- 3PA-009** Synthesis of Modified OFF-ON Fluorogenic Compounds and Its Fluorescence Property for Environmentally-Friendly Catalyst Screening (Shizuoka Univ.) MINAMI, Yusuke; MASE, Nobuyuki
- 3PA-010** Development of Gas-Liquid-Solid Phase Hydrogenation with Micro-Nano Bubble (Shizuoka Univ.) ISOMURA, Shogo; NAGANO, Toshihisa; MASE, Nobuyuki
- 3PA-011** Oxidative ring-opening reaction of bis(2-benzoylcyclohexanonnato) copper(II) complex (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; AKIZUKI, Jun; KUNIZAWA, Tomoya
- 3PA-012** The study of the oxidation of bis(*p*-substituted dibenzoylmethanato) copper(II) complexes (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; KUNIZAWA, Tomoya; AKIZUKI, Jun
- 3PA-013** Synthesis of Cyclopentenone Derivative by N-Heterocyclic Carbene Catalyzed Tetramerization of Methyl Acrylate (Material Science and Engineering Nagoya Institute of Technology) NAMERA, Shoko; WASHIO, Atsushi; MATSUOKA, Shin-ichi; TAKAGI, Kouji; SUZUKI, Masato
- 3PA-014** Mechanistic Insights into Tail-to-Tail Dimerization of Methyl Methacrylate by N-Heterocyclic Carbene Catalyst. (Nagoya Institute of Technology) KATO, Terumasa; OTA, Yoshiya; MATSUOKA, Shin-ichi; TAKAGI, Kouji; SUZUKI, Masato
- 3PA-015** Metal bisamidinate catalyzed asymmetric alkylation of 1,2-dicarbonyls (Department of Chemistry, Rikkyo Univ.) UEKI, Yoshiyuki; YAMANAKA, Masahiro
- 3PA-016** Development of Enantioselective Hydrophosphonylation of  $\alpha$ -ketoesters Catalyzed by Zn-Bisamidinate Complex (Rikkyo Univ.) KAIZU, Keisuke; HORIUCHI, Yumi; YAMANAKA, Masahiro
- 3PA-017** Development of asymmetric allylation of  $\alpha$ -ketoesters catalyzed by Cu-bisamidinate complex. (Rikkyo Univ.) UDAGAWA, Takao; YAMANAKA, Masahiro
- 3PA-018** Development of cationic Zn-bisamidinate catalyzed asymmetric Mukaiyama aldol reaction of  $\alpha$ -ketoesters (Rikkyo Univ.) KISHI, Nobutaka; GOTO, Ryo; YAMANAKA, Masahiro
- 3PA-019** Polystyrene-supported TBD as an efficient and reusable organocatalyst for cyanosilylation of aldehydes and ketones (Ibaraki Univ.) FUJIKAWA, Shohei; MATSUKAWA, Satoru
- 3PA-020** Double Michael Addition of Active Methylene Compounds to Dienones Using Dimethyl Sulfoxide and Molecular Sieves 4A (Faculty of Science, Ibaraki Univ.) KOJIMA, Yosuke; KOIKE, Kenji; ORIYAMA, Takeshi
- 3PA-021** Synthesis of Spiro-fused Oxindole via [2 + 2] Cycloaddition Reaction of Isatin Derivatives (Faculty of Science, Ibaraki Univ.) KOIKE, Kenji; ORIYAMA, Takeshi
- 3PA-022** Dehydration-type Ti-Claisen condensation between  $\alpha$ -sulfonyloxy acetates and formyl esters: Application to several cross coupling reactions (School of Science and Technology, Kwansai Gakuin Univ.) KAMADA, Risa; KITAGUCHI, Hideya; TANABE, Yoo
- 3PA-023** (*E*)-, (*Z*)-Stereocomplementary 1,4-Addition-Elimination of  $R_2CuLi$  with (*E*)-, (*Z*)-Enol Tosylates. (Kwansei Gakuin Univ.) ASHIDA, Yuichiro; SUZUKI, Takeyuki; TANABE, Yoo
- 3PA-024** Mechanistic Study on the Reaction of MCM-41-Supported Amines-Catalyzed Direct Aldol Reaction of Trifluoroacetaldehyde Hemiacetal (Gifu Univ.) FUNABIKI, Kazumasa; SAKAIDA, Yuta; KUBOTA, Yasuhiro; MATSUI, Masaki; KUBOTA, Yoshihiro
- 3PA-025** 2-Pyridone Synthesis Using Conjugate Addition Reaction of Malonic Esters to Alkynyl Imines and Its Application (Mie Univ.) MATSUMOTO, Hisae; KUGISAKI, Naoki; HACHIYA, Iwao; SHIMIZU, Makoto
- 3PA-026** Study of N-Alkylation of  $\beta$ ,  $\gamma$ -Alkenyl- $\alpha$ -iminoester (Mie Univ.) KAMIMURA, Satoshi; TANAKA, Hirotaka; SHIMIZU, Makoto
- 3PA-027** Development of New Synthetic Routes to 3,4-Ethylenedioxythiophene(EDOT) and Its Analogues (Mie Univ.) MIZOTA, Isao; YAMAMOTO, Toshihiro; HACHIYA, Iwao; SHIMIZU, Makoto
- 3PA-028** Low Valent Titanium-Mediated Radical Reduction of Oxetanes (Kanagawa Univ.) TAKEKOSHI, Naoto; SHOJI, Noriaki; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 3PA-029** Development of axially chiral reaction field for acylation using hydrogen-bonding between amides (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) KOMATSU, Shoko; KIHARA, Nobuhiro
- 3PA-030** Novel and Metal free  $\alpha$ -Tosyloxylation of Ketones using I<sub>2</sub>. (Graduate School of Science, Chiba Univ.) TANAKA, Ayumi; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PA-031**  $\alpha$ -Diketone Formation of 1-Ethynyl-2-sulfinylbenzene Derivatives with Iodine (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; SHIBATA, Hiroyuki; AKAZOME, Motohiro
- 3PA-032** Chiral Bis(Imidazolidine)Pyridine-Cu Complex-catalyzed Enantioselective [3+2] Cycloaddition of Azomethine Imines with Alkynes (Graduate school of Science, Chiba Univ.) OGINO, Yuta; MISHIRO, Asami; ARAI, Takayoshi
- 3PA-033** Intramolecular amidohydroxylation of N-alkenyl sulfonamides with inorganic reagent. (Chiba Univ.) IZUMISAWA, Yuhta; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PA-034** Synthesis of malonamide and its derivatives having several same units and synthesis of their transition metal complexes (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; IWASAKI, Kei
- 3PA-035** Oxidative radical reaction of 1,3-dicarbonyl compounds (Tokyo Denki Univ. School of Engineering) ENOMOTO, Takumi; SHINOZAKI, Hiraku
- 3PA-036** Synthesis of Hydroperoxides by reaction of ketone and hydrogen peroxide and Radical Ring OpeningDimerization (Univ. of Tokyo Denki; Synthesis Organic Chemistry Lab.) MASUDA, Satoko; WATANABE, Lisa; WATANABE, Riki; SHINOZAKI, Hiraku
- 3PA-037** Fluorination of Bicyclic Cyclobutanone Derivatives (Toho Univ.) YAMAUCHI, Shoi; WATANABE, Soichiro
- 3PA-038** Esterification of aliphatic diols accompanying cleavage of carbon-carbon bond in  $\beta$ -diketone. (Grad. school engin., Toyo Univ.; Func. Mater. Lab.) TSUZAWA, Hideki; IINO, Tsukasa; AIKAWA, Syunnti; YOSHIDA, Yasuhiko
- 3PA-039** Preparation of  $\gamma$ -zirconium phosphate immobilized hydrophobic functional group and its used esterification reaction in water (Coll. Ind. Tech., Nihon Univ.) HIMIZU, Kanaho; FJII, Takayoshi
- 3PA-040** Synthesis of New Calixarene Ligands Bearing XantphosMoiety and Their Application to Hydroformylation (Department of Applied Molecular Chemistry, College of Industrial Technology, Nihon Univ.) GOTO, Miyuki; SHIMIZU, Shoichi; ICHIKAWA, Hayato
- 3PA-041** Cyanomethylesterification of Aldehydes with Pyridinium Hydrobromide Perbromide in Water (Dept. of Chemistry, Fukushima Medical Univ.) SAYAMA, Shinsei
- 3PA-042** Synthesis of Chiral Lactones by Lipase-catalyzed Optical Resolution (Kitami Inst. of Tech.) SHIMOTORI, Yasutaka; AOYAMA, Masakazu; MIYAKOSHI, Tetsuo
- 3PA-043** Catalytic Desymmetrization of *meso*-N-(Heteroarenesulfonyl)aziridines with TMSNCS (Nagoya Institute of Technology) KOYARI, Madoka; HAYASHI, Masashi; NAKAMURA, Shuichi; SHIBATA, Norio
- 3PA-044** Organocatalytic enantioselective decarboxylative addition of malonic acids half thioesters (Nagoya Institute of Technology) HARA, Noriyuki; NAKAMURA, Shuichi; SHIBATA, Norio
- 3PA-045** Organocatalytic enantioselective decarboxylative addition of malonic acids half thioesters to ketimines using novel N-heteroarenesulfonyl organocatalyst. (Nagoya Institute of Technology) SANO, Masahide; HARA, Noriyuki; NAKAMURA, Shuichi; SHIBATA, Norio
- 3PA-046** Synthesis and biological activities of 5'-substituted thalidomides (Nagoya Institute of Technology) MAENO, Mayaka; ITOU, Emi; TOKUNAGA, Etsuko; SHIBATA, Norio
- 3PA-047** Synthesis of optically active delta-dodecalactone using L-amino acid (Meiji Univ. Graduate School, Laboratory of Synthetic Organic Chemistry) SEKI, Shota; SHIMOTORI, Yasutaka; MIYAKOSHI, Tetsuo
- 3PA-048** Synthesis of optically active of whisky lactones (Univ. of Meiji, Synthetic organic chemistry lab) MORITA, Shiori; SIMOTORI, Yasutaka; MIYAKOSHI, Tetsuo
- 3PA-049** Oxidation of Alcohols using a New PEG-Supported Oxidant the Oxidant. (Meisei Univ.) NAKANO, Mariko; MATSUMOTO, Kazutsugu

## Organic Chemistry -Reaction and Synthesis-

- 3PA-050** Application and synthesis of chiral surfactant (Faculty of Pharmaceutical Science, Hiroshima International Univ.) KODAMA, Yoritatsu
- 3PA-051** Synthesis of Water-soluble Fulleropyrrolidine Bearing N-PEG Pyridinium Unit (Sojo Univ.; Phoencis) MIZUKI, Keiji; HONDA, Taro; MAEDA, Kouhei; HATTA, Taizo
- 3PA-052** Novel synthesis approach of compounds for oxygen-18(18O) labeled (TAIYO NIPPON SANSCO Corporation, Tsukuba Laboratories) SHIMODAIRA, Haruki

## Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

- 3PA-053** Mn(III)-Based Oxidative Cyclization of N-Benzyl-3-oxobutanamides (Kumamoto Univ.; Grad. School Sci. & Tec.) NISHINO, Hiroshi; HIDESHIMA, Kouta
- 3PA-054** Synthesis of Indolinones Using Oxidative Radical Cyclization and Conversion into the Corresponding Indoles (Kumamoto Univ.; Fac. Sci.) TADANO, Shinji; NISHINO, Hiroshi

## Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds

- 3PA-055** Synthesis of novel dodecasubstituted porphyrin bearing *meso*-thienyl groups and attempts at conversion to the 16 $\pi$  oxidized form. (Toho Univ.) TAKAHASHI, Masashi; MATSUKAWA, Shiro; FUKUI, Arata
- 3PA-056** Attempts at synthesis of the doubly oxidized species (16 $\pi$ ) of dodecasubstituted porphyrin bearing  $\beta$ -alkoxy groups. (Toho Univ.) TAKAHASHI, Masashi; MATSUKAWA, Shiro; KAWATO, Kunihiro
- 3PA-057** Synthesis of  $\beta$ -octaisobutyl-*meso*-tetraphenylporphyrin-phosphorus (V) complexes (Toho Univ.) TAKAHASHI, Masashi; MATSUKAWA, Shiro; TOINAGA, Makoto
- 3PA-058** Examination of synthesis of novel apical-equatorial- equatorial type tridentate ligand (Toho Univ.) TAKAHASHI, Masashi; MATSUKAWA, Shiro; SUZUKI, Kaori

- 3PA-059** Preparation of Novel peri-Xanthenoxanthene Derivatives (Nara National College of Technology; CREST) IMAMURA, Kazuhiko; MIZUTANI, Yusuke; KAMEI, Toshiyuki; SHIRAI, Soichi; TANI, Takao; INAGAKI, Shinji; SHIMADA, Toyoshi
- 3PA-060** 9,9'-[5-[(Nitrilo(diphenyl)- $\lambda$ -6-sulfanyl)-1,3-phenylene]bis(9*H*-carbazole) (Coll. Ind. Tech., Nihon Univ.) ISHII, Takaya; FUJII, Takayoshi
- 3PA-061** Baeyer-Villiger Oxidation with Hydrogen Peroxide and Novel Seleninic Acid Catalyst Bearing Trifluoromethoxy group (College of Industrial Technology, Nihon Univ.) SUDA, Yusuke; ICHIKAWA, Hayato; SHIMIZU, Shoichi
- 3PA-062** Synthesis, Structure and Properties of Pentaphenylphospholes (Univ. of Fukui) ASAHARA, Masahiro; KAWABATA, Yasunori; KODERA, Yusuke; AOYAMA, Kinuyo
- 3PA-063** Syntheses and Controlling the Coordination Mode of Cyclotriphenylphazene Ligands for Metal Complexes (Kitasato Univ.) KAJIYAMA, Kazumasa; SUZUKI, Masataka; KOJIMA, Masanori
- 3PA-064** Reaction of Stable Iodonium Ylides with HF Reagents (Saga Univ.) GONDO, Keisuke; KITAMURA, Tsugio
- 3PA-065** Iron chloride/silica gel-catalyzed *O*-acetylation under solvent-free conditions (Osaka Municipal Technical Research Ins.) MIHARA, Masatoshi; NAKAI, Takeo; IWAI, Toshiyuki; ITO, Takatoshi; OHNO, Toshinobu; MIZUNO, Takumi
- 3PA-066** A Efficient Synthesis of Cyclic Organophosphorus Compounds via Intramolecular Friedel-Crafts Phosphorylation (Osaka Municipal Technical Research Ins.; Marubishi Oil Chemical Co., Ltd.) ITO, Takatoshi; MIHARA, Masatoshi; NAKAI, Takeo; IWAI, Toshiyuki; MIZUNO, Takumi; OHNO, Toshinobu; ISHIKAWA, Akira; KOBAYASHI, Jun-ichi
- 3PA-067** Fixation of Carbon Dioxide by Diamines and the Use of Carbon Dioxide as a Carbonyl Source for the Synthesis of Urea Derivatives. (Osaka Prefecture Univ.) KITA, Shota; SONODA, Motohiro; MASUNO, Haruna; YAMAGUCHI, Kotaro; OGAWA, Akiya
- 3PA-068** Reaction of hydroido-selenolato Pt(II) complexes having a bulky substituent with alkynes (Saitama Univ.) AOKI, Yutaro; KAMON, Hitomi; NAKATA, Norio; ISHII, Akihiko
- 3PA-069** Bismuth-Carbon Bond Forming Reaction Using Dibismuthines (AIST;Tokyo Univ. of Science) SHIMADA, Shigeru; KODAMA, Nozomu; MARUYAMA, Junpei; YAMASHITA, Takashi
- 3PA-070** Synthesis of bicyclic isothioureas from the reaction of cyclic thioureas with dibromoalkanes using KF/Al<sub>2</sub>O<sub>3</sub> (College of Systems Eng. and Sci., Shibaura Inst. of Tech.) KANNO, Shota; OKUAKI, Akira; AOYAMA, Tadashi; SAKAMOTO, Masami; KODOMARI, Mitsuo
- 3PA-071** Formation of Gold Cluster Stabilized by Coordination of Sulfide (Tokyo Metropolitan Univ.) OONISHI, Takaya; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 3PA-072** Introduction of Two Different Substituents onto Difluorovinylidene Group via Stepwise Cross-Coupling Reactions (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SUZUKI, Naoto; ICHITSUKA, Tomohiro; FUJITA, Takeshi; ICHIKAWA, Junji
- 3PA-073** Reaction of 1,1-Dihalophospholenium Salts with Hydrogen Sulfide in the Presence of Various Cyclic Ethers (Chubu Univ.) ANDO, Fumio; NIYOMURA, Osamu; KOTO, Chubu Univ.
- 3PA-074** Synthesis of five-membered ring selenide compounds with a long alkyl chain (Tokai Univ.) KATAKURA, Arisa; TAKAHASHI, Kohei; IWAOKA, Michio
- 3PA-075<sup>#</sup>** Evaluation of antioxidative ability of selenide compounds (Tokai Univ.) LIN, Ying-yin; TAKAHASHI, Kohei; KATAKURA, Arisa; IWAOKA, Michio
- 3PA-076** Cu(OTf)<sub>2</sub>-Catalyzed cross-condensation of thiocarboxylic acids and synthesis of substituted hexahydroadamtanes. (Tokyo Institute of Technology; Chemical Resources Laboratory) MATSUMOTO, Mitsuhsa; MAKIOKA, Yoshikazu; TANIGUCHI, Yuki
- 3PA-077** Transacylation of alkanedioic acids and thioacetic acid using solid acid catalyst (Tokyo Institute of Technology) MURATA, Haruki; MAKIOKA, Yoshikazu; TANIGUCHI, Yuki
- 3PA-078** Synthesis of Primary Amine Having Gluconamide Branches (Okayama Univ.) TAKAHASHI, Nobuhiro; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka
- 3PA-079** Design and development of nanoimprint materials for optical devices (Fac. of Engin., Iwate Univ.) OGAWA, Satoshi; SATOU, Shunsuke; MURAOKA, Hiroki; NISHIKAWA, Takao
- 3PA-080** Synthesis and characterization of aryl-functionalized 2,4,6-tri(2-thienyl)-1,3,5-triazine derivatives (Fac. of Engin., Iwate Univ.) MURAOKA, Hiroki; MORI, Masayoshi; OGAWA, Satoshi
- 3PA-081** Synthetic development of terminal-modified type poly(p-phenylene-sulfide) for the improvement of the thermal properties (Fac. of Engin., Iwate Univ.) OGAWA, Satoshi; ARAKI, Shun; INADA, Satoshi; MURAOKA, Hiroki
- 3PA-082** Synthesis of monoanionic chelate ligands containing a nitrogen atom via the reaction of thioamide dianions with ketones. (Department of Chemistry, Faculty of Engineering, Gifu Univ.) MIYAHARA, Keitaro; NAGAYA, Eri; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PA-083** Radical addition reaction of selenophosphoric acid derivatives having a binaphthyl group (Department of Chemistry, Faculty of Engineering, Gifu Univ.) MAEKAWA, Yuki; MONZAKI, Masaki; ANDO, Takahumi; MURAI, Toshiaki

## Organic Chemistry -Reaction and Synthesis-Metallo-organic Chemistry

- 3PA-085** Asymmetric Mannich-Type Reaction Using Alkenyl Trichloroacetates Catalyzed by a Chiral Phosphine-Silver Complex. (Chiba Univ.) RIN, Yukun; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PA-086** Metal-free Halogenation of Arylboronates (Nara National College of Technology) KAMEI, Toshiyuki; ISHIBASHI, Aoi; SHIMADA, Toyoshi
- 3PA-087**  $\alpha$ -Selective Allylation of Azo Compounds Using Barium Reagents. (Chiba Univ.) JITSUKAWA, Takuya; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PA-088** Synthesis of Benzylic Amines Using Reactive Barium (Chiba Univ.) SAWAE, Toshiaki; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PA-089** Activation of An Alkyne [2+2+2] Catalyst by an Phthalate Additive (Kanagawa Univ.) SAKURADA, Tetsuya; SUGIYAMA, Yuuki; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 3PA-090** Polymerization by a Catalytic Alkyne/Nitrile [2 + 2 + 2] Cycloaddition (Kanagawa Univ.) SUGIYAMA, Yuuki; SAKURADA, Tetsuya; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 3PA-091** Asymmetric conjugate addition reaction of enone with R<sub>2</sub>Zn catalyzed by Cu salt combined with ester-amide-functionalized azolium salt (Kansai Univ.) KONDO, Jyunko; YOSHIMURA, Misato; SAKAGUCHI, Satoshi
- 3PA-092** Synthesis of surfactant-free, single-nano-sized Cu nanoparticles for use as an active catalyst of ligand-free Ullmann-coupling reaction (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) ISOMURA, Yuto; NARUSHIMA, Takashi; YONEZAWA, Tetsu; KAWASAKI, Hideya; OBORA, Yasushi
- 3PA-093** Synthesis of Alkenylmagnesium via Iron-Catalyzed Hydrometalation of Alkyne and Its Applications. (Univ. of Tokyo) YOSHIDA, Takumi; ILIES, Laurean; NAKAMURA, Eiichi
- 3PA-094** Iron-Catalyzed Aliphatic C-H Functionalization via Radical Initiation (Univ. of Tokyo) SEKINE, Masaki; ILIES, Laurean; NAKAMURA, Eiichi
- 3PA-095** Iridium complex-catalyzed  $\alpha$ -alkylation of acetamides with alcohols (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; KU-HRC) KIMUMOTO, Syota; IUCHI, Yosuke; OBORA, Yasushi
- 3PA-096** Dehydrogenative Cyclization of Diols in Aqueous Media Catalyzed by a Water-Soluble Iridium Complex Bearing a Functional Bipyridine Ligand (Kyoto Univ.) ITO, Wataru; KAWAHARA, Ryoko; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 3PA-097** Dehydrogenation and Hydrogenation Reactions of Nitrogen Heterocycles Catalyzed by Iridium Complexes Having Functional N,N-Chelate Ligands (Kyoto Univ.) TANAKA, Yui; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 3PA-098** Synthesis of Novel Water-Soluble Iridium Complexes Bearing a Functional Pyridine Ligand and Their Catalytic Activities in Dehydrogenation of Nitrogen Heterocycles in Aqueous Media (Kyoto Univ.) HIRAGURI, Natsumi; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 3PA-099** IridiumNHC Complex-Catalyzed Cycloisomerization of 1,6-Heptadiene Derivatives (Aoyama Gakuin Univ.) SUZUKI, Haruka; ONDERA, Gen; TAKEUCHI, Ryo
- 3PA-100** Synthesis and Reaction of a Functional Transition Metal Complex for *meta*-Selective C-H Borylation of Mono-substituted Benzenes (Tokyo Institute of Technology) HATASE, Kazuki; KUSAMA, Hiroyuki; IWASAWA, Nobuharu
- 3PA-101** Preparation of low-valent niobium from niobium pentaalkoxide and their use in organic transformations (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) OZAKI, Makoto; TADA, Yusuke; OBORA, Yasushi; ISHII, Yasutaka
- 3PA-102** Oxidation of Dithioacetals with 30% Hydrogen Peroxide Catalyzed by Nb(V): Effective Synthesis of 1,3-Disulfonyl Compounds (Shizuoka Inst. Sci. & Tech.) KIRIHARA, Masayuki; GOTO, Takumi; SUZUKI, Michitaka; ISHIZUKA, Yuki; NOGUCHI, Takuya
- 3PA-103** Magnetically Recoverable Osmium Catalyst (AIST) FUJITA, Ken-ichi; UMEKI, Satoshi; YASUDA, Hiroyuki
- 3PA-104** Synthesis of Cyano-Substituted Iminoisobenzofuran by Three-Component Aryne Reactions (Graduate School of Natural Science and Technology, Okayama Univ.) NOYORI, Shintaro; LI, Jing; IWASAKI, Masayuki; NAKAJIMA, Kiyohiko; NISHIHARA, Yasushi
- 3PA-105** Synthesis of Pyranocoumarins by Intramolecular Hydroarylation (Saga Univ.) KOBAYASHI, Soichi; KITAMURA, Tsugio
- 3PA-106** Cleavage Reactions of C-S and O-H Bonds in 2-Hydroxybenzyl Sulfide Derivatives with Pd(0) Complexes (Saitama Univ.) SUZUKI, Izuru; FURUKAWA, Noriyuki; TODA, Tomoyuki; NAKATA, Norio; ISHII, Akihiko
- 3PA-107** Palladium-Catalyzed Asymmetric Allylic Alkylation of Indoles Using C-N Axial Chiral Ligands. (Chiba Univ.) MINO, Takashi; ISHIKAWA, Miho; NISHIKAWA, Kenji; KASAI, Mizuki; SAKAMOTO, Masami; FUJITA, Tsutomu
- 3PA-108** Palladium(II) NCN-Pincer Complexes with Novel Chiral Bis(imidazole) Ligands Catalyzed Asymmetric Allylation of Imines. (Nagoya Institute of Technology) NAKAMURA, Masayuki; HYODO, Kengo; NAKAMURA, Shuichi; SIBATA, Norio

- 3PA-109** Synthesis of Tetrazolium Mesoionic Carbene Palladium Complexes and their Catalytic Activities (Graduate School for Engineering, Nagoya Institute of Technology) HANAKI, Atsuko; YAMADA, Arata; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 3PA-110** Synthesis of silacyclic compound using transition metal catalyzed [2 + 2 + 2] cycloaddition reaction (Department of Chemistry Faculty of Science, Kanagawa Univ.) SATO, Keisuke; OHTA, Yusuke; ISHIDA, Takuya; KABE, Yoshio
- 3PA-111** Synthesis of Substituted Naphthalenes and 2-Naphthols using Ru-catalyzed Ring-Closing Enyne Metathesis (Graduate School of Science, Chiba Univ.) KANO, Yuto; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PA-112** Synthesis of Mono-functionalized Polyhedral Oligomeric Silsesquioxane Having Activated or Photodegradable ester (Kanagawa Univ.) SAKURAI, Takuto; YAMAGUCHI, Kazuo; CHIKARAISHI, Noriko; KABE, Yoshio
- 3PA-113** Synthesis of Multisubstituted Benzodithiophenes via Direct Bromination of 2,6-Bis(trimethylsilyl)benzodithiophene (Nara National College of Technology; CREST) KAMEI, Toshiyuki; NISHIGUCHI, Makoto; TANAKA, Tomohiro; SHIMADA, Toyoshi
- 3PA-114** Chiral Tin-Catalyzed Asymmetric *N*-Nitroso Aldol Reaction with  $\gamma, \delta$ -unsaturated  $\delta$ -lactones (Chiba Univ.) OYOKAWA, Yu; FUJINAMI, Takeo; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PA-115** Control of 1,5-remote asymmetric induction from an allyltin reagent having chiral functional group toward imines. (Shimane Univ.) YAMAGUCHI, Yuki; NISHIGAICHI, Yutaka; IWAMOTO, Hidetoshi
- 3PA-116** Natural Product Synthesis Based on the Binary Remote Asymmetric Induction Reaction of an Optically Active Allyltin Reagent Containing a Chiral Oxygen Functionality (Shimane Univ.) MAEJIMA, Yui; NISHIGAICHI, Yutaka; IWAMOTO, Hidetoshi
- 3PA-117** Reductive Dimerization of  $\alpha, \beta$ -Unsaturated Esters Using Rieke Zinc (Tokyo Univ. of Sci., Yamaguchi) HATAE, Takahiro; AKAGI, Fumio; HOJO, Makoto

### Organic Chemistry -Reaction and Synthesis-High-Throughput Synthesis

- 3PA-119** Dehydrative Friedel-Crafts Type Reactions of Oxygen-Containing Compounds Using Microwave Irradiation and Solid Acid Catalysts (Natl. Inst. of Advanced Industrial Science and Technology (AIST)) YAMASHITA, Hiroshi; HATORI, Makiko; MORIZUMI, Maki; SAITOU, Kaori
- 3PA-120** Microwave-Assisted Phase-Transfer Alkylation of 1,3-Dicarbonyl Compounds (Tokyo Denki Univ.) KOYAMA, Hiroki; MORO, Yusuke; SHINOZAKI, Hiraku

### Resources Utilization Chemistry

- 3PA-123** Catalytic Gasification of Wastes from Biomass Ethanol production process in supercritical water (AIST; Research Center for Compact Chemical System) SATO, Osamu; MURAKAMI, Yuka; YAMAGUCHI, Aritomo; HIYOSHI, Norihito; SHIRAI, Masayuki
- 3PA-124** Direct dissolution of wet and saliferous microalgae with polar ionic liquids (Tokyo Univ. of Agriculture and Technology) KOBAYASHI, Daigo; FUJITA, Kyoko; NAKAMURA, Nobuhumi; OHNO, Hiroyuki
- 3PA-125** Thermal reaction of glucose in aqueous solvent with active-carbon supported metal and metal sulfide catalysts (Nihon Univ., College of Science and Technology, Department of Liberal Arts and Science) YONEDA, Tetsuya; ISHII, Kazutaka; ISHIMI, Katsuhiro; TAKIDO, Toshio; KONUMA, Kenji
- 3PA-126** Ethanol Fermentation of Sea Algae with Dry Yeast (Kochi Univ, Res. Lab. Hydrothermal Chem.) OKUDA, Kazuhide
- 3PA-127** Preparation of phosphate type functional material based on cedar sawdust and adsorption behavior of metal ions (College of engineering Chubu Univ.) HONDA, Kaisuke; HATTA, Masaru; YAMASHITA, Hiroyuki; MIYAUCHI, Toshiyuki; MORI, Hidehiko
- 3PA-128** Phosphorus recovery from low pH solution using carbonized rice husk loaded with hydrous zirconium oxide (Univ. of Hyogo) INOUE, Tatsuo; NISHIOKA, Hiroshi; KOBUNE, Masafumi

### Environmental and Green Chemistry, Geo and Space Chemistry

- 3PA-131** Effect of altitude on air pollutant deposition in Mt. Oyama (Kanagawa Univ.) YOGUCHI, Ken; NANZAI, Ben; IGAWA, Manabu
- 3PA-132** Atmospheric behavior of surface-active substances and their effects on atmospheric environment (1) (School of Creative Science and Engineering, Waseda Univ.) SODA, Minatsu; OKOCHI, Hiroshi; OGATA, Hiroko
- 3PA-133** Observation of acidic gases and water-soluble aerosol in the free troposphere using Mt. Fuji (1) (School of Creative Science and Engineering, Waseda Univ.) ISOBE, Takaharu; OKOCHI, Hiroshi; OGATA, Hiroko
- 3PA-134** Evaluation of forest filter effect for acidic substances in the ambient air and their dry deposition in a suburban small forest in the Tokyo area, Japan (1) (School of Creative Science and Engineering, Waseda Univ.) TAKADA, Ken; OKOCHI, Hiroshi; OGATA, Hiroko
- 3PA-135** A study on precipitation scavenging of polycyclic aromatic hydrocarbons in the atmosphere and estimation of their dry deposition fluxes on

- forest canopy (1) (School of Creative Science and Engineering, Waseda Univ.) FUJITA, Masatoshi; OKOCHI, Hiroshi; OGATA, Hiroko
- 3PA-136** Atmospheric behavior of biogenic volatile organic compounds in a small forest in the western part of Greater Tokyo, Japan (School of Creative Science and Engineering, Waseda Univ.) SUZUKI, Keisuke; OKOCHI, Hiroshi; OGATA, Hiroko
- 3PA-137** Concentrations of Chemical Forms of Nickel Compounds in Size Classified Airborne Particulate Matter (Local Independent Administrative Agency Hokkaido Research Organization, Institute of Environmental Sciences) AKUTAGAWA, Tomoko; SAKAI, Shigekatsu; AKIYAMA, Masayuki; KATO, Takunori
- 3PA-138** Changes of chemical composition in suspended matter in ocean by atmospheric deposition of aerosol particles (Atmosphere and Ocean Research Institute, The Univ. of Tokyo) MURASHIMA, Yoshiko; OKOCHI, Hiroshi; OGATA, Hiroko; UEMATSU, Mitsuo
- 3PA-139** Transformation of chlorinated polycyclic aromatic hydrocarbons under UV irradiation (Meijo Univ.) MIWA, Makoto; OHURA, Takeshi
- 3PA-140** A Study of removal mechanism of nitrogen dioxide on cedar powder surface (Osaka Prefecture Univ.) SAKAMAKI, Ken; TAKENAKA, Norimichi; SADANAKA, Yasuhiro; BANDOW, Hiroshi
- 3PA-141** Measurement of Gaseous Toluene Concentrations by Use of Nano Porous Glass and Near Infrared Spectroscopy (Josai Univ.) KATO, Yasuko; KONNO, Toichi; OZAKI, Yasushi; UTIYAMA, Masahiro; NAGASAWA, Hiroshi
- 3PA-142** Development and application to highly sensitive analytical methods by GC/QMS for chlorinated polycyclic aromatic hydrocarbons. (Meijo Univ.) KAMIYA, Yuuta
- 3PA-143** Interactive effects of ozone and polycyclic aromatic hydrocarbon on eggplant (*Solanum melongena*) (Hiroshima Univ.) BANDAI, Sayuri; SAKUGAWA, Hiroshi
- 3PA-144** Effect of acid fog on metal corrosion (Kanagawa Univ.) OMURA, Koichi; NANZAI, Ben; IGAWA, Manabu
- 3PA-145** Relation between atmospheric aerosols and solar radiation at urban area (Meijo Univ.) KATOU, Hironao; RI, Kinfu; SAKAMAKI, Fumio
- 3PA-146** The contribution of particulate PAHs in the air to the Ahr-binding activity (Meijo Univ.) ISOGAI, Nahomi
- 3PA-147** Ionic change under water processing stages at a water supply facility (Institute for Science and Technology, Kinki Univ.) YANAGIDA, Kazumi; KAWAHIGASHI, Tatsuo
- 3PA-148** The Radioactive Pollution of the Tokyo Bay Sediment by the Fukushima Daiichi Nuclear Power Plant Accident (Kinki Univ.) NAKAGAWA, Ryota; BABA, Daisuke; YAMAZAKI, Hideo; KUBO, Atsushi; SUGIYAMA, Kentaro; KANDA, Jota
- 3PA-149** Ecosystem services of Satoyama and nitrogen saturation (1). (School of Creative Science and Engineering, Waseda Univ.) EGUCHI, Hiroyuki; OKOCHI, Hiroshi; OGATA, Hiroko; MIYAZAKI, Akane
- 3PA-150** Mineralization of aqueous mixtures of pentafluorocarboxylate and chloride: aqueous reactions with sulfate ion radicals under photoillumination (AIST; Kanagawa Univ.) KUTSUNA, Shuzo; MIURA, Naoko; HORI, Hisao
- 3PA-151** Rapid and continuous measurement of COD in water (Graduate School of Engineering, Osaka Pref. Univ.) TAKENAKA, Norimichi; HASHIMOTO, Shouhei; SADANAGA, Yasuhiro; BANDOW, Hiroshi
- 3PA-152** Evaluation of the mutagenic activity of river water located at the mid-area of the Kanagawa prefecture (Liberal Science & Academy and Arts High School of Kanagawa; Kanagawa Institute of Technology) KANEKO, Chiaki; OKABE, Ryogo; NAGAI, Akihiro; FUKUI, Youhei; TAKAMURA, Takeji
- 3PA-153** Stimulation effect to photodegradation of environmental mutagens by xanthene dyes (Okayama Univ. of Sci.) TORIMOTO, Sei-ichi; AOKI, Hiroyuki; INOBUCHI, Masahiko; ODO, Junichi
- 3PA-154** Removal of cesium ion using the adsorbent synthesized from inorganic wastes. (Univ. of Hyogo) IOZUMI, Yuta; NISHIOKA, Hiroshi; KOBUNE, Masafumi
- 3PA-155** Influence of humic acid on the catalytic oxidation of tetrabromobiphenol A using the supported iron porphyrin catalyst (Hokkaido Univ.) MIZUTANI, Yusuke; MAENO, Syohei; ZHU, Qianqian; FUKUSHIMA, Masami
- 3PA-156** The polycondensation reaction of the humus precursor by the metal oxide in steel slag (Hokkaido Univ.) NISHIMOTO, Ryo; FUKUSHIMA, Masami; SATO, Tsutomu; FUKUCHI, Sigeaki; QI, Kouka; SASAKI, Masahide
- 3PA-157** Effect of organic acids on the degradation of 2,4,6-tribromophenol by a heterogeneous Fenton system. (Hokkaido Univ.) FUKUCHI, Shigeki; FUKUSHIMA, Masami; NISHIMOTO, Ryo
- 3PA-158** Influence of humic acid on the catalytic oxidation of tetrabromobiphenol A using the iron phthalocyanine (Hokkaido Univ.) MAENO, Shohei; MIZUTANI, Yusuke; ZHU, Qianqian; FUKUSHIMA, Masami
- 3PA-159** Fundamental study on the Cr absorption ability and growth reaction of plants in Cr<sup>6+</sup> contained soil (Toin Univ. of Yokohama) YOKOYAMA, Kazunori; SUGANO, Yuichi; WAKUI, Shiro; TOROBU, Shuzo; NAITO, Satoshi; YOKOSTUKA, Toru; IJIMA, Kentaro; MORINAGA, Shigeo
- 3PA-160** Relationship between the structure and the toxicity to *Bacillus subtilis*. (Univ. of Hyogo) ISHIOKA, Hiroshi; KOBUNE, Masafumi

MORITA, Kaoru; MISHIMA, Jun; TAKANO, Jiro

- 3PA-161** New aromatic imine synthesis using with nano-metallic calcium under solid-phase (Pref. Univ. Hiroshima) NISHIMURA, Aki; KAKEDA, Mitsunori; EGASHIRA, Naoyoshi; MITOMA, Yoshiharu
- 3PA-162** Effect of hydrogen source on new hybrid reduction by electron transfer and catalytic hydrogen type. (Pref. Univ. Hiroshima.) ITO, Satoshi; MITOMA, Yoshiharu
- 3PA-163** Preparation of woody biomass functional material and its adsorption behavior toward novel metal ions. (COLLEGE OF ENGINEERING CHUBU UNIVERSITY) HATTA, Masaru; HONDA, Keisuke; YAMASHITA, Hiroyuki; MIYAUCHI, Toshiyuki; MORI, Hidehiko
- 3PA-164** Synthesis cellulose novel diblock copolymer by mechanochemical reaction (Meijo Univ.) TSUTAKI, Yusaku; SAKAGUCHI, Masato; OHURA, Takeshi
- 3PA-165** Photocatalytic activity of Ag-CuO doped WO<sub>3</sub> (Mie Univ.) KATSUMATA, Hideyuki; ODA, Yuichi; KANECO, Satoshi; SUZUKI, Tohru; OHTA, Kiyohisa

Tuesday, March 27, PM

(12 : 30 ~ 14 : 00)

## Colloid and Interface Chemistry

### Nanoparticles and Dispersion

- 3PB-001** Formation of Au nanoparticle flocculation and its SERS activity using DNA bases (Saitama Univ.) YAJIMA, Toru; YU, Yingying; FUTAMATA, Masayuki
- 3PB-002** Flocculation of Ag nanoparticle and SERS activity using covalent bonding (Saitama Univ.) YU, Yingying; YAJIMA, Toru; FUTAMATA, Masayuki
- 3PB-003** Effect of PEG on Transmittance of Aqueous Nano Silica Suspension (College of Science and Technology, Nihon Univ.) SUZUKI, Shota; HUANG, Xia; HOSHI, Toru; HAGIWARA, Toshiki; SAWAGUCHI, Takashi
- 3PB-004** Effects of metal salts on the Synthesis of Triangular Gold Nanoplates By Photoreduction Method (Okayama Univ. of Sci.) TAKEZAKI, Makoto; TOMINAGA, Toshihiro
- 3PB-005** Synthesis and Exciton Dynamics of CdTe/Au Hybrid Nanostructures (School of Science and Technology, Kwansai Gakuin Univ.) OKUHATA, Tomoki; NONOGUCHI, Yoshiyuki; KAWAI, Tsuyoshi; TAMAI, Naoto
- 3PB-006** Preparation of Pd-derived SPION Catalyst and Release Reaction of Functional Molecules from SPION Surface (Kyushu Univ.) AKITA, Takeyuki; KOGA, Noboru
- 3PB-007** Efficient preparation of dumbbell like Au nanoparticles by Stober method and the hybridization with organic dye (Osaka City Univ) MATSUDA, Kazuaki; KOMETANI, Noritsugu
- 3PB-008** Fabrication of Hybrid nanocrystals for organic photovoltaic solar cells (Department of Chemistry and Chemical Engineering, Yamagata Univ.) SATO, Toshimitsu; MASUHARA, Akito
- 3PB-009** Amino Acid-Induced Supramolecular Chirality in Dye Aggregates on WO<sub>3</sub> Colloid Surface (Yamaguchi Univ.) ADACHI, Kenta; YAMAZAKI, Suzuko; TAKECHI, Hideaki; WATARAI, Hitoshi; TSUKAHARA, Satoshi; BENOVA, Nina
- 3PB-010** Fabrication of photochromic films consisting of WO<sub>3</sub> and cellulose derivatives (Faculty of Science, Yamaguchi Univ.) ISHIDA, Hiroki; MITA, Tomohiro; HONDA, Kensuke; ADACHI, Kenta; YAMAZAKI, Suzuko
- 3PB-011** Color Gamut of Liquid Crystal Displays Doped with Poly (cyclodextrin)-protected Zirconia Nanoparticles (Tokyo Univ. of Science, Yamaguchi) SAWAI, Hiroya; SHIRAIISHI, Yukihide; KOBAYASHI, Shunsuke; TOSHIMA, Naoki
- 3PB-012** Preparation and catalyses of cucurbituril-protected palladium nanowires (Tokyo Univ. of Science, Yamaguchi) SHIRAIISHI, Yukihide; YOSHIOKA, Seiji; SAKASHITA, Yuichi; TOSHIMA, Naoki
- 3PB-013** Fluorescent Gold Nanoparticles for Detection of Proteins (Univ. of Yamanashi) FUJIMAKI, Yoshihiro; SHINMORI, Hideyuki
- 3PB-014** Observation on adsorption behavior of organic molecules at the surface of metal nanoparticles and their interaction (Univ. of Tsukuba) EGUCHI, Miharuru; MITSUI, Daisuke; TERANISHI, Toshiharu
- 3PB-015** Synthesis of Tetrahedral Palladium Nanoparticles with Network Structure and Their Hydrogen Storage Properties (Univ. of Tokyo) YAMAMOTO, Yuki; YAMANOL, Yoshinori; NISHIHARA, Hiroshi; OSHIMA, Shinji; KOBORI, Yoshihiro
- 3PB-016** Extinction Spectra Control by End-to-End Assembly of Gold Nanorods (Tokyo Univ. of Science; Graduate School of Chemical Science and Technology) TAKI, Naoki; WATANABE, Kazuo
- 3PB-017** In-situ time-resolved XAFS/SAXS studies of metal nanoparticle formation (Nara Women's Univ., Kyoto Univ.) KUNIKIYO, Hiroko; HARADA, Masafumi; TAKENAKA, Mikihito
- 3PB-018** Shape-Controlled Synthesis of core/shell PbSe/PbS Nanocrystals (Nara Inst. Sci. Tech.) ASHIBA, Koji; NONOGUCHI, Yoshiyuki; KAWAI, Tsuyoshi
- 3PB-019** Synthesis of Pt plate and bimetallic Pt-Ag plate (JAIST)

TSUKIGAWARA, Ryou; MIYABAYASHI, Keiko; MIYAKE, Mikio

- 3PB-020** Electrocatalytic activity of pyrene derivative modified Pt nanoparticles for fuel cell catalysis (JAIST) NISHIHARA, Hiroki; MIYABAYASHI, Keiko; MIYAKE, Mikio
- 3PB-021** Pattern formation mechanism of hydrate crystal in colloidal suspension (Meiji Univ) MURAOKA, Michihiro; NAGASHIMA, Kazushige

### Molecular Assemblies

- 3PB-022** Photocontrol of Polymer/Calcium Carbonate Hybrids Self-organized on Hydrogels (The Univ. of Tokyo) ISHIKAWA, Nanase; SAKAMOTO, Takeshi; NISHIMURA, Tatsuya; KATO, Takashi
- 3PB-023** Development of Calcium Carbonate Thin Films Using Ion Additives and Polymer Matrices (The Univ. of Tokyo) ZHU, Fanjie; NISHIMURA, Tatsuya; SAKAMOTO, Takeshi; TOMONO, Hidekazu; NADA, Hiroki; KATO, Takashi
- 3PB-024** Large-Area Molecular Ordering of Quaterthiophene-Containing Polymer Brushes toward Electronic Functions (The Univ. of Tokyo; RIKEN Advanced Science Institute; Tokyo Institute of Technology) CHAN, Yi-tsu; KAJITANI, Takashi; HOSONO, Nobuhiko; KOSAKA, Atsuko; FUKUSHIMA, Takanori; AIDA, Takuzo
- 3PB-025** Ordered Self-Assembly of Salphene-Bridged Carbazole Macrocycles: Effect of Structure of Side-Chains on Liquid Crystalline Behavior (Department of Chemistry, Graduate School of Science, Nagoya Univ.) ISHIDA, Yukari; KAWANO, Shin-ichiro; TANAKA, Kentaro
- 3PB-026** Preparation of organic radical gelators and properties of their magnetic supramolecular hydrogels (Kyoto Univ.) YAMAMOTO, Takayuki; SUZUKI, Katsuaki; UCHIDA, Yoshiaki; SHIMONO, Satoshi; TAMURA, Rui; KATO, Tatsuhisa; YAMAUCHI, Jun
- 3PB-027** Effects of addition of 1 : 1 electrolyte on the multilamellar structure of DPPC studied by SAXS and DSC (Kagawa Univ.) FUKADA, Kazuhiro; MACHINO, Ayaka
- 3PB-028** Synthesis and Physico-chemical Properties of Organic Gelators having a Coumarin Skeleton (Yamaguchi Univ.) OKAMOTO, Hiroaki; KUROSE, Keisuke; MORITA, Yuki
- 3PB-029** Gel Formation of Ionic Liquids with Low Molecular Weight Compounds (Yamaguchi Univ.) OKAMOTO, Hiroaki; YOSHIDA, Tomohiro; MORITA, Yuki
- 3PB-030** Liquid crystal doped with Pd nano particles stabilized by 5CB analogous fluorinated polymer (Tokyo Univ. of Science, Yamaguchi) ZENMYO, Akari; OKI, Koji; YAMAMOTO, Kohei; INOKUCHI, Makoto; YABUUCHI, Kazuhiro
- 3PB-031** Electro-Optic Properties of Liquid Crystal Displays Doped with Dendron (Tokyo Univ. of Science, Yamaguchi) SHIRAIISHI, Yukihide; KAKIUCHI, Hideshi; OHGI, Taeko; TOSHIMA, Naoki
- 3PB-032** Self-assembly of metal complex with block amphiphilic polypeptide and their functionalization in water. (Sojo Univ.) MASAKI, Yoshitaka; NAKAHARA, Satoru; KUROIWA, Keita
- 3PB-033** Development of nanonetwork using metal complexes with electrolyte polymers (Sojo University) KOGA, Yuki; MORI, Takao; SHIMOGAWA, Yoshifumi; KUROIWA, Keita
- 3PB-034** Synthesis and Aggregation behavior of Sodium 3-Octylazulene-1-Carboxylate and Sulfonate (Tokai Univ.) SUEMORI, Tomohiro; KASAKURA, Nozomi; IKEDA, Yuki; FUJIO, Katsuhiko
- 3PB-035** Substituent Effect on the SDS Micelle Formation of Amino Acid Polarity (Nagoya institute of Technology) MURAKADO, Mika; KONDOH, Misako; YAMAMOTO, Yasushi; TAGA, Keiji; YOSHINO, Akihiro
- 3PB-036** High pressure study of optical absorption and emission of cyanine dye J-aggregate (Osaka City Univ) NAKATANI, Hitomi; KOMETANI, Noritsugu
- 3PB-037** Selective synthesis and self-organization of sucrose 6-monoalkyl ethers (Kagoshima Univ.) OKAWABATA, Sachie; KANEMARU, Manami; KUWAHARA, Shinya; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 3PB-038** Self-organization of trehalose 6,6'-dialkyl ethers (Kagoshima Univ.) KANEMARU, Manami; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 3PB-039** Study of development for highly-ordered 2D polymer film by using of interfacial condensation. (Sojo Univ.) MIHARA, Sho; HIRAO, Minami; TAMARU, Shun-ichi; SHINKAI, Seiji
- 3PB-040** Synthesis and Characterization of Tetraazaacene Derivatives (Department of Chemistry, Faculty of Science, Tokyo Univ. of Science) ISODA, Kyosuke; TADOKORO, Makoto
- 3PB-041** Synthesis and Micelle Formation of a Ferrocene-Containing Amphiphilic N-alkylpyridinium (Tokyo Inst. of Tech., Chem. Res. Lab.) ENDO, Hirotaka; SUZAKI, Yuji; OSAKADA, Kohtaro
- 3PB-042** Liquid Crystal and Fluorescence Behavior of Lanthanide Complexes Composed of Metal Core and Surrounding Alkyl Chains (Nagano National College of Technology; Shinshu Univ.; Univ. of Calabria) ITAYA, Tomoyuki; HACHISUGA, Ayaha; OHTA, Kazuchika; PUCCI, Daniela; CRISPINI, Alessandra; I. SZERB, Elisabeta; LIGUORI, Paola; La DEDA, Massimo; GHEDINI, Mauro
- 3PB-043** Creation of optically transparent organogels: properties and

- hierarchical structures of gels composed of phenols and AOT (Shimane Univ.; Shinshu Univ.; IMS) WATANABE, Keiichi; SATO, Takaaki; KAJI, Toshihiko; HIRAMOTO, Masahiro; NISHIYAMA, Katsura
- 3PB-044** Hardness Control of oil gel by the mixture of sugar ester and paraffin wax (Tokyo Univ. of Technol.) AKATSU, Kanae; FUCHIBE, Daisuke; SHIBATA, Masashi
- 3PB-045** Synthesis and Properties of Columnar Liquid-Crystalline Organic Semiconductors (The Univ. of Tokyo) MAEDA, Ryosuke; YOSHIO, Masafumi; SHIMIZU, Tomohiro; ZHEN, Zheng; KATO, Takashi
- 3PB-046** Development of Anisotropic Ion-Conductive Polymer Films with Nanosegregated Liquid-Crystalline Structures (The Univ. of Tokyo; Tokyo Univ. of Agriculture and Technology) HATTORI, Kazuki; YOSHIO, Masafumi; ICHIKAWA, Takahiro; OHNO, Hiroyuki; KATO, Takashi
- 3PB-047** Free Radical Scavenging Activity of Vitamin E Emulsion (Grad. Sch. Sci., Eng., Ehime Univ.) OHARA, Keishi; SAKO, Keishi; NAGAOKA, Shin-ichi
- 3PB-048** Preparation of IL/O Type Microemulsions Containing Cyclophosphazene Ionic Liquid (Univ. of Miyazaki; Bridgestone Co. Ltd.) KUBOTA, Natsumi; SHIRAGAMI, Tsutomu; MATSUMOTO, Jin; OOTSUKI, Masashi; YASUDA, Masahide
- 3PB-049** Surfactant-free emulsification using mesoporous silica and various oils (Tokyo Univ. of Tech.; Yamagata Univ.) TAKATA, Ayaka; WU, Bin; NONOMURA, Yoshimune; SHIBATAI, Masashi
- 3PB-050** Application of Alkylhydrazide for New Low-Molecular-Weight Gelator (Kyusyu Univ.; Nissan Chemical Industries, Ltd.) OHSEDO, Yutaka; WATANABE, Hisayuki; TANAKA, Akihiro; MIYAMOTO, Misao

### Organized Films

- 3PB-051** Phase behavior and structures of spread monolayers of amphiphilic sulfamide compounds. (Utsunomiya Univ.) TOYODA, Aya; IIMURA, Ken-ichi; KABASHIMA, Shin-ichiro; KAGEYAMA, Motohiro; YOSHIKAWA, Isao; ARAKI, Koji
- 3PB-052** Adsorption characteristics of N-acetyl-L-homoserine lactone derivatives to lipid monolayers. (Utsunomiya Univ.) WATANABE, Masahiro; KATO, Norihito; IIMURA, Ken-ichi
- 3PB-053** Study on preparation process and surface morphology of TiO<sub>2</sub> thin film using phase separation in the template LB film (Tokyo City Univ.; Energy functional material chemical Lab.) OSHIMA, Takuro; TAKAHASHI, Masashi; KOBAYASHI, Koichi
- 3PB-054** The Redox behavior of Dopamine at Thiol-modified Gold Electrodes (NDA) OZAWA, Shinichiro; ARUGA, Atsushi
- 3PB-055** Membrane disc formation from highly methyl branch-chained artificial phospholipids and apolipoprotein A-I (Res. Center Stem Cell Eng., Natl. Inst. Adv. Sci. & Technol. (AIST); Fac. Pharm. Sci., Univ. of Tokushima) BABA, Teruhiko; TAKAGI, Toshiyuki; KANAMORI, Toshiyuki; HANDA, Daisuke; OKA, Tatsuya; SAITO, Hiroyuki
- 3PB-056** Gel structure under high pressure in a nonionic surfactant solution (Tokyo Metropolitan Univ.) SUZUKI, Takuro; KAWABATA, Youhei; KATO, Tadashi
- 3PB-057** alpha gel structure in a dilute cationic/nonionic surfactant mixture solution (Tokyo Metropolitan Univ.) HAYASHI, Kento; KAWABATA, Youhei; KANAO, Tomoki; ISHIKAWA, Akira
- 3PB-058** Lamellar domain structures below the Krafft temperature in a long alkyl chain sugar surfactant solution (Tokyo Metropolitan Univ.) NAGAI, Sho; KAWABATA, Youhei; KATO, Tadashi
- 3PB-059** Micromanipulation and Properties of Giant Vesicle Membrane (Shinshu Univ.) YAMAZAKI, Toshiki; OKUMURA, Yukihisa
- 3PB-060** Study on immobilizing behavior of POPC/DPPE vesicles on gold surface through peptide bond (Tokyo City Univ.; ) KUSHIDA, Shingo; KOBAYASHI, Kouichi; TAKAHASHI, Mashashi

### Solid surface interface

- 3PB-061** 3-D dewetting of polymers (Graduate School, Chitose Institute of Science and Technology) KARTHAUS, Olaf; MORI, Hiroyuki
- 3PB-062** Sandwich nanocomposite of graphene-periodic mesoporous silica (AIST; Univ. of Toronto) WANG, Zheng-ming; WANG, Wendong; COOMBS, Neil; OZIN, Geoffrey A
- 3PB-063** Solid acid catalytic activity of the surface-sulfonated porous diamond spherical particle (Faculty of science and technology, Tokyo Univ. of Sci.) MORIMURA, Takuji; KONDO, Takeshi; YUASA, Makoto
- 3PB-064** Catalytic activity and local structure analysis of N-doped graphite (Japan Atomic Energy Agency) SHIMOYAMA, Iwao; BABA, Yuji; SEKIGUCHI, Tetsuhiro; HAKODA, Teruyuki

### Frontier Research fields

- 3PB-065** Formation of Dendritic Gold Nanostructures on Organic Thin Film/Si Substrate (Kinki Univ.; JST CREST) SOEJIMA, Tetsuro; NAKAMURA, Yoshisada; AMAKO, Yuta; ITO, Seishiro
- 3PB-066** Preparation of Special Structural Particle Assemblies via VUV Irradiation to Hybrid Colloidal Particles (Hokkaido Univ.; Kyushu Univ.) OHNUMA, Akira; ARITA, Hiroshi; NISHIHARA, Masamichi; OHTANI, Bunsho; OTSUKA, Hideyuki; TAKAHARA, Atsushi

## Material Chemistry

- 3PB-069** Photochemical Synthesis of Vanadium Pentoxide Gel (The Wakasa Wan Energy Research Center) NISHIO, Shigeru
- 3PB-070** Multidimensional evaluation of inorganic material particle by statistical dynamic imaging method. (Malvern Japan, Div of Spectris Co.Ltd.,) SASAKURA, Daisuke; HIRAMURA, Yukiyo; INOUE, Naoya
- 3PB-071** Synthesis of Allylsilylated-Tris(bipyridine)ruthenium(II) Complexes Acting as Sol-Gel Precursor and their application in PMO. (Nara National College of Technology; CREST) NISHIDA, Kosei; MAEGAWA, Yoshifumi; TANI, Takao; INAGAKI, Shinji; SHIMADA, Toyoshi
- 3PB-072** Preparation of Hydrophobic Organic-Inorganic Hybrid Films Using Fluoroalkyloxirane and Aminoalkylsilane. (Nagoya Municipal Industrial Research Institute) TSUGE, Hiroyasu; ONO, Satomi
- 3PB-073** Fabrication hollow Ni-metal oxides spheres and their catalytic activity for hydrolytic dehydrogenation of ammonia borane (College of Science and Technology, Nihon Univ.) TAKEI, Chihiro; UMEGAKI, Tetsuo; XU, Qiang; KOJIMA, Yoshiyuki
- 3PB-074** Fabrication of hollow silica-alumina spheres and their catalytic activity for hydrolytic dehydrogenation of ammonia borane (College of Science and Technology, Nihon Univ.) TOYAMA, Naoki; UMEGAKI, Tetsuo; XU, Qiang; KOZIMA, Yoshiyuki
- 3PB-075** Fabrication of silica-molybdsilic mixed oxide spheres and their catalytic activity for hydrogenation dehydrogenation of ammonia borane (College of Science and Technology, Nihon Univ.) WATANUKI, Yasuhiro; UMEGAKI, Tetsuo; XU, Qiang; KOZIMA, Yoshiyuki
- 3PB-076** Synthesis and Physicochemical Properties of Aluminum Higher Borides Included Mg Element (Kokushikan Univ.; NIMS; Kanagawa Univ.; Tohoku Univ.) OKADA, Shigeru; KAMAMOTO, Kiyomi; MORI, Takao; KUDOU, Kunio; YUBUTA, Kunio; SHISHIDO, Toetsu
- 3PB-077** Water permeation behavior of natural mordenite-organic porous hollow fibers (AIST CCS) NAGASE, Takao; ABE, Chie; HASEGAWA, Yasuhisa; KIYOZUMI, Yoshimichi
- 3PB-078** Effect of preparation condition of Ni-SiO<sub>2</sub> spheres using L-arginine for hydrolytic dehydrogenation of ammonia borane (College of Science and Technology, Nihon Univ.) UMEGAKI, Tetsuo; TAKEI, Chihiro; WATANUKI, Yasuhiro; XU, Qiang; KOJIMA, Yoshiyuki
- 3PB-079** Preparation and their Optical Properties of Eu<sub>2</sub>O<sub>3</sub> doped Y<sub>2</sub>WO<sub>6</sub> red phosphors (Dept. of Mat. Sci. & Engr.; Nat. Def. Acad.) ARUGA, Atsushi; TAKAHASHI, Shingo; OZAWA, Shinichiro
- 3PB-080** Sintering behavior of ceria small particles from homogeneous precipitation (Nagoya Institute of Technology) OZAWA, Masakuni; NISHIO, Kenji; HANEDA, Masaaki
- 3PB-081** Crystal-axis dependence of oxygen relaxation in cubic zirconia (Nagoya Institute of Technology) OZAWA, Masakuni
- 3PB-082** Inelasticity and oxygen relaxation of rare earth added zirconia (Nagoya Institute of Technology) OZAWA, Masakuni; TUCHIYA, Kenji
- 3PB-083** Development of Inorganic/Organic Hybrids with Three-Dimensional Structures Using Macromolecular Templates (The Univ. of Tokyo) MATSUMURA, Shunichi; KAJIYAMA, Satoshi; NISHIMURA, Tatsuya; Kato, Takashi
- 3PB-084** Thermal characteristics of silsesquioxane thin films containing an aromatic hydrocarbon group (Kyoto Univ) NISHIKAWA, Takeshi; SAKAI, Kenichi; TAMURA, Rui
- 3PB-085** The Luminescence of Second Group Metal Element Complexes with Benzoxazole derivative. (Toukyou Denki Univ.) SUGIMOTO, Shigeki; IGARASI, Takahiro; KATOU, Hikaru; KOKUMA, Kenji; FUJIMOTO, Akira
- 3PB-086** Ammonium-based Ionic Liquid Crystals with Ion Transport functions (The Univ. of Tokyo; Tokyo Univ. of Agriculture and Technology) SOBERATS, Bartomeu; YOSHIO, Masafumi; ICHIKAWA, Takahiro; OHNO, Hiroyuki; KATO, Takashi
- 3PB-087** Structure-Property Relationship in Inorganic-Organic Hybrid Materials Containing Giant-Ring-Shaped Polyoxomolybdate and Liquid-Crystalline Molecules (Ritsumeikan Univ.) KIYOHARA, Ayumi; TSUMORI, Tatsuhiko; UNO, Kenjiro; TSUTSUMI, Osamu
- 3PB-088** Synthesis of 4-sulfocalix[6]arene ion complex and the property of its thin film (Wakayama National College of Technology) NAKANISHI, Tatsuya; NOMURA, Eisaku
- 3PB-089** Synthesis of pentagalloyl glucoses having long alkyl chains and their phase transition (Wakayama National College of Technology) KATSUYAMA, Daisuke; MATSUBARA, Tomoya; NOMURA, Eisaku
- 3PB-090** Specific Assembly of Agar Gels with Acrylamide Gels Based on Molecular Recognition (Graduate School of Science, Osaka Univ.) YAMAGUCHI, Hiroyasu; LIU, Chun-yen; TAKASHIMA, Yoshinori; HARADA, Akira
- 3PB-091** Evaluation of DLC coating film characteristics by Terahertz spectroscopy (TIRI) FUJIMAKI, Yasuto; YASUDA, Takashi; AKIYAMA, Koichiro; NAKAO, Setsuo; UEDA, Shizuyo; TERAYAMA, Nobuyuki; SAKAMOTO, Tomoaki; MOTOI, Akio
- 3PB-092** Synthesis of graphene-nanoplate and support of platinum by ultrasonication (Fac. of Engin. and Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.) NAKABAYASHI, Daiiki; YAMAGIWA, Kiyofumi; YOKOYAMA, Takahiro; FUJIKAWA, Hiroki; KOIZUMI,

- Kohei; SETA, Hisashi; YAMAMOTO, Toru; AYATO, Yusuke; KUWANO, Jun
- 3PB-093** Effects of Al-sputtering on One-step Liquid-phase Synthesis of Highly Aligned Carbon Nanotubes (Fac. of Engin.; Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.) YOKOYAMA, Takahiro; YAMAGIWA, Kiyofumi; OKAMOTO, Yohei; FUJIKAWA, Hiroki; KOIZUMI, Kohei; SETA, Hisashi; AYATO, Yusuke; KUWANO, Jun
- 3PB-094** Aqueous dispersion of single walled carbon nanotubes (SWCNTs) using a fluorescent brightening agent as a dispersant (Nanosystem Research Institute, National Institute of Advanced Industrial Science and Technology) ISHIBE, Satoko; MATUZAWA, Yoko; KIHARA, Hideyuki; YOSHIDA, Masaru
- 3PB-095** Simple synthesis of fullerenes from carbon by using arc welder (Hachinohe National college of technology) KITAMURA, Hiroki; SAITO, Takayuki
- 3PB-096** Preparation of a new functional transparent thin film used metallo-organic compound (Konan Univ.) TSUJIMOTO, Akiko; MIYAKE, Junpei; WATANABE, Junji; IKEDA, Yoshiyuki; OHTA, Tatsuya; ARIMOTO, Kunio; MATSUMOTO, Yuki
- 3PB-097** Development of Novel Acceptor Materials for Organic Solar Cells : Creation of Novel PCBM analogues having Thieryl and Various Alkyl Groups and the Application to Photovoltaic Devices (Osaka Municipal Technical Research Institute, Faculty of Science and Technology, Ryukoku Univ.) MORIWAKI, Kazuyuki; YOSHIMOTO, Akira; IWASAWA, Tetsuo; MATSUMOTO, Fukashi; TAKAO, Yoko; OHNO, Toshinobu
- 3PB-098** New preparation method of visible light responsive photocatalytic films using ultra-violet irradiation (AIST) NISHIZAWA, Kaori; OKADA, Masahisa; WATANABE, Eiji
- 3PB-099** Solution-processed fabrication of thin films of low-molecular-weight organic semiconductors by self-organization of liquid crystals (Nanosystem Research Institute, AIST) KAWATA, Yuki; YAMAMOTO, Takahiro; YONEYA, Makoto; YOSHIDA, Masaru
- 3PB-100** Relation between Structure and Pyroelectric Effect for 3-Component Hybrid Films of Clay Nanosheet (National Defense Academy) UMEMURA, Yasushi; IKEJI, Youhei
- 3PB-101** The formation of nanoparticles of 9,10-bis(phenylethynyl)anthracene derivatives (Kanto Gakuin Univ.) YAGITA, Yoshimi; MATSUI, Kazunori
- 3PB-102** One-pot Synthesis of Solid or Hollow Mesoporous TiO<sub>2</sub> Nanoparticles in Supercritical Methanol (Kochi Univ. of Technology) YOKOYAMA, Kazuya; WANG, Pengyu; KOBIRO, Kazuya
- 3PB-103** Preparation of nanosize encapsulated latent pigments by the sol-gel method and fluorescence property (Shibaura Institute of Technology, Faculty of Engineering, Dept. of Applied Chemistry) WATANABE, Hironori; OHISHI, Tomoji
- 3PB-104** Preparation of Semiconductor Nanocrystals Capped with Chiral Seleno-Cysteine (Nara Inst. Sci. Tech.) TSUJI, Tomoki; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 3PB-105** Control of Aggregation on Structures of Gold Nanomaterials with Liquid Crystal Molecules (Ritsumeikan Univ.) KURANARI, Asuna; NAGAMATSU, Akira; TSUTSUMI, Osamu
- ## Functions of Materials
- 3PB-107** Excited States of a UV Absorber: Menthyl Anthranilate (Yokohama National Univ.) SHIBATA, Kenji; KIKUCHI, Azusa; YAGI, Mikio
- 3PB-108** Excited States of a UV Absorber: 2,2'-Dihydroxy-4,4'-dimethoxybenzophenone (Yokohama National Univ.) KUMASAKA, Ryo; KIKUCHI, Azusa; YAGI, Mikio
- 3PB-109** Excited States of a UV Absorber: Ethylhexyl Methoxycrylene (Yokohama National Univ.) HATA, Yuki; KIKUCHI, Azusa; YAGI, Mikio
- 3PB-110** Screening of SUS316L Stent Binding Peptides (Tokyo Univ. of Technology) YAMAZAKI, Tomohiko; FUJIMOTO, Kazuhiro; KARUBE, Isao; MIKAMI, Akane
- 3PB-111** Cytoplasmic delivery of antigenic peptide using beta-sheet peptide nanofiber (Kyoto Institute of Technology) KAWABATA, Kazufumi; KITAGAWA, Yuichi; WAKU, Tomonori; KUNUGI, Shigeru; TANAKA, Naoki
- 3PB-112** Formulation of manganese porphyrin complex loaded transferrin-PEG-liposome and its anticancer evaluation (Tokyo Univ. of Science) ITO, Satomi; KONDO, Takeshi; YUASA, Makoto
- 3PB-113** Preparation of folate-modified liposomes loaded with ironporphyrin and its anticancer valuation (Tokyo Univ. of Science) SATOU, Maki; KONDOU, Takeshi; YUASA, Makoto
- 3PB-114** Correlation between Percutaneous Permeation of Amino Acid Ions and Hydrophilic Lipophile Balance Number of DL-Arginine and L-Proline in Human Skin (Department of Interdisciplinary Science and Engineering, Meisei Univ.) WATANABE, Yukio; HIGASHI, Naoyuki; SHIOYA, Kazune; SHISHIDO, Mami; TAKAHASHI, Rie; SUZUKI, Harue; UEDA, Toyotoshi
- 3PB-115** Investigation of antioxidant and anticancer capabilities for the single and complex of antioxidants (Tokyo Univ. of Science) SANO, Hiroki; KAISE, Tihiro; KANEKO, Teruhisa; KONDO, Takeshi; YUASA, Makoto
- 3PB-116** Proton Transfer Photochromism of 7-Hydroxyquinolines (Graduate School of Arts & Sciences, The Univ. of Tokyo) SAKAI, Masafumi; HARADA, Jun; OGAWA, Keiichiro
- 3PB-117** Photochromism and Electrical Properties of Diarylethene Derivatives Composed of Benzothioephene Having 3-Carbazolyl Group (Osaka Kyoiku Univ.) ARIMA, Yu; KUBONO, Koji; HORI, Kazushige; TSUJIOKA, Tsuyoshi; YAMAGUCHI, Tadatsugu; TANI, Keita
- 3PB-118** Effect of the Spacer on I-V Characteristics of Diarylethene Derivatives Having Carbazole Moiety (Osaka Kyoiku Univ.) TAKAYAMA, Yoshiyuki; ARIMA, Yu; HORI, Kazushige; KUBONO, Koji; TSUJIOKA, Tsuyoshi; TANI, Keita
- 3PB-119** Self-aggregation and Photoresponsive property of diarylethene equipped with oligo(*p*-phenylenevinylene) (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; ISHIWATARI, Katsuya; KARATSU, Takashi; KITAMURA, Akihide
- 3PB-120** Self-Assembly and Photoisomerization of Azobenzene Dimer Linked through Xylylene Possessing Long Alkyl Tails (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; KOBAYASHI, Ai; KARATSU, Takashi; KITAMURA, Akihide
- 3PB-121** Preparation of Azobenzene Appended Gold Nanorods and their Photoisomerization Behavior (Univ. of Yamanashi) SHINMORI, Hideyuki; MOCHIZUKI, Chihiro; SHINOHARA, Akira
- 3PB-122** Femtosecond and Picosecond Dynamics of a Fluorescent Diarylethene Derivative. (Graduate School of Engineering Science and Research Center for Materials Science at Extreme Conditions, Osaka Univ., and Faculty of Science, Rikkyo Univ.) KUNISHI, Tomohiro; ISHIBASHI, Yukihide; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi; UNOKA, Kishi; MORIMOTO, Masakazu; IRIE, Masahiro
- 3PB-123** Femtosecond Dynamics of a Photon-Quantitative Reaction of a Dithiazolylarylene (Graduate School of Engineering Science, Osaka Univ. and Center for Quantum Materials Science under Extreme Conditions, Osaka Univ. and Nara Institute of Science and Technology, Graduate School of Material Science) MORIKAWA, Soichiro; KATAYAMA, Tetsuro; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi; KAWAI, Tsuyoshi; NAKAJIMA, Takuya; FUKUMOTO, Sayo
- 3PB-124** Thermal and photoinduced isothermal phase transitions of triphenylene derivatives having six tridecyloxy- and pentadecyloxy-azobenzene mesogens (Ryukoku Univ. AIST Kansai) SHIRASU, Tatsuya; TANAKA, Daisuke; SHIMIZU, Yo; UCHIDA, Kingo
- 3PB-125** Blazed surface relief formation in azobenzene-containing polymer films by asymmetric polarization holography (Univ. of Hyogo) NISHIOKA, Emi; KONDO, Mizuho; KAWATSUKI, Nobuhiro; ONO, Hiroshi; EMOTO, Akira
- 3PB-126** Synthesis and The photochromic property of Terarylene having an amino group (Nara Inst. Sci. Tech.) SHIKATA, Hiroki; KUTSUNUGI, Yuichiro; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 3PB-127** Theoretical Analysis of the Single Molecule Chiroptical Spectroscopy (Tokyo Tech., RIKEN) SHIINO, Kenichi; YOKOJIMA, Satoshi; FUKAMINATO, Tsuyoshi; WAKABAYASHI, Masamitsu; IRIE, Masahiro; NAKAMURA, Shinichiro
- 3PB-128** Complexation of monodispersed silica sphere particles with layered silicates (Shinshu Univ.) YOSHIDO, Shiho; OKADA, Tomohiko; KATOU, Taku; MISHIMA, Shoji
- 3PB-129** Polarized luminescence of the dye/liquid crystalline inorganic nanosheet/poly(N-isopropylacrylamide) hybrid gel (Fukuoka Inst. Technol) IKEDA, Shogo; MIYAMOTO, Nobuyoshi
- 3PB-130** Development of Mechanical Stimuli-Responsive Photo-Functional Liquid Crystals (The Univ. of Tokyo) MITANI, Masato; YACHI, Kazuki; YAMANE, Shogo; YOSHIO, Masafumi; KATO, Takashi
- 3PB-131** Molecular orientation behavior of asymmetric liquid-crystalline oligothiophene containing nitrogen atom at molecular terminal on photoalignment layer (Univ. of Hyogo) KONDO, Mizuho; MIYAKE, Jun-ichi; SHOJI, Hiroshi; KAWATSUKI, Nobuhiro
- 3PB-132** Wiring formation by CO<sub>2</sub>-Laser using the thermal decomposition of the copper complex derived from glyoxylic acid (Shibaura Institute of Technology) OZAKI, Koh; OHISHI, Tomoji
- 3PB-133** Two-photon absorption properties and mitochondria imaging behavior of fluorescent biphenyl derivatives. (Yamaguchi Univ.) YAMADA, Kengo; TENMA, Yuta; KAWARA, Masahito; TANI, Seiji; KAWAMATA, Jun
- 3PB-134** Preparation and NO<sub>x</sub> adsorption characteristic of MgO-TiO<sub>2</sub> system compounds (Kokushikan Univ.) KAMAMOTO, Kiyomi; OKADA, Shigeru; SHISHIDO, Toetsu; KUDO, Kunio
- 3PB-135** The development and the quality assessment of arsenic adsorption material by electron beam graft polymerization (Shimane Institute for Industrial Technology) INOUE, Jun; HINO, Koichi; TAJIMA, Masahiro
- 3PB-136** Control of Energy Transfer Properties on Porphyrin-Gold Nanoparticle Hybrids (Univ. of Yamanashi) SHINOHARA, Akira; SHINMORI, Hideyuki
- 3PB-137** The adsorption orientation control of cationic porphyrins on the inorganic nano sheet and their energy transfer reactions (Tokyo Metropolitan Univ.) WATANABE, You; ISHIDA, Yohei; INOUE, Haruo; SHIMADA, Tetsuya; TAKAGI, Shinsuke

## Applications of Materials

- 3PB-139** Preparation and Thermal Decomposition Behavior of Calcium Fluoride Nanocomposites-Encapsulated Phenolphthalein (Hirosaki Univ.; LIXIL) SAITO, Tomoya; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo
- 3PB-140** Thermal Stability of Encapsulated Low Molecular Weight Aromatic Compounds into Calcium Fluoride Nanocomposites (Hirosaki Univ.; LIXIL) SAITO, Tomoya; LIU, Xinlai; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo
- 3PB-141** Preparation and Thermal Stability of Hexafluorosilicate/Silica Nanocomposites-encapsulated Organic Salts (Hirosaki Univ.; National Institute of Advanced Industrial Science and Technology; Nippon Chemical Industrial Co., Ltd.) SASAKI, Takahiro; NISHIDA, Masakazu; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo
- 3PB-142** Preparation and Properties of Fluorinated Hyperbranch Polymers/Silica Nanocomposites (Hirosaki Univ.; Nissan Chemical Industries) GOTO, Yuki; MATSUYAMA, Motonobu; OZAWA, Masaaki; SAWADA, Hideo
- 3PB-143** Preparation and Application of Fluorinated Organic Compounds/ ketone Nanocomposites (Hirosaki Univ.; National Institute of Advanced Industrial Science and Technology; Shimane Univ.) KIJIMA, Tetsushi; TASHIMA, Tsukasa; NISHIDA, Masakazu; FUKAYA, Haruhiko; YOSHIDA, Masato; SAWADA, Hideo
- 3PB-144** Preparation and Fluorescent Characteristic of Fluoroalkyl End-Capped Oligomers/Diphenylimidazole Derivative Nanocomposites (Hirosaki Univ.) IZUMI, Shunsuke; SAWADA, Hideo
- 3PB-145** Preparation and Thermal Stability of Fluoroalkyl End-capped Acrylic Acid Oligomer/Silica Nanocomposites-encapsulated Optically-Active Low Molecular Weight Aromatic Compounds (Hirosaki Univ.; Nippon Chemical Industrial Co., Ltd.) KIKUCHI, Mieko; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo
- 3PB-146** Interaction of a Variety of Fluoroalkyl End-capped Oligomers with Silica Nanoparticles (Hirosaki Univ.) KIKUCHI, Mieko; TAKAHASHI, Keigo; SAWADA, Hideo
- 3PB-147** Preparation and Thermal Stability of Perfluoro-1, 3-Propanedisulfonic Acid/Silica Nanocomposites-Encapsulated a variety of Low Molecular Weight Aromatic Compounds (Hirosaki Univ.; Nippon Chemical Industrial Co., Ltd.) SOUMA, Saki; KIKUCHI, Mieko; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo
- 3PB-148** Preparation and Application to the Surface Modification of Novel Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Fluoroalkylated Styrene Dimers Nanocomposites (Hirosaki Univ.; Shimane Univ.) OKUNO, Keita; GOTO, Yuki; IIZUKA, Mari; YOSHIDA, Masato; SAWADA, Hideo
- 3PB-149** Preparation and Application of Novel Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Hyperbranch Polymer Nanocomposites (Hirosaki Univ.; Nissan Chemical Industries) OKUNO, Keita; MATSUKI, Yusuke; MATSUYAMA, Motonobu; OZAWA, Masaaki; SAWADA, Hideo
- 3PB-150** Preparation and Application of Fluoroalkyl End-Capped Vinyltrimethoxysilane Oligomer/Silica/Calcium Carbonate Nanocomposites (Hirosaki Univ.; LIXIL) IDOMUKAI, Satsuki; SAITOU, Tomoya; HIRAYAMA, Yutaro; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo
- 3PB-151** Formation of carbamates of microbial poly( $\epsilon$ -L-lysine) (Univ. Fukui, Kanazawa Univ.) MAEDA, Shiro; TAKAGI, Ken; KUNIMOTO, Ko-ki
- 3PB-152** Structural analysis of polymer blends and hydrogels of microbial poly( $\epsilon$ -L-lysine)/carboxymethyl cellulose by solid NMR (Univ. Fukui/Kanazawa Univ.) MAEDA, Shiro; KOBAYASHI, Mina; KUNIMOTO, Ko-ki
- 3PB-153** Preparation and Thermal Stability of a Variety of Fluorinated Silica/Titanium Oxide Nanocomposites (Hirosaki Univ.; LIXIL) YOSHIOKA, Hiroaki; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo
- 3PB-154** Preparation of Fluoroalkyl End-Capped Vinyltrimethoxysilane Oligomer-encapsulated Fullerenes: Application of These Fluorinated Nanocomposites to the Surface Modification (Hirosaki Univ.; Ishihara Chemical Co., Ltd.) OGASAWARA, Takahumi; KIJIMA, Tetsushi; TAKASHIMA, Hiroki; TAKISHITA, Katsuhisa; SAWADA, Hideo
- 3PB-155** Preparation and Thermal Stability of Fluorinated Carboxylic Acid/Silica Nanocomposite-Encapsulated 1,1'-bi(2-naphthol) (Hirosaki Univ.; Nippon Chemical Industrial Co., Ltd.) ISE, Shougo; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo
- 3PB-156** Thermal Stability of Fluoroalkyl End-Capped Vinyltrimethoxysilane Oligomer/Zinc Oxide Nanocomposites-Encapsulated a Variety of Low Molecular Weight Aromatic Compounds (Hirosaki Univ.; Taiyo Yuden) KUDO, Ikue; GOTO, Yuki; OKADA, Yoshitaka; SASAZAWA, Kazuo; SAWADA, Hideo
- 3PB-157** Withdrawn
- 3PB-158** Enzyme Sensor with Metallic Carbon Nanotube and Plasmopolymerized Film (Shibaura Institute of Technology) HOSHINO, Tatsuya; MUGURUMA, Hitosi
- 3PB-159** Preparation and characterization of Dipyrrolyl diketopyrrolo pyrrole thin film derived from latent DPPP and its reactivity to proton (Shibaura Institute of Technology, Department of Applied Chemistry) KASHIWAMATA, Gakuya; OOISHI, Tomoji
- 3PB-160** Development of the color filter high-speed film forming technology for flexible displays using the ink-jet method and latent pigments (Shibaura Institute of Technology, Department of Applied Chemistry) OWADA, Takeshi; OOISHI, Tomoji
- 3PB-161** Development of organic-inorganic hybrid films containing latent pigment and soluble Ni dithiol complex for PDP wavelength selective absorption film (Shibaura Institute of Technology, Faculty of Engineering) OINUMA, Yousuke; OOISHI, Tomoji
- 3PB-162** Synthesis of novel boric ester type ionic liquids and their ion conductive properties. (Japan Advanced Institute of Science and Technology) TOYOTA, Yoshiyuki; MATSUMI, Noriyoshi
- 3PB-163** Electrochemical Activities of Pyrochlore Oxides As An Anode Catalyst for Polymer Electrolyte Membrane Fuel Cells (Dept. of Ind. Chem., Fac. of Eng., Tokyo Univ. of Sci.; Tokyo Natl. Col. of Tech.) AWADH, Asyraf; FUMIKURA, Hiroki; HATAI, Takeo; YAMAMOTO, Tohru; YAMAGIWA, Kiyofumi; SHIROISHI, Hidenobu; AYATO, Yusuke; KUWANO, Jun
- 3PB-164** Development of proton conducting composite electrolytes of shell-core type TiO<sub>2</sub>-1.5P<sub>2</sub>O<sub>5</sub> and fluoroelastomer (Tokyo Univ. of Sci.; Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.; Tokyo Natl. Col. of Tech.) HARADA, Ryo; MATSUSHIMA, Kentaro; HUKUSHIMA, Natsuko; YAMAGIWA, Kiyofumi; SHIROISHI, Hidenobu; AYATO, Yusuke; KUWANO, Jun
- 3PB-165** Biofuel Cell Cathode Utilizing Hemoglobin and Indium Tin Oxide Nanoparticles (Tokyo Univ. of Sci.; Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.; Tokyo Natl. Col. of Tech.) SAKURAI, Kenichiro; FUKUNAGA, Saori; SUGANUMA, Takuya; YAMAGIWA, Kiyohumi; SHIROISHI, Hidenobu; AYATO, Yusuke; KUWANO, Jun
- 3PB-166** Oxygen Reduction Reaction Activity in the Composite Electro-catalysts of Silk Sericin-derived Carbons and TiN (Tokyo Univ. of Sci.; Graduate School of Chem. Sci. and Tech.; Tokyo Natl. Col. of Tech.) NAKAJIMA, Kaname; YAMAMOTO, Toru; YAMAMOTO, Tomoya; YAMAGIWA, Kiyohumi; SHIROISHI, Hidenobu; AYATO, Yusuke; KUWANO, Jun
- 3PB-167** Properties and functions of newly synthesized fluorescent dyes with pyrrolopyridine structure. II (Hayashibara Biochemical Laboratories, Inc.) HIRAMATSU, Hiroyuki; DAN-OH, Yasufumi; TSUJIMOTO, Kazuo
- 3PB-168** Application of Squarylium and Croconium Dyes for ZnO Dye Sensitized Solar Cells (Faculty of Engineering, Gifu Univ.) KUBOTA, Yasuhiro; NISHIDA, Akihiro; FUNABIKI, Kazumasa; MATSUI, Masaki
- 3PB-169** Silica-gel Sensor for Water Detection (Gifu Univ.) MIZUNO, Chihiro; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui
- 3PB-170** Synthesis and Photophysical Properties of Polyheterocyclic Fluorescent Dye in Solution, in the Solid state, and in Polymer Films (Kochi Univ.) MIYATA, Shouhei; TIKAI, Takumi; YOSHIDA, Katsuhira
- 3PB-171** Preparation of soluble Co phthalocyanine complex incorporated with axis ligand and high speed film formation technique using ink-jet method and laser irradiation (Shibaura Institute of Technology) YOSHIDA, Tsutomu; OHISHI, Tomoji
- 3PB-172** Preparation of porous films using conducting polymers (Graduate School, Chitose Institute of Science and Technology) KARTHAUS, Olaf; OKAMOTO, Takuya
- 3PB-173** Fabrication of Super-hydrophobic Surface on Corrugated Cardboard through the Gelation Process of 12-Hydroxystearic Acid (Nagoya Municipal Industrial Research Institute) NAKANO, Kazunori; YOSHIMURA, Keijiro; YAMANAKA, Motoshi; MIZUNO, Masao; UEMURA, Hiroshi
- 3PB-174** Quantum chemical study on the adhesion interaction between epoxy resin and water-physisorbed metal oxide surface (IMCE, Kyushu Univ.) SEMOTO, Takayuki; TSUJI, Yuta; YOSHIZAWA, Kazunari
- 3PB-175** Adhesion of Organic Layer to Inorganic Layer of Gas Barrier Film by Sol-Gel Reaction. (Nihon Univ.) TAKAMURA, Atsushi; KURODA, Kazuhiro; SASAKI, Daisuke; HOSHI, Toru; HAGIWARA, Toshiaki; SAWAGUCHI, Takashi
- 3PB-176** Studies on the relationship between the solubilities of drugs and the variation of some thermodynamic quantities (Dept. of Biological, Kinki Univ) FUJISAWA, Masao; HORI, Erika; KANAOKA, Nanae; KIMURA, Takayoshi
- 3PB-177** Development of coloring thin film for recycle bottle using cellulose-silica hybrid film and latent pigment. (shibaura institute of technology) SUDO, Yuji; OHISHI, Tomoji
- 3PB-178** The laser patterning technique of organic-inorganic film containing latent pigment (Shibaura Institute of Technology, Department of Applied Chemistry.) NIEDA, Satoshi; OOISHI, Tomoji
- 3PB-179** Preparation and photo-patterning characteristics of the fluorinated organic-inorganic hybrid thin film containing latent pigments. (Shibaura institute of technology: Department of Applied Chemistry) EGUCHI, Masaya; OHISHI, Tomoji
- 3PB-180** Preparation and properties of the flexible substrate prepared by polysilazane and SiO<sub>2</sub> sol with high gas barrier and anti-reflection (Shibaura Institute of Technology; Hitachi Chemical Techno Service Co., Ltd) SONE, Shinpei; OHISHI, Tomoji; WATANABE, Hidetoshi; TADAOKA, Eisuke
- 3PB-181** Anti-Dirt Coating on Concrete Blocks Using Chemical Solution Deposition Method (Nagoya Municipal Ind. Res. Inst.; Taiyu Concrete

Industries. Co. Ltd.) ONO, Satomi; TAKEDA, Takuya; KISHIKAWA, Nobuyuki; TSUGE, Hiroyasu; KAWASE, Satoru; KAWANAKA, Hirokazu; TSUDA, Hiroumi; ITO, Keisuke

Tuesday, March 27, PM

(16 : 00 ~ 17 : 30)

## JST-PRESTO International Joint Symposium on Photo-Science Leading to a Sustainable Society: Environment, Energy, Functional Materials

- 3PD-101<sup>#</sup>** Expression Vector, Overproduction, and Easy Recovery of Target Gene Products from Cyanobacteria, Photosynthesizing Microorganisms (Ibaraki Univ.) ASAYAMA, Munehiko
- 3PD-102<sup>#</sup>** Switching of the electron transport chain of unicellular cyanobacteria during nitrogen starvation (RIKEN) OSANAI, Takashi
- 3PD-103<sup>#</sup>** Metabolic profiling analysis of *Synechocystis* sp. PCC6803 cultivated under nitrogen depleted condition (Kobe Univ.) HASUNUMA, Tomohisa
- 3PD-104<sup>#</sup>** A gene-disrupted mutant of cyAbrB in *Synechocystis* sp. PCC6803, as a platform of metabolic engineering (Saitama Univ.) HIHARA, Yukako
- 3PD-105<sup>#</sup>** Construction of a Chimeric Glycolytic Pathway by Synthetic Metabolic Engineering (Osaka Univ.) HONDA, Kosuke
- 3PD-106<sup>#</sup>** Genetic engineering of cyanobacteria to enhance photobiological H<sub>2</sub> production (Kanagawa Univ.) MASUKAWA, Hajime
- 3PD-107<sup>#</sup>** Improvement of Cyanobacterial Enzymes for Alkane Biosynthesis (The Univ. of Tokyo) ARAI, Munehito
- 3PD-108<sup>#</sup>** Metabolome Analysis of *Chamydomonas reinhardtii* Under High- and Low-Light Conditions (Keio Univ.) ITO, Takuro
- 3PD-109<sup>#</sup>** Magneto-optical energy transformation by biogenic photonic crystals in aquatics (Chiba Univ.) IWASAKA, Masakazu
- 3PD-110<sup>#</sup>** Molecular breeding of microalgae for the production of isoprenoid fuels and chemicals (Chiba Univ.) UMEMO, Daisuke
- 3PD-111<sup>#</sup>** Regulation of carbon and nitrogen metabolism in the nitrogen-fixing cyanobacterium *Anabaena* sp. strain PCC 7120 (Chuo Univ.) EHIRA, Shigeki
- 3PD-112<sup>#</sup>** Molecular Design of Oxygen-tolerant [NiFeSe]Hydrogenases for Hydrogen Production under Aerobic Conditions (Okayama Univ.) TAMURA, Takashi
- 3PD-113<sup>#</sup>** Development of chimeric myosin XI for plant growth regulation (RIKEN) TOMINAGA, Motoki
- 3PD-114<sup>#</sup>** Light-regulation of extracellular polysaccharide production by developing various photo-switches (The Univ. of Tokyo) NARIKAWA, Rei
- 3PD-115<sup>#</sup>** Characterization of a metal metabolism in a thermophilic red alga, *Galdieria sulphuraria* (Tokyo Univ. of Pharm.) MINODA, Ayumi

## Innovative use of light and materials/life

- 3PD-116<sup>#</sup>** Coherent control of plasmonic wavefunctions (WASEDA Univ.) IMURA, Kohei
- 3PD-117<sup>#</sup>** Direct Observation of Molecular Structure Change during the Thermal Reaction to Clarify the Reaction Mechanism using Ultrafast Spectroscopy (Hiroshima Univ.) IWAKURA, Izumi
- 3PD-118<sup>#</sup>** Development of Spatio-Temporal Pulse-Shaping Technique and Its Application of Nonlinear Optical Spectroscopy to a Microscopic Region (JST PRESTO) OHTA, Kaoru
- 3PD-119<sup>#</sup>** Active Control of Photo-chemical Processes by Manipulation of Intermolecular Distances towards Artificial Light Harvesting System (Tokyo Metropolitan Univ.) TAKAGI, Shinsuke
- 3PD-120<sup>#</sup>** Probing the Chiral Nature by Single Molecule Fluorescence Detection (Hokkaido Univ.) FUKAMINATO, Tsuyoshi
- 3PD-121<sup>#</sup>** Laser Trapping and Spectroscopy and Dynamics of Single Water Droplets in Air (Hiroshima Univ.) ISHIZAKA, Shoji
- 3PD-122<sup>#</sup>** Development of photoresponsive nucleic acids and their application to photoregulation of gene expression in a single living cell (JST PRESTO) OGASAWARA, Shinzi
- 3PD-123<sup>#</sup>** Growth control of molecular crystal by making BEST use of photochemical reaction (Gunma Univ.) OKUTSU, Tetsuo
- 3PD-124<sup>#</sup>** High-sensitivity detection of optical activity and high-resolution imaging by stimulated Raman scattering (Osaka Univ.) OZEKI, Yasuyuki
- 3PD-125<sup>#</sup>** Ultrawide Band Light Conversion by Controlling Structures of Microdroplets and Ultrashort Laser Pulses (The Univ. of Tokyo) HATANAKA, Koji
- 3PD-126<sup>#</sup>** In-site measurement of interfacial photoreaction in atmosphere and living system (Kyoto Univ.) ENAMI, Shinichi
- 3PD-127<sup>#</sup>** Spatio-temporal manipulation and imaging of condensed-phase wavefunctions (IMS) KATSUKI, Hiroyuki
- 3PD-128<sup>#</sup>** Molecular and physiological analyses of photosensory proteins responsible for mammalian ultraviolet photoreception (The Univ. of Tokyo) KOJIMA, Daisuke
- 3PD-129<sup>#</sup>** Functional analysis and application of a photoactivated transcription regulator in diverse algae (Tohoku Univ.) TAKAHASHI, Fumio
- 3PD-130<sup>#</sup>** Chemical donors for two-photon uncaging of gaseous cellular mediators to probe oxidative stress (Nagoya City Univ.) NAKAGAWA, Hidehiko

## Photoenergy Conversion Systems and Materials for the Next Generation solar cells

- 3PD-131<sup>#</sup>** Organic thin-film solar cells with energy harvesting and transferring system based on excitation transfer (Shinshu Univ.) ICHIKAWA, Musubu
- 3PD-132<sup>#</sup>** Formation of Polycrystalline Silicon Films for Solar Cells by Flash Lamp Annealing (JAIST) OHDAIRA, Keisuke
- 3PD-133<sup>#</sup>** High-Efficient and Ultra-Thin Solar Cells using Plasmons (Kyushu Univ.) OKAMOTO, Koichi
- 3PD-134<sup>#</sup>** Photogenerated Charge Carrier Dynamics in Donor-Acceptor Films Studied by Microwave Conductivity (Osaka Univ.) SAEKI, Akinori
- 3PD-135<sup>#</sup>** Improvement of Organic Photovoltaic Cell Performance by Crystalline and Morphology Control (Kanazawa Univ.) TAIMA, Tetsuya
- 3PD-136<sup>#</sup>** Design and Synthesis of  $\pi$ -Electronic Two-dimensional Polymers and Frameworks (IMS) JIANG, Donglin
- 3PD-137<sup>#</sup>** Microscopic Properties of Organic Solar Cells as Investigated by Light-Induced Electron Spin Resonance (Univ. of Tsukuba) MARUMOTO, Kazuhiro
- 3PD-138<sup>#</sup>** Development of Organic Semiconducting Materials Containing New Electron-accepting Units (Osaka Univ.) IE, Yutaka
- 3PD-139<sup>#</sup>** Nanocarbon Composite Materials for Photoelectrochemical Devices (Kyoto Univ.) UMEYAMA, Tomokazu
- 3PD-140<sup>#</sup>** Photoinduced Charge-Separated State and Its Charge Dissociation Dynamics in Polythiophen-Fullerene Blend (Shizuoka Univ.) KOBORI, Yasuhiro
- 3PD-141<sup>#</sup>** Synthesis of multiple-bandgap semiconductor for intermediate-band solar cells (Saga Univ.) TANAKA, Tooru
- 3PD-142<sup>#</sup>** Enhancement of Power Conversion Efficiency and Long-term Stability of P3HT/PCBM Solar Cells Using C<sub>60</sub> Derivatives with Thiophene Units as Surfactants (Tokyo Tech) HIGASHIHARA, Tomoya
- 3PD-143<sup>#</sup>** Design and Synthesis of Near-infrared Organic Dyes with the Low LUMO Energy Level (RIKEN) MURANAKA, Atsuya
- 3PD-144<sup>#</sup>** The I<sup>-</sup>/I<sub>3</sub><sup>-</sup> transport in dye-sensitized solar cells (NIMS) YANAGIDA, Masatoshi
- 3PD-145<sup>#</sup>** Development of Organic Dyes for DSCs Utilizing Boron as a Key Element (Kyoto Univ.) WAKAMIYA, Atsushi
- 3PD-146<sup>#</sup>** Highly ordered porphyrin arrays accumulated on cylindrical phase segregation interface in liquid crystalline amphiphilic block copolymer thin film (KIT) ASAOKA, Sadayuki
- 3PD-147<sup>#</sup>** Cu<sub>2</sub>SnS<sub>3</sub> thin films prepared by sulfurizing metal precursors (NNCT) ARAI, Hideaki
- 3PD-148<sup>#</sup>** Piezo-electric-field effect MQW solar cells based on novel oxynitride semiconductors (Kyushu Univ.) ITAGAKI, Naho
- 3PD-149<sup>#</sup>** Electron Transfer Dynamics of Inhomogeneous Photoelectric Conversion Systems by Means of Wavelength - Tunable Transient Absorption Microscopy (Osaka Univ.) KATAYAMA, Tetsuo
- 3PD-150<sup>#</sup>** Study of crystal growth of super high-quality silicon crystal with grain boundaries with controlled configurations for solar cells (Tohoku Univ.) KUTSUKAKE, Kentaro
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