

## Program

## Room S1

### Bldg.21 203

### Quantitative analytical researches on multi-functional foods

Sunday, March 28, PM

Chair: TAMIYA, Eiichi (13:30~15:00)

- 3S1-01** Opening remarks (Kyoto Pref. Univ. of Med.) YOSHIKAWA, Toshikazu (13:30~13:40)
- 3S1-02** Special Lecture Current situation of the researches on multi-functional foods (National Food Research Institute, NARO) HINO, Akihiro (13:40~14:20)
- 3S1-03** Special Lecture Food Factors in Medicine (Kyoto Pref. Univ. of Med.) YOSHIKAWA, Toshikazu (14:20~15:00)

Chair: HINO, Akihiro (15:00~17:00)

- 3S1-04** Special Lecture Development of Functional Foods (Institute for Health Care Science, Suntory Wellness Limited.) KISO, Yoshinobu (15:00~15:40)
- 3S1-05** Special Lecture Future contributions of artificial digestion, absorption and metabolism systems to the evaluation of food functions (IIS, The Univ. of Tokyo) SAKAI, Yasuyuki; FUJII, Teruo (15:40~16:20)
- 3S1-06** Special Lecture Biodevices for analysing food function (Grad. Sch. Eng., Osaka Univ.) TAMIYA, Eiichi (16:20~17:00)

(17:00~17:10)

- 3S1-07** closing remarks (National Food Research Institute, NARO) HINO, Akihiro (17:00~17:10)

### Photoscience of low-dimensional inorganic-organic hybrid systems-Photofunction of organic compounds within microenvironment-

Monday, March 29, AM

Chair: NAKATO, Teruyuki (9:30~10:20)

- 4S1-01** Special Program Lecture New Photofunctions of Metal Complexes Manifested in a Low-dimensional Organic-Inorganic Hybrid (Grad. Sch. Sci. and Eng., Tokyo Tech; CREST, JST) ISHITANI, Osamu (09:30~10:00)
- 4S1-02** Special Program Lecture Control and Photofunction of Molecular Arrangement of Dye/Metal Oxide Hybrid Langmuir-Blodgett Film (Fac. Textile Sci. Technol., Shinshu Univ.; SORST/JST) USAMI, Hisanao (10:00~10:10)
- 4S1-03** Special Program Lecture Investigation of Photochemical reactions in Clay-Porphyrin Complexes (Tokyo Metropolitan Univ.; PRESTO, JST) TAKAGI, Shinsuke (10:10~10:20)

Chair: MIYATA, Hirokatsu (10:20~11:10)

- 4S1-04** Special Program Lecture Photoelectrochemical Aspect of Phase-separated Nanostructured Polymer Thin Films (Chem. Res. Lab., Tokyo Tech) IYODA, Tomokazu (10:20~10:50)
- 4S1-05** Special Program Lecture Environmental Luminous Response of Dyes Incorporated in 2-dimensional nano-space (Shimane Univ.) SASAI, Ryo (10:50~11:00)
- 4S1-06** Special Program Lecture Control of aggregation state and arrangement of dye molecules on the organically modified nanosheets (Univ. of Hyogo) MATSUO, Yoshiaki (11:00~11:10)

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

- 4S1-07** Special Program Lecture Size effect on the optical properties of organic nanocrystals (Grad. Sch. Eng., Osaka Univ.) ASAHII, Tsuyoshi (11:20~11:50)
- 4S1-08** Special Program Lecture Nonlinear Optical Properties of Organic Compounds Surrounded by Two-Dimensional Inorganic Crystals (Grad. Sch. Med., Yamaguchi Univ.) KAWAMATA, Jun (11:50~12:00)

Chair: KAWAMATA, Jun (12:00~12:30)

- 4S1-09** Special Program Lecture Layered Crystals as Soft Matrices of Photofunctional Molecules (BASE, Tokyo Univ. of Agri. and Technol.) NAKATO, Teruyuki (12:00~12:05)

- 4S1-10** Special Program Lecture Synthesis and optical properties of inorganic-organic nanocomposite materials based on mesoporous materials (Frontier Research Center, Canon Inc.) MIYATA, Hirokatsu (12:05~12:10)
- 4S1-11** Special Program Lecture Control of aggregation structure of photofunctional organic molecules using one-dimensional inorganic polymer (Grad. Sch. Sci., Eng., Kagoshima Univ.) KANEKO, Yoshiro (12:10~12:15)
- 4S1-12** Special Program Lecture Preparation of Inorganic Layered Compounds for Selective Adsorption of an Organic Molecule (Fac. Eng., Shinshu Univ.) OKADA, Tomohiko (12:15~12:20)
- 4S1-13** Special Program Lecture Highly Functional Low-Dimensional Compounds (Grad. Sch. Sci., Kyoto Univ.) KAGEYAMA, Hiroshi (12:20~12:25)
- 4S1-14** Panel Discussion (12:25~12:30)

### New energy innovation and material production based on the artificial photosynthesis

Monday, March 29, PM

Chair: NANGO, Mamoru (13:30~15:00)

- 4S1-15** Introduction (Fac. Eng, Oita Univ.) AMAO, Yutaka (13:30~13:40)
- 4S1-16** Special Program Lecture Carbon Dioxide Fixation Based on the Artificial Photosynthesis System (Fac. Eng, Oita Univ.) AMAO, Yutaka (13:40~14:20)
- 4S1-17** Special Program Lecture Construction of Photocatalysis System for CO<sub>2</sub> Reduction using Mesoporous Organosilica (Toyota Central R&D Labs., Inc.; JST/CREST) INAGAKI, Shinji (14:20~15:00)

Chair: AMAO, Yutaka (15:00~16:30)

- 4S1-18** Special Program Lecture Energy Conversion and Catalytic Systems Using Porphyrin-Antibody Complexes (Grad. Sch. Sci., Osaka Univ.; JST-CREST) YAMAGUCHI, Hiroyasu; HARADA, Akira (15:00~15:40)
- 4S1-19** Special Program Lecture Self-assembly of photosynthetic antenna polypeptides/pigments complexes. (Grad. Sch. Eng., Nagoya Inst. of Tech.) NANGO, Mamoru (15:40~16:20)
- 4S1-20** Summary (Fac. Eng, Oita Univ.) AMAO, Yutaka (16:20~16:30)

## Room S2

### Bldg.21 204

### Special Lecture

Saturday, March 27, AM

Chair: SUZUKI, Keisuke (11:00~11:50)

- 2S2-01<sup>#</sup>** Special Lecture  $\beta$ -Peptides from Chemistry to Biology (Organische Chemie / Eidgenössische Technische Hochschule, Switzerland) Dieter Seebach (11:00~11:50)

### Total Synthesis of Structurally Complex Natural Products: New Transformations and Strategies

Saturday, March 27, PM

(13:30~13:40)

- 2S2-02** Introduction (School of Pharmaceutical Sciences, The Univ. of Tokyo) INOUE, Masayuki (13:30~13:40)

Chair: TANINO, Keiji (13:40~14:10)

- 2S2-03** Special Lecture Synthetic Strategies aiming for the efficient construction of the framework of the natural products (Graduate School of Agricultural and Life Sciences, The Univ. of Tokyo) WATANABE, Hidenori (13:40~14:10)

Chair: WATANABE, Hidenori (14:10~14:40)

- 2S2-04** Special Lecture Synthetic study on complex natural flavonoids (Tokyo Institute of Technology; SORST, JST) OHMORI, Ken (14:10~14:40)

Chair: OHMORI, Ken (14 : 40~15 : 10)

**2S2-05 Special Lecture** Synthetic Study of Highly Oxygenated Multi-Cyclic Natural Products (School of Pharmaceutical Sciences, The Univ. of Tokyo) INOUE, Masayuki (14:40~15:10)

Chair: INOUE, Masayuki (15 : 20~15 : 50)

**2S2-06 Special Lecture** Synthetic Studies on Polycyclic Alkaloids: Total Synthesis of (+)-Haplophytine (Grad. Sch. Pharm. Sci., Tohoku Univ.) TOKUYAMA, Hidetoshi (15:20~15:50)

Chair: TOKUYAMA, Hidetoshi (15 : 50~16 : 20)

**2S2-07 Special Lecture** Enantioselective Total Synthesis of Bioactive Polycyclic Natural Products via Sequential Reaction as the Key Step (Faculty of Science and Engineering, Waseda Univ.) NAKADA, Masahisa (15:50~16:20)

Chair: NAKADA, Masahisa (16 : 20~16 : 50)

**2S2-08 Special Lecture** Total Synthesis of Marine Terpenoids on the Basis of a [6+4] Cycloaddition Reaction (Fac. Sci., Hokkaido Univ.) TANINO, Keiji (16:20~16:50)

(16 : 50~17 : 00)

**2S2-09** Closing Remarks (Faculty of Science and Engineering, Waseda Univ.) NAKADA, Masahisa (16:50~17:00)

## New Trends in Carbon Dioxide Fixation: Approaches from Basic Sciences

Sunday, March 28, PM

Chair: IWASAWA, Nobuharu (13 : 30~16 : 35)

**3S2-01** Opening Remarks (Grad. Sch. Sci. and Eng., Tokyo Tech) IWASAWA, Nobuharu (13:30~13:35)

**3S2-02 Special Lecture** Transition-metal Catalyzed Preparation of Carboxylic Acid Derivatives (Grad. Sch. Sci. and Eng., Tokyo Tech) IWASAWA, Nobuharu (13:35~14:05)

**3S2-03 Special Lecture** Recent Development in Aliphatic Polycarbonate Synthesis (Sch. of Eng. The Univ. of Tokyo) NOZAKI, Kyoko (14:05~14:35)

**3S2-04 Special Lecture** Production Process of Polycarbonate from Carbon Dioxide as a Starting Material (ASAHI KASEI CORP.; ASAHI KASEI CHEMICALS CORP.) FUKAWA, Isaburo; Miyake, Nobuhisa (14:35~15:05)

**3S2-05 Special Lecture** Carbon Dioxide Fixation with Molecular Catalysts (Grad. Sch. Sci. and Eng., Tokyo Tech) IKARIYA, Takao (15:05~15:35)

**3S2-06 Special Lecture** Importance and the state of technologies for CO<sub>2</sub> utilization using solar energy (Grad. Sch. Sci. and Eng., Tokyo Tech; CREST, JST) ISHITANI, Osamu (15:35~16:05)

**3S2-07 Special Lecture** (IMS) TANAKA, Koji (16:05~16:35)

## Chemical Biology for Living Systems

Monday, March 29, AM

Chair: UEMURA, Daisuke (9 : 00 ~9 : 30)

**4S2-01 Special Lecture** Metabolomics-based phytochemical genomics (Grad. Sch. Pharm. Sci., Chiba Univ.; RIKEN Plant Science Center) SAITO, Kazuki (09:00~09:30)

Chair: MURATA, Michio (9 : 30 ~10 : 00)

**4S2-02 Special Lecture** Chemical Biology based on Combinatorial Synthesis (Grad. Sch. Sci., Eng., Tokyo Tech) TAKAHASHI, Takashi (09:30~10:00)

Chair: UEDA, Minoru (10 : 00~10 : 30)

**4S2-03 Special Lecture** Control of Cellular Function by Artificial Genetic Switch (Grad. Sch. Sci., Kyoto Univ.) SUGIYAMA, Hiroshi (10:00~10:30)

Chair: FUKASE, Koichi (10 : 30~11 : 00)

**4S2-04 Special Lecture** Protein/peptide Delivery and Control of Cellular Function (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) AKIYOSHI, Kazunari (10:30~11:00)

Chair: KIGOSHI, Hideo (11 : 00~11 : 30)

**4S2-05 Special Lecture** Deciphering Intracellular Functions of Glycoproteins Based on Synthetic Chemistry (RIKEN ASI; JST-ERATO) ITO, Yukishige (11:00~11:30)

Chair: KIKUCHI, Kazuya (11 : 30~12 : 30)

**4S2-06 Special Lecture** Chemical Biology of nitrated nucleotides (Grad. Sch. Life Sci., Tohoku Univ.) ARIMOTO, Hirokazu (11:30~12:00)

**4S2-07 Special Lecture** Engineering Plant Polyketide Synthases (Grad.

Sch. Pharm. Sci., The Univ. of Tokyo) ABE, Ikuro (12:00~12:30)

## Room S3

Bldg.21 205

## Chemical approach for therapeutic agents and its future

Friday, March 26, AM

(9 : 30 ~9 : 35)

**1S3-01** Introduction (Fac. of Chem., Mater. Bioeng., Kansai Univ.) NAKAI, Misaki (09:30~09:35)

Chair: KINOSHITA, Isamu (9 : 35 ~10 : 35)

**1S3-02 Special Program Lecture** (Grad. Sch. Pharm. Sci., Nagoya City Univ.) HIGUCHI, Tsunehiko (09:35~10:05)

**1S3-03 Special Program Lecture** G-quadruplex as a Target for Cancer Chemotherapy (Tokyo Univ. of Agric. & Technol.) NAGASAWA, Kazuo (10:05~10:35)

Chair: SUGAI, Yuko (10 : 35~11 : 25)

**1S3-04 Special Program Lecture** Development of functional fluorescence probes for use in drug-discovery (Grad. Sch. Pharm. Sci., The Univ. of Tokyo; JST-CREST) TERAI, Takuya (10:35~10:55)

**1S3-05 Special Program Lecture** Hydroxyazine-type heterocyclic compounds - Synthesis of Metal Complexes and Their Application to Metallopharmaceuticals - (Fac. Sci. Technol., Seikei Univ.) KATOH, Akira (10:55~11:25)

Chair: YANO, Shigenobu (11 : 25~12 : 35)

**1S3-06 Special Program Lecture** AstaREAL<sup>®</sup> astaxanthin and its industrial application (Fuji Chemical Industry Co.,Ltd.) YAMASHITA, Eiji (11:25~11:45)

**1S3-07 Special Program Lecture** Chiromorphology - chirality generation, transfer, amplification and measurement (Grad. Sch. Arts Sci, The Univ. of Tokyo; JST ERATO-SORST) KURODA, Reiko (11:45~12:30)

**1S3-08** Summary (Fac. Sci. Technol., Seikei Univ.) MATSUMURA, Yuriko (12:30~12:35)

## Symbiosis between Future Medical Care and Chemistry

Friday, March 26, PM

Chair: FUKASE, Koichi (13 : 30~14 : 20)

**1S3-09** Introduction (Grad. Sch. Eng., Osaka City Univ.) NAGASAKI, Takeshi (13:30~13:40)

**1S3-10 Special Program Lecture** Biology and medicine of GPI-anchored proteins (Res. Inst. for Microbial Diseases, Osaka Univ.) KINOSHITA, Taroh (13:40~14:20)

Chair: NAGASAKI, Takeshi (14 : 20~15 : 00)

**1S3-11 Special Program Lecture** Technology for Intracellular Delivery of Biopolymers using Cell-Penetrating Peptides (Inst. Chem. Res., Kyoto Univ.) FUTAKI, Shiroh (14:20~15:00)

Chair: KAWAMOTO, Tetsuji (15 : 00~15 : 40)

**1S3-12 Special Program Lecture** Form new approach of chemical sensitization in cancer therapy to space science (Nara Med. Univ.) OHNISHI, Takeo (15:00~15:40)

Chair: FUJII, Ikuo (15 : 40~16 : 30)

**1S3-13 Special Program Lecture** Our approach for successful autologous cell transplantation therapy (National Cardiovascular Center Research Institute) YAMAOKA, Tetsuji (15:40~16:20)

**1S3-14** Summary (Takeda Pharmaceutical Company) KAWAMOTO, Tetsuji (16:20~16:30)

## Room S5

Bldg.21 422

### Supramolecular Metal Complexes: -Toward Functionalities from Suprastructures-

Friday, March 26, PM

(13 : 30~13 : 40)

**1S5-01** (Grad. Sch. Sci., Tohoku Univ.) YAMASHITA, Masahiro (13:30~13:40)

Chair: KOJIMA, Takahiko (13 : 40~14 : 50)

**1S5-02 Special Lecture** To Seek New Electron Systems - Aromaticity and Topology (Grad. Sch. Sci., Kyoto Univ.) OSUKA, Atsuhiko (13:40~14:15)

**1S5-03 Special Lecture** Development of Intelligent Supramolecular Metal Complexes based on Dynamic Nature of Metal Ions (Grad. Sch. Sci., The Univ. of Tokyo) HIRAOKA, Shuichi (14:15~14:50)

Chair: KONNO, Takumi (14 : 50~16 : 05)

**1S5-04 Special Lecture** Supramolecular Chemistry toward Functional Soft Materials (Sch. of Eng. The Univ. of Tokyo) AIDA, Takuzo (14:50~15:25)

**1S5-05 Special Lecture** Self-Assembly of Metal Complexes and Their Nano-Interfacial Properties (Grad. Sch. Eng., Kyushu Univ.; JST CREST) KIMIZUKA, Nobuo (15:30~16:05)

Chair: TANAKA, Kentaro (16 : 05~17 : 15)

**1S5-06 Special Lecture** Fine-controlled Metal Assembly and Its Application (Tokyo Tech) YAMAMOTO, Kimihisa (16:05~16:40)

**1S5-07 Special Lecture** Self-assembly approach to structure and function (Sch. of Eng. The Univ. of Tokyo) FUJITA, Makoto (16:40~17:15)

## Room S6

Bldg.19 19-001

### CSJ Award Presentation

Friday, March 26, PM

Chair: KAWAI, Maki (13 : 00~15 : 10)

**1S6-01 CSJ Award Presentation** Novel Catalysis by Gold Nanoparticles (Tokyo Metropolitan Univ.) HARUTA, Masatake (13:00~14:00)

**1S6-02 CSJ Award Presentation** In situ Nanoscale Structural Determination and Construction of Functional Phases at Solid/Liquid Interfaces (Grad. Sch. Sci., Hokkaido Univ.; NIMS MANA) UOSAKI, Kouhei (14:10~15:10)

Saturday, March 27, AM

Chair: TSUTSUI, Tetsuo (10 : 00~11 : 00)

**2S6-01 CSJ Award Presentation** Fabrication and Characterization of Metallofullerenes and Nano-Peapods (Grad. Sch. Sci. & IAR, Nagoya Univ.) SHINOHARA, Hisanori (10:00~11:00)

Chair: MIYASHITA, Tokuji (11 : 10~12 : 10)

**2S6-02 CSJ Award Presentation** Creation of New Photofunctional Materials Based on Cooperative Effects (Chem. Res. Lab., Tokyo Tech) IKEDA, Tomiki (11:10~12:10)

### CSJ Public Lecture

Saturday, March 27, PM

Chair: NAKAGAWA, Yoshiki (13 : 20~14 : 10)

**2S6-03 Special Lecture** Completely farm-raising bluefin tuna *Thunnus orientalis* (Fisheries Lab., Kinki Univ.) MURATA, Osamu (13:20~14:10)

Chair: SUGINOME, Michinori (14 : 10~15 : 00)

**2S6-04 Special Lecture** Alkaline Dry Battery "EVOLTA" (Panasonic Corp. Energy Company) OKADA, Tadayo (14:10~15:00)

Chair: OGOSHI, Sensuke (15 : 20~16 : 10)

**2S6-05 Special Lecture** Ostrich Power (Kyoto Pref. Univ.) TSUKAMOTO, Yasuhiro (15:20~16:10)

Chair: SUZUKI, Masaaki (16 : 10~17 : 00)

**2S6-06 Special Lecture** Valuable dietary supplement: Coenzyme Q10 (KANEKA Corp. QOL Division) HOSOE, Kazunori (16:10~17:00)

### CSJ Award Presentation

Sunday, March 28, AM

Chair: NISHIHARA, Hiroshi (10 : 00~11 : 00)

**3S6-01 CSJ Award Presentation** Exploration and Development of Novel Porphyrinoids with Intriguing Structural and Electronic Properties (Grad. Sch. Sci., Kyoto Univ.) OSUKA, Atsuhiko (10:00~11:00)

Chair: MIYAURA, Norio (11 : 10~12 : 10)

**3S6-02 CSJ Award Presentation** Development of Bifunctional Molecular Catalysis Based on Metal-Ligand Cooperation Effects (Grad. Sch. Sci. and Eng., Tokyo Tech) IKARIYA, Takao (11:10~12:10)

## Room S7

Bldg.19 19-002

### Solvations at Liquid-Solid Interfaces

Friday, March 26, AM

Chair: MATSUOKA, Osamu (9 : 30 ~11 : 05)

**1S7-01** Introduction (Fac. Sci., Kobe Univ.) ONISHI, Hiroshi (09:30~09:35)

**1S7-02 Special Program Lecture** Solvation Structure at Molecular Interfaces Studied by Molecular Liquid Theory (RISM Theory) (Computational Science Research Program, RIKEN) IMAI, Takashi (09:35~10:05)

**1S7-03 Special Program Lecture** Solvation structure at metal oxide/liquid interface studied by frequency modulation atomic force microscopy (Dept. of Chem., Kobe Univ.; Dept. of Electro. Sci. and Eng., Kyoto Univ.; Innovative Collaboration Center, Kyoto Univ.; Computational Science Research Program, RIKEN) KIMURA, Kenjiro; Kenjiro; HIASA, Takumi; IDO, Shinichiro; OYABU Noriaki; KOBAYASHI Kei; IMAI, Takashi; YAMADA, Hirofumi; ONISHI, Hiroshi (10:05~10:35)

**1S7-04 Special Program Lecture** Hydration Structures at Lipid/Water Interface Investigated by AFM (FSO, Kanazawa Univ.) FUKUMA, Takashi (10:35~11:05)

Chair: ONISHI, Hiroshi (11 : 05~12 : 35)

**1S7-05 Special Program Lecture** Theoretical analysis of redox reactions on solid/solution interfaces via first-principles molecular dynamics (WPI-MANA, NIMS; PRESTO & CREST, JST) TATEYAMA, Yoshitaka (11:05~11:35)

**1S7-06 Special Program Lecture** AFM Analysis on Local Structural Change Induced by Electrochemical Reaction at the Electrode (Grad. Sch. Eng. Sci., Osaka Univ.; PRESTO, JST) FUKUI, Ken-ichi (11:35~12:05)

**1S7-07 Special Program Lecture** Development of Foundation for Nanointerface Technology Based on Surface Forces Measurement (IMRAM, Tohoku Univ.) KURIHARA, Kazue (12:05~12:35)

### Soft-Interface by Young Scientist

Friday, March 26, PM

Chair: TAKAI, Madoka (13 : 30~14 : 05)

**1S7-08** General Introduction (Sch. Mat. Sci., JAIST) MIURA, Yoshiko (13:30~13:35)

**1S7-09 Special Program Lecture** Fabrication of DNA sensor using self-assembled monolayers (New Frontiers Research Laboratories, Toray Industries, Inc.) NAKAMURA, Fumio (13:35~14:05)

Chair: MIURA, Yoshiko (14 : 05~15 : 35)

**1S7-10 Special Program Lecture** Structuring of Interfacial Water on Silica Surface in Cyclohexane Studied by Surface Forces Measurement and SFG Spectroscopy (IMRAM, Tohoku Univ.; CREST, JST) MIZUKAMI, Masashi; KOBAYASHI, Atsushi; KURIHARA, Kazue (14:05~14:35)

**1S7-11 Special Program Lecture** Latent Water in a Polymer Solid - Phase Transition of Water in Polymer-Water Systems - (Grad. Sch. Sci. Eng., Univ. of Toyama) GEMMEI-IDE, Makoto (14:35~15:05)

**1S7-12 Special Program Lecture** Unique Colloidal Stability of DNA-linked Polymer Micelles (Bioeng. Lab., RIKEN) TAKARADA, Tohru (15:05~15:35)

Chair: KIKUCHI, Akihiko (15 : 35~16 : 30)

**1S7-13 Special Program Lecture** Bio/synthetic macromolecular hybrid-interface for the improvements of bio-macromolecules functions (Grad.

Sch. Pure Appl. Sci., Univ. of Tsukuba) YOSHIMOTO, Keitaro; NAGASAKI, Yukio (15:35~16:05)

**1S7-14 Special Program Lecture** Soft interface as a new rationale for the design of biotransistor (Sch. of Eng. The Univ. of Tokyo; NIMS) Matsumoto, Akira; MIYAHARA, Yuji (16:05~16:30)

## Room S9

Bldg.B 101

### Cooperative Effects and Function Control in Molecular Assembly and Organization Systems

Friday, March 26, AM

Chair: NABESHIMA, Tatsuya (9:30~10:35)

- 1S9-01** Introductory Talk (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) NABESHIMA, Tatsuya (09:30~09:35)  
**1S9-02 Special Program Lecture** Tuning the Structure and Reactivity of Transition-metal Active Oxygen Complexes (Grad. Sch. Eng., Osaka Univ.) ITOH, Shinobu (09:35~10:05)  
**1S9-03 Special Program Lecture** Design of Cooperative Catalysts Inspired by Enzymes and Mechanistic Study of Their Reactions (Tokyo Univ. of Science) AOKI, Shin (10:05~10:35)

Chair: AOKI, Shin (10:35~11:35)

- 1S9-04 Special Program Lecture** Cooperative Change of Properties of Supramolecules Using Host-Guest Complexes (Chem. Res. Lab., Tokyo Tech) OSAKADA, Kohtarō (10:35~11:05)  
**1S9-05 Special Program Lecture** Construction of Supramolecular Assembly based on Unique Host-Guest Motif (Dept. Chem., Grad. Sch. Sci., Hiroshima Univ.) HAINO, Takeharu (11:05~11:35)

Chair: HAINO, Takeharu (11:35~12:35)

- 1S9-06 Special Program Lecture** Self-Assembled Structures and Behaviors of  $\pi$ -Conjugated Complexes on Surfaces (CST, Nihon Univ.) OTSUKI, Joe (11:35~12:05)  
**1S9-07 Special Program Lecture** Color Electronic Paper Using Organic-Metallic Hybrid Polymers (NIMS) HIGUCHI, Masayoshi (12:05~12:35)

### Sciences and Applications of Nanoparticles / The way to materials and Biology

Friday, March 26, PM

Chair: YOSHIZAWA, Michito (13:30~14:35)

- 1S9-08** Explanation of Aim (Tokyo Univ. of Sci.) NEGISHI, Yuichi (13:30~13:35)  
**1S9-09 Special Program Lecture** Molecular Recognition and Response Functions of Nanocluster Compounds (Grad. Sch. of Environmental Sci., Hokkaido Univ.) KONISHI, Katsuaki (13:35~13:55)  
**1S9-10 Special Program Lecture** Precise Synthesis and Characterization of Thiolate-Protected Bimetal Clusters (Tokyo Univ. of Sci.) NEGISHI, Yuichi (13:55~14:15)  
**1S9-11 Special Program Lecture** Controlled Synthesis and Functions of Metal Nanoparticles/Polymer Composites (FIRST, Konan Univ.; PRESTO, JST) AKAMATSU, Kensuke (14:15~14:35)

Chair: TAKAYA, Hikaru (14:35~15:35)

- 1S9-12 Special Program Lecture** Preparation of Nanogels and Biomedical Applications (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) AKIYOSHI, Kazunari (14:35~14:55)  
**1S9-13 Special Program Lecture** Surface Modification of Gold Nanorods with Functional Molecules and Diagnostic and Therapeutic System (Fac. Eng., Kyushu Univ.; JST, PRESTO) NIIDOME, Takuro (14:55~15:15)  
**1S9-14 Special Program Lecture** Functionalization of Protein nanoparticles (iCeMS, Kyoto Univ.; PRESTO, JST) UENO, Takafumi (15:15~15:35)

Chair: MATSUO, Yutaka (15:35~16:40)

- 1S9-15 Special Program Lecture** Bottom-up Electronics by Nanoparticles (Tokyo Institute of Technology; JST-CREST) MAJIMA, Yutaka (15:35~15:55)  
**1S9-16 Special Program Lecture** Optical Excited States and Functionalities in Semiconductor Nanoparticle (Inst. Chem. Res., Kyoto Univ.) MATSUDA, Kazunari (15:55~16:15)  
**1S9-17 Special Program Lecture** Fabrication of organic nanoparticle colloids by laser ablation in water (Grad. Sch. Eng., Osaka Univ.) ASAHI, Tsuyoshi (16:15~16:35)  
**1S9-18** Summary (iCeMS, Kyoto Univ.) UENO, Takafumi (16:35~

16:40)

### Elucidating true pictures of nature: From elements to living organisms

Monday, March 29, AM

Chair: TAKEUCHI, Takae (9:30~11:05)

- 4S9-01** Opening remarks (JST; Science Council of Japan) SAWADA, Tsuguo (09:30~09:35)  
**4S9-02 Special Program Lecture** Recent developments in mass spectrometry (Osaka MCH Research Institute for Maternal and Child Health) WADA, Yoshinao (09:35~09:50)  
**4S9-03 Special Program Lecture** Coldspray Ionization Mass Spectrometry: Application to Supramolecules and Biomolecules (Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) YAMAGUCHI, Kentaro (09:50~10:15)  
**4S9-04 Special Program Lecture** Ion Mobility & Ion Trap for Measurements on Nano Structures (Fac. Sci., Toho Univ.) SUGAI, Toshiki (10:15~10:40)  
**4S9-05 Special Program Lecture** Live Single-cell Real Time Mass Spectrometry (Grad. Sch. Biomed. Sci., Hiroshima Univ.) MASUJIMA, Tsutomu (10:40~11:05)

Chair: WADA, Yoshinao (11:05~12:30)

- 4S9-06 Special Program Lecture** Development and Application of Imaging Mass Spectrometry (Hamamatsu Univ. Sch. Med.) SETOH, Mitsutoshi (11:05~11:30)  
**4S9-07 Special Program Lecture** Current status of scanning X-ray microprobe in high-energy X-ray region and its application to archaeological samples (JASRI/Spring-8) TERADA, Yasuko (11:30~11:55)  
**4S9-08 Special Program Lecture** Development of a Portable Detector System based on Ion Mobility Spectrometry for Monitoring Microbial Volatile Organic Compounds (MVOCs) from Mycology in Cultural Properties (Nara Women's Univ.) TAKEUCHI, Takae (11:55~12:20)  
**4S9-09** (12:20~12:30)

## Room SA

Bldg.B 201

### Chemistry, Chemical Technology and Education for Sustainable Society

Monday, March 29, AM

Chair: OKUDA, Jun (9:30~10:55)

- 4SA-01** Opening Remarks (AIST) SHIMADA, Hiromichi (09:30~09:40)  
**4SA-02 Special Program Lecture** Studies on Solid Heteropolyacid Catalysts for Developing Green Chemical Processes (Showa Denko K.K.) TSUJI, Katsuyuki (09:40~10:05)  
**4SA-03 Special Program Lecture** Development of plastic dye-sensitized solar cells towards the low-carbon society (Toin Univ. of Yokohama) MIYASAKA, Tsutomu (10:05~10:30)  
**4SA-04 Special Program Lecture** Development and Spread of Energy Saving Technology by Using Drag-reducing Additives (Grad. Sch. Sci. Eng., Yamaguchi Univ.) SAEKI, Takashi (10:30~10:55)

Chair: SATO, Kazuhiko (11:00~12:15)

- 4SA-05 Special Program Lecture** Development of Environmental Benign Organic Synthesis Based on Advanced Biocatalysis Processes Regulated by a Chemical Method (Grad. Sch. Eng., Tottori Univ.) ITOH, Toshiyuki (11:00~11:25)  
**4SA-06 Special Program Lecture** Education and Dissemination of Green & Sustainable Chemistry through Various Activities (Tohoku Univ.) OGINO, Kazuko (11:25~11:50)  
**4SA-07 Special Program Lecture** Development of New Watch Lubricant for Decrease of Burdens on the Environment (CITIZEN electronics Co., Ltd.; CITIZEN watch Co., Ltd.) AKAO, Yuji (11:50~12:15)

**Room A1**

Bldg.21 203

**Bio-chemicals for our future industry**

Friday, March 26, PM

Chair: ISOBE, Naohiko (14 : 30~15 : 10)

- 1A1-34 ATP Invited Lecture** Bisulfite-free analysis of methylated DNA (RIKEN Advanced Science Institute; JST-PRESTO) OKAMOTO, Akimitsu (14:30~15:00)  
**1A1-37** Incubation Time (15:00~15:10)

Chair: KONOIKE, Toshiro (15 : 10~15 : 50)

- 1A1-38 ATP Invited Lecture** Research strategy and discovery of novel anti-gout and hyperuricemia drug (Teijin Ltd.) KONDO, Shiro (15:10~15:40)  
**1A1-41** Incubation Time (15:40~15:50)

Chair: WADA, Takehiko (15 : 50~16 : 50)

- 1A1-42 ATP Keynote Lecture** Development of New Functional Materials based on Thermodynamic Databank of Nucleic Acid Stability (FIRST, Konan Univ.; FIBER, Konan Univ.) SUGIMOTO, Naoki (15:50~16:40)  
**1A1-47** Incubation Time (16:40~16:50)

(16 : 50~17 : 50)

- 1A1-48 Panel Discussion** Utilization and Industrialization of Frontier Biochemical Technology (16:50~17:50)

**Saturday, March 27, AM**

Chair: KONOIKE, Toshiro (9 : 30 ~10 : 10)

- 2A1-04 ATP Invited Lecture** Biotechnologies for Drug Discovery (Shionogi Innovation Center for Drug Discovery, Shionogi & Co., Ltd.) TAKEMOTO, Hiroshi; TOGAME, Hiroko (09:30~10:00)  
**2A1-07** Incubation Time (10:00~10:10)

Chair: FUKASE, Koichi (10 : 10~11 : 10)

- 2A1-08 ATP Keynote Lecture** Chemical synthesis of glycoproteins having human complex type oligosaccharides (Grad. Sch. Sci., Osaka Univ.) KAJIHARA, Yasuhiro (10:10~11:00)  
**2A1-13** Incubation Time (11:00~11:10)

Chair: ATOMI, Haruyuki (11 : 10~12 : 00)

- 2A1-14 ATP Special Invited Lecture** Ribosomal synthesis of natural product-like peptides and potentials for their drug development (RCAST, The Univ. of Tokyo) SUGA, Hiroaki (11:10~11:50)  
**2A1-18** Incubation Time (11:50~12:00)

**Saturday, March 27, PM**

Chair: AKIYOSHI, Kazunari (13 : 00~13 : 50)

- 2A1-25 ATP Special Invited Lecture** From biomedical engineering to regenerative medicine (Institute for Frontier Medical Sciences, Kyoto Univ.) IWATA, Hiroo (13:00~13:40)  
**2A1-29** Incubation Time (13:40~13:50)

Chair: WATANABE, Eiichi (13 : 50~14 : 40)

- 2A1-30 ATP Special Invited Lecture** Selective Labeling and Imaging of Endogenous Proteins in Test Tube and in Cells (Grad. Sch. Eng., Kyoto Univ.; CREST, JST) HAMACHI, Itaru (13:50~14:30)  
**2A1-34** Incubation Time (14:30~14:40)

Chair: OOHASHI, Takehisa (14 : 40~15 : 40)

- 2A1-35 ATP Keynote Lecture** Elucidation and application of some plant functions (Suntory Institute for Bioorganic Research) KUSUMOTO, Shoichi (14:40~15:30)  
**2A1-40** Incubation Time (15:30~15:40)

Chair: SUGAI, Takeshi (15 : 40~16 : 30)

- 2A1-41 ATP Special Invited Lecture** Industry-university collaborated business that will result in profit through better glycosylation than green chemistry - A challenge of okayama university of science - (Fac. Sci., Okayama Univ. of Sci.) HAMADA, Hiroki (15:40~16:20)  
**2A1-45** Incubation Time (16:20~16:30)

Chair: KONOIKE, Toshiro (16 : 30~17 : 10)

- 2A1-46 ATP Invited Lecture** Industrial application of hydrolases and their future improvement (Amano Enzyme Inc. Gifu R&D center) HIROSE, Yoshihiko (16:30~17:00)  
**2A1-49** Incubation Time (17:00~17:10)

**Room A3**

Bldg.21 312

**Materials for Chemical Conversion and Energy Transformation**

Friday, March 26, AM

**Biocatalyst**

(9 : 30 ~9 : 40)

- 1A3-04** Opening Remarks (Nagoya Institute of Technology) MASUDA, Hideki (09:30~09:40)

Chair: MASUDA, Hideki (9 : 40 ~10 : 30)

- 1A3-05 ATP Keynote Lecture** Energy Conversion Systems using living microorganism: Microbial fuel cell and microbial solar cell (Sch. of Eng. The Univ. of Tokyo) HASHIMOTO, Kazuhito (09:40~10:30)

Chair: SAKURAI, Takeshi (10 : 30~11 : 40)

- 1A3-10 ATP Invited Lecture** X-ray Crystal Structure of Dissimilatory Sulfite Reductase (Grad. Sch. Life Sci., Univ. of Hyogo) SHOMURA, Yasuhito; HIGUCHI, Yoshiki (10:30~11:00)

- 1A3-13 ATP Special Invited Lecture** Bioelectrocatalysis and Biological Fuel Cells (Grad. Sch. Agri., Kyoto Univ.) KANO, Kenji (11:00~11:40)

**Friday, March 26, PM**

Chair: FUNAHASHI, Yasuhiro (13 : 50~15 : 40)

- 1A3-30 ATP Special Invited Lecture** Bioelectronics in Sony; R&D of Bio battery (Sony Corp.) TOKITA, Yuichi (13:50~14:30)

- 1A3-34 ATP Invited Lecture** Alteration and Creation of Catalytic Activities of Multicopper Oxidases by Mutation (Grad. Sch. Nat. Sci. and Tech., Kanazawa Univ.) SAKURAI, Takeshi; KATAOKA, Kunishige (14:30~15:00)

- 1A3-37 ATP Special Invited Lecture** Catalytic Mechanism of Nitrile Hydratase, an Industrial Biocatalyst for Acrylamide Production (Grad. Sch. Eng., Tokyo Univ. of Agri. and Technol.) ODAKA, Masafumi; HASHIMOTO, Koichi; YAMANAKA, Yasuaki; OHTAKI, Akashi; NOGUCHI, Keiichi; YOYODA, Masafumi (15:00~15:40)

Chair: ODAKA, Masafumi (15 : 40~17 : 20)

- 1A3-41 ATP Invited Lecture** Enzyme immobilization and microreactors (Grad. Sch. Sci., Eng., Kagoshima Univ.) ARIMA, Kazunari (15:40~16:10)

- 1A3-44 ATP Invited Lecture** Rational Evolution of Enzymes and Improvement of Enzymatic Function (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) EMA, Tadashi (16:10~16:40)

- 1A3-47 ATP Special Invited Lecture** Preparation of Hemoproteins with High Enzymatic Activity Superior to Native Enzyme (Grad. Sch. Eng., Osaka Univ.) HAYASHI, Takashi (16:40~17:20)

**Saturday, March 27, AM****Nanoparticle Technology**

(9 : 20 ~9 : 30)

- 2A3-03** Opening Remarks (Nagoya Institute of Technology) MASUDA, Hideki (09:20~09:30)

Chair: MASUDA, Hideki (9 : 30 ~10 : 20)

- 2A3-04 ATP Keynote Lecture** Technologies of Nanoparticles: Applications to Information Technologies and Catalysts (Tokyo Univ. of Sci., Yamaguchi) TOSHIMA, Naoki (09:30~10:20)

Chair: YAMADA, Mami (10 : 30~12 : 00)

- 2A3-10 ATP Invited Lecture** Synthesis and functionalization of Nanoparticles by Solution Plasma (EcoTopia Sci. Inst., Nagoya Univ.) SAITO, Nagahiro (10:30~11:00)

- 2A3-13 ATP Special Invited Lecture** Development of Nanoparticulate Oxynitrides as Photocatalysts for Efficient Water Splitting (Sch. of Eng. The Univ. of Tokyo) DOMEN, Kazunari (11:00~11:40)

- 2A3-17 Oral C** Palladium Nanoparticles Captured in Microporous Polymers: A Tailor-Made Catalyst for Heterogeneous Carbon Cross-Coupling Reactions (Kawamura Institute of Chemical Research) KATO, Shinji; OGASAWARA, Shin (11:40~12:00)

Saturday, March 27, PM

Chair: INOMATA, Tomohiko (14:30~15:40)

**2A3-34 ATP Special Invited Lecture** Polymeric Nanoparticle-based Vaccine: Development of Novel Adjuvant (Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Med. Dent. Sci., Kagoshima Univ.; Grad. Sch. Med., Osaka Univ.; JST-CREST) AKASHI, Mitsuru; AKAGI Takami; BABA, Masanori; TATSUMI, Tomohide (14:30~15:10)

**2A3-38 ATP Invited Lecture** Fabrication of nanostructures by genetically modified proteins : Advocation of Wet-nanotechnology (Nara Inst. of Sci. and Technol.) YAMASHITA, Ichiro (15:10~15:40)

Chair: KONISHI, Katsuaki (15:40~16:50)

**2A3-41 ATP Special Invited Lecture** Syntesis of Novel Clusters based on Fine-controlled Metal Assembly (Tokyo Tech) YAMAMOTO, Kimihisa (15:40~16:20)

**2A3-45 ATP Invited Lecture** Synthesis and Functions of Nanometric Metal Coordination Polymers.Application as a Precursor for Alloy/Mixed Metal Oxide Nanomaterials (Tokyo Univ. of Agriculture and Technology; JST-PRESTO) YAMADA, Mami (16:20~16:50)

Chair: YAMAMOTO, Kimihisa (16:50~18:00)

**2A3-48 ATP Invited Lecture** Exploration of molecular events on the Inorganic Surface of metal cluster compounds (Grad. Sch. of Environmental Sci., Hokkaido Univ.) KONISHI, Katsuaki (16:50~17:20)

**2A3-51 ATP Special Invited Lecture** Challenge to Difficult Reactions by Gold Cluster Catalysts (Tokyo Metropolitan Univ.; JST-CREST) HARUTA, Masatake (17:20~18:00)

**Room A4**

Bldg.21 313

The Latest Development of Display Materials

Friday, March 26, AM

(9:20~9:30)

**1A4-03** Opening Remarks (PRI, Aist) KAMATA, Toshihide (09:20~09:30)

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Chair: KAMATA, Toshihide (9:30~11:20)

**1A4-04 ATP Keynote Lecture** (Fac. Eng., Yamagata Univ.) KIDO, Junji (09:30~10:20)

**1A4-09** Incubation Time (10:20~10:30)

**1A4-10 ATP Special Invited Lecture** Organic Light Emitting Devices fabricated by Printing Technologies (Grad. Sch. Sci. Eng., Univ. of Toyama) OKADA, Hiroyuki; NAKA, Shigeki (10:30~11:10)

**1A4-14** Incubation Time (11:10~11:20)

Chair: KAJII, Hirotaka (11:20~12:30)

**1A4-15 ATP Invited Lecture** Recent progress on polymer OLED materials (Tsukuba Res. Lab., Sumitomo Chemical Co.,Ltd.) YAMADA, Takeshi (11:20~11:50)

**1A4-18** Incubation Time (11:50~12:00)

**1A4-19 ATP Invited Lecture** Charge transport in phosphorescent polymers and its application to OLED devices (NHK Scienceand Technology Research Laboratories) MOTOMURA, Genichi; Tokito, Shizuo (12:00~12:30)

Friday, March 26, PM

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Chair: OKADA, Hiroyuki (13:30~15:40)

**1A4-28 ATP Special Invited Lecture** Fabrication of OLEDs by Evaporative Spray Deposition using Ultra-dilute Solution (IMCE, Kyushu Univ.) FUJITA, Katsuhiko (13:30~14:10)

**1A4-32** Incubation Time (14:10~14:20)

**1A4-33 ATP Invited Lecture** Organic Light-Emitting Diodes and Photodetectors Based on Conjugated Polymers Fabricated By Solution Process (CASI, Osaka Univ.) KAJII, Hirotaka; OHMORI, Yutaka (14:20~14:50)

**1A4-36** Incubation Time (14:50~15:00)

**1A4-37 ATP Invited Lecture** Nozzle Printing Technology for OEL Device Manufacture (DAINIPPON SCREEN MFG. CO., LTD.) SHIOTA, Akihito (15:00~15:30)

**1A4-40** Incubation Time (15:30~15:40)

Chair: FUJITA, Katsuhiko (15:40~16:50)

**1A4-41 ATP Invited Lecture** Slit coating technology for fabricating organic electroluminescence element (TAZMO Co.,Ltd.) YAMAMOTO, Minoru (15:40~16:10)

**1A4-44** Incubation Time (16:10~16:20)

**1A4-45 ATP Invited Lecture** Inkjet printing technology and its applications for printable electronics (Brother Industries, Ltd.) INOUE, Toyokazu (16:20~16:50)

Saturday, March 27, AM

OLEDlighting

Chair: OKADA, Hisashi (9:30~11:00)

**2A4-04 ATP Special Invited Lecture** The role of new reactions and new molecules in the organic electronics research (Grad. Sch. Sci., The Univ. of Tokyo; ERATO JST) NAKAMURA, Eiichi (09:30~10:10)

**2A4-08** Incubation Time (10:10~10:20)

**2A4-09 ATP Invited Lecture** Current status and future trend of OLED lighting (Panasonic Electric Works Co.,Ltd. Advanced Technologies Development Laboratory) KOMODA, Takuya (10:20~10:50)

**2A4-12** Incubation Time (10:50~11:00)

Chair: YOSHIDA, Manabu (11:00~12:10)

**2A4-13 ATP Invited Lecture** Fundamental Technology of Organic Light-Emitting Diode for Lighting (Grad. Sch. Eng., Nagoya Univ.) MORI, Tatsuo (11:00~11:30)

**2A4-16** Incubation Time (11:30~11:40)

**2A4-17 ATP Invited Lecture** White Organic Light-Emitting Diode Panel Technology and Its Commercialization (Tohoku device Co.Ltd.) AKABOSHI, Osamu (11:40~12:10)

Saturday, March 27, PM

printable electronics

Chair: MORI, Tatsuo (13:10~15:20)

**2A4-26 ATP Special Invited Lecture** Synthesis and Characterization of Solution Processable Organic Semiconductors for OTFT Applications (Grad. Sch. Eng., Hiroshima Univ.) TAKIMIYA, Kazuo (13:10~13:50)

**2A4-30** Incubation Time (13:50~14:00)

**2A4-31 ATP Invited Lecture** Development of Organic Semiconductor and Dielectric Formulations for Industry-Compatible Manufacturing Processes (Merck Chemicals Ltd.; Merck Ltd., Japan) KAWAMATA, Koya; G. Lloyd; M.Carrasco-Orozco; C. Leonhard; T. Cull; D. Mueller; P. Brookes; P. Miskiewicz; F. Meyer (14:00~14:30)

**2A4-34** Incubation Time (14:30~14:40)

**2A4-35 ATP Invited Lecture** Low temperature process for fabricating printed device (PRI, Aist) YOSHIDA, Manabu; KAMATA Toshi (14:40~15:10)

**2A4-38** Incubation Time (15:10~15:20)

Chair: TAKIMIYA, Kazuo (15:20~16:30)

**2A4-39 ATP Invited Lecture** OLED Panel Driven by All-Wet-Process Organic TFT Array (Pioneer Corp.) CHUMAN, Takashi; OHTA, Satoru; HATA, Takuya; HARADA, Chihiro; ISHIZUKA, Shinichi; SATOH, Hideo; OCHI, Hideo; ARAI, Kazuaki; YOSHIZAWA, Atsushi (15:20~15:50)

**2A4-42** Incubation Time (15:50~16:00)

**2A4-43 ATP Invited Lecture** High-resolution printing technology for organic thin film transistors (RICOH Co.,Ltd.) TANO, Takanori (16:00~16:30)

**Room A5**

Bldg.21 314

The Latest Development of Display Materials

Friday, March 26, AM

Electronic Paper

(9:00~9:10)

**1A5-01** Opening Remarks (Grad. Sch. Adv. Integration Sci., Chiba Univ.) KOBAYASHI, Norihisa (09:00~09:10)

Chair: KOBAYASHI, Norihisa (9:10~11:10)

**1A5-02 ATP Special Invited Lecture** Trend of Reseach and Deveropment on Electronic Paper (Sch. Eng., Tokai Univ.) OMODANI, Makoto (09:10~09:50)

**1A5-06** Incubation Time (09:50~10:00)

**1A5-07 ATP Invited Lecture** Improvement of Device Performances

Using Siloxane-based Polymers (Grad. Sch. Eng., Hiroshima Univ.) IMAE, Ichiro (10:00~10:30)

**1A5-10** Incubation Time (10:30~10:40)

**1A5-11# Oral C** Preparation of Organic-Metallic Hybrid Polymer and Application on Smart Window (NIMS) ZHANG, Jian; AKASAKA, Yumeno; HIGUCHI, Masayoshi (10:40~11:00)

**1A5-13** Incubation Time (11:00~11:10)

Chair: OMODANI, Makoto (11:10~12:30)

**1A5-14 ATP Invited Lecture** Visual Characteristics and Appearance of Electronic Paper (Graduate School of Advanced Integration Science, Chiba Univ.) MIZOKAMI, Yoko (11:10~11:40)

**1A5-17** Incubation Time (11:40~11:50)

**1A5-18 ATP Invited Lecture** Driving and backplane technologies for E-paper (KASTEC, Kyushu Univ.) HATTORI, Reiji (11:50~12:20)

**1A5-21** Incubation Time (12:20~12:30)

### Friday, March 26, PM

Chair: OZAWA, Shinji (13:30~15:00)

**1A5-28 ATP Special Invited Lecture** Latest Trend for E-paper and Rewritable Marking (Ricoh Co., Ltd.) HOTTA, Yoshihiko (13:30~14:10)

**1A5-32** Incubation Time (14:10~14:20)

**1A5-33 ATP Invited Lecture** (TAKEO Co.,Ltd.) KURIHARA, Koji (14:20~14:50)

**1A5-36** Incubation Time (14:50~15:00)

Chair: IMAE, Ichiro (15:00~16:00)

**1A5-37 Oral C** New Electrochromic Polymer for Electronic Paper (Polymer Materials Research Laboratory Tsukuba Research Center, Kuraray Co. Ltd.) KONDO, Yoshiro; TANABE, Hirofumi; OOTAKE, Tomiaki (15:00~15:20)

**1A5-39** Incubation Time (15:20~15:30)

**1A5-40<sup>†</sup> Oral C** Development of Electrochromic(EC) display based on EC polymer containing viologen unit (Kyushu Univ.) KIM, Sun Nam; SAKANO, Takeshi; ITO, Fuyuki; NAGAMURA, Toshihiko; TANAKA, Akihiro; OZAWA, Masaaki (15:30~15:50)

**1A5-42** Incubation Time (15:50~16:00)

Chair: HOTTA, Yoshihiko (16:00~18:00)

**1A5-43 ATP Invited Lecture** Research and Development on Flexible Liquid Crystal Displays (NHK Sci. & Tech. Research Labs.) FUJIKAKE, Hideo (16:00~16:30)

**1A5-46** Incubation Time (16:30~16:40)

**1A5-47 ATP Invited Lecture** Electronic Paper QR-LPD (Bridgestone Corp.) MASUDA, Yoshitomo (16:40~17:10)

**1A5-50** Incubation Time (17:10~17:20)

**1A5-51 ATP Invited Lecture** A Business Application of Electronic Paper Display (Brother Industries, Ltd. NID R&D) FUJII, Norihisa (17:20~17:50)

**1A5-54** Incubation Time (17:50~18:00)

## Room A6

Bldg.21 318

### Forefront of Digital Fabrication

#### Friday, March 26, AM

Chair: MATSUMOTO, Kazumasa (10:30~12:00)

**1A6-10 ATP Keynote Lecture** Digital Biofabrication : the technology for the age of post-iPS cell (Grad. Sch. Sci. Eng., Univ. of Toyama) NAKAMURA, Makoto; IWANAGA, Shintaroh; ARAI, Kenichi (10:30~11:20)

**1A6-15 ATP Special Invited Lecture** Application of Digital Fabrication to Medicine (Grad. Sch. Dentistry, Osaka Univ.) SOHMURA, Taiji (11:20~12:00)

#### Friday, March 26, PM

Chair: NISHI, Shinichi (13:00~14:30)

**1A6-25 ATP Keynote Lecture** Road to Printed Electronics and Materials Technology (ISIR, Osaka Univ.) SUGANUMA, Katsuaki (13:00~13:50)

**1A6-30 ATP Special Invited Lecture** Patterned Metal Film Formations by Inkjet using Nanometal Ink (Chiba Institute for Super Materials, ULVAC, Inc.) ODA, Masaaki; SAKIO, Susumu; HAYASHI, Shigeo; OOSAWA, Masato; HAYASHI, Yoshiaki; TEI, Kyukou; FUJIMARU, Atsushi; TADA, Hikotaka; HASHIMOTO, Natsuki (13:50~14:30)

Chair: FUJII, Masahiko (14:40~16:00)

**1A6-35 ATP Special Invited Lecture** Material technology for inkjet production printing system (FUJIFILM Corp.) ODA, Akio (14:40~15:20)

**1A6-39 ATP Special Invited Lecture** Evolving Inkjet technologies for industrial applications (Dainippon Screen MFG Co.Ltd.) TSURUYA, Yoshinori (15:20~16:00)

## Room A7

Bldg.21 319

### Future Vision Created with Fine Patterning Technologies and Materials

#### Friday, March 26, AM

#### The Next Generation Lithography

(9:50~10:00)

**1A7-06** Opening Remarks (ISIR, Osaka Univ.) KOZAWA, Takahiro (09:50~10:00)

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

**1A7-07 ATP Keynote Lecture** Future Challenges of Lithography Technology in Semiconductor Process (TOSHIBA Co.Ltd. Research and Development Center, Device Process Development Center, Advanced Lithography Process Dept.) HIGASHIKI, Tatsuhiko (10:00~10:50)

**1A7-12 ATP Special Invited Lecture** EUV Negative Resist Using Stepwise Radical Reaction (Grad. Sch. Eng., Osaka Pref. Univ.) SHIRAI, Masamitsu (10:50~11:30)

**1A7-16 ATP Invited Lecture** EUV lithography material Development in JSR (Fine Electronic Materials Research Laboratories, JSR Corp.) KIMURA, Toru; MARUYAMA, Ken; SHIMIZU, Makoto; KAI, Toshiyuki; YAMAGUCHI, Yoshikazu (11:30~12:00)

#### Friday, March 26, PM

Chair: SHIRAI, Masamitsu (13:00~15:30)

**1A7-25 ATP Special Invited Lecture** Current Status of EUV Resist Processing (Selete) ITANI, Toshiro (13:00~13:40)

**1A7-29 ATP Special Invited Lecture** EUV Interference Lithography (Univ. of Hyogo) WATANABE, Takeo (13:40~14:20)

**1A7-33 ATP Invited Lecture** Resist Material Design for Next Generation Lithography (ISIR, Osaka Univ.; JST-CREST) KOZAWA, Takahiro; TAGAWA, Seiichi (14:20~14:50)

**1A7-36 ATP Invited Lecture** Development status of next generation lithography materials (Tokyo Ohka Kogyo Co., Ltd) SATO, Kazufumi (14:50~15:20)

**1A7-39** Incubation Time (15:20~15:30)

Chair: OHTA, Masaru (15:30~17:10)

**1A7-40 ATP Invited Lecture** Development of ArF immersion resist materials for negative tone development (FUJIFILM Corp.) TARUTANI, Shinji (15:30~16:00)

**1A7-43 ATP Special Invited Lecture** Development of EB and EUV molecular resist materials based on noria (Fac. Eng., Kanagawa Univ.) KUDO, Hiroto; NISHIKUBO, Tadatomi (16:00~16:40)

**1A7-47 Oral D** Development of Positive Type Molecular Resists based on Fullerene Derivatives for EUV Lithography (Mitsubishi Chemical Group Science And Technology Research Center, Inc.; Mitsubishi Chemical Corporation; Semiconductor Leading Edge Technologies, Inc.) KAWAKAMI, Kiminori; TANAKA, Katsutomo; OIZUMI, Hiroaki; ITANI, Toshiro (16:40~17:10)

#### Saturday, March 27, AM

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

(9:20~9:30)

**2A7-03** Opening Remarks (Grad. Sch. Eng., Nagoya Univ.) SEKI, Takahiro (09:20~09:30)

Chair: SEKI, Takahiro (9:30~12:00)

**2A7-04 ATP Keynote Lecture** Ordered Nanostructure Control and Templating Materials Engineering based on Macromolecular Microphase Separation (Chem. Res. Lab., Tokyo Tech) IYODA, Tomokazu (09:30~10:20)

**2A7-09 ATP Special Invited Lecture** Block Copolymer Lithography toward 16-nm-technology nodes (NTT Basic Research Labs.) YAMAGUCHI, Toru; YAMAGUCHI, Hiroshi (10:20~11:00)

**2A7-13 ATP Invited Lecture** Shape-Tunable Microwrinkles (NRI,

AIST) OHZONO, Takuya; MONOBE, Hirosato; SHIMIZU, Yo (11:00~11:30)

**2A7-16 ATP Invited Lecture** Production of a nano-patterned surface by anano-imprinting of core-shell particles (Fac. Sci. and Technol., Keio Univ.) FUJIMOTO, Keiji; WATANABE, Hideaki (11:30~12:00)

### Saturday, March 27, PM

Chair: IYODA, Tomokazu (13:00~15:40)

**2A7-25 ATP Special Invited Lecture** High-density pattern formation by chemically directed self-assembly of block copolymer (Materials Research Lab., Hitachi Ltd.; Department of Polymer Chemistry, Kyoto Univ.) YOSHIDA, Hiroshi; TADA, Yasuhiko; AKASAKA, Satoshi; TAKENAKA, Mikihito; HASEGAWA, Hirokazu (13:00~13:40)

**2A7-29 ATP Invited Lecture** Formation of Highly ordered surface micelle films for block copolymer and Application (Grad. Sch. Eng., Nagoya Univ.; PREST/JST) NAGANO, Shusaku (13:40~14:10)

**2A7-32 ATP Special Invited Lecture** Fabrication of bit patterned media using diblock copolymer template (Storage Materials and Devices Lab., R&D Center, Toshiba Corp.) KIHARA, Naoko (14:10~14:50)

**2A7-36 ATP Special Invited Lecture** Structure Control by Guided Self-Assembly of Triblock Terpolymers (Grad. Sch. Eng., Kyoto Univ.; Univ. of Athens) HASEGAWA, Hirokazu; AKASAKA, Satoshi; MITANI, Akiko; SAKAGUCHI, Go; OSAKA, Taketsugu; HADJICHRISTIDIS, N.; IATROU, H. (14:50~15:30)

**2A7-40** Incubation Time (15:30~15:40)

Chair: HASEGAWA, Hirokazu (15:40~17:40)

**2A7-41 ATP Invited Lecture** Nano Dot Array (Oji Paper Co., Ltd.) SHINOTSUKA, Kei (15:40~16:10)

**2A7-44 Oral C** Microphase-separated Radical/Ionic Domains for Organic Memory Application (Dept. Appl. Chem., Waseda Univ.) SUGA, Takeo; TAKEUCHI, Shunya; SAKATA, Miki; NISHIDE, Hiroyuki (16:10~16:30)

**2A7-46 Oral D** Site-selective Formation of Synthetic Metal-based Nanocrystals and Device Fabrication using Nanoscale-electrocrystallization (NICT-KARC, JST-PRESTO) HASEGAWA, Hiroyuki (16:30~17:00)

**2A7-49 ATP Special Invited Lecture** Fabrication Ordered Nanostructures based on Alumina Nanohole Arrays and Their Functional Applications (Tokyo Metropolitan Univ.; KAST) MASUDA, Hideki; NISHIO, Kazuyuki (17:00~17:40)

## Room A8

Bldg.21 320

### Future Vision Created with Fine Patterning Technologies and Materials

Saturday, March 27, AM

#### Nanoimprint

Chair: HIRAI, Yoshihiko (9:30~12:00)

**2A8-04** Opening Remarks (LASTI, Univ. of Hyogo) MATSUI, Shinji (09:30~09:40)

**2A8-05 ATP Keynote Lecture** Vision of the Future in Nanoimprint Technology (Univ. of HYOGO) MATSUI, Shinji (09:40~10:30)

**2A8-10 ATP Special Invited Lecture** Ultra-violet nanoimprint process used for fabrication of diffraction gratings in laser diodes for optical communication (Sumitomo Elec. Ind. Ltd.; Tokyo Univ. of Sci.) YANAGISAWA, Masaki; TSUJI, Yukihiko; YOSHINAGA, Hiroyuki; KOUNO, Naoya; HIRATSUKA, Kenji; TANIGUCHI, Jun (10:30~11:10)

**2A8-14 ATP Invited Lecture** Nanoimprint process that uses resin mold for High Britness LED (TOSHIBA MACHINE CO., LTD) NISHIHARA, Hiromi (11:10~11:40)

**2A8-17** Incubation Time (11:40~12:00)

### Saturday, March 27, PM

Chair: NAKAGAWA, Masaru (13:00~14:50)

**2A8-25 ATP Special Invited Lecture** UV-Nanoimprint lithography (AIST; JST-CREST) HIROSHIMA, Hiroshi (13:00~13:40)

**2A8-29 ATP Special Invited Lecture** Process Simulation in UV Nanoimprint lithography (Grad. Sch. Eng., Osaka Pref. Univ.; JST-CREST) HIRAI, Yoshihiko (13:40~14:20)

**2A8-33 ATP Invited Lecture** Resin Mold for UV Nanoimprinting (Soken Chemical & Engineering Co.,Ltd.) MIZAWA, Takahide; YAMADA, Hiroko; UEHARA, Satoshi (14:20~14:50)

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

**2A8-37 ATP Special Invited Lecture** Material Chemistry of Sticking

and Antisticking Layers for Nanoimprint (IMRAM, Tohoku Univ.) NAKAGAWA, Masaru (15:00~15:40)

**2A8-41 ATP Invited Lecture** UV-curable resins for Nanoimprint and their properties (DAICEL CHEMICAL INDUSTRIES, LTD.) MIYAKE, Hiroto; YUKAWA, Takao; TAKAI, Hideyuki; IYOSHI, Shuso (15:40~16:10)

**2A8-44** Incubation Time (16:10~16:30)

## Room H2

Bldg.B 201

### New energy technologies towards the realization of a low-carbon society

Friday, March 26, AM

#### Next generation photovoltaic technologies

(9:00~9:10)

**1H2-01** Opening Remarks (RCAST, The Univ. of Tokyo) SEGAWA, Hiroshi (09:00~09:10)

Chair: HARA, Kohjiro (9:10~10:40)

**1H2-02 Oral C** Development of Near-IR dyes for bottom layer of tandem/hybrid dye-sensitized solar cells (Kyushu Inst. Tech.; Nippon Steel Chemical Co.,Ltd.) PANDY, Shyam S; OGOMI, Yuhei; PARK, Byung wook; INOUE, Takafumi; FUJIKAWA, Naotaka; KOHNO, Mitsuru; YAMAGUCHI, Yoshihiro; HAYASE, Shuzi (09:10~09:30)

**1H2-04 Oral C** Tandem-dye sensitized solar cell consisting of glass mesh electrode (Kyushu Institute of Technology, Nippon Steel Chemical Co.,Ltd) UZAKI, Kenshiro; INOUE, Takahumi; KOUGE, Yohei; OGOMI, Yuhei; PANDEY, Shyam S.; KOHNO, Mitsuru; YAMAGUCHI, Yoshihiro; HAYASE, Shuzi (09:30~09:50)

**1H2-06 Oral C** Dye sensitized solar cells in the shape of cylinder with mesh electrode (Kyushu Inst. Tech.; Nippon Steel Chemical Co.,Ltd.) USAGAWA, Jun; PARK, Byung-wook; UZAKI, Kenshirou; KOGO, Takeshi; OGOMI, Yuhei; KOHNO, Mitsuru; YAMAGUCHI, Yoshihiro; HAYASE, Shuzi (09:50~10:10)

**1H2-08 ATP Invited Lecture** Effective sensitizers and new cell structures for dye sensitized solar cell (ETRI, AIST) SAYAMA, Kazuhiro (10:10~10:40)

Chair: KUBO, Takaya (10:40~12:10)

**1H2-11 ATP Invited Lecture** Toward development of organic/inorganic hybrid solar cells (Toin Univ. of Yokohama) MIYASAKA, Tsutomu; IKEGAMI, Masashi (10:40~11:10)

**1H2-14 Oral C** Photovoltaic Properties of Polysilane Thin Films (PRI, AIST) TACHIBANA, Hiroaki; SUGIYAMA, Yutaka; MIZUNO, Toya (11:10~11:30)

**1H2-16 ATP Special Invited Lecture** Current status of polycrystalline thin film solar cells and their future prospect (Department of Materials Chemistry, Ryukoku Univ.) WADA, Takahiro (11:30~12:10)

### Friday, March 26, PM

Chair: SAYAMA, Kazuhiro (13:10~14:50)

**1H2-26 ATP Invited Lecture** Tandem dye sensitized solar cells (Kyushu Institute of Tech.) Shyam S. Pandey; HAYASE, Shuzi (13:10~13:40)

**1H2-29 ATP Invited Lecture** Efficient Dye-Sensitized Solar Cells Based on Metal-Free Organic Dyes (The Research Center for Photovoltaics, AIST; Photonics Research Institute, AIST) HARA, Kohjiro; KOHMURA, Nagatoshi (13:40~14:10)

**1H2-32 ATP Special Invited Lecture** Technological Evolution of Organic Photovoltaics (RCAST, The Univ. of Tokyo) SEGAWA, Hiroshi (14:10~14:50)

Chair: TAJIMA, Keisuke (15:00~16:30)

**1H2-37 ATP Invited Lecture** Development of printable organic solar cell using conjugated polymer (Tsukuba Res. Lab., Sumitomo Chemical Co., Ltd.) MIYAKE, Kunihito (15:00~15:30)

**1H2-40 ATP Invited Lecture** Spectroscopic studies on near-infrared dye sensitized organic thinfilm solar cells (Dept. Polym. Chem., Grad. Sch. Eng., Kyoto Univ.) ITO, Shinzaburo; OHKITA, Hideo (15:30~16:00)

**1H2-43 ATP Invited Lecture** Control of Nanostructure of Organic Solar Cells (Research Center for Molecular-Scale Nanoscience, IMS) IKETAKI, Kai; KAJI, Toshihiko; HIRAMOTO, Masahiro (16:00~16:30)

Chair: ITO, Shinzaburo (16:40~18:00)

**1H2-47 ATP Invited Lecture** Research and development of novel electron donors for organic thin film solar cells (Electronic & Imaging Materials



Research Laboratories, Toray Industries, Inc.) KITAZAWA, Daisuke; WATANABE, Nobuhiro; YAMAMOTO, Shuhei; TSUKAMOTO, Jun (16:40~17:10)

**1H2-50 ATP Invited Lecture** Studies of the Degradation Mechanism in Organic Thin-Film Solar Cells (RCPV, AIST) YAMANARI, Toshihiro; YOSHIDA, Yuji (17:10~17:40)

**1H2-53 Oral C** Design and Photovoltaic Properties of Bulk Heterojunction Polymer Solar Cells (Inst. Adv. Energy, Kyoto Univ.) SAGAWA, Takashi; YOSHIKAWA, Susumu (17:40~18:00)

### Saturday, March 27, AM

Chair: MIYASAKA, Tsutomu (9:00~10:30)

**2H2-01 ATP Invited Lecture** Nanostructure Control in Polymer Solar Cells (Sch. of Eng. The Univ. of Tokyo; ERATO, JST) TAJIMA, Keisuke; HASHIMOTO, Kazuhito (09:00~09:30)

**2H2-04 ATP Invited Lecture** Charge-Transporting in Radical Polymers and its Application to Dye-Sensitized Solar Cells (Waseda Univ.) NISHIDE, Hiroyuki (09:30~10:00)

**2H2-07 ATP Invited Lecture** Toward Industrialization of Dye-Sensitized Solar Cells as Outdoor PV Modules (Tokyo Univ. of Sci.) ARAKAWA, Hironori (10:00~10:30)

Chair: SEGAWA, Hiroshi (10:30~11:20)

**2H2-10 ATP Keynote Lecture** Present Status and Future Prospects of Photovoltaics - Challenges toward 2030 and 2050 (Grad. Sch. Sci., Eng., Tokyo Tech) KONAGAI, Makoto (10:30~11:20)

(11:30~13:00)

**2H2-16 Panel Discussion** (11:30~13:00)

## Room H3 Bldg.B 203

### New energy technologies towards the realization of a low-carbon society

Friday, March 26, AM

#### Fuel Cells Hydrogen Energy Technology

(9:40~9:50)

**1H3-05** Opening Remarks (Fac. Sci. Eng., Doshisha Univ.) INABA, Minoru (09:40~09:50)

Chair: INABA, Minoru (9:50~10:50)

**1H3-06 ATP Keynote Lecture** (Fuel Cell Nanomaterials Center, Univ. of Yamanashi) WATANABE, Masahiro (09:50~10:40)

**1H3-11** Incubation Time (10:40~10:50)

Chair: KUROMATSU, Hidekazu (10:50~11:50)

**1H3-12 ATP Invited Lecture** Studies on Degradation Phenomena of Carbon Supported Platinum Electrocatalysts (UBIQEN, AIST) YASUDA, Kazuaki (10:50~11:20)

**1H3-15** Incubation Time (11:20~11:30)

**1H3-16 Oral C** Electrocatalytic oxidation of potential fuels by Rh porphyrins and its application to anode in a proton exchange membrane fuel cell (Research Institute for Ubiquitous Energy Devices, National Institute of Advanced Industrial Science and Technology (AIST)) YAMAZAKI, Shinichi; YAO, Masaru; SENOH, Hiroshi; FUJIWARA, Naoko; IOROI, Tsutomu; SIROMA, Zyun; YASUDA, Kazuaki (11:30~11:50)

Friday, March 26, PM

Chair: YASUDA, Kazuaki (12:50~14:20)

**1H3-24 ATP Invited Lecture** DEVELOPMENT OF HYDROCARBON ELECTROLYTE MEMBRANES FOR PEFC (KANEKA Corp.) KUROMATSU, Hidekazu (12:50~13:20)

**1H3-27** Incubation Time (13:20~13:30)

**1H3-28 ATP Special Invited Lecture** Current Situation of Research and Development of Fuel Cell for Automobile (Nissan Motor Co.,Ltd.) SHINOHARA, Kazuhiko (13:30~14:10)

**1H3-32** Incubation Time (14:10~14:20)

Chair: UCHIMOTO, Yoshiharu (14:20~15:50)

**1H3-33 ATP Invited Lecture** Current status of TOTO Residential SOFC System (TOTO Fuel Cell Business Development Div.) NAKANO, Kiyotaka (14:20~14:50)

**1H3-36** Incubation Time (14:50~15:00)

**1H3-37 ATP Special Invited Lecture** Development of Residential Fuel Cell Cogeneration System (OSAKA GAS CO., LTD.) INAKA,

Hideki (15:00~15:40)

**1H3-41** Incubation Time (15:40~15:50)

Chair: SHINOHARA, Kazuhiko (15:50~17:20)

**1H3-42 ATP Invited Lecture** Development of Electrocatalysts for Fuel Cells (Asahi Glass Co., Ltd.) YOSHITAKE, Masaru (15:50~16:20)

**1H3-45** Incubation Time (16:20~16:30)

**1H3-46 ATP Special Invited Lecture** ORR and Degradation Mechanism of Pt Catalysts Based on Model Electrode and in-situ XAFS (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) UCHIMOTO, Yoshiharu (16:30~17:10)

**1H3-50** Incubation Time (17:10~17:20)

Chair: YOSHITAKE, Masaru (17:20~18:00)

**1H3-51 Oral C** Electrochemical Catalytic Activity for Oxygen Reduction Reaction at Ultrathin Pt Layers (Ochanomizu Univ.) KONDO, Toshihiro; HAYASHI, Naoko; NOTSU, Hideo; YAGI, Ichizo (17:20~17:40)

**1H3-53 Oral C** Inhibition mechanism of Pt dissolving from MEA using Pt/polypyrrole composite as catalyst layer (Kobe Univ.) MIZUHATA, Minoru; MATSUMOTO, Katsumasa (17:40~18:00)

### Saturday, March 27, AM

Chair: TSUNOKAKE, Shigeru (10:00~11:00)

**2H3-07 ATP Keynote Lecture** Hydrogen Energy based on Fuel Cell Technologies: Current Status and Future Perspectives (International Research Center for Hydrogen Energy, Kyushu Univ.) SASAKI, Kazunari (10:00~10:50)

**2H3-12** Incubation Time (10:50~11:00)

Chair: SASAKI, Kazunari (11:00~12:00)

**2H3-13 ATP Invited Lecture** Development of hybrid tank system for hydrogen storage and investigation of hydrogen storage alloy (Japan Metals & Chemicals Co.,Ltd.) TSUNOKAKE, Shigeru (11:00~11:30)

**2H3-16** Incubation Time (11:30~11:40)

**2H3-17 Oral C** Development of Hydrogen Storage Materials for Hydrogen Society (Research and Development Division; Nippon Oil Corporation) MINODA, Ai; OSHIMA, Shinji; KOBORI, Yoshihiro; IKI, Hideshi (11:40~12:00)

### Saturday, March 27, PM

Chair: KURIYAMA, Nobuhiro (13:00~14:30)

**2H3-25 ATP Special Invited Lecture** Introduction of H<sub>2</sub> Energy Activities in Air Liquide Group (Japan Air Gases Co.) HIRASE, Ikuo (13:00~13:40)

**2H3-29** Incubation Time (13:40~13:50)

**2H3-30 ATP Invited Lecture** Development of Fuel Cell Specialty Vehicles and related products (KURIMOTO, Ltd. Technology Development Bureau) YAMAMURO, Shigeki (13:50~14:20)

**2H3-33** Incubation Time (14:20~14:30)

Chair: HIRASE, Ikuo (14:30~15:40)

**2H3-34 ATP Special Invited Lecture** Progress in Hydrogen Storage Material (Research Institute for Ubiquitous Energy Devices, AIST) KURIYAMA, Nobuhiro (14:30~15:10)

**2H3-38** Incubation Time (15:10~15:20)

**2H3-39 Oral C** A novel method of hydrogen gas generation by the decomposition of methane with microwave irradiation. (College of Engineering, Nihon Univ.) KAMIYA, Kazunori; HIRAYAMA, Kazuo; NAKAYAMA, Kazuo (15:20~15:40)

## Room H4 Bldg.B 204

### New energy technologies towards the realization of a low-carbon society

Friday, March 26, AM

#### Future Energy Storage Devices

Chair: ABE, Takeshi (10:00~12:00)

**1H4-07 ATP Keynote Lecture** Role and Issues of Rechargeable Batteries for Sustainable Society (Innovative Collaboration Center, Kyoto Univ.; NEDO) OGUMI, Zempachi (10:00~10:50)

**1H4-12 ATP Special Invited Lecture** High-Safety Rechargeable Battery SCiB for Vehicle Application (Toshiba Corp.) KOSUGI, Shinichiro (10:50~11:30)

**1H4-16 ATP Invited Lecture** Development and Reaction Mechanisms of Cathode Materials for Large-Scale Lithium Batteries (Grad. Sch. Eng., The

Univ. of Tokyo) YAMADA, Atsuo (11:30~12:00)

Friday, March 26, PM

Chair: OKADA, Shigeto (13:40~14:40)

**1H4-29 ATP Invited Lecture** Property of the electrolyte using fluorinated compounds (Daikin Industries, Ltd Chemical R&D center) KOH, Meiten; SAKATA, Hideo; NAKAZAWA, Hitomi; YAMAUCHI, Akiyoshi (13:40~14:10)

**1H4-32 ATP Invited Lecture** Development of Novel Ionic Liquids for Lithium Secondary Batteries (UBIQEN, AIST) MATSUMOTO, Hajime (14:10~14:40)

Chair: IMANISHI, Nobuyuki (14:40~15:40)

**1H4-35 Oral C Spectroscopic Analyses of Negative Electrode for High Power Lithium-Ion Batteries** (AIST) HORI, Hironobu; SHIKANO, Masahiro; KOIKE, Shinji; SAKAEBE, Hikari; SAITO, Yoshiyasu; TATSUMI, Kuniaki (14:40~15:00)

**1H4-37 Incubation Time** (15:00~15:10)

**1H4-38 ATP Invited Lecture** Cathode Active Materials for Sodium-Ion Battery (IMCE, Kyushu Univ.) OKADA, Shigeto (15:10~15:40)

Chair: MATSUMOTO, Hajime (15:40~16:40)

**1H4-41 ATP Invited Lecture** Rechargeable Mg Battery - The Possibility and Theoretical Problem (Grad. Sch. Sci. Eng., Yamaguchi Univ.; JST-CREST) YOSHIMOTO, Nobuko; MORITA, Masayuki (15:40~16:10)

**1H4-44 ATP Invited Lecture** Current status and issue of lithium-air secondary battery (Fac. Eng., Mie Univ.) IMANISHI, Nobuyuki (16:10~16:40)

Room H5

Bldg.B 301

Face-to-Face Communication Achieved by Photonics Materials and Devices

Friday, March 26, AM

(11:00~11:10)

**1H5-13 Introduction Talk** (Fac. Sci. and Technol., Keio Univ.) KOIME, Yasuhiro (11:00~11:10)

Chair: KOIKE, Yasuhiro (11:10~12:20)

**1H5-14 ATP Keynote Lecture** New Development of liquid crystal displays (Sch. Eng., Tohoku Univ.) UCHIDA, Tatsuo (11:10~12:00)

Friday, March 26, PM

Chair: YOKOYAMA, Shiyoshi (13:00~14:40)

**1H5-25 ATP Special Invited Lecture** Next Generation Display & Transmission Technology (Sony Corp.) TAKIDUKA, Hiroshi (13:00~13:40)

**1H5-29 ATP Special Invited Lecture** Photonics Polymers for High-Resolution Displays (Fac. Sci. and Technol., Keio Univ.; JST ERATO-SORST) TAGAYA, Akihiro (13:40~14:20)

**1H5-33 Oral C** Highly efficient long lived room temperature phosphorescence and incoherent light sensitive reversible saturable absorbing function by use of long lived excited triplet state. (Center for Future Chemistry, Kyushu Univ.) HIRATA, Shuzo; TOTANI, Kenro; ADACHI, Chihaya (14:20~14:40)

Chair: KOIKE, Yasuhiro (14:50~17:20)

**1H5-36 ATP Special Invited Lecture** Looking toward the high-speed optical networking in houses (New Business Promotion Project Urban Infrastructure & Environmental Product Company Sekisui Chemical Co., Ltd.) TANIGUCHI, Teruyuki (14:50~15:30)

**1H5-40 ATP Special Invited Lecture** Electro-optic polymers for ultra-fast optical modulation in telecommunications technology (IMCE, Kyushu Univ.) YOKOYAMA, Shiyoshi (15:30~16:10)

**1H5-45 Incubation Time** (16:20~17:20)

Saturday, March 27, PM

Chair: NISHII, Junji (13:00~14:20)

**2H5-25 ATP Special Invited Lecture** New waveguide materials for optical signal processing (Research Center for Advanced Photon Technology, Toyota Tech. Inst.) OHISHI, Yasutake (13:00~13:40)

**2H5-29 ATP Special Invited Lecture** Intra-board Chip-to-Chip Wavelength-Division-Multiplexing Optical Interconnects (AIST; Kyoto Inst. Tech.) KINTAKA, Kenji; URA, Shog (13:40~14:20)

Chair: KINTAKA, Kenji (14:20~15:00)

**2H5-33 ATP Special Invited Lecture** Application of Subwavelength Optical Elements to Information Appliances (RIES, Hokkaido Univ.) NISHII, Junji (14:20~15:00)

Chair: NISHII, Junji KOIKE, Yasuhiro (15:00~16:00)

**2H5-37 Incubation Time** (15:00~16:00)

Room H7

Bldg.B 402

Innovative Technologies for Environment and Natural Resources

Friday, March 26, AM

Strategy of Materials Developments under a Limitation of Mineral Resources (9:30~9:40)

**1H7-04 Opening Remarks** NAKAMURA, Takashi (09:30~09:40)

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

**1H7-05 ATP Keynote Lecture** Ubiquitous Element Strategy for Innovative Materials supporting Sustainable Society (Materials and Structures Laboratory, Tokyo Tech) HOSONO, Hideo (09:40~10:30)

Chair: TADA, Keishi (10:30~12:00)

**1H7-10 ATP Special Invited Lecture** Way towards Sustainable Resource Utilization (Innovative Materials Engineering Laboratory, NIMS Center for strategic natural resource) HALADA, Kohmei (10:30~11:10)

**1H7-14 Incubation Time** (11:10~11:20)

**1H7-15 ATP Special Invited Lecture** Lithium Resources and Related Industries (Kyushu Univ.; Mitsubishi Corp.) OTA, Tatsuo (11:20~12:00)

Friday, March 26, PM

(13:00~14:00)

**1H7-25 Panel Discussion** (13:00~14:00)

Chair: TADA, Keishi (14:00~14:30)

**1H7-31 ATP Invited Lecture** Development of Sputtering Technology for Reducing Indium Usage in ITO Films (IMRAM, Tohoku Univ.) OHTSUKA, Makoto (14:00~14:30)

Chair: SASAKI, Takao (14:30~17:20)

**1H7-34 ATP Special Invited Lecture** Recycling of Rare Metals (IIS, The Univ. of Tokyo) OKABE, Toru H. (14:30~15:10)

**1H7-38 ATP Invited Lecture** Metal Recycling from the Waste Electrical and Electronic Equipment (Grad. Sch. Environmental Studies, Tohoku Univ.) SHIRATORI, Toshikazu (15:10~15:40)

**1H7-41 Incubation Time** (15:40~15:50)

**1H7-42 ATP Special Invited Lecture** Collection technology of uranium resource from abundant seawater (Quantum beam Science directorate, JAEA) TAMADA, Masao (15:50~16:30)

**1H7-46 ATP Invited Lecture** Removal & Recycling of Phosphorus from Municipal Wastewater (Asahi Kasei Chemicals Corp.) SHIMIZU, Tadashi (16:30~17:00)

**1H7-49 Oral C** Arsenic Detoxification Mediated by Photo-driven Bio-inspired Catalysts Composed of Vitamin B12 and Application to Rare Metal Recycling (Nippon Sheet Glass Co.Ltd) NAKAMURA, Koichiro (17:00~17:20)

Saturday, March 27, AM

Innovative Processes for Energy and Resource Conservation (9:20~9:30)

**2H7-03 Opening Remarks** (KANEKA Corp.) INOUE, Kenji (09:20~09:30)

Chair: INOUE, Kenji (9:30~10:30)

**2H7-04 ATP Keynote Lecture** Catalytic Processes that Contribute to Saving of Energy and Resources and Environmental Protection (Chem. Res. Lab., Tokyo Tech) TATSUMI, Takashi (09:30~10:20)

**2H7-09 Incubation Time** (10:20~10:30)

Chair: TATSUMI, Takashi (10:30~12:00)

**2H7-10 ATP Special Invited Lecture** The diversification of chemical resources (Mitsubishi Chemical Group Science and Technology Research Center, Inc) SETOYAMA, Tohru (10:30~11:10)

**2H7-14 ATP Special Invited Lecture** Exergy Recuperation and En-

ergy-Material Coproduction (IIS, The Univ. of Tokyo) TSUTSUMI, Atsushi (11:10~11:50)

**2H7-18** Incubation Time (11:50~12:00)

### Saturday, March 27, PM

Chair: SETOYAMA, Tohru (13 : 00~14 : 20)

**2H7-25 ATP Special Invited Lecture** Crucial catalyst technology for conversion to resource saving (NIPPON SHOKUBAI CO., LTD.) TSUNEKI, Hideaki (13:00~13:40)

**2H7-29 ATP Invited Lecture** Biotechnology to Lower Environment Footprint (DuPont K. K.) KAKU, Mureo (13:40~14:10)

**2H7-32** Incubation Time (14:10~14:20)

Chair: TSUNEKI, Hideaki (14 : 20~15 : 30)

**2H7-33 ATP Invited Lecture** Biomass and Carbon Dioxide for Renewable Chemicals (Catalysis Sci. Lab., Mitsui Chemicals, Inc.) FUJIWARA, Kenji; WADA, Mitsufumi (14:20~14:50)

**2H7-36 ATP Invited Lecture** The 500BD Demonstration Plant with Japan-GTL Process (Nippon GTL Technology Research Association R&D Department) MIZUTA, Haruyoshi (14:50~15:20)

**2H7-39** Incubation Time (15:20~15:30)

Chair: NUMATA, Shuhei (15 : 30~16 : 40)

**2H7-40 ATP Invited Lecture** Technology for FCC Catalyst Reduction by High Gradient Magnetic Separator (HGMS) (NIPPON OIL CORPORATION) SAKODA, Hisao (15:30~16:00)

**2H7-43 ATP Invited Lecture** Ultrasonic Atomization for Ethanol Separation—Localized Analysis of Mist Generation towards Process Development— (Grad. Sch. Eng., Doshisha Univ.) TSUCHIYA, Katsumi (16:00~16:30)

**2H7-46** Incubation Time (16:30~16:40)

Chair: INOUE, Kenji (16 : 40~17 : 30)

**2H7-47 Oral C** A Simple Continuous Resin-catalytic Production Process of Biodiesel Fuel from Oil with A High Free Fatty Acid Content (Tohoku Univ. Dept of Chemical Engineering) SHIBASAKI-KITAKAWA, Naomi; TSUJI, Takahiro; KUBO, Masaki; YONEMOTO, Toshikuni (16:40~17:00)

**2H7-49 Oral D** Recycling of PET bottle: value of microwave heating for depolymerization, re-polymerization, and bottle to bottle (Sojo Univ.) IKENAGA, Kazutoshi; YANASE, Jun-ichiro; IMAFUJI, Makoto; ONO, Fumiya; YAMAMOTO, Masahiro; DEKURA, Tsuyoshi; KAMEYAMA, Takehiko (17:00~17:30)

## Room H8

Bldg.B 403

### Innovative Technologies for Environment and Natural Resources

Friday, March 26, AM

#### Advanced Technologies for Environmental Conservation, Remediation, and Analysis

(9 : 00 ~9 : 10)

**1H8-01** Opening Remarks (Grad. Sch. Eng., Osaka Pref. Univ.) BANDO, Hiroshi (09:00~09:10)

Chair: HORI, Hisao (9 : 10 ~11 : 50)

**1H8-02 ATP Keynote Lecture** Development of Environmental Remediation and Purification Technology toward Sustainable Society (JEMAI) IBUSUKI, Takashi (09:10~10:00)

**1H8-07 ATP Special Invited Lecture** Recycle of water and resources from industrial wastewater (ORGANO CORP.) MYOGA, Haruki (10:00~10:40)

**1H8-11** Incubation Time (10:40~10:50)

**1H8-12 ATP Invited Lecture** Detoxification of organo-halogen compounds by functionalities of humic substances (Grad. Sch. Eng., Hokkaido Univ.) FUKUSHIMA, Masami (10:50~11:20)

**1H8-15 ATP Invited Lecture** Phytoremediation of soil: Using plant to clean up soil (AIST) IIMURA, Yosuke (11:20~11:50)

Chair: FUKUSHIMA, Masami (11 : 50~12 : 30)

**1H8-18 Oral C** Toxicity of metallic oxide ion and sulfate ion in combinations analyzed by the Biotic Ligand Model (Tokyo National College of Technology) KOBAYASHI, Kazuki; SHOJI, Ryo (11:50~12:10)

**1H8-20 Oral C** Catalytic oxidation of volatile organic compounds by using ozone (Kyushu Univ.) EINAGA, Hisahiro; TERAOKA, Yasutake; OGATA, Atsushi (12:10~12:30)

### Friday, March 26, PM

Chair: FUKUSHIMA, Masami (13 : 30~14 : 10)

**1H8-28 ATP Special Invited Lecture** Introduction of the analytical method for New POPs (Persistent Organic Pollutants) (Shimadzu Techno-Research Inc.) OHI, Etsumasa (13:30~14:10)

Chair: EINAGA, Hisahiro (14 : 10~15 : 30)

**1H8-32 ATP Invited Lecture** Development of Decomposition Techniques for Environmentally Persistent Perfluorinated Compounds (AIST) HORI, Hisao (14:10~14:40)

**1H8-35 Oral C** Research of hexavalent chromium extraction in plastics (Toshiba Corp.) MURAMATSU, Miho; OKI, Mitsuhiro; SATAKE, Hideki; TAKENAKA, Miyuki (14:40~15:00)

**1H8-37 Oral C** Research on metallic adsorption efficiency of amidinorea resin aiming at rare element (Tokyo Denki Univ.) TANAKA, Satomi; SHIMIZU, Takashi; SHIBA, Ryuichi (15:00~15:20)

**1H8-39** Incubation Time (15:20~15:30)

Chair: BANDOW, Hiroshi (15 : 30~16 : 40)

**1H8-40 ATP Special Invited Lecture** Health Effects of Fine Particles - Review from the Epidemiological Studies - (Emeritus Prof., Kyoto Univ.) UCHIYAMA, Iwao (15:30~16:10)

**1H8-44 ATP Invited Lecture** Super Clean and Economical Diesel Emission Control using Nonthermal Plasma (Fac. Eng., Tokyo City Univ.) YAMAMOTO, Toshiaki (16:10~16:40)

Chair: KOBORI, Yoshihiro (16 : 40~17 : 50)

**1H8-47 ATP Special Invited Lecture** Latest Situation of the Measurement Method for PM2.5 in Ambient Air (JETA) MIKASA, Hajime (16:40~17:20)

**1H8-51 ATP Invited Lecture** Research Activities of Japan Auto-Oil Program regarding PM2.5 (JPEC) OYAMA, Koji (17:20~17:50)

## Room P Memorial Hall

### Friday, March 26, PM

(12 : 30~14 : 00)

### Innovative Technologies for Environment and Natural Resources

**1PB-001** Development of the energy storage system of environmental conformity type derived from reuse of secondary batteries based on the Ionic Semiconductor and the relation technologies (Ion-Kagaku, Ltd.; Tokyo Metr. Coll. of Ind. Tech.) KARINO, Hitoshi; TAMURA, Kenji

**1PB-003** Development of the individual region models in the waste treatment based on the environmental conformity type automatic carbonization equipment (Victory Co.,Ltd.; Tokyo Metr. Coll. of Ind. Tech.) KON, Katsuo; MURAMATSU, Mitsuyoshi; MATSUURA, Yutaka; TAMURA, Kenji

### Bio-chemicals for our future industry

#### Green Biotechnology

**1PB-005** Present utilization of lignocellulosics through the phase-separation system (Graduate School of Bioresources, Mie Univ.) AOYAGI, Mitsuru; MIKAME, Keigo; FUNAOKA, Masamitsu

**1PB-006** Development of Functional materials using Ferulic Acid Derived From Rice Bran (Industrial Technology Center of Wakayama Prefecture) HOSODA, Asao; MORI, Hajime; MIYAKE, Yasuhiro; TANAKA, Yoshie; OSAKI, Shusuke; KOBATA, Toshitsugu; TSUNO, Takuo; TANIGUCHI, Hisaji

**1PB-007** Development of Novel Acrylate Monomer Utilizing Ferulic Acid Derived From Rice Bran (Industrial Technology Center of Wakayama Prefecture) MORI, Hajime; HOSODA, Asao; MIYAKE, Yasuhiro; TANAKA, Yoshie; OSAKI, Shusuke; KOBATA, Toshitsugu; TANIGUCHI, Hisaji; YASUDA, Shingo; YAMADA, Kouhei; OOTA, Kouji; IYO, Masami; KAYANOKI, Minoru; TSUNO, Takuo; FUJITA, Muneki

**1PB-008** The Preparation and Characterization of Ferulic Acid Derivatives (Industrial Technology Center of Wakayama Prefecture) MIYAKE, Yasuhiro; HOSODA, Asao; MORI, Hajime; TANAKA, Yoshie; OSAKI, Shusuke; MORI, Megumi; KOBATA, Toshitsugu; TANIGUCHI, Hisaji

**1PB-009** Direct polycondensation of L-lactic acid in a bulk state (KIT; Liaison Center) ISHIJIMA, Yuuki; ABIKO, Atsushi

**1PB-010** Synthesis of star poly(L-Lactic acid)s having carboxylic acid terminal

group by polycondensation and their property (KIT; Liaison Center) IGUCHI, Makoto; YANO, Shinnya; ABIKO, Atsushi

**1PB-011** Development of the new manufacturing method of a optically active L-amino acid by using an enzymatic dynamic optical resolution. (Sekisui Medical Co., Ltd; Toyobo Co., Ltd.) KUMAGAI, Shinya; YAMADA, Toshihide; IWAI, Sachio; NISHIYA, Yoshiaki

### Frontier Biotechnology

**1PB-012** Development of Functional Peptide for the Detection of Vascular Endothelial Growth Factor (VEGF) and Its Immobilization on Nano-Pillar Array (AIST) SUZUKI, Yoshio; YOKOYAMA, Kenji

**1PB-013** Development of microchip-based full-automotive immunoassay system "μ ELISA" (Inst. of Microchemical Technology) OOHASHI, Toshinori; FUKAHORI, Osamu; TAZAWA, Hidekatsu; HARANO, Aya; EBATA, Tomohiko; MAWATARI, Kazuma; KITAMORI, Takehiko

**1PB-014** Highly efficient capture of DNA in the blood using microdevice (School of Engineering, Nagoya Univ.) SANO, Tatsuki; OKAMOTO, Yukihiro; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu

**1PB-015** Fabrication and Application of Cellular Layered Tissues for Medical Industry (Dept. Appl. Chemi., Grad. Sch. Eng., Osaka Univ.) MATSUSAKI, Michiya; KADOWAKI, Koji; SAKAUE, Kayo; AKASHI, Mitsuru

**1PB-016** Fullerene as a lead compound for drug discovery (Vitamin C60 BioResearch Corp.; Life and Environmental Sciences, Pref. Univ. of Hiroshima; Faculty of Pharmacy, Keio Univ.) TAIRA, Hikaru; ITO, Masayuki; NAKAMURA, Shigeo; TAKAHASHI, Kyoko; MASHINO, Tadahiko; SAITOH, Yasukazu; MIWA, Nobuhiko

**1PB-017** Withdrawn

**1PB-018** Development and application of highly dispersive polymer-coated magnetic beads directing measurement of biomolecules (Grad. School of Biosci. and Biotechnol., Tokyo Tech.; IRI, Tokyo Tech.) SAKAMOTO, Satoshi; HATAKEYAMA, Mamoru; KISHI, Hiroshi; HANDA, Hiroshi

**1PB-019** Withdrawn

**1PB-020** Screening of cell penetrating activity and cytotoxicity using novel alpha-helical peptides (Tokyo Institute of Technology) KIKUCHI, Takuya; USUI, Kenji; TAKAHASHI, Tsuyoshi; MIHARA, Hisakazu

**1PB-021** Inhibition of influenza virus infection by peptides that regulate sugar-protein interaction on cell surface (Keio Univ.) MATSUBARA, Teruhiko; SATO, Toshinori

**1PB-022** Preparation and characterization of liposome-encapsulated quantum dots (School of Engineering, Nagoya Univ.) NAKAO, Saori; OKAMOTO, Yukihiro; MIZUNO, Masaaki; KAJI, Noritada; TOKESHI, Manabu; KAWANISHI, Satoki; SAKAKI, Hiroyuki; BABA, Yoshinobu

**1PB-023** Bio-detection using a novel material for microarrays and sample trays of MALDI-TOF-MS (HiPep Laboratories) OHYAMA, Takafumi; SOGON, Tetsuya; HIRATA, Akiyoshi; NOKIHARA, Kiyoshi

**1PB-024** Efficient analysis and purification of samples which have difficult separation characteristics by the novel HPLC columns (HiPep Laboratories) NOKIHARA, Kiyoshi; MIYAZATO, Naeko; HIRATA, Akiyoshi; OHYAMA, Takafumi

### Others

**1PB-025** Analytical Technique of Structural Homology Using Conformational Code for Quality Control of Therapeutic Antibodies (AIST) IZUMI, Hiroshi

**1PB-026** Development of new method for cleavage of linkers on glassplate and silica bead to apply to microarray construction and solid phase synthesis (National Food Research Institute) TERAUCHI, Takeshi; KOMBA, Shiro

**1PB-027** Development of Functional Organic-Inorganic Hybrid Nanogels (Inst. of Biomaterial and Bioengineering, Tokyo Medical and Dental Univ.) SASAKI, Yoshihiro; YAMANE, Setsuko; AKIYOSHI, Kazunari

**1PB-028** Fabrication of 3D-liposomal array via molecular recognition of DNA (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) ABE, Keita; SASAKI, Yoshihiro; AKIYOSHI, Kazunari

## Room A2

Bldg.21 205

### Natural Products Chemistry

Saturday, March 27, AM

#### Miscellaneous

Chair: MINAMI, Atsushi (9:00 ~ 9:50)

\* 8:50-9:00: interval for laptop PC connection. (2A2-01, 2A2-02, 2A2-03, 2A2-04, 2A2-05)

**2A2-01** Characterization of tailoring enzymes in the biosynthesis of FD-594. (Graduate School of Science and Engineering, Tokyo Inst. of Tech.)

KOMATSUBARA, Akiko; YONEZAWA, Takanori; KUDO, Fumitaka; MIZOUE, Kazutoshi; EGUCHI, Tadashi

**2A2-02** Enzymatic preparation of neomycin C from ribostamycin (Graduate School of Science and Engineering, Tokyo Inst. of Tech.) KAWASHIMA, Taiki; YOKOYAMA, Kenichi; KUDO, Fumitaka; EGUCHI, Tadashi

**2A2-03** Isolation and Structure Determination of Bisebromoamide, a Novel Cytotoxic Peptide from the Marine Cyanobacterium *Lyngbya* sp. (Faculty of Science and Technology, Keio Univ.) SASAKI, Hiroaki; TERUYA, Toshiaki; SUENAGA, Kiyotake

**2A2-04** Biological Activity and Structure-Activity Relationship of Bisebromoamide from the Marine Cyanobacterium *Lyngbya* sp. (Faculty of Science and Technology, Keio Univ.) SASAKI, Hiroaki; TERUYA, Toshiaki; SUENAGA, Kiyotake

**2A2-05** Isolation and Structure of Koshikalide, a 14-Membered Macrolide from the Marine Cyanobacteria *Lyngbya* sp. (Faculty of Science and Technology, Keio Univ.) TERUYA, Toshiaki; IWASAKI, Arihiro; SUENAGA, Kiyotake

### Asian International Symposium

#### -Natural Products Chemistry, Chemical Biology

Chair: ARIMOTO, Hirokazu (10:00 ~ 10:50)

**2A2-07<sup>#</sup> Invited Lecture** Efficient Total Synthesis of (-) Kainic Acid (Osaka City Univ.) OOE, Kentaro; SHINADA, Tetsuro; OHFUNE, Yasufumi (10:00 ~ 10:10)

**2A2-08<sup>#</sup> Invited Lecture** Total Synthesis of Broussonetine F and L (Keio Univ.) OHAMA, Naoto; MIWA, Syohei; SATO, Takaaki; CHIDA, Noritaka (10:10 ~ 10:20)

**2A2-09<sup>#</sup> Invited Lecture** Sterol Effects on Interaction between Amphidinol 3 and Liposomal Membrane (Osaka Univ.) OSWASONO, Respati T.; MOURI, Ryota; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio (10:20 ~ 10:30)

**2A2-10<sup>#</sup> Invited Lecture** Bioactive Secondary Metabolites from Symbiotic Marine Dinoflagellates (Univ. of Tsukuba) KITA, Masaki (10:30 ~ 10:50)

Chair: MURATA, Michio (11:00 ~ 11:30)

**2A2-13<sup>#</sup> Keynote Lecture** Diverse polyketides from Taiwanese marine dinoflagellates (National Research Institute of Chinese Medicine) LU, Chung-Kuang (11:00 ~ 11:30)

Chair: KIGOSHI, Hideo (11:30 ~ 12:00)

**2A2-16<sup>#</sup> Keynote Lecture** Gold-catalyzed Carbo- and Heterocycle Synthesis (Hanyang Univ.) SHIN, Seunghoon (11:30 ~ 12:00)

## Room A3

Bldg.21 312

### Natural Products Chemistry

Sunday, March 28, AM

#### sugar

Chair: TANAKA, Katsunori (9:00 ~ 9:50)

\* 8:50-9:00: interval for laptop PC connection. (3A3-01, 3A3-02, 3A3-03, 3A3-04, 3A3-05)

**3A3-01** The ring cleavage of methyl α-D-allopyranoside derivatives using PhBCl<sub>2</sub> and Et<sub>3</sub>SiH (Niigata Univ. of Pharmacy and Applied Life Sciences) KOJIMA, Masaru; KONNO, Hiroko; NAKAMURA, Yutaka; TAKEUCHI, Seiji

**3A3-02** DMT-Glycoside: Practical Synthesis in Laboratory (Graduate School of Engineering, Tohoku Univ.) ISHIHARA, Masaki; TANAKA, Tomonari; NOGUUCHI, Masato; KOBAYASHI, Atsushi; SHODA, Shin-ichiro

**3A3-03** Enzymatic α-N-Acetylglucosaminylation by Using DMT-glycoside as a Glycosyl Donor (Tohoku Univ.; The Noguchi Institute) TANAKA, Tomonari; NAKAMURA, Miwa; NOGUUCHI, Masato; KOBAYASHI, Atsushi; FUJITA, Masaya; TSUCHIDA, Akiko; MIZUNO, Mamoru; SHODA, Shin-ichiro

**3A3-04** Synthesis of LactidNac derivative using fluorosulfur thio glycoside (Lab. of Glyco-organic Chemistry; The Noguchi Institute) MIZUNO, Mamoru; GOTO, Kohtarō; NUERAMINA, Nuermainaiti

**3A3-05** Development of novel glucuronic acid glycosyl donor with high reactivity and stereoselectivity. (Graduate School of Life Science, Hokkaido Univ.) FURUKAWA, Takayuki; HINOUE, Hiroshi; NISHIMURA, Shin-ichiro

Chair: HIRAI, Go (10:00 ~ 10:50)

\* 9:50-10:00: interval for laptop PC connection. (3A3-07, 3A3-08, 3A3-09, 3A3-10, 3A3-11)

**3A3-07** Target-selective Photo-degradation of Oligosaccharides by Anthra-

quinone-boronic Acid Hybrids. (Keio Univ.; Faculty of Science and Technology) HIRONO, Shingo; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

**3A3-08<sup>#</sup>** Protein Engineering by Glycans through 6 $\pi$ -Azaelectrocyclization (Osaka Univ.) MINAMI, Kaori; SIWU, Eric R. O.; TANAKA, Katsunori; FUKASE, Koichi

**3A3-09** Practical synthesis of 1,2,4-orthoacetyl- $\alpha$ -D-glucopyranose making use of the characteristic of molecular sieves (Kwansei Gakuin Univ., School of Science and Technology) HOSHIDA, Hayato; ASAKURA, Noriaki; YAMADA, Hidetoshi

**3A3-10** Mechanism of Glycosylations via Glycosyl Sulfonium Ions (Kyoto Univ.; RIKEN) NOZAKI, Yuki; NOKAMI, Toshiki; MANABE, Shino; ITO, Yukishige; YOSHIDA, Jun-ichi

**3A3-11** Significant Substituent effect in pyranoside anomerization reaction (RIKEN, Advanced Science Institute) MANABE, Shino; ITO, Yukishige

Chair: SUZUKI, Keisuke (11:00~11:50)

\* 10:50-11:00: interval for laptop PC connection.(3A3-13)

**3A3-13<sup>#</sup> Special Lecture** Taxol: Synthesis and Metathesis (Univ. of Glasgow, Scotland) Joelle Prunet

### Sunday, March 28, PM

Chair: TANINO, Keiji (13:00~14:00)

\* 12:50-13:00: interval for laptop PC connection.(3A3-25, 3A3-28, 3A3-29)

**3A3-25 CSJ Award for Young Chemists** Total Synthesis of Structurally Complex Marine Natural Products (Grad. Sch. Life Sci., Tohoku Univ.) FUWA, Haruhiko

#### sugar

**3A3-28** Synthesis of a linear nonasaccharide fragment of Mycobacterial arabinan (RIKEN Advanced Science Institute; ERATO JST) ISHIWATA, Akihiro; ITO, Yukishige

**3A3-29<sup>\*</sup>** One-pot Synthesis of Glucosides from Free Saccharides via Oxazoline Derivative (Graduate School of Engineering, Tohoku Univ.) NOGUCHI, Masato; ISHIKURA, Kumiko; TANAKA, Tomonari; KOBAYASHI, Atsushi; SHODA, Shin-ichiro

Chair: OHMORI, Ken (14:10~14:40)

\* 14:00-14:10: interval for laptop PC connection.(3A3-32)

**3A3-32 Young Scholar Lectures of CSJ** Total Synthesis and Cytotoxicity of Haterumalides NAand B and Their Artificial Analogues (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) HAYAKAWA, Ichiro

Chair: SHOJI, Mitsuru (16:40~17:30)

\* 16:30-16:40: interval for laptop PC connection.(3A3-47, 3A3-49, 3A3-50, 3A3-51)

**3A3-47<sup>\*</sup>** Fluorous mixture synthesis of cucurbitoside-type phenolic glycosides (Niigata Univ. of Pharmacy and Applied Life Sciences) KOJIMA, Masaru; KOMORI, Kazuki; NAKAMURA, Yutaka; TAKEUCHI, Seiji

**3A3-49** Practical Microfluidic Procedures for  $\alpha$ -Sialylation (Osaka Univ.) UCHINASHI, Yosuke; TANAKA, Katsunori; FUKASE, Koichi

**3A3-50** Integrated Microfluidic/Batch Conditions for Practical N-Glycosylation (Osaka Univ.) MIYAGAWA, Takuya; TANAKA, Katsunori; FUKASE, Koichi

**3A3-51** Controlling Glycosyl Polymerization under Microfluidic Conditions (Osaka Univ.) NAKAYABU, Aiko; TANAKA, Katsunori; FUKASE, Koichi

Chair: MANABE, Shino (17:40~18:30)

\* 17:30-17:40: interval for laptop PC connection.(3A3-53, 3A3-54, 3A3-55, 3A3-56, 3A3-57)

**3A3-53** A transglycosylation to gold colloidal nanoparticles containing GlcNAc using Endo-M (Tokai Univ.) KOMO, Momoko; TOMABECHI, Yusuke; NONAKA, Naoki; NAKA, Shunsuke; INAZU, Toshiyuki

**3A3-54** Side reaction during the deprotection of S-acetyl group of fluoros thiol (Tokai Univ.) FUJITA, Yoichi; NAGASAKI, Taichi; INAZU, Toshiyuki

**3A3-55** Application of regioselective enzyme-catalyzed reactions in the synthesis of bioactive carbohydrates. (Faculty of Pharmacy, Keio Univ.) UEDA, Yuji; CALVERAS, Jordi; HIGASHI, Yoshinori; SHOJI, Mitsuru; SUGAI, Takeshi

#### combichem

**3A3-56** Synthetic Study of Hymegluslin Analogues on Solid-Phase (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; OKADA, Kumiko; TAKAHASHI, Takashi

**3A3-57** Synthetic Study of Triazole Analogues of Oxazole-containing Cyclic Peptides by Way of 1,3-Dipolar Cycloaddition (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) SHIBATA, Kazuaki; YOSHIDA, Masahito; TAKAHASHI, Takashi; DOI, Takayuki

### Monday, March 29, AM

#### sugar

Chair: TANAKA, Hiroshi (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4A3-01, 4A3-02, 4A3-03, 4A3-04, 4A3-05)

**4A3-01** Transfer of N-Formylglucosamine Residue to Maltooligosaccharides by Thermostable Phosphorylase Catalysis (Kagoshima Univ.) KAWAZOE, Satoshi; IZAWA, Hironori; KANEKO, Yoshiro; KADOKAWA, Jun-ichi

**4A3-02** Transfer of Glucuronic Acid Residue to Maltooligosaccharides by Thermostable Phosphorylase Catalysis (Kagoshima Univ.) UMEGATANI, Yuta; IZAWA, Hironori; KANEKO, Yoshiro; KADOKAWA, Jun-ichi

**4A3-03** Synthesis of (R)-CHF-linked Sialylgalactose (ASI, RIKEN) OKADA, Mitsuki; HIRAI, Go; MIYAGI, Taeko; SODEOKA, Mikiko

**4A3-04** Synthesis of CF<sub>2</sub>-Linked Ganglioside GM3 Analogue (ASI, RIKEN) KATO, Marie; HIRAI, Go; KOSHINO, Hiroyuki; MIYAGI, Taeko; SODEOKA, Mikiko

**4A3-05<sup>\*†</sup>** Development of S<sub>N</sub>2' Reaction Arising from the Unique Sugar Structure and Its Application to the Synthesis of Difluoromethylene-linked Disaccharide Unit (ASI, RIKEN) TSUCHIKAWA, Hiroshi; HIRAI, Go; SODEOKA, Mikiko

Chair: YAMADA, Haruo (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4A3-08, 4A3-09, 4A3-11, 4A3-13)

**4A3-08** Development of Method for The Synthesis of [<sup>18</sup>F] PET Probes Using A Polymer-supported Reagents (Tokyo Institute of Technology) TANAKA, Hiroshi; TAKEUCHI, Ryota; TOMITA, Ikuyoshi; TAKAHASHI, Takashi

**4A3-09<sup>\*†</sup>** Synthesis of  $\beta$  Glucan Oligosaccharide Derivatives Activating Innate Immunity (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) KAWAI, Tetsuya; TANAKA, Hiroshi; ADACHI, Yoshiyuki; OHNO, Naohito; TAKAHASHI, Takashi

**4A3-11<sup>#</sup>** Characterization of natural NodI ligands from bacterial culture supernatant for elucidation of immune system activation on the environment (Osaka Univ.) PRADIPTA, Ambara Rachmat; KAWASAKI, Akiko; HASEGAWA, Mizuho; INOHARA, Naohiro; FUJIMOTO, Yukari; FUKASE, Koichi

**4A3-13** Synthesis of fluorescence-labeled peptidoglycan for elucidation of the immunostimulating mechanism (Graduate School of Science, Osaka Univ.) FUJIKI, Katsumasa; ITO, Yoko; HEINE, Holger; HASEGAWA, Mizuho; INOHARA, Naohiro; FUJIMOTO, Yukari; FUKASE, Koichi

Chair: YAMADA, Hidetoshi (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4A3-15, 4A3-16, 4A3-17, 4A3-18, 4A3-19)

**4A3-15** A novel glycosylation reaction with glycosyl boranophosphates (The Univ. of Tokyo) WADA, Takeshi; TATSUMI, Shiro; MATSUMURA, Fumiko; OKA, Natsuhisa

**4A3-16** Effect of substrate concentration and protecting groups of glycosyl donors on glycosylation under frozen conditions (RIKEN ASI; Saitama Univ.; ERATO JST) SAKURAI, Ayaka; ISHIWATA, Akihiro; ITO, Yukishige

**4A3-17** Tin acetate-catalyzed synthesis of cyclic phosphates and derivatization (Ehime Univ.) WATANABE, Yutaka; SAEKI, Takafumi; TOMITA, Kousei; HAYASHI, Minoru

**4A3-18** Direct synthesis of thiopyridyl glycosides (Graduate School of Engineering, Tohoku Univ.) YOSHIDA, Naoki; AIDA, Naoya; NOGUCHI, Masato; TANAKA, Tomonari; ISHIHARA, Masaki; KOBAYASHI, Atsushi; SHODA, Shin-ichiro

**4A3-19<sup>\*</sup>** A novel method for the labeling of oligosaccharides through direct transformation of glycosyl azide (Graduate School of Engineering, Tohoku Univ.) KOBAYASHI, Atsushi; NAGAI, Hikaru; TANAKA, Tomonari; NOGUCHI, Masato; SHODA, Shin-ichiro

### Monday, March 29, PM

Chair: TOSHIMA, Kazunobu (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(4A3-28, 4A3-31, 4A3-32)

**4A3-28 Young Scholar Lectures of CSJ** Bioorganic studies on mammalian venoms (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) KITA, Masaki

#### sugar

**4A3-31** Structure Analysis of Steroidal Glycoside from *Ornithogalum saundersiae* (Tokyo Univ. of Agriculture and Technology) FUKUMOTO, Takuro; NOGUCHI, Keiichi; YOHDA, Masafumi; SAKURAI, Kaori

**4A3-32<sup>\*</sup>** Synthesis of *Helicobacter pylori* Lipopolysaccharide Partial Structures for Elucidation and Regulation of Innate Immune System (Grad. Sch. of Sci., Osaka Univ.) SHIMOYAMA, Atsushi; KASAMATSU, Chika; SAEKI, Akinori; FUJIMOTO, Yukari; FUKASE, Koichi

Chair: FUJIMOTO, Yukari (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4A3-35, 4A3-36, 4A3-37, 4A3-38, 4A3-39, 4A3-40)
- 4A3-35** Switching of Anomeric Diastereoselectivity by Solvents with Single Glycosyl Donor (Tokyo Univ. of Sci., Horito lab) FUJIWARA, Ryuta
- 4A3-36** Practical application of a selectively deprotectable monosaccharide unit in oligosaccharide synthesis (Department of Materials and Life Science, Seikei Univ.) SHINODA, Yuki; IWAMOTO, Shogo; SABUROMARU, Miyuki; MATSUZAKI, Yuji; TOTANI, Kiichiro
- 4A3-37** Studies toward the synthesis of carbasugar derivatives of Guanofosfocins (Aoyama Gakuin Univ.) INO, Kyohei; TSUJIMOTO, Takashi; SUGIMURA, Hideyuki
- 4A3-38** Synthesis of GM3 gold glyconanoparticles for the elucidation of carbohydrate-carbohydrate interaction (Department of Chemistry, Okayama Univ. of Science) YAMADA, Haruo; SAGISAKA, Ayami
- 4A3-39** Immobilization of the sugar derivatives having thiol anchoring group (Department of Chemistry, Okayama Univ. of Science) YAMADA, Haruo; HORIE, Akifumi
- 4A3-40** Synthesis of 2-deamino Gg3 derivative immobilized on Gold Glyconanoparticles (Okayama Univ. of Science) YAMADA, Haruo; NAKAMURA, Haruki

## Room A4

Bldg.21 313

### Natural Products Chemistry

Sunday, March 28, AM

#### Terpenoids • Steroids

Chair: KATO, Nobuo (9 : 00 ~ 9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(3A4-01, 3A4-03, 3A4-04, 3A4-05)
- 3A4-01\*** Total Synthesis of Lycodine (Kyoto Univ.; Tohoku Univ.) TSUKANO, Chihiro; ZHAO, Le; TAKEMOTO, Yoshiji; HIRAMA, Masahiro
- 3A4-03** Synthetic Studies on Limonoids (1) (Graduate School of Science, Tohoku Univ.) NARUKO, Akito; NAKAZAWA, Yuki; YAMASHITA, Shuji; HIRAMA, Masahiro
- 3A4-04** Synthetic Studies on Limonoids(2) (Graduate School of Science, Tohoku Univ.) NAKAZAWA, Yuki; NARUKO, Akito; YAMASHITA, Shuji; HIRAMA, Masahiro
- 3A4-05** Synthetic Study of DEFGH-ring Moiety of Physalins (ASI, RIKEN) MORITA, Masaki; OHKUBO, Megumi; HIRAI, Go; SODEOKA, Mikiko

Chair: HONDA, Kiyoshi (10 : 00~10 : 10)

- \* 9:50-10:00: interval for laptop PC connection.(3A4-07, 3A4-08, 3A4-09, 3A4-10, 3A4-11)
- 3A4-07** Total Synthesis of (+)-Ekeberin D<sub>4</sub> (Graduate School of Sci., Osaka City Univ.) AOKI, Shingo; KODAMA, Takeshi; TACHI, Yoshimitsu; MORIMOTO, Yoshiki
- 3A4-08** Cyclization Products of a Biogenetic Precursor Model Tetraepoxide (Graduate School of Sci., Osaka City Univ.) HOSHINO, Akihiro; TAKEUCHI, Eriko; MORINO, Miyako; TACHI, Yoshimitsu; MORIMOTO, Yoshiki
- 3A4-09<sup>†</sup>** Synthetic Study of Ouabain (Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo) KASUYA, Satoshi; URABE, Daisuke; INOUE, Masayuki
- 3A4-10** Synthetic Study of Cortistatin A (Kogakuin Univ.) FURUKAWA, Ryoichi; SATO, Kei; KOBAYASHI, Yuta; HIRAKAWA, Atsushi; NAGUMO, Shinji; MIYASHITA, Masaaki
- 3A4-11** Olefin metathesis of carotenoid synthesis (Kwansei Gakuin Univ.) KAJIKAWA, Takayuki; IGUCHI, Naoko; KATSUMURA, Shigeo

Chair: MORIMOTO, Yoshiki (11 : 00~12 : 00)

- \* 10:50-11:00: interval for laptop PC connection.(3A4-13, 3A4-14, 3A4-15, 3A4-16, 3A4-17, 3A4-18)
- 3A4-13** Synthesis of Tricyclic Isoprenoid Chromane Stachybotrins (Graduate School of Environment and Information Sciences, Yokohama Natl. Univ.; Faculty of Engineering, Yokohama Natl. Univ.) INOUE, Seiichi; MIZUSHIMA, Kohji; MATSUMOTO, Masanori; HONDA, Kiyoshi; HOSHINO, Yujiro
- 3A4-14** Synthetic study on 13-oxygenol (Univ. of Tsukuba) OHYOSHI, Takayuki; MIYAZAWA, Yamato; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 3A4-15** Synthetic study on Taxol (Keio Univ.) KODAMA, Keisuke; TANAKA, Yuta; UMEI, Kentaro; SAWAI, Kazuhiro; ISHIMOTO, Takeru; YAMAZAKI, Hirohisa; SATO, Takaaki; CHIDA, Noritaka
- 3A4-16** Synthetic Study on Taxinine (Univ. of Alberta, Department of Chemistry) NAKANISHI, Waka; JOY, Shaon; BENSON, Chantel, L.;

MAZZOLA, Robert, D.; GIESE, Soren; WEST, F. G.

- 3A4-17** Synthetic Study of Cladiellins (Faculty of Eng. and Grad. School of Sci. and Tec., Niigata Univ.) SUZUKI, Toshio; OHNIWA, Keita; HAGIWARA, Hisahiro; HOSHI, Takashi
- 3A4-18** Synthetic Study of Pentalenolactone F (Faculty of Eng. and Grad. School of Sci. and Tec., Niigata Univ.) SUZUKI, Toshio; MATSUMOTO, Taku; HAGIWARA, Hisahiro; HOSHI, Takashi

Sunday, March 28, PM

#### Terpenoids • Steroids

Chair: OGURI, Hiroki (13 : 10~13 : 50)

- \* 13:00-13:10: interval for laptop PC connection.(3A4-26, 3A4-27, 3A4-28)
- 3A4-26** Practical Synthesis of Spirostomin A (Division of Molecular Materials Science, Graduate School of Science, Osaka City Univ.) SERA, Yoshihiko; TAKAYAMA, Yoshiko; USUKI, Yoshinosuke; IIO, Hideo
- 3A4-27<sup>†</sup>** Synthesis of Isocyanocadinene and its Stereoisomers and Evaluations of their Antifouling Activities (Hokkaido Univ.) NISHIKAWA, Keisuke; SHIROKURA, Yousuke; NOGATA, Yasuyuki; YOSHIMURA, Erina; UMEZAWA, Taiki; OKINO, Tatsufumi; MATSUDA, Fuyuhiko
- 3A4-28\*** Synthetic Study of Agarofuran-Type Sesquiterpenoid (Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo) IWATSU, Masafumi; URABE, Daisuke; INOUE, Masayuki

Chair: SUZUKI, Toshio (14 : 00~14 : 50)

- \* 13:50-14:00: interval for laptop PC connection.(3A4-31, 3A4-32, 3A4-34)
- 3A4-31** Expedient synthesis and structural diversification of sesquiterpene analogs employing catalytic skeleton constructing reactions (Faculty of Science & Creative Research Initiative "Sousei", Hokkaido Univ.) OCHIAI, Kyohei; OGURI, Hiroki; OIKAWA, Hideaki
- 3A4-32\*<sup>†</sup>** Stereochemical study of chiral tautomeric furanones by vibrational circular dichroism (Faculty of Advanced Life Science, Hokkaido Univ.) NAKAHASHI, Atsufumi; MIURA, Nobuaki; MONDE, Kenji; EMURA, Makoto; YAGUCHI, Yoshihiro; SUGIMOTO, Daisuke
- 3A4-34\*<sup>†</sup>** A Study on development of Fusicoccane Derivative Acting as Anticancer Synergist with Interferon  $\alpha$  (ISIR, Osaka Univ.) HARANOSONO, Yu; INOUE, Takatsugu; NITTA, Hajime; HONMA, Yoshio; SASSA, Takeshi; OHKANDA, Junko; KATO, Nobuo

Chair: MURATA, Michio (16 : 50~17 : 20)

- \* 16:40-16:50: interval for laptop PC connection.(3A4-48, 3A4-49, 3A4-50)
- 3A4-48** A anti-leishmanial compound from the marine organism (Waseda Univ.; Lab of Chemical Biology) ISHIGAMI, Shintaro; NAKAO, Yoichi
- 3A4-49<sup>†</sup>** New sesquiterpenoids with ABTS radical scavenging activity from the seeds of *Angelica keiskei* (Nagahama Institute of Bio-Science Technology) AOKI, Nobuwa; SHIRAI, Masaaki; OHTA, Shinji
- 3A4-50** Study on diversity of *Iris* collected in China using iridals as index (Rikkyo Univ.) HASEGAWA, Yu; KURODA, Chiaki; GONG, Xun

#### Miscellaneous

Chair: KUDO, Fumitaka (17 : 30~18 : 30)

- \* 17:20-17:30: interval for laptop PC connection.(3A4-52, 3A4-53, 3A4-54, 3A4-55, 3A4-56, 3A4-57)
- 3A4-52<sup>†</sup>** Detailed cyclization mechanism of fusicoccadiene synthase (Graduate School of Science, Hokkaido Univ.) SHINDE, Sandip; MINAMI, Atsushi; CHEN, Zhi; TOKIWANO, Tetsuo; TOYOMASU, Tomonobu; KATO, Nobuo; SASSA, Takeshi; OIKAWA, Hideaki
- 3A4-53** Chemo-enzymatic synthesis of saframycin derivatives by nonribosomal peptide synthetase, SfmC (Graduate School of Science, Hokkaido Univ.) TAKAKURA, Michiko; KOKETSU, Kento; WATANABE, Kenji; OGURI, Hiroki; OIKAWA, Hideaki
- 3A4-54** Biosynthetic study of antifungal antibiotic jawsamycin (Graduate School of Science, Hokkaido Univ.) SEO, Takashi; MINAMI, Atsushi; TOKIWANO, Tetsuo; OIKAWA, Hideaki
- 3A4-55** Site-directed mutational analysis of epoxide hydrolase Lsd19 involved in lasalocid A biosynthesis (Graduate School of Science, Hokkaido Univ.) MINAMI, Atsushi; KIM, Chu-yung; WATANABE, Kenji; OGURI, Hiroki; OIKAWA, Hideaki
- 3A4-56** Photo-degradation of Amyloid  $\beta$  by a Fullerene-sugar Hybrid. (Keio Univ.; Faculty of Science and Technology) ISHIDA, Yasunori; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 3A4-57** Development of ER- $\alpha$  Selective Photo-degrading Agents and Inhibition of Breast Cancer Proliferation. (Keio Univ.; Faculty of Science and Technology) TSUMURA, Kana; UMEZAWA, Kazuo; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Monday, March 29, AM

#### Alkaloids

Chair: HAYAKAWA, Ichiro (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4A4-01, 4A4-02, 4A4-03, 4A4-04, 4A4-06)

- 4A4-01** Unprecedented Formal [2+2]-Reaction of Imines and Synthetic Applications (Osaka Univ.) TANAKA, Katsunori; SIWU, Eric R. O.; IWATA, Takayuki; HIROSAKI, Shinji; MINAMI, Kaori; MIYAGAWA, Takuya; JANAIRO, Jose Isagani B.; FUKASE, Koichi
- 4A4-02** Development of practical synthetic strategy for complex alkaloids through N-alkoxyamides (Keio Univ.) SHIROKANE, Kenji; KUROSAKI, Yusuke; SATO, Takaaki; CHIDA, Noritaka
- 4A4-03** The second generation synthesis of (-)-Morphine (Keio Univ.) MIWA, Shouhei; SAITOU, Ryousuke; TANIMOTO, Hiroki; SATOU, Takaaki; CHIDA, Noritaka
- 4A4-04\*** Total synthesis of (-)-Kainic Acid via Sequential Sigmatropic Rearrangement (Keio Univ.; CHIDA Group) KITAMOTO, Katsunori; SAMPEI, Mana; SATO, Takaaki; CHIDA, Noritaka
- 4A4-06** Synthetic study of salinosporamide A (Keio Univ.) HASEGAWA, Junichi; KAIYA, Yuuji; MOMOSE, Takayuki; SATO, Takaaki; CHIDA, Noritaka

Chair: SATO, Takaaki (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4A4-08, 4A4-09, 4A4-10, 4A4-11, 4A4-13)

- 4A4-08** Synthetic Study of Small Molecules Containing A Pyrrolidinoindoline Skeleton (Graduate School of Science & Creative Research Initiative "Sousei", Hokkaido Univ.) WADA, Mitsuhiro; MURATA, Takahisa; OGURI, Hiroki; OIKAWA, Hideaki
- 4A4-09** Stereoselective Synthesis of Hippodamine via One-pot Asymmetric 6. *pa*-Azaelectrocyclization (School of Science and Technology, Kwasei Gakuin Univ.) FUJITA, Shintaro; TSUCHIKAWA, Hiroshi; KOBAYASHI, Toyoharu; KATSUMURA, Shigeo
- 4A4-10** Total synthesis of Guettardine by Utilizing One-Pot Asymmetric Azaelectrocyclization (Science and Technology, Univ. of Kwasei Gakuin) KITAMURA, Takao; TAKEUCHI, Kenichi; SAKAGUCHI, Taku; TSUCHIKAWA, Hiroshi; KATSUMURA, Sigeo
- 4A4-11\*†** Total Synthesis of Cortistatin A and J (Graduate School of Science, Tohoku Univ.) ISO, Kentaro; KITAJIMA, Kazuki; YAMASHITA, Shuji; HIRAMA, Masahiro
- 4A4-13** Total synthesis of (+)-Dibromophakellstatin (Department of Biotechnology and Life, Faculty of Technology, Tokyo Univ. of Agriculture and Technology) AKIMOTO, Takafumi; IMAOKA, Takuya; IWAMOTO, Osamu; NAGASAWA, Kazuo

Chair: YAMASHITA, Shuji (11:20~12:10)

\* 11:10-11:20: interval for laptop PC connection.(4A4-15, 4A4-16, 4A4-17, 4A4-19)

- 4A4-15** Synthetic Studies on Amathaspiramides (Department of Pharmaceutical Sciences, The Univ. of Tokyo) CHIYODA, Koji; SHIMOKAWA, Jun; FUKUYAMA, Tohru
- 4A4-16** Divergent and concise synthesis of aspidosperma/iboga-type alkaloids by mimicking biosynthetic strategy. (Graduate School of Science & Creative Research Initiative "Sousei", Hokkaido Univ.) MIZOGUCHI, Haruki; OGURI, Hiroki; OIKAWA, Hideaki
- 4A4-17\*** Structures and biological activities of halichonines, novel alkaloids isolated from the marine sponge *Halichondria okadai* (Faculty of Science and Technology, Keio Univ.) OHNO, Osamu; MARU, Norihito; YOSHIMURA, Hideaki; YAMADA, Kaoru; UEMURA, Daisuke
- 4A4-19** Exploration of the active site of norzoanthamine for its collagen protection (School of Science, The Univ. of Tokyo) HIDAKA, Daisuke; FUKUZAWA, Seketsu; TACHIBANA, Kazuo

## Room A5

Bldg.21 314

### Natural Products Chemistry

Saturday, March 27, AM

Chair: HAYAKAWA, Ichiro (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(2A5-01, 2A5-02, 2A5-03, 2A5-04, 2A5-06)

- 2A5-01** Asymmetric Total Synthesis of the Assumed Structure of Actinolactomycin (1) (Tokyo Univ. of Science) SHIINA, Isamu; UMEZAKI, Yuma
- 2A5-02** Asymmetric Total Synthesis of the Assumed Structure of Actinolactomycin (2) (Tokyo Univ. of Science) SHIINA, Isamu; UMEZAKI, Yuma; KURODA, Nobutaka
- 2A5-03** Asymmetric Total Synthesis of Demethylbotcinin D (Tokyo Univ. of Science) SHIINA, Isamu; TSUJII, Keisuke
- 2A5-04\*** Total Synthesis of Kendomycin Featuring an Intramolecular Doetz Reaction (Department of Applied Chemistry, Faculty of Science and Technology, Keio Univ.) TANAKA, Kyosuke; WATANABE, Masahito; FUJIMORI, Yukiko; ISHIBASHI, Kodai; OZAWA, Tomohiro; MATSUYAMA, Hiroshi; SAIKAWA, Yoko; NAKATA, Masaya
- 2A5-06** Application of Substrate-controlled Crotylation using *E*-Crotyltri-

fluoroborate to Kendomycin Synthesis (Faculty of Science and Technology, Keio Univ.) MATSUYAMA, Hiroshi; TANAKA, Kyosuke; FUJIMORI, Yukiko; OZAWA, Tomohiro; SAIKAWA, Yoko; NAKATA, Masaya

Chair: KOBAYASHI, Yuichi (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(2A5-08, 2A5-09, 2A5-11, 2A5-12)

- 2A5-08** Synthetic Studies of Incednine: Synthesis of the C1-C13 Pentaenoic Acid Segment. (Keio Univ.; Faculty of Science and Technology) TSUKAMOTO, Shinya; KANDA, Hiroshi; OHTANI, Takashi; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 2A5-09\*** Synthetic Studies of Incednine Aglycon. (Keio Univ.; Faculty of Science and Technology) OHTANI, Takashi; KANDA, Hiroshi; TSUKAMOTO, Shinya; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 2A5-11** Synthesis of C(4)-C(6) linked Catechin Oligomer (Tokyo Institute of Technology) TAKAHASHI, Takehiro; OHMORI, Ken; SUZUKI, Keisuke
- 2A5-12\*** Selective Functionalization of Catechin Derivatives (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST, JST) SHONO, Tomohiro; TAKAHASHI, Haruko; OHMORI, Ken; SUZUKI, Keisuke

Chair: OHMORI, Ken (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(2A5-15, 2A5-17, 2A5-18, 2A5-19, 2A5-20)

- 2A5-15\*†** Synthesis of Resolvins and Protectins (Department of Biomolecular Engineering, Tokyo Institute of Technology) OGAWA, Narihito; KOSAKI, Yusuke; KOBAYASHI, Yuichi
- 2A5-17†** Synthetic Study of Sekothrixide (Kogakuin Univ.) TERAYAMA, Naoki; NAGUMO, Shinji; MIYASHITA, Masaaki
- 2A5-18†** Synthetic study of Venturicidins (Kogakuin Univ.) SUZUKI, Yuuji; NAGUMO, Shinji; MIYASHITA, Masaaki
- 2A5-19** Synthetic study on biselide E (Univ. of Tsukuba) KAWAMURA, Dai; SATO, Yosuke; IKEDA, Yoichi; SUZUKI, Yuta; YAMAURA, Masashi; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 2A5-20** Synthetic study of biselides A and B. (Univ. of Tsukuba) SATOH, Yosuke; KAWAMURA, Dai; OCHIAI, Yumi; YAMAURA, Masashi; HAYAKAWA, Ichiro; KIGOSHI, Hideo

### Saturday, March 27, PM

Chair: SHOJI, Mitsuru (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(2A5-28, 2A5-29, 2A5-30, 2A5-31, 2A5-32, 2A5-33)

- 2A5-28** Synthetic Studies on Stereoisomers of Merrillianin (Tokyo Univ. of Science) IIZUMI, Takashi; OGAWA, Go; YAMADA, Tetsuro; MARUYAMA, Mami; SHIINA, Isamu
- 2A5-29** Synthesis of Astakolactin (Tokyo Univ. of Science) SHIINA, Isamu; KATO, Koji; MAMEDA, Keisuke
- 2A5-30** Construction of the 24-Membered Lactone Moiety of Eushearilide (Tokyo Univ. of Science) SHIINA, Isamu; FUJIMORI, Keiko
- 2A5-31** Synthesis of the Cyclohexane Part of Phoslactomycins and Leustroducsins (Department of Biomolecular Engineering; Tokyo Institute of Technology) KOBAYASHI, Yuichi; OGAWA, Narihito; MURAKAMI, Takumi; NURUZZAMAN, Muhammad
- 2A5-32** Synthetic Study of Leustroducsin B (Tokyo Institute of Technology) MURAKAMI, Takumi; OGAWA, Narihito; NURUZZAMAN, Muhammad; KOBAYASHI, Yuichi
- 2A5-33#** Asymmetric Total synthesis of FD-838. (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; SANKAR, Kuppusamy; ISHIKAWA, Hayato; NOZAWA, Yuriko; MIZOUE, Kazutoshi; KAKEYA, Hideaki

Chair: SUENAGA, Kiyotake (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(2A5-35, 2A5-36, 2A5-37, 2A5-38, 2A5-39, 2A5-40)

- 2A5-35** Total Synthesis of a Neopeltolide Analogue (Graduate School of Life Sciences, Tohoku Univ.) SAITO, Asami; FUWA, Haruhiko; SASAKI, Makoto
- 2A5-36** Convergent Synthesis of the C15-C36 Segment of Goniodomin A (Graduate School of Life Sciences, Tohoku Univ.) SAITO, Tomoyuki; FUWA, Haruhiko; SASAKI, Makoto
- 2A5-37** Synthetic study of Arenicolide C (Kogakuin Univ.) YAMADA, Haruki; NAGUMO, Shinji; MIYASHITA, Masaaki
- 2A5-38†** Synthetic Study of Lepranthin (Kogakuin Univ.) TAKADA, Hisashi; NAGUMO, Shinji; MIYASHITA, Masaaki
- 2A5-39** Synthetic Studies on the C9-C28 Subunit of Didemnaketal B (Graduate School of Life Sciences, Tohoku Univ.) NOJI, Sayaka; FUWA, Haruhiko; SASAKI, Makoto
- 2A5-40** Total Synthesis of (-)-Aspergillide B (Graduate School of Life Sciences, Tohoku Univ.) YAMAGUCHI, Hiroshi; FUWA, Haruhiko; SASAKI, Makoto

Chair: SASAKI, Makoto (15:50~16:40)

\* 15:40-15:50: interval for laptop PC connection.(2A5-42, 2A5-43, 2A5-44, 2A5-45, 2A5-46)

- 2A5-42** Synthetic Study of Phoslactomycin B Based on Asymmetric C-C Bond Forming Reactions Catalyzed by BINOL-Ti and BINAP-Pd Catalysts (Graduate School of Science and Engineering, Tokyo Institute of Technology) NUMATA, Yukinobu; AIKAWA, Kohsuke; MIKAMI, Koichi
- 2A5-43** Synthetic Study of Coronatine starting with the Monoacetate of the Cyclopentene-1,3-diol (Department of Biomolecular Engineering; Tokyo Institute of Technology) KOSAKI, Yusuke; OGAWA, Narihito; KOBAYASHI, Yuichi
- 2A5-44** Total synthesis of auripyrones A and B and determination of the absolute configuration of auripyrene B (Univ. of Tsukuba) TAKEMURA, Takuma; FUKASAWA, Emi; EBIHARA, Yuta; SATO, Natsuki; NAKAMURA, Takayasu; SUENAGA, Kiyotake; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 2A5-45** Synthetic study on Biselyngbyaside, a Macrolide Glycoside (Faculty of Science and Technology, Keio Univ.) NAKAJIMA, Naoya; OKUBO, Akihumi; SUENAGA, Kiyotake
- 2A5-46** Synthetic studies on Reidispondiolide A, an actin-depolymerizing Macrolide (Faculty of Science and Technology, Keio Univ.) AKIYAMA, Satoshi; TORIIHARA, Eisuke; SUZUKI, Kazushi; TERUYA, Toshiaki; SUENAGA, Kiyotake

Chair: FUWA, Haruhiko (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(2A5-48, 2A5-49, 2A5-50, 2A5-51)
- 2A5-48** Synthetic studies of Amphidinolide T1 using palladium-catalyzed reactions (Waseda Univ.) UTSUMI, Takamitsu; SAITOU, Morihisa; OGAWA, Ryohei; SHIMIZU, Isao
- 2A5-49** Study on the target molecules of an anticancer macrolide aplyronine A by using a biotin probe(1) (Univ. of Tsukuba) SUGIYAMA, Miyuki; HIRAYAMA, Yuichiro; SAITOU, Yuki; KITA, Masaki; KIGOSHI, Hideo
- 2A5-50** Study on the Target Proteins of an Anticancer Macrolide Aplyronine A with a Photoaffinity Probe (Univ. of Tsukuba) HIRAYAMA, Yuichiro; SUGIYAMA, Miyuki; SAITO, Yuki; KITA, Masaki; KIGOSHI, Hideo
- 2A5-51** Synthetic study on Omaezallene (Hokkaido Univ.) UMEZAWA, Taiki; SUZUKI, Masahiro; MATSUDA, Fuyuhiko

## Sunday, March 28, AM

### Polyether

Chair: FUJIWARA, Kenshu (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3A5-01, 3A5-02, 3A5-03, 3A5-04, 3A5-05, 3A5-06)
- 3A5-01** Synthetic Study of Maitotoxin UVWXYZ-Ring (Faculty of Science, Tokyo Univ. of Science) MAEMOTO, Michihiro; HAKETA, Tasaku; NAKATA, Tadashi
- 3A5-02** Synthetic study of the ABCDEF-Ring of Maitotoxin (Faculty of Science, Tokyo Univ. of Science) HATTORI, Hideaki; SATOH, Masanori; NAKATA, Tadashi
- 3A5-03** Synthetic Study of Maitotoxin A-Ring Side Chain (Faculty of Science, Tokyo Univ. of Science) KAMIYAMA, Toshihiko; KIMISHIMA, Atsushi; NAKATA, Tadashi
- 3A5-04** Synthetic Studies of the C'D'E'F'-Ring System of Maitotoxin (Osaka Univ.) OSHIMA, Takahiro; NAKASHIMA, Takeharu; MURATA, Michio; OISHI, Tohru
- 3A5-05** Synthetic Study of the HIJKLM Ring Segment of Ciguatoxin CTX3C (Tohoku Univ.; Okayama Univ.) ABE, Takashi; NISHIUMA, Naoki; TSUKESHIBA, Takahiko; TAKAMURA, Hiroyoshi; KADOTA, Isao; YAMAMOTO, Yoshinori
- 3A5-06** Synthetic Studies of Caribbean Ciguatoxin M-ring Utilizing [2+2] Photocyclization (Graduate School of Science, Tohoku Univ.) IJIMA, Naoya; SHIDA, Takahiro; YAMASHITA, Shuji; HIRAMA, Masahiro

Chair: YAMASHITA, Shuji (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3A5-08, 3A5-09, 3A5-10, 3A5-11, 3A5-12, 3A5-13)
- 3A5-08** Synthesis of the BC-Ring of Armatol F and an Approach to the D-Ring Formation (Grad. Sch. of Science, Hokkaido Univ.; PRESTO, JST) FUJIWARA, Kenshu; TANAKA, Keita; KATAGIRI, Yasushi; KAWAI, Hidetoshi; SUZUKI, Takanori
- 3A5-09** Efforts toward Synthesis of the A-Ring of Armatol F (Grad. Sch. of Science, Hokkaido Univ.; PRESTO, JST) FUJIWARA, Kenshu; HIROSE, Yuta; SATO, Daisuke; KAWAI, Hidetoshi; SUZUKI, Takanori
- 3A5-10** Improved Synthesis of the EF-ring of Ciguatoxin 3C (Grad. Sch. of Science, Hokkaido Univ.; PRESTO, JST) FUJIWARA, Kenshu; NOGOSHI, Keisuke; DOMON, Daisuke; KAWAI, Hidetoshi; SUZUKI, Takanori
- 3A5-11**† Synthesis of the E Ring Segment of Ciguatoxin CTX3C (Okayama Univ.; Tohoku Univ.) SATO, Yuki; IZUKA, Hiroaki; SHIROMA, Kengo; TAKAMURA, Hiroyoshi; KADOTA, Isao; YAMAMOTO, Yoshinori
- 3A5-12** Synthetic Study of the EFGH Ring Segment of Ciguatoxin CTX3C (Okayama Univ.; Tohoku Univ.) FUJITA, Naoya; SATO, Yuki; TAKAMURA, Hiroyoshi; KADOTA, Isao; YAMAMOTO, Yoshinori
- 3A5-13** Screening of dodecapeptide library for high affinity motifs to the ladder shaped polyether based on phage display strategy (Graduate School of Science, Osaka Univ.) TAMATE, Rie; UJIHARA, Satoru; KONOKI,

Keiichi; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio

Chair: KADOTA, Isao (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3A5-15, 3A5-16, 3A5-17, 3A5-19, 3A5-20)
- 3A5-15** Convergent Synthesis of the A/BCD-ring Fragment of Gambieric Acid A (Graduate School of Life Sciences, Tohoku Univ.) ISHIGAI, Kazuya; FUWA, Haruhiko; SASAKI, Makoto
- 3A5-16** Synthetic Studies on the GHIJ-Ring Fragment of Gambieric Acids (Graduate School of Life Sciences, Tohoku Univ.) Tsubone, Koichi; HASHIZUME, Keisuke; FUWA, Haruhiko; SASAKI, Makoto
- 3A5-17**\* Synthetic Studies on Brevisin, a New Polycyclic Ether from a Dinoflagellate *Karenia brevis* (School of Science, The Univ. of Tokyo) KURANAGA, Takefumi; OHTANI, Naohito; TSUTSUMI, Ryosuke; SATAKE, Masayuki; WRIGHT, J. L. C.; TACHIBANA, Kazuo
- 3A5-19** The synthesis of D-ribose and spiro C-arylated glycoriboside analogues using Pd (II) catalyzed cyclization (Univ. of Toyama) MIYAZAWA, Masahiro; AWASAGUCHI, Kenichiro; UOYA, Ikuyo; YOKOYAMA, Hajime; HIRAI, Yoshiro
- 3A5-20** Development of the Pd(II)-catalyzed cyclization and its application to the synthetic studies of ABCD ring of Yessotoxin (Univ. of Toyama) YOKOYAMA, Hajime; KUSUMOTO, Yasuhiro; SUMIYOSHI, Koujiro; MIYAZAWA, Masahiro; HIRAI, Yoshiro

## Sunday, March 28, PM

### Polyether, Polyketide

Chair: OHISHI, Tohru (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3A5-28, 3A5-29, 3A5-30, 3A5-31, 3A5-32)
- 3A5-28** Studies toward the Total Synthesis of a Marine Toxin Polycavernoside A (Graduate School of Life Sciences, Tohoku Univ.) KASAI, Yusuke; SASAKI, Makoto
- 3A5-29** Improved Synthesis of brevisamide, a Marine Monocyclic Ether Amide from a Dinoflagellate *Karenia brevis* (The Univ. of Tokyo) TSUTSUMI, Ryosuke; KURANAGA, Takefumi; SHIRAI, Tomohiro; SATAKE, Masayuki; WRIGHT, Jeffrey L. C.; TACHIBANA, Kazuo
- 3A5-30** Synthetic Studies of an Oxidized Monogalactosyl Diacyl Glycerol (Grad. School of Science, Hokkaido Univ.; PRESTO, JST) FUJIWARA, Kenshu; KINASHI, Naoto; KAWAI, Hidetoshi; SUZUKI, Takanori
- 3A5-31** Synthetic Studies of Prorocentrin toward Determination of Absolute Stereochemistry (Grad. School of Science, Hokkaido Univ.; PRESTO, JST) KATAGIRI, Yasushi; FUJIWARA, Kenshu; TAKEMURA, Atsushi; KAWAI, Hidetoshi; SUZUKI, Takanori
- 3A5-32**\* Studies toward the total synthesis of laurenenyne (Aoyama Gakuin Univ.) TSUJIMOTO, Takashi; SUGIMURA, Hideyuki

Chair: MIYAZAWA, Masahiro (17 : 00~17 : 40)

- \* 16:50-17:00: interval for laptop PC connection.(3A5-49, 3A5-51, 3A5-52)
- 3A5-49**\*† Stereostructural Analysis of Prorocentrol from an Epiphytic Dinoflagellate *Prorocentrum hoffmannianum* (School of Science, The Univ. of Tokyo) SUGAHARA, Kohtarō; KITAMURA, Yoshiaki; SATAKE, Masayuki; TACHIBANA, Kazuo
- 3A5-51** Isolation and properties of new polyoxy compounds from a red dinoflagellate collected in New Zealand (The Univ. of Tokyo; Cawthron Institute) HAMAMOTO, Yuka; SATAKE, Masayuki; TACHIBANA, Kazuo; HOLLAND, Patrick; BEUZENBERG, Veronica
- 3A5-52** Stereoselective Synthesis of Substituted Tetrahydropyrans by Means of a Domino Reaction (Graduate School of Life Sciences, Tohoku Univ.) NOTO, Kenkichi; FUWA, Haruhiko; SASAKI, Makoto

Chair: SUGIMURA, Hideyuki (17 : 50~18 : 30)

- \* 17:40-17:50: interval for laptop PC connection.(3A5-54, 3A5-55, 3A5-56, 3A5-57)
- 3A5-54** Convergent synthesis of 2,3-dihydropyran-4-ones via Sonogashira coupling of thiol esters (Graduate School of Life Sciences, Tohoku Univ.) MATSUKIDA, Seiji; FUWA, Haruhiko; SASAKI, Makoto
- 3A5-55**† Synthetic Studies on Polycyclic Ether via Tandem Radical Cyclization (Graduate School of Science, Tohoku Univ.) ISHIIHARA, Yuuki; YAMASHITA, Shuji; HIRAMA, Masahiro
- 3A5-56** A New Method for the Angular Methyl Insertion to Fused Cyclic Ethers (Okayama Univ.) KISHI, Takayuki; FUJISAWA, Yuka; YAMAGAMI, Yuji; TAKAMURA, Hiroyoshi; KADOTA, Isao
- 3A5-57** Novel Stereoselective Synthesis of the Spiroketal Structure by Cascade Cyclization Using Pd (II)-catalyst (Univ. of Toyama) MIYAZAWA, Masahiro; EIZAWA, Toru; YOKOYAMA, Hajime; HIRAI, Yoshiro

## Monday, March 29, AM

Chair: SATAKE, Masayuki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4A5-01, 4A5-02, 4A5-03, 4A5-05, 4A5-06)
- 4A5-01** Orientation analysis of amide group of sphingomyelin in lipid raft using solid state NMR (Osaka Univ.) MAETA, Yoshiko; YAMAGUCHI,



Toshiyuki; SUZUKI, Takashi; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio

- 4A5-02** Analysis of orientation of sphingomyelin in lipid raft using solid state NMR. (Osaka Univ.) SUZUKI, Takashi; YAMAGUCHI, Toshiyuki; MAETA, Yoshiko; OKAZAKI, Hiroki; DOI, Mototsugu; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio
- 4A5-03\***† NMR-based conformational analysis of sphingomyelin in lipid bilayer (Osaka Univ.) YAMAGUCHI, Toshiyuki; SUZUKI, Takashi; MAETA, Yoshiko; OKAZAKI, Hiroki; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio
- 4A5-05** Evaluation of the interaction between ladder shaped polyether compounds yessotoxin and Ras family proteins (Osaka Univ.) UJIHARA, Satoru; TAMATE, Rie; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio; SUGIYAMA, Naoyuki; ISHIHAMA, Yasushi; TOMITA, Masaru
- 4A5-06** Molecular mechanism of inflammatory substances, complanines (Keio Univ.; Nagoya Univ.; Saitama Cancer Center) NAKAMURA, Kazuhiko; OHNO, Osamu; TACHIKAWA, Yu; SUGANUMA, Masami; UEMURA, Daisuke

Chair: OHISHI, Tohru (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4A5-08, 4A5-10, 4A5-11, 4A5-13)

- 4A5-08\***† Biosynthetic Studies on Yessotoxin, a Ladder-Frame Polyether Produced by a Dinoflagellate *Protoceratium reticulatum* (Sch. of Sci., The Univ. of Tokyo) YAMAZAKI, Masatoshi; SATAKE, Masayuki; TACHIBANA, Kazuo
- 4A5-10** Synthesis of Plausible Biosynthetic Precursors of Brevisamide to Elucidate a Biosynthetic Pathway of Polycyclic Ethers (The Univ. of Tokyo) SHIRAI, Tomohiro; KURANAGA, Takefumi; WRIGHT, J.L.C.; SATAKE, Masayuki; TACHIBANA, Kazuo
- 4A5-11\***† Synthetic Study of C-1027 Chromophore (Graduate School of Science, Tohoku Univ.) TAMURA, Yukio; KAWAGUCHI, Teruko; HIRAI, Keiichiro; HIRAKAWA, Fumiya; SATO, Itaru; HIRAMA, Masahiro
- 4A5-13** Synthetic Study of Cyanosporasides (Graduate School of Science, Tohoku Univ.) YAMAGUCHI, Takaya; TONOSAKI, Keiju; SATO, Itaru; HIRAMA, Masahiro

Chair: SATO, Itaru (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(4A5-15, 4A5-17, 4A5-19, 4A5-20)

- 4A5-15\*** Withdrawn
- 4A5-17\*** Synthetic study of seragakinone A (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) TAKADA, Akiomi; TAKIKAWA, Hiroshi; HASHIMOTO, Yoshimitsu; SUZUKI, Keisuke
- 4A5-19** Synthetic Study on Antibiotic BE-43472B (Graduate School of Science and Technology, Tokyo Institute of Technology) YAMASHITA, Yu; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 4A5-20** Total Synthesis of Macrocidin A (Graduate School of Science and Technology, Tokyo Institute of Technology) YOSHINARI, Tomohiro; OHMORI, Ken; SUZUKI, Keisuke

## Monday, March 29, PM

Chair: YAMADA, Hidetoshi (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4A5-28, 4A5-29, 4A5-30, 4A5-31, 4A5-32, 4A5-33)
- 4A5-28** Synthetic studies on a hybrid compound of alyronine A and mycalolide B (Univ. of Tsukuba) KOBAYASHI, Kenichi; FUJII, Yusuke; KOBAYASHI, Shinichi; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 4A5-29** Synthetic Studies on Mycalolide B, an Actin-depolymerizing Marine Macrolide (Univ. of Tsukuba) ISHITSUKA, Tomoya; MOGI, Yuzo; WATANABE, Hidekazu; KITA, Masaki; KIGOSHI, Hideo
- 4A5-30** Stereoselective Synthesis of the C14-C24 Fragment of Symbiodinolide (Okayama Univ.) KADONAGA, Yuichiro; TAKAMURA, Hiroyoshi; KADOTA, Isao; UEMURA, Daisuke
- 4A5-31** Synthetic Study of the C94-C104 Fragment of Symbiodinolide (Okayama Univ.; Keio Univ.) TSUDA, Kosuke; TAKAMURA, Hiroyoshi; KADOTA, Isao; UEMURA, Daisuke
- 4A5-32** Total Synthesis of Pyranicin (Graduate School of Natural Science and Technology, Okayama Univ.) YAMAGAMI, Yuji; ITO, Satoshi; NAKAHARA, Chizuru; TAKAMURA, Hiroyoshi; KADOTA, Isao
- 4A5-33** A Convenient Synthesis of (-)-Malynamide : Diastereomeric Separation of Key Intermediates (The Univ. of Shiga Pref.) IZUMI, Yuichi; MATSUMOTO, Takatoshi; TAKESHITA, Mitsuhiko; WATANABE, Masataka; KUMAGAI, Tsutomu; INOUE, Yoshinori

Chair: OHISHI, Tohru (14 : 40~15 : 30)

\* 14:30-14:40: interval for laptop PC connection.(4A5-35, 4A5-36, 4A5-37, 4A5-38, 4A5-39)

- 4A5-35** Alkylation of cyclopentadiene and its synthetic application (Okayama Univ. of Science; Faculty of Engineering) OMATSU, Rikiya; KUNITADA, Takahiro; INOKUCHI, Tsutomu; NOKAMI, Junzo
- 4A5-36** Short-step total synthesis of a 3,6-hexahydroxydiphenyl bridged ellagitannin, (-)-corilagin (School of Science and Technology, Kwansai Gakuin Univ.) TANIGAWA, Kotaro; ASAKURA, Noriaki; YAMADA,

Hidetoshi

- 4A5-37** Total synthesis of a 2,3-hexahydroxydiphenyl bridged ellagitannin, (+)-Pracocoxin B. (School of Science and Technology, Kwansai Gakuin Univ.) HIROKANE, Tsukasa; MICHIHATA, Naoki; ASAKURA, Noriaki; MITAMURA, Takashi; YAMADA, Hidetoshi
- 4A5-38** Five-step-synthesis of a 1,6-hexahydroxydiphenyl bridged ellagitannin, (+)-davidiin (School of Science and Technology, Kwansai Gakuin Univ.) FUJIMOTO, Shohei; ASHIBE, Seiya; ASAKURA, Noriaki; YAMADA, Hidetoshi
- 4A5-39** Development of Practical Synthesis of Hericenones (Graduate School of Science, Osaka Prefecture Univ.) ANDO, Ami; KOBAYASHI, Shoji; RYU, Ilhyong

Chair: KOBAYASHI, Shoji (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(4A5-41, 4A5-42, 4A5-43, 4A5-44, 4A5-45)
- 4A5-41**† Synthesis of a Novel Juvenile Hormone (JHSB<sub>3</sub>) Analogs and their Juvenilizing Effects (Graduate School of Sci., Osaka City Univ.; National Institute of Agrobiological Sciences) KAIHARA, Kanako; SHINADA, Tetsuro; OHFUNE, Yasufumi; NUMATA, Hideharu; KOTAKI, Toyomi
- 4A5-42** Synthesis of the C43-C67 Moiety of Amphidinol 3 (Osaka Univ.) KANEMOTO, Mitsunori; MATSUMORI, Nobuaki; MURATA, Michio; OISHI, Tohru
- 4A5-43** Synthesis of double labeled amphotericin B for structure analysis of ion channel complex (Graduate School of Science, Osaka Univ.) MATSUO, Yukiko; MATSUSHITA, Naohiro; MATSUMORI, Nobuaki; MURATA, Michio; OISHI, Tohru
- 4A5-44** Synthesis of carbon13 and fluorine labeled AmphotericinB aiming at analysis of its complex structure. (Osaka Univ.) ADACHI, Takeshi; UMEGAWA, Yuichi; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio
- 4A5-45** Roles of polar heads of phospholipids in interacting with amphotericin B (Osaka Univ.) TAKANO, Tetsuro; MATSUMORI, Nobuaki; MURATA, Michio

## Room B1 Bldg.21 422

## Natural Products Chemistry

Saturday, March 27, AM

### Amino Acid, Peptide

Chair: SHINADA, Tetsuro (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** First total Synthesis of antimalarial natural product, Aerucyclamide C (Kanagawa Univ.) KIKUCHI, Mai; KOBAYASHI, Keita; AKAI, Shouji; SATO, Kenichi
- 2B1-02** Synthesis and Structure of Cyclic Peptides Consisted of Anthranilic Acid and Leucine (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; ENZU, Masashi; MATSUMOTO, Shoji
- 2B1-03**† Synthetic Study of Acromelic Acid Derivatives (School of Pharmaceutical Sciences, Univ. of Shizuoka) HIGASHI, Takumi; ISOBE, Youichiro; OKAZAKI, Yuko; WAKIMOTO, Toshiyuki; FURUTA, Takumi; KAN, Toshiyuki
- 2B1-04** Synthesis of palau'amide and its diastereomers: Confirmation of its stereostructure (Faculty of Science and Technology, Keio Univ.) WATANABE, Atsushi; SUGIYAMA, Hirokazu; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 2B1-05** Synthetic study on Bisebromoamide, a Novel Acyclic Peptide (Faculty of Science and Technology, Keio Univ.) WATANABE, Atsushi; TODOROKI, Seiji; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 2B1-06** Synthetic study on Miuraenamide A, an antimicrobial cyclic depsipeptide (Faculty of Science and Technology, Keio Univ.) TOKUZUMI, Keita; TORIHIRA, Eisuke; TERUYA, Toshiaki; SUENAGA, Kiyotake

Chair: SUENAGA, Kiyotake (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** Synthetic Study of natural product possessing 1,2-diaminostructure. (Kochi Univ.) KUSABA, Shouhei; ICHIKAWA, Yoshiyasu
- 2B1-09** Synthetic Studies of Mannostatin A (Kochi Univ.) SAKIYAMA, Naoto; ICHIKAWA, Yoshiyasu
- 2B1-10** Synthesis of Marine Natural Product Possessing Asymmetric Quaternary Carbon Center Attached to Nitrogen (Kochi Univ.) MATSUDA, Yasunori; ICHIKAWA, Yoshiyasu; OKUMURA, Ken
- 2B1-11** Synthetic Study of 3-deoxy-Kaitocephalin (Graduate School of Sci., Osaka City Univ.) OCHI, Saori; HAMADA, Makoto; SHINADA, Tetsuro; OFUNE, Yasufumi

- 2B1-12** Synthetic Study of New Glutamate Analogue Possessing Right-half Segment of Kaitocephalin (Graduate School of Sci., Osaka City Univ.) YASUNO, Yoko; HAMADA, Makoto; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 2B1-13<sup>†</sup>** Stereoselective Synthesis of *E*-dehydroamino Acid Ester Using (Diphenylphosphono)glycine Derivatives (Graduate School of Sci., Osaka City Univ.) HAMADA, Makoto; SHINADA, Tetsuro; OHFUNE, Yasufumi

Chair: ICHIKAWA, Yoshiyasu (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(2B1-15, 2B1-16, 2B1-17, 2B1-18, 2B1-19)
- 2B1-15<sup>†</sup>** Advanced glycation end products of collagen model peptides that are responsible for dimerization (Graduate School of Science, Osaka Univ.) KITAMURA, Asuka; MATSUI, Kohta; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio; KAWAKAMI, Toru; AIMOTO, Saburo
- 2B1-16** *N*-terminal of blepharone, a conjugation-inducing pheromone of *Blepharisma japonicum* (Graduate School of Science, Osaka City Univ.) YAMAGISHI, Yoshiyuki; YOSHIOKA, Koichi; USUKI, Yoshinosuke; IIO, Hideo
- 2B1-17** Synthesis of immunostimulating bacterial cell wallpeptidoglycan partial structures containing lanthionine (Dept. Chem., Grad. Sch. Sci., Osaka Univ.) OTSUKA, Yuji; KAWASAKI, Akiko; KARASUDANI, Yukie; ITO, Yoko; HASEGAWA, Mizuho; INOHARA, Naohiro; FUJIMOTO, Yukari; FUKASE, Koichi
- 2B1-18** Synthesis of Optically Active Allenylsilane-containing alpha-Amino Acids via Enolate Claisen Rearrangement of alpha-Acyloxy-alpha-alkynylsilanes (Graduate School of Sci., Osaka City Univ.) OKADA, Takuya; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi
- 2B1-19** Synthesis of optically active  $\alpha$ -Allenylglycine (Graduate School of Sci., Osaka City Univ.) ODA, Naoko; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi

## Saturday, March 27, PM

### Amino Acid, Peptide

Chair: FUJIMOTO, Yukari (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(2B1-27, 2B1-28, 2B1-29, 2B1-30, 2B1-31, 2B1-32)
- 2B1-27** Transformation of Vinylsilane into  $\alpha$ -Substituted- $\alpha$ -Amino Acid and Synthesis of  $\alpha$ -Substituted-Pyroglutamic Acid (Graduate School of Sci., Osaka City Univ.) AMAO, Akihito; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi
- 2B1-28** Synthetic Study of  $\alpha$ -Aminosquaric Acid-containing Peptide Toward Solid Phase Synthesis (Graduate School of Sci., Osaka City Univ.) KINIWA, Yuuichi; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 2B1-29** Peptide purification using a 2-nitrobenzyl carbamate photocleavable linker (Institute for Protein Research, Osaka Univ.) HARA, Toshiaki; TAINOSYO, Akira; KAWAKAMI, Toru; AIMOTO, Saburo
- 2B1-30** Preparation of peptide thioesters using *N*-S acyl shift reaction at the cysteinyl prolyl cysteine position (Institute for Protein Research, Osaka Univ.) SHIMIZU, Sakiko; AIMOTO, Saburo; KAWAKAMI, Toru
- 2B1-31** Peptide thioester synthesis via an *N*-S acyl shift reaction, followed by a spontaneous pyroglutamation. (Institute for Protein Research, Osaka Univ.) NAKAMURA, Ken'ichiro; KANAO, Tomoki; HARA, Toshiaki; SATO, Takeshi; KAWAKAMI, Toru; AIMOTO, Saburo
- 2B1-32<sup>#</sup>** Folding Reaction of Human beta Defensin-2 in the Presence of Phospholipid Membrane (Institute for Protein Research, Osaka Univ.) PURWATI, Euis Maras; HARA, Toshiaki; KAWAKAMI, Toru; AIMOTO, Saburo

### Miscellaneous

Chair: ARIMOTO, Hirokazu (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(2B1-34, 2B1-36, 2B1-37, 2B1-38, 2B1-39)
- 2B1-34\*** Efficient Total Synthesis of Kainic Acid (Graduate School of Science, Osaka City Univ.) OE, Kentaro; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 2B1-36** Synthetic study of molecular probes of glaziovianin A as a ligand (Univ. of Tsukuba) IKEDO, Akiyuki; HAYAKAWA, Ichiro; KAZAMI, Sayaka; USUI, Takeo; KIGOSHI, Hideo
- 2B1-37** Studies on the inflammatory substances from an alcyonarian coral (Univ. of Tsukuba) TOMITA, Keisuke; NAGANO, Yoshihito; KITA, Masaki; KIGOSHI, Hideo
- 2B1-38** Reduction of vinyl groups in naturally occurring chlorophylls (Ritsumeikan Univ.) TAMIAMI, Hitoshi; TAKEKOSHI, Daisuke; MIZOGUCHI, Tadashi
- 2B1-39** Synthesis and physical properties of pheophytin derivatives possessing a C=S bond (Ritsumeikan Univ.) TAMIAMI, Hitoshi; YOSHIZATO, Mari; KUNIEDA, Michio; SASAKI, Shin-ichi

Chair: KIGOSHI, Hideo (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(2B1-41, 2B1-43, 2B1-44, 2B1-45, 2B1-46)
- 2B1-41\*** Determination of the Absolute Configurations of Chiral Amines by

<sup>1</sup>H-NMR (Aoyama Gakuin Univ.) FUKUI, Hiroki; KIMURA, Junji

- 2B1-43** Synthesis of lipid I analogue of vancomycin-resistant bacteria (Graduate School of Life Sciences, Tohoku Univ.) NAKAMURA, Jun; MIYA, Hiroto; INO, Akira; ARIMOTO, Hirokazu
- 2B1-44** Medicinal chemistry of vancomycin using Pd-mediated cross-coupling (2). (Graduate School of Life Sciences, Tohoku Univ.) NAKAMA, Yuki; YOSHIDA, Osamu; SAWADA, Yuri; TOYAMA, Takayuki; MIURA, Kenji; MAKI, Hideki; KYO, Jutsu; ARIMOTO, Hirokazu
- 2B1-45** Photoaffinity labeling of bacterial membrane proteins with vancomycin derivatives (Graduate School of Life Sciences, Tohoku Univ.) ICHIKAWA, Ryota; NAKAMURA, Jun; MIURA, Kenji; MAKI, Hideki; ARIMOTO, Hirokazu
- 2B1-46** One-pot ozonolysis-Clemmensen reduction for reductive cleavage of olefins (Graduate School of Life Sciences, Tohoku Univ.) TOYAMA, Takayuki; NAKAMURA, Jun; XU, Shu; ARIMOTO, Hirokazu

Chair: KITA, Masaki (16 : 50~17 : 50)

- \* 16:40-16:50: interval for laptop PC connection.(2B1-48, 2B1-49, 2B1-50, 2B1-51, 2B1-52, 2B1-53)
- 2B1-48<sup>†</sup>** Elucidation of endogenous nitro nucleotide metabolites using chemical probes (Graduate School of Life Sciences, Tohoku Univ.; Graduate School of Medical Sciences, Kumamoto Univ.) SAITO, Yohei; ITO, Chiaki; SAWA, Tomohiro; AKAIKE, Takaaki; ARIMOTO, Hirokazu
- 2B1-49** Synthesis of porphyrin derivatives as labeling markers and their catalytic activity for chemiluminescence (School of Science, The Univ. of Tokyo) OKUYAMA, Kimihiro; FUKUZAWA, Seketsu; TACHIBANA, Kazuo
- 2B1-50** Studies on Cytotoxic Compounds from Blue-Green Algae (Nagoya Univ.; Keio Univ.) MARU, Norihito; YAMADA, Kaoru; OHNO, Osamu; UEMURA, Daisuke
- 2B1-51** Cytotoxic compounds from marine sponge (Waseda Univ.; Lab of Chemical Biology) KATSUMATA, Ryosuke; NAKAO, Yoichi
- 2B1-52** A cytotoxic compound from the marine sponge (Waseda Univ.; Lab of Chemical Biology) MAEJIMA, Hiroshi; WATABE, Yuki; NAKAO, Yoichi
- 2B1-53** Isolation and Structure of a Novel MacrolideGlycoside from Marine Cyanobacteria (Faculty of Science and Technology, Keio Univ.) MORITA, Maho; TERUYA, Toshiaki; SUENAGA, Kiyotake

## Biofunctional Chemistry ; Biotechnology

### Sunday, March 28, AM

#### Protein, Enzyme

Chair: MIZUKAMI, Shin (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3B1-01, 3B1-03, 3B1-05, 3B1-06)
- 3B1-01\*** Development of novel peptide screening method by using multiple fluorescent amino acids. (Okayama Univ.) KITAMATSU, Mizuki; SISIDO, Masahiko
- 3B1-03\*** Synthetic molecules for biomolecular chemistry 1 : In vitro / in cell mechanisms of protein <sup>19</sup>F-labeling by self-assembling LDT reagents (Kyoto Univ.) TAKAOKA, Yousuke; TSUKIJI, Shinya; HAMACHI, Itaru
- 3B1-05** Synthetic molecules for biomolecular chemistry 2: Construction of semisynthetic fluorescent biosensors with Ligand-Directed Tosyl(LDT) chemistry (Grad. Sch. Eng., Kyoto Univ.) KIOI, Yoshiyuki; TAMURA, Tomonori; TAKAOKA, Yousuke; TSUKIJI, Shinya; HAMACHI, Itaru
- 3B1-06** Synthetic molecules for biomolecular chemistry 3: Ligand-Directed Tosylate (LDT) Probes for Chemical FKBP12 Labeling (Grad. Sch. Eng., Kyoto Univ.) TAMURA, Tomonori; TSUKIJI, Shinya; HAMACHI, Itaru

Chair: SUEDA, Shinji (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3B1-08, 3B1-09, 3B1-10, 3B1-11, 3B1-12, 3B1-13)
- 3B1-08** Quantitative Analysis for Interactions of Short Helical Peptides with DNAs by FRET (Grad. Sch. Pharm. Sci., Univ. of Toyama) KAJINO, Masaaki; FUJIMOTO, Kazuhisa; INOUE, Masahiko
- 3B1-09** Immobilization of short helical peptides with a ferrocene skeleton upon Au surface and their electrochemical responses (Grad. Sch. Pharm. Sci., Univ. of Toyama) FUKASAWA, Toshiaki; FUJIWARA, Masashi; FUJIMOTO, Kazuhisa; INOUE, Masahiko
- 3B1-10** Development of a new class of photoresponsive peptides with a diarylethene-based non-natural amino acid residue (Grad. Sch. Pharm. Sci., Univ. of Toyama) OKADA, Yohei; FUJIMOTO, Kazuhisa; INOUE, Masahiko
- 3B1-11** Selective labeling of cell surface receptor proteins using the reactive tag system (Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) TSUTSUMI, Hiroshi; NAKANO, Katsuya; NONAKA, Hiroshi; UCHINOMIYA, Shohei; FUJICHIMA, Shohei; OJIDA, Akio; HAMACHI, Itaru
- 3B1-12** Local environment sensing around cell surface proteins using the reactive tag (Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) NAKANO, Katsuya; TSUTSUMI, Hiroshi; NONAKA, Hiroshi; UCHINOMIYA, Shohei; FUJISHIMA, Shohei; OJIDA, Akio;

HAMACHI, Itaru

**3B1-13** Development of a new reactive probe using imidazole-N-carboxy ester type (Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) YASUI, Ryosuke; FUJISHIMA, Shohei; OJIDA, Akio; HAMACHI, Itaru

Chair: KOBATAKE, Eiry (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(3B1-15, 3B1-16, 3B1-17, 3B1-19)

**3B1-15** Development of a Reactive Tag System for His Tag Fused Proteins with a High Affinity and High Reactivity (Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) UCHINOMIYA, Shohei; NONAKA, Hiroshi; OJIDA, Akio; HAMACHI, Itaru

**3B1-16** Development of a Novel Zinc Complex for Fluorescent Imaging of His Tag Fused Proteins (Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) KATSUMA, Nozomi; FUJISHIMA, Shohei; OJIDA, Akio; HAMACHI, Itaru

**3B1-17\*** Site-specific incorporation of two fluorescent nonnatural amino acids into proteins for single-molecule FRET measurements (JAIST) TOKUDA, Yasunori; HOHSAKA, Takahiro

**3B1-19\*** Application of amyloid protein cytotoxicity biosensing for theranostics (Dept. of Biotechnol., Tokyo Univ. of Agric. & Technol.) KIM, Jihoon; INADA, Masaki; MIYAUURA, Chisato; IKEBUKURO, Kazunori; SODE, Koji

## Sunday, March 28, PM

### Protein, Enzyme

Chair: SODE, Koji (13:30~14:40)

\* 13:20-13:30: interval for laptop PC connection.(3B1-28, 3B1-29, 3B1-30, 3B1-31, 3B1-32, 3B1-34)

**3B1-28** Construction and characterization of gene deletion mutant of *mms6* that involved in iron oxide formation in magnetotactic bacteria (Tokyo Univ. Agri. Tech.) MAZUYAMA, Eri; ARAKAKI, Atsushi; TANAKA, Masayoshi; MIYASAKA, Hitoshi; MATSUNAGA, Tadashi

**3B1-29** Purification and functional region analysis of Mms6 protein involved in iron oxide crystal formation (Tokyo Univ. Agri. Tech.) TAN, Chi Tze; ARAKAKI, Atsushi; NEMOTO, Michiko; ODAKA, Masafumi; OHTAKI, Akashi; YOHDA, Masafumi; MATSUNAGA, Tadashi

**3B1-30** Construction of novel functional matrices for nerve tissue engineering (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) SASAKI, Shoichi; MIE, Masayasu; NAKAMURA, Makiko; KOBATAKE, Eiry

**3B1-31** Detection of RNA by a bioluminescent assay coupled with modified primer extension reactions (BAMPER) (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) MASHIMO, Yasumasa; MIE, Masayasu; GOMI, Keiko; KOBATAKE, Eiry

**3B1-32\*** Thrombin binding aptamer-peptide conjugate for fluorescence imaging of a potassium ion in living cell (Kyushu Institute of Technology) OHTSUKA, Keichi; MATSUDA, Tomoki; NAGAI, Takeharu; SATO, Shinobu; TAKENAKA, Shigeori

**3B1-34** Fluorescence imaging of cell surface proteins using a unique biotinylation reaction (Kyushu Inst. of Tech.) HAYASHI, Hideki; YONEDA, Sawako; SUEDA, Shinji

Chair: TAKEYAMA, Haruko (17:00~18:30)

\* 16:50-17:00: interval for laptop PC connection.(3B1-49, 3B1-51, 3B1-52, 3B1-53, 3B1-54, 3B1-55, 3B1-56, 3B1-57)

**3B1-49\*** Preparation of Chitosanase LIPOzyme and Its Characterization (Div. of Chem. Eng., Grad. Sch. of Eng. Sci., Osaka Univ.) UMAKOSHI, Hiroshi; NGO, Kien Xuan; SHIMANOUCI, Toshinori; KUBOI, Ryoichi

**3B1-51** Cholesterol Oxidation by Abeta/Cu on Liposome Membrane (LIPOzyme IX) (Dept. Eng. Sci., Osaka Univ.) SHIMANOUCI, Toshinori; YOSHIMOTO, Noriko; UMAKOSHI, Hiroshi; KUBOI, Ryoichi

**3B1-52** Disaggregation of amyloid fibrils by catecholamines on lipid membranes (Dept. Eng. Sci., Osaka Univ.) SHIMANOUCI, Toshinori; VU, Thi Huong; UMAKOSHI, Hiroshi; KUBOI, Ryoichi

**3B1-53** The inhibition of  $\alpha$ -synuclein amyloid formation by PQQ-modified partial peptides fragments (Tokyo Univ. of Agric. & Technol., Graduate School of Engineering, Dep. Biotech.) KOBAYASHI, Natsuki; SASAKI, Yasuhiko; SODE, Koji

**3B1-54** Construction of fructosyl amino acid dehydrogenase via engineering of the marine yeast derived fructosyl amino acid oxidase (Dept. of Biotechnol., Tokyo Univ. of Agric. & Technol.) NIBE, Eri; KIM, Seungsu; MIYAMOTO, Yusuke; FERII, Stefano; TSUGAWA, Wakako; SODE, Koji

**3B1-55** Loop engineering of PQQ glucose dehydrogenase (I) (Dept. of Biotechnol., Tokyo Univ. of Agric. & Technol.) SODE, Koji; UMETA, Hideyo; NAGAE, Daichi; NAKAJIMA, Mitsuharu; ANZE, Yuki; MORI, Kazushige; HANAOKA, Shingo

**3B1-56** Loop engineering of PQQ glucose dehydrogenase (II) (Dept. of Biotechnol., Tokyo Univ. of Agric. & Technol.) SODE, Koji; NAGAE, Daichi; UMETA, Hideyo; NAKAJIMA, Mitsuharu; ANZE, Yuki; MORI, Kazushige; HANAOKA, Shingo

**3B1-57** Recombinant production of Glucose oxidase from *Penicillium*

*amagasakiense* (Dept. of Biotechnol., Tokyo Univ. of Agric. & Technol.) KOBAYASHI, Tomohiko; MORI, Kazushige; SODE, Koji

## Monday, March 29, AM

### Protein, Nucleic Acids

Chair: TAKAHASHI, Tsuyoshi (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4B1-01, 4B1-02, 4B1-03, 4B1-04, 4B1-05, 4B1-06)

**4B1-01** Synthesis and function of apoA-I fragment that accelerated removing cholesterol from cell (Fac. Sci., Fukuoka Univ.; Fac. Med., Fukuoka Univ.) ONIKI, Kousuke; ADACHI, Ryuta; ANDO, Stsuko; MATSUBARA, Kouki; UEHARA, Yoshinari; ZHANG, Bo; SAKU, Keijiro

**4B1-02** New detecting method of DNA methylation level using methyl CpG binding domain protein1. (Dept. of Biotechnol., Tokyo Univ. of Agric. & Technol.) IKEBUKURO, Kazunori; HIRAOKA, Daisuke; YOSHIDA, Wataru; HATA, Kenichiro

**4B1-03** Ion Channel Activity of Cationic and Anionic Cyclic Tetrapeptides (Dept. of Chem., Fac. of Sci. and Eng., Saga Univ.) SUGA, Torao; OSADA, Satoshi; KODAMA, Hiroaki

**4B1-04** Enhancement of biomineralization activity and regulation of nanoparticles via controlling spatial orientation by p53 tetramerization domain. (Hokkaido Univ., Dept. of Chem., Fac. of Sci.) SAKAGUCHI, Tatsuya; KAMADA, Rui; NOMURA, Takao; CHUMAN, Yoshiro; IMAGAWA, Toshiaki; SAKAGUCHI, Kazuyasu

**4B1-05** Design of single-chain antibody with modulating antigen binding affinity (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) KOSAKU, Chihiro; MIE, Masayasu; HANZAWA, Satoshi; KOBATAKE, Eiry

**4B1-06** Regulation of cellular differentiation by transduction of Olig2 protein (Tokyo Tech.) KANEKO, Mami; HENMI, Fumiaki; MIE, Masayasu; KOBATAKE, Eiry

Chair: KODAMA, Hiroaki (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4B1-08, 4B1-09, 4B1-10, 4B1-11, 4B1-12, 4B1-13)

**4B1-08** Characterization of recombinant FtsZ3, FtsZ4 and FtsZ5 from *Haloarcula japonica* (Tokyo Tech. Biosci. Biotech.) MAKINO, Yuriko; YATSUNAMI, Rie; MAEDA, Takahiro; OZAWA, Kazumichi; HARASHINA, Takeyori; FUKUI, Toshiaki; NAKASONE, Kaoru; FUJITA, Nobuyuki; SEKINE, Mitsuo; TAKASHINA, Tomonori; NAKAMURA, Satoshi

**4B1-09** Expression of aerotactic transducer gene homologues from extreme halophilic archaeon *Haloarcula japonica* and characterization of recombinant proteins. (Tokyo Tech. Biosci. Biotech.) TADIKARA, Tepei; KUBOTA, Yoshihiro; KOSAKA, Takayuki; OZAWA, Takatoshi; YATSUNAMI, Rie; FUKUI, Toshiaki; NAKASONE, Kaoru; FUJITA, Nobuyuki; SEKINE, Mitsuo; TAKASHINA, Tomonori; NAKAMURA, Satoshi

**4B1-10** Genetic analysis and characterization of a starch-active enzyme from extremely halophilic archaeon *Haloarcula japonica* (Tokyo Tech. Biosci. Biotech.) ONODERA, Masahiko; YATSUNAMI, Rie; FUKUI, Toshiaki; NAKASONE, Kaoru; FUJITA, Nobuyuki; SEKINE, Mitsuo; TAKASHINA, Tomonori; NAKAMURA, Satoshi

**4B1-11** Role of exposed aromatic residues of CBM family 5 chitin-binding domain of chitinase from alkaliphilic *Bacillus* sp. strain J813 (Tokyo Tech. Biosci. Biotech.) UNI, Fumiya; LEE, Sunmi; YATSUNAMI, Rie; FUKUI, Toshiaki; NAKAMURA, Satoshi

**4B1-12** Characterization of germline gene A3/A19 #7 clone of human antibody light chain (Appl. Chem., Oita Univ.) SAKATA, Hiroyuki; HIFUMI, Emi; NISHIZONO, Akira; UDA, Taizou

**4B1-13** Improvement of expression system of human light chain (Appl. Chem., Oita Univ.) SATO, Maki; SAKATA, Hiroyuki; HIFUMI, Emi; NISHIZONO, Akira; UDA, Taizou

Chair: SANDO, Shinsuke (11:20~12:30)

\* 11:10-11:20: interval for laptop PC connection.(4B1-15, 4B1-16, 4B1-17, 4B1-18, 4B1-19, 4B1-20, 4B1-21)

**4B1-15** Mutation and characterization of germline gene A3/A19 of human antibody light chain (Appl. Chem., Oita Univ.) KANDA, Masashi; ISHIBASHI, Naoyuki; HIFUMI, Emi; UDA, Taizou

**4B1-16** Expression and characterization of germline gene A18b #6 clone of human antibody light chain (Appl. Chem., Oita Univ.) YOSHIOKA, Tomomi; HIFUMI, Emi; NISHIZONO, Akira; UDA, Taizou

**4B1-17** Expression and characterization of germline gene A3/A19 #13 clone of human antibody light chain (Appl. Chem., Oita Univ.) IWAO, Nana; HIFUMI, Emi; NISHIZONO, Akira; UDA, Taizou

**4B1-18** Identification of SecG-Interacting Factors Using Site-Directed *In Vivo* Photo-Cross-Linking. (Inst. Virus Res., Kyoto Univ.; RIKEN, Wako; Kyoto Sangyo Univ.) TANAKA, Natsuko; KOBAYASHI, Gen; DOHMAE, Naoshi; SUZUKI, Takehiro; ITO, Koreaki; AKIYAMA, Yoshinori; MORI, Hiroyuki

**4B1-19** Gene regulation by self-amplified artificial transcription factors (Kyoto Univ.) MORI, Tomoaki; SASAKI, Jun; SAITO, Yoshiaki; AOYAMA, Yasuhiro; SERA, Takashi

- 4B1-20** Site-specific DNA cleavage by sandwiched zinc-finger nucleases (Kyoto Univ.) SHINOMIYA, Kazuki; MORI, Tomoaki; KAGATSUME, Ikuko; AOYAMA, Yasuhiro; SERA, Takashi
- 4B1-21** Generation of plants resistant to tomato yellow leaf curl virus by using artificial DNA-binding proteins (Kyoto Univ.) OHASHI, Masayoshi; KIMURA, Yoshihiro; TAKENAKA, Kosuke; DOMOTO, Fumiya; MIYAZAKI, Toshihide; AOYAMA, Yasuhiro; SERA, Takashi

## Room B2

Bldg.21 423

### Coordination Chemistry, Organometallic Chemistry

Friday, March 26, AM

#### Pt

Chair: TANABE, Makoto (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** Synthesis and Properties of Trinuclear Platinum-acetylide Complexes Bridged by Tris(ethynylphenyl)borane Derivatives (Graduate School of Science, Osaka Univ.) HIRAI, Ayumi; ONITSUKA, Kiyotaka
- 1B2-02** R/Cl Exchange Reaction in  $\text{Pt}(\text{R})_2\{\text{P}(\text{Cl})(\text{NMeCH}_2)_2\}_2$  (R = alkyl, aryl) (Osaka City Univ.) SHIGESATO, Yuka; ITAZAKI, Masumi; NAKAZAWA, Hiroshi
- 1B2-03** Synthesis of Platinum Hydrido Complexes Bearing Bis(silyl)ferrocenylene Moiety (Osaka City Univ.) ITAZAKI, Masumi; MINAKATA, Makiko; NAKAZAWA, Hiroshi
- 1B2-04** Disilaplatinacycle Complex as a Key Intermediate for Hydrosilylation of Carboxamides (Institute for Materials Chemistry and Engineering, Graduate School of Engineering Sciences, Kyushu Univ.) TSUTSUMI, Hironori; SUNADA, Yusuke; NAGASHIMA, Hideo
- 1B2-05** Synthesis and Structure of Amido-Bridged Multinuclear Platinum and Palladium Complexes (Department of Chemistry, Graduate School of Science, Osaka Prefecture Univ.) HISAKAWA, Yoshinori; MURATA, Usuke; TAKEMOTO, Shin; FUJIWARA, Hideki; MATSUZAKA, Hiroyuki
- 1B2-06** Thermal reactivity of *cis*- and *trans*-bis(triaryl-substituted group 14 element)platinum (Dept. Chem., Fac. Sci., Gakushuin Univ.) SUGA, Misato; MORIYAMA, Nami; FUKUSHIMA, Takashi; ARII, Hidekazu; MOCHIDA, Kunio

Chair: ITAZAKI, Masumi (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1B2-08, 1B2-09, 1B2-10, 1B2-11, 1B2-12)
- 1B2-08** Synthesis and structure of cycloheptatrienyl triplatinum sandwich complexes bearing an aryl ligand. (Graduate School of Engineering, Osaka Univ.) USUI, Kentaro; MURAHASHI, Tetsuro; OGOSHI, Sensuke
- 1B2-09** Reactions of Linear Platinum and Palladium Trinuclear Complexes Supported by Tridentate Phosphine Ligands with Mercury Salts (Nara Women's Univ.) HOSOKAWA, Aya; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 1B2-10** Synthesis of NCN Pt-Complex Bound Norvaline Derivatives and Their Self-Assembly Properties (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) SASANO, Daisuke; SEIKE, Hirofumi; OGATA, Kazuki; FUKUI, Sadayuki; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 1B2-11** Synthesis and Function of Pt-Complex Bound Norvaline Peptides (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) SASANO, Daisuke; SEIKE, Hirofumi; OGATA, Kazuki; FUKUI, Sadayuki; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 1B2-12\*** Electronic Effect of Electron-poor Diphosphine Ligand for Reductive Elimination of Biphenyl from Platinum Complex (Okayama Univ.) KORENAGA, Toshinobu; ABE, Kayoko; KO, Aram; EMA, Tadashi; SAKAI, Takashi

#### Pd

Chair: TAKEMOTO, Shin (11:20~12:30)

- \* 11:10-11:20: interval for laptop PC connection.(1B2-15, 1B2-16, 1B2-18, 1B2-19, 1B2-20)
- 1B2-15** PCP Palladium Complex Tethered to Norvaline Derivatives: Synthesis, Structure and Properties. (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) IWAYA, Takashi; OGATA, Kazuki; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 1B2-16\*** Synthesis of NCN and PCP Pincer Pd-Complex Bound Norvaline Peptides and Their Catalysis (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) OGATA, Kazuki; SEIKE, Hirofumi; SASANO, Daisuke; IWAYA, Takashi; FUKUI, Sadayuki;

TAKAYA, Hikaru; NAKAMURA, Masaharu

- 1B2-18** Observation of C-OH Bond-Forming Reductive Elimination (The Univ. of Tokyo, Graduate School of Engineering) HAYASHI, Yumi; WADA, Shinji; YAMASHITA, Makoto; NOZAKI, Kyoko
- 1B2-19** Synthesis and Structure of Hydrido(dihydrosilyl) Palladium(II) Complex (Saitama Univ.) NAKATA, Norio; KATO, Nanami; ISHII, Akihiko
- 1B2-20** Rearrangements of Planar Tetrapalladium Complexes Caused by Proton-Donating Electrophiles (Chemical Resources Laboratory, Tokyo Inst. of Tech.) TANABE, Makoto; CHIBA, Mai; HANZAWA, Masaya; OSAKADA, Kohtarō

Friday, March 26, PM

Chair: MATSUZAKA, Hiroyuki (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(1B2-28, 1B2-31, 1B2-32)
- 1B2-28** Young Scholar Lectures of CSJ Synthesis and Reactivities of Nitrogen-Bridged Polynuclear Complexes (Grad. Sch. Sci. and Eng., Tokyo Tech) KUWATA, Shigeki

#### Pd

- 1B2-31<sup>†</sup>** Development of Aquacatalytic Systems based on Pincer Complexes (1): Design and Preparation (SOKENDAI; IMS) MUTO, Tsubasa; HAMASAKA, Go; UOZUMI, Yasuhiro
- 1B2-32\*** Development of Aquacatalytic Systems based on Pincer Complexes (2): Catalytic Ability in Water (IMS; SOKENDAI) HAMASAKA, Go; MUTO, Tsubasa; UOZUMI, Yasuhiro

Chair: KATAOKA, Yasutaka (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(1B2-35, 1B2-36, 1B2-37, 1B2-38, 1B2-39, 1B2-40)
- 1B2-35** Coordination Copolymerization of Vinyl Acetate with Ethylene (Grad. School of Engineering, The Univ. of Tokyo) MUNAKATA, Kagehiro; ITO, Shingo; NOZAKI, Kyoko
- 1B2-36** Coordination Copolymerization of Allyl Acetate with Ethylene (The Univ. of Tokyo, Graduate School of Engineering) KANAZAWA, Masafumi; ITO, Shingo; NOZAKI, Kyoko
- 1B2-37** Substituent Effects on P-C Reductive Elimination from Styrylpalladium(II) Phosphine Complexes (Institute for Chemical Research, Kyoto Univ.) WAKIOKA, Masayuki; OZAWA, Fumiyuki
- 1B2-38** D<sub>2</sub>O-Enhanced Reductive Elimination of Water-soluble *cis*-Dimethylpalladium(II) Complex Having TPPTS Ligands (Tokyo Univ. of A & T) OHTA, Toru; SEKI, Takanori; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 1B2-39** Synthesis and Dynamic Behavior of Heterodinuclear Hydridopalladium Complexes Having Phosphine Ligands (Tokyo Univ. of A & T) TOBAYAMA, Masahiro; NAKANISHI, Kouhei; KURAMOTO, Ayako; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 1B2-40** Linearly Constrained, Metal-Metal Bonded Octanuclear Palladium Complexes Supported by Tetraphosphine Ligands (Nara Women's Univ.) NAKAMAE, Kanako; TAKEMURA, Yukie; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki

Chair: ITO, Masato (15:50~16:50)

- \* 15:40-15:50: interval for laptop PC connection.(1B2-42, 1B2-44, 1B2-45, 1B2-47)
- 1B2-42\*** Synthesis of oxapalladacycles via the direct ortho CH bond activation and catalytic reactions using these complexes (AIST) HAN, Li-biao; XU, Qing; ONO, Yutaka; SHEN, Ruwei; SHIMADA, Shigeru; GOTO, Midori
- 1B2-44** Palladium complexes of amido-functionalized *N*-heterocyclic carbene (Kansai Univ.) KAMISUE, Ryo; HARANO, Ayako; SAKAGUCHI, Satoshi
- 1B2-45\*** Pd-Catalyzed Copolymerization of Acrylic Esters with Carbon Monoxide: The Effect of Phosphine-Sulfonate Ligand (The Univ. of Tokyo) NAKAMURA, Akifumi; MUNAKATA, Kagehiro; KOCHI, Takuya; CHUNG, L.W.; MOROKUMA, Keiji; NOZAKI, Kyoko
- 1B2-47** Synthesis and Application of P-Chiral Phosphine-Sulfonate Ligands (Grad. School of Engineering, The Univ. of Tokyo) KAGEYAMA, Takeharu; ITO, Shingo; NOZAKI, Kyoko

Chair: TAKAYA, Hikaru (17:00~17:40)

- \* 16:50-17:00: interval for laptop PC connection.(1B2-49, 1B2-50, 1B2-51, 1B2-52)
- 1B2-49** Water/Hexane Interface Controlled Regioselectivity in Pd-catalyzed Allylation of Benzenethiol (Tokyo Univ. of A & T) KOMINE, Nobuyuki; KOSUGE, Hirofumi; HIRANO, Masafumi; KOMIYA, Sanshiro
- 1B2-50** Mechanistic Study on Palladium Acetate Mediated Additions of H-Spirophosphorane to Alkynes (AIST; Katayama Chemical Industries Co, Ltd) SAGA, Yuta; FUJINO, Hiroyoshi; HAN, Li-biao

#### Ni, Cu, Ag

- 1B2-51** Cross-Coupling Reactions of Aryl Halides Catalyzed by Novel Nickel (I) Complex Bearing Bulky *N*-Heterocyclic Carbene (Dep. of Chem., Fukuoka Univ.) NAGAO, Shinya; KOGA, Yuji; MATSUBARA, Kouki

**1B2-52** Structure and Reactivity of Ag(I) Complexes Bearing a Bowl-shaped Carbene Ligand (Tokyo Institute of Technology; Univ. of Tokyo) SASE, Shohei; GOTO, Kei; SUGIURA, Mariko; KAWASHIMA, Takayuki

Chair: ITO, Shingo (17 : 50~18 : 30)

\* 17:40-17:50: interval for laptop PC connection.(1B2-54, 1B2-55, 1B2-56, 1B2-57)

**1B2-54** Synthesis and Properties of Cu(I) Complexes bearing Bis(phosphaethenyl)pyridine Ligand (Institute for Chemical Research, Kyoto Univ.) SHIRAIISHI, Yu; NAKAJIMA, Yumiko; OZAWA, Fumiuyuki

**1B2-55** Synthesis of Bulky Phenol Derivatives Rind-OH Derived from Organourates and Their Use as Ligands for Metal Complexes. (RIKEN) ITO, Mikinao; HASHIZUME, Daisuke; MATSUO, Tsukasa; TAMAO, Kohei

**1B2-56** Copper(I)-2-(2'-pyridyl)benzimidazole catalyzed *N*-arylation of indoles (Grad. Sch. Sci., Kobe Univ.) ADACHI, Yusuke; HANEDA, Satoshi; HAYASHI, Masahiko

**1B2-57** Synthesis of nitrogen heterocycles via Cu-catalyzed hydroarylation (Grad. Sch. of Eng., Nagoya Univ.) YAMADA, Satoshi; YAMAMOTO, Yoshihiko; NISHIYAMA, Hisao

## Saturday, March 27, AM

### Lanthanoid

Chair: MIYAKE, Yoshihiro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2B2-01, 2B2-02, 2B2-03, 2B2-04, 2B2-06)

**2B2-01<sup>#</sup>** Synthesis and structural characterization of rare earth polyhydrides supported by bis(phosphinoamido) ligands (RIKEN) CHENG, Jianhua; SHIMA, Takanori; HOU, Zhaomin

**2B2-02<sup>#</sup>** Isolation and Structural Characterization of Amidinate-Supported Polyhydrido Rare Earth Metal Complexes (RIKEN) WANG, Haiyu; NISHIURA, Masayoshi; HOU, Zhaomin

**2B2-03** Syntheses and Structures of Rare Earth Metal Hydroxide and Amide Clusters Supported by Cyclopentadienyl Ligands. (RIKEN) SHIMA, Takanori; HOU, Zhaomin

**2B2-04<sup>\*</sup>** Synthesis and Structure of Lanthanide Complexes Having 1,4-Diazal-1,3-Butadiene Ligands (Dept. Chem., Grad. Sch. Eng. Sci., Osaka Univ.) KANEKO, Hiroshi; PANDA, Tarun, Kanti; PAL, Kuntal; TSURUGI, Hayato; MASHIMA, Kazushi

### Ti, Zr, Hf, Ta

**2B2-06<sup>#</sup>** Withdrawn

Chair: SHIMA, Takanori (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2B2-08, 2B2-09, 2B2-10, 2B2-11, 2B2-12, 2B2-13)

**2B2-08<sup>#</sup>** Formation of Vinylcycloheptatrienes from the Reaction of Dihydroindenyltitanium Complexes with Amides or Ureas (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Educ.) SONG, Zhiyi; HSIEH, Yi-fang; NAKAJIMA, Kiyohiko; KANNO, Ken-ichiro; TAKAHASHI, Tamotsu

**2B2-09** Preparation of Azametallacycle Species through an Activation of C-H Bond by Group 4 Metal-nitrogen Bond (Graduate School of Engineering Science, Osaka Univ.) TSURUGI, Hayato; PANDA, Tarun, Kanti; KANEKO, Hiroshi; PAL, Kuntal; MASHIMA, Kazushi

**2B2-10** Hafnium Complex with an [OSSO]-type Bis(phenolato) Ligand Bearing a *trans*-Cyclooctane Ring : Synthesis and Alkene Polymerization (Saitama Univ.; RIKEN ASI) TODA, Tomoyuki; NAKATA, Norio; ISHII, Akihiko; MATSUO, Tsukasa; TAMAO, Kohei

**2B2-11** Synthesis of Titanium(IV) and Zirconium(IV) Complex with an [OSSO]-type Ligand bearing a *trans*-Cyclohexane Ring and 1-Hexene Polymerization (Saitama Univ.) ASAJIMA, Kanako; TODA, Tomoyuki; NAKATA, Norio; ISHII, Akihiko

**2B2-12** Cross-Coupling Reaction of Heterocyclic Compounds with Unsaturated Hydrocarbons Catalyzed by Hafnium Alkyl Complexes (Graduate School of Engineering Science, Osaka Univ.) YAMAMOTO, Koji; TSURUGI, Hayato; MASHIMA, Kazushi

**2B2-13** Reduction of  $MCl_5$  ( $M = Nb, Ta$ ) by Bis(silyl)cyclohexadienes and Its Utilization to Prepare Niobium and Tantalum Complexes with Redox-active Ligands (Graduate School of Engineering Science, Osaka Univ.) SAITO, Teruhiko; TSURUGI, Hayato; MASHIMA, Kazushi

Chair: KANNO, Ken-ichiro (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2B2-15, 2B2-16, 2B2-18, 2B2-19, 2B2-20)

**2B2-15<sup>†</sup>** Synthesis of cubane-type group 5 metal- $Ir_3$  sulfide clusters (Institute of Industrial Science, The Univ. of Tokyo) SHIBATA, Yusuke; SEINO, Hidetake; MIZOBE, Yasushi

### Cr, Mo, W

**2B2-16<sup>\*\*†</sup>** Catalytic Nitrogen Fixation under Mild Reaction Conditions: Molybdenum-Catalyzed Reduction of Molecular Dinitrogen into Ammonia

(Sch. Eng., The Univ. of Tokyo) ARASHIBA, Kazuya; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

**2B2-18** Synthesis and Reactivity of 5 and 6 Groups Transition Metal Complexes Bearing Pincer Ligand (School of Engineering, The Univ. of Tokyo) SASAKI, Kouitsu; ARASHIBA, Kazuya; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

**2B2-19** Synthesis, Structure, and Reactions of a Molybdenum( $\eta^3$ - $\alpha$ -silybenzyl) Complex (Faculty of Science and Graduate School of Science, Tohoku Univ.) KANNO, Yuto; KOMURO, Takashi; TOBITA, Hiromi

**2B2-20** Optimization of Radical Addition Reactions Catalyzed by Dimolybdenum Complexes and Study on the Reaction Mechanism (Graduate School of Engineering Science, Osaka Univ.) YAMADA, Kouhei; TSURUGI, Hayato; MASHIMA, Kazushi

## Saturday, March 27, PM

Chair: TSURUGI, Hayato (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2B2-28, 2B2-29, 2B2-30, 2B2-31, 2B2-32, 2B2-33)

**2B2-28** Synthesis and Structure of a Silaallyl Molybdenum Complex and Its Reaction with Primary Amines (Graduate School of Science, Tohoku Univ.) TONOSAKI, Hiroki; ISOZAKI, Kazuyoshi; KWON, Eunsang; SAKABA, Hiroyuki

**2B2-29** Synthesis of hetero-dinuclear complexes bridged by the linear tetradentate phosphine ligand (Institute of Industrial Science, The Univ. of Tokyo) YASUDA, Ryoga; IWASA, Kentaro; SEINO, Hidetake; MIZOBE, Yasudshi

**2B2-30** Synthesis and Properties of Group 6 Metal Complexes with Phosphine Ligands Bearing Three Thioether Moieties (Graduate School of Engineering, Gunma Univ.) YAMAMOTO, Yohko; TAKEDA, Nobuhiro; UNNO, Masafumi

**2B2-31** Reactions of a Hydrido(hydrogermylene)tungsten Complex with Mesitylisocyanate (Faculty of Science and Graduate School of Science, Tohoku Univ.) FUKUDA, Tetsuya; HASHIMOTO, Hisako; TOBITA, Hiromi

**2B2-32** Reactions of a Hydrogen-Bridged Bis(silylene)tungsten Complex with Carbonyl Compounds (Faculty of Science and Graduate School of Science, Tohoku Univ.) MATSUO, Satomi; HASHIMOTO, Hisako; TOBITA, Hiromi

### Mn, Re

**2B2-33** Reactivity of a gallane manganese  $\sigma$  complex (Graduate School of Engineering, Gunma Univ.) MURAOKA, Takako; YAMAMOTO, Takuma; UENO, Keiji

Chair: HASHIMOTO, Hisako (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2B2-35, 2B2-36, 2B2-37, 2B2-38, 2B2-39)

**2B2-35** Detection of reaction intermediates of photochemical  $CO_2$  reduction sensitized by rhenium bipyridine complexes by Infrared Spectroscopy (Dept. Appl. Chem., Grad. Sch. Urban Environ. Sci., Tokyo Metropolitan Univ.; SORST(JST)) KOU, Youki; KIYOSAWA, Kuniomi; SHIMADA Tetsuya, Tetsuya; MASUI, Dai; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; ISHITANI, Osamu; INOUE, Haruo

**2B2-36** Construction of Functional Transition Metal Complexes Based on Photoisomerization of PNP Pincer Type Rhenium Tricarbonyl Complexes (Tokyo Institute of Technology) KANEKO, Masashi; TAKAYA, Jun; IWASAWA, Nobuharu

**2B2-37** Synthesis of novel porphyrinoid bearing N-Heterocyclic Carbene ligand (Grad. Sch. Eng., Kyushu Univ.) HIHARA, Takayoshi; TOGANOH, Motoki; FURUTA, Hiroyuki

**2B2-38** Synthesis and reactivities of non-substituted imido (NH)-bridged Ir dinuclear complexes (Graduate School of Science and Engineering, Tokyo Institute of Technology) KIMURA, Takashi; ISHIWATA, Koji; KUWATA, Shigeki; IKARIYA, Takao

**2B2-39<sup>\*†</sup>** Regio- and Stereoselective Insertion of Alkynes or Allenes to Iridium (III) Silyl Hydride Complexes Having a Metal-Centered Chirality (Dept. Chem., Fac. Sci., Nara Women's Univ.) TSUBAKIMOTO, Aya; URA, Yasuyuki; KATAOKA, Yasutaka

Chair: SEINO, Hidetake (15 : 50~16 : 40)

\* 15:40-15:50: interval for laptop PC connection.(2B2-42, 2B2-44, 2B2-45, 2B2-46)

**2B2-42<sup>\*</sup>** Efficient Catalytic Hydrogenation of  $CO_2$  and Decomposition of Formic Acid using catalysts with 4,4'-dihydroxy-2,2'-bipyridine (Nat. Inst. of Advanced Industrial Science and Technology) HIMEDA, Yuichiro

**2B2-44** Synthesis and Coordination Properties of PNP Pincer Ligands Bearing Functionalized Pyridine Skeleton (School of Engineering, the Univ. of Tokyo) NAKAJIMA, Kazunari; HIGUCHI, Yu; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

**2B2-45** Synthesis, Structures, and Reactions with  $LiBC_6F_5)_4$  of Chlorosilyl and Chlorido(silyl) Iridium Complexes Supported by a *P,N*-Chelate Ligand (Graduate School of Science, Tohoku Univ.) SUZUKI, Toshinori; HASHIMOTO, Hisako; TOBITA, Hiromi

## Ir

**2B2-46** Syntheses and Optical Properties of NCN Pincer Iridium(III) Complexes Having Benzothiazole Units (Univ. of Tsukuba TIMS) NAMEKAWA, Tomomi; KUWABARA, Junpei; KANBARA, Takaki

Chair: MURAOKA, Takako (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(2B2-48, 2B2-49, 2B2-50, 2B2-51)
- 2B2-48<sup>†</sup>** Preparation of Ir(I) and Ir(III) Complexes with Perimidine-based Carbene Ligands and Their Reactivity toward Intramolecular C-H Bond Activation (Dept. Chem., Grad. Sch. Eng. Sci., Osaka Univ.) CHOI, Shin, Gyeong; TSURUGI, Hayato; MASHIMA, Kazushi
- 2B2-49** Synthesis of ( $\eta^4$ -1,4-Diamino-1,4-Diaza-1,3-Butadiene Iridium Complexes and Their Condensation Reaction with Aldehydes (Dept. Chem., Grad. Sch. Eng. Sci., Osaka Univ.) NAKAO, Keisuke; TSURUGI, Hayato; MASHIMA, Kazushi
- 2B2-50** Synthesis of Coordinatively Unsaturated Half-Sandwich Rhodium, Iridium Complexes and H-H and C-H Bond Activation Reactions (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) SAKAMOTO, Mayumi; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 2B2-51** Effect of Phosphines on the Formation of Aldenamides from Carboxamides Catalyzed by Iridium Vaska-type Complexes (Institute for Materials Chemistry and Engineering, Graduate School of Engineering Sciences, Kyushu Univ.) MIYAMOTO, Yasumitsu; SUNADA, Yusuke; NAGASHIMA, Hideo

## Sunday, March 28, PM

Chair: HIRANO, Masafumi (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(3B2-25, 3B2-26, 3B2-28, 3B2-29, 3B2-30)
- 3B2-25** Synthesis of Novel Iridium Complexes with Tridentate Biphenylpyridine Ligand (Fac. Sci., Fukuoka Univ.) KAMO, Marina; KOGA, Yuji; MATSUBARA, Kouki

## Rh

- 3B2-26\*** Rh(I)-Catalyzed Cyclization of Allene-Yne and Tethered Aldehyde : Efficient Access to Bicyclic Dienones (Faculty of Pharmaceutical Sciences, Hokkaido Univ.) OONISHI, Yoshihiro; HOSOTANI, Akihito; SATO, Yoshihiro
- 3B2-28** Synthesis and Properties of Group 9 and 10 Metal Complexes with a Tripodal Tetradentate Phosphine Ligand Bearing Three Ether Moieties (Graduate School of Engineering, Gunma Univ.) TAGAWA, Tomonori; TAKEDA, Nobuhiro; UNNO, Masafumi
- 3B2-29** Synthesis and reaction of chiral NCN pincer-type complexes (Nagoya Univ.) ISHIHARA, Takahiro; ITO, Jun-ichi; NISHIYAMA, Hisao
- 3B2-30** Synthesis of Rhodium and Palladium Multinuclear Complexes with New Tetrakisphosphine Ligand (Nara Women's Univ.) KURAI, Sachi; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki

Chair: NAKAJIMA, Takayuki (14 : 10~15 : 10)

- \* 14:00-14:10: interval for laptop PC connection.(3B2-32, 3B2-33, 3B2-34, 3B2-35, 3B2-36, 3B2-37)
- 3B2-32** Syntheses and Properties of Rhodium Complexes Bearing a PBP Pincer Ligand (The Univ. of Tokyo, Graduate School of Engineering) HASEGAWA, Maki; SEGAWA, Yasutomo; YAMASHITA, Makoto; NOZAKI, Kyoko
- 3B2-33** A Nobel Dirhodium Complex bearing *N,N'*-Dipyridyl Imidazolium Carbene Ligand (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) FUKUI, Sadayuki; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 3B2-34** NHC-Dirhodium Complex-Catalyzed Hydrogen Transfer Reduction of Carbonyl Compounds (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) FUKUI, Sadayuki; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 3B2-35** Theoretical study on electronic configuration of dinuclear paddle-wheel rhodium complex with broken symmetry approach (Osaka Univ.; Kanagawa Univ.) KATAOKA, Yusuke; KITAGAWA, Yasutaka; SAITO, Toru; NAKANISHI, Yasuyuki; TORU, Matsui; NAKANISHI, Yasuyuki; MORI, Wasuke; MITSUTAKA, Okumura

## Fe, Co

- 3B2-36** Synthesis, Structures, and Catalytic Activities of Novel Cobalt Complexes Bearing Bulky *N*-Heterocyclic Carbene (Dep. of Chem., Fukuoka Univ.) SUEYASU, Tsukasa; KOGA, Yuji; MATSUBARA, Kouki
- 3B2-37** Synthesis and Reactions of Cobalt Complexes supported by Bis(phosphaethenyl)pyridine Ligand (Institute for Chemical Research, Kyoto Univ.) SHIMIZU, Taichi; NAKAJIMA, Yumiko; OZAWA, Fumiyuki

Chair: ITO, Junichi (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(3B2-39, 3B2-40, 3B2-41,

3B2-42, 3B2-43, 3B2-44)

- 3B2-39** Synthesis and properties of diiron(II) complexes containing an optically active N,C,S-tridentate Schiff base ligand (Osaka City Univ.) SANTO, Kiyokazu; HIROTSU, Masakazu; KINOSHITA, Isamu
- 3B2-40** Carbonyl insertion reaction using anion of Diene-iron complexes (Kyushu Institute of Technology Department of Applied Chemistry) INADOME, Masato; SUGAHARA, Youko; SATA, Naoki; KITAMURA, Mitsuru; OKAUCHI, Tatsuo
- 3B2-41** Selective E-O-Ge (E=Si,Ge,Sn) Bond Formation Catalyzed by an Iron Methyl Complex (Osaka City Univ.) KAMITANI, Masahiro; TADA, Ryosuke; ITAZAKI, Masumi; NAKAZAWA, Hiroshi
- 3B2-42** Reaction of Iron Complex bearing Bis(phosphaethenyl)pyridine Ligand with Diazomethanes (Institute for Chemical Research, Kyoto Univ.) SEKIDO, Masayuki; NAKAJIMA, Yumiko; OZAWA, Fumiyuki
- 3B2-43** Formation of Isonitriles by Reactions of Bromoacetylene with Primary Amines on the Butterfly-Type Tetrairon Core (Institute for Chemical Research, Kyoto Univ.) TSUCHIMOTO, Takahiro; TAKANO, Masato; OKAZAKI, Masaaki; OZAWA, Fumiyuki
- 3B2-44** Activation of Nitriles on Non-Planar Carbocation Bridged over Tetrairon Core (Institute for Chemical Research, Kyoto Univ.) MIYAGI, Kazuki; TAKANO, Masato; OKAZAKI, Masaaki; OZAWA, Fumiyuki

Chair: NAKAJIMA, Yumiko (16 : 30~17 : 20)

- \* 16:20-16:30: interval for laptop PC connection.(3B2-46, 3B2-47, 3B2-49)
- 3B2-46** Synthesis of Phebox-Fe complexes (Graduate School of Engineering, Nagoya Univ.) HOSOKAWA, Satomi; ITO, Jun-ichi; NISHIYAMA, Hisao
- 3B2-47\*** Synthesis of New Type of Half-Sandwich Iron Complexes Having a Disilametalacycle Skeleton (Institute for Materials Chemistry and Engineering, Graduate School of Engineering Sciences, Kyushu Univ.) SUNADA, Yusuke; IMAOKA, Tsuyoshi; NAGASHIMA, Hideo
- 3B2-49\*** C-H Activation/Borylation of Arenes by Cp<sup>†</sup>Fe complexes of N-Heterocyclic Carbenes (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) HATANAKA, Tsubasa; OHKI, Yasuhiro; TATSUMI, Kazuyuki

Chair: OKAZAKI, Masaaki (17 : 30~18 : 30)

- \* 17:20-17:30: interval for laptop PC connection.(3B2-52, 3B2-53, 3B2-54, 3B2-55, 3B2-56, 3B2-57)
- 3B2-52** P-P bond cleavage of 1,2-diphosphaacenaphthene by iron(0) complexes (Grad. Sch. Sci., Hiroshima Univ.) TERAMOTO, Yuichi; USHIROGOUCHI, Masashi; KUBO, Kazuyuki; MIZUTA, Tsutomu
- 3B2-53** Electron transfer mechanisms of diiron complexes bridged by hexaarylbenzene derivatives (Chemical Resources Laboratory, Tokyo Institute of Technology) TANAKA, Yuya; KOIKE, Takashi; AKITA, Munetaka

## Ru

- 3B2-54** Synthesis of long chain molecular wires via oxidative coupling of thienylruthenium complexes (Chemical Resources Laboratory, Tokyo Institute of Technology) JOHNNO, Keita; TANAKA, Yuya; KOIKE, Takashi; AKITA, Munetaka
- 3B2-55<sup>†</sup>** Synthesis and Reactivity of Hybrid Phosphido- and Hydrosulfido-Bridged Diruthenium Complexes (Graduate School of Engineering, The Univ. of Tokyo) MORIYAMA, Taichi; ENDO, Satoshi; TANABE, Yoshiaki; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 3B2-56** Synthesis of tetraruthenium polyhydrido complexes with 1,4,7-triazacyclononane (Graduate School of Science and Engineering, Tokyo Institute of Technology) NAMURA, Kyo; KAKUTA, Satoshi; SUZUKI, Hiroharu
- 3B2-57** Synthesis of Dinuclear Ruthenium Azametallacycles and Their Oxidation by Iodine (Department of Chemistry, Generated School of Science, Osaka Prefecture Univ.) IMOTO, Ryouhei; TAKEMOTO, Shin; FUJIWARA, Hideki; MATSUZAKA, Hiroyuki

## Monday, March 29, AM

Chair: TAKAO, Toshiro (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4B2-01, 4B2-02, 4B2-03, 4B2-04, 4B2-05, 4B2-06)
- 4B2-01** Diastereoselective Addition Reaction of Chiral Hydroxo Ruthenium Complexes to Dinitriles and Its Application to Catalytic Hydration (Tokyo Inst. of Technology) KAMEZAKI, Shoko; AKIYAMA, Satoshi; KAYAKI, Yoshihito; KUWATA, Shigeki; IKARIYA, Takao
- 4B2-02** Synthesis and Reactivity of Heterobimetallic Complexes Composed of Ruthenium and Group IV Metallocenes (School of Engineering, The Univ. of Tokyo) MIYAZAKI, Takamasa; TANABE, Yoshiaki; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 4B2-03** Synthesis and Reactivity of Triflylamide-Tethered Cp<sup>†</sup> Ru complexes (Graduate School of Science and Engineering, Tokyo Institute of Technology) SAKAMOTO, Naoki; ENDO, Yoshinori; ITO, Masato; IKARIYA, Takao
- 4B2-04** Selective Tail-to-tail Dimerization of Methyl Methacrylate Catalyzed by Ru(naphthalene)(1,5-COD) (Tokyo Univ. of A & T) HIROI, Yuki; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

- 4B2-05** Synthesis, Structure, and Reactivity of a Coordinatively Unsaturated Bis(silyl) Ruthenium Complex Having a NHC Carbene Ligand (Faculty of Science and Graduate School of Science, Tohoku Univ.) ONO, Rikima; KOMURO, Takashi; TOBITA, Hiroimi
- 4B2-06<sup>†</sup>** Ruthenium-Catalyzed Asymmetric [3+3] Cycloaddition of Propargylic Alcohols with 2-Naphthols (Graduate School of Engineering, The Univ. of Tokyo) KANAOKA, Keiichi; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

Chair: MIZUTA, Tsutomu (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4B2-08, 4B2-09, 4B2-10, 4B2-11, 4B2-12, 4B2-13)
- 4B2-08** Synthesis of the bis(vinylidene)-bridged Dinuclear Complexes via Internal Alkyne-to-Vinylidene Isomerization (Faculty of Science and Engineering, Chuo Univ.) NAKAMURA, Rina; IKEDA, Yousuke; MUTOH, Yuichiro; ISHII, Youichi
- 4B2-09** Catalytic function of the RuIr<sub>3</sub>S<sub>4</sub> cubane-type clusters in reduction of proton to produce hydrogen (Institute of Industrial Science, The Univ. of Tokyo) HIRATA, Keiichi; MORI, Hiroyuki; SEINO, Hidetake; MIZOBE, Yasushi
- 4B2-10** Coupling Reaction of Coordinated Butadiene with Methyl Acrylate on Ruthenium(0) Complex (Tokyo Univ. of A & T) ARAI, Yasutomu; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 4B2-11** Synthesis and Property of  $\mu_3$ -imido- $\mu_3$ -alkylidyne Complexes (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) KANDA, Hideyuki; TAKAO, Toshiro; SUZUKI, Hiroharu
- 4B2-12** Disubstituted  $\eta^1$ -Vinylidene- $\eta^2$ -Alkyne Isomerizations at Cationic Ruthenium Complexes (Faculty of Science and Engineering, Chuo Univ.) IMAI, Kohei; KIMURA, Yusuke; IKEDA, Yousuke; MUTOH, Yuichiro; ISHII, Youichi
- 4B2-13** Coupling Reaction of Internal Alkynes and Dppm at a Ruthenium Complex (Faculty of Science and Engineering, Chuo Univ.) KIMURA, Yusuke; MUTOH, Yuichiro; ISHII, Youichi

Chair: KUWATA, Shigeki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4B2-15, 4B2-16, 4B2-17, 4B2-19)
- 4B2-15** Synthesis of Dinuclear Ruthenium Amido and Imido Complexes Containing Bridging Tin Ligands (Department of Chemistry, Graduate School of Science, Osaka Prefecture Univ.) YAMAZAKI, Yusuke; TAKEMOTO, Shin; FUJIWARA, Hideki; MATSUZAKA, Hiroyuki
- 4B2-16** Reaction of Ruthenium Seleno- and Telluro-carbonyl Complexes with Phosphines. (Faculty of Science and Engineering, Chuo Univ.) KOZONO, Naoki; MUTOH, Yuichiro; ISHII, Youichi
- 4B2-17<sup>\*†</sup>** Direct reaction of cyclic ruthenium biscarbene complex with water (Grad. Sch. of Eng., Nagoya Univ.) YAMASHITA, Ken; YAMAMOTO, Yoshihiko; NISHIYAMA, Hisao
- 4B2-19\*** Aerobic Oxidation of Amines Catalyzed by Cyclometallated Ru Complex (Univ. of Tsukuba; Tokyo Tech) TAKETOSHI, Ayako; TSUJIMOTO, Akitsu; MAEDA, Shusaku; KOIZUMI, Take-aki; KANBARA, Takaki

## Monday, March 29, PM

Chair: ARIKAWA, Yasuhiro (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4B2-28, 4B2-29, 4B2-30, 4B2-31, 4B2-32, 4B2-33)
- 4B2-28** Catalytic dehalogenation of aryl halides by Ni complexes combined with the visible-light active Ru(II) complex (Chemical Resources Laboratory, Tokyo Institute of Technology) ITAKURA, Toru; INAGAKI, Akiko; AKITA, Munetaka; OSAWA, Masahisa
- 4B2-29** Syntheses and photocatalytic oligomerization of styrenes by Pd complexes containing bichromophoric moiety composed of polypyridyl ruthenium and aromatic compounds (Chemical Resources Laboratory, Tokyo Institute of Technology) MURATA, Kei; INAGAKI, Akiko; AKITA, Munetaka
- 4B2-30** Synthesis and physical property of palladium-alkyl complexes containing light-harvesting ruthenium(II) porphyrin unit (Chemical Resources Laboratory, Tokyo Institute of Technology) YASU, Yusuke; INAGAKI, Akiko; AKITA, Munetaka
- 4B2-31** Synthesis and Reactivity of Half-sandwich ruthenium and iridium Complexes Bearing a Pyridyloxime Ligand (Tokyo Institute of Technology, Graduate School of Science and Engineering) WATANABE, Megumi; KUWATA, Shigeki; IKARIYA, Takao
- 4B2-32** Synthesis and reactivity of pincer-type ruthenium complexes containing bis(pyrazolyl)pyridine ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) YOSHINARI, Akihiro; KUWATA, Shigeki; IKARIYA, Takao
- 4B2-33** Synthesis and reactivities of sulfonylamido-bridged dinuclear ruthenium complexes (Graduate School of Science and Engineering, Tokyo Institute of Technology) KOISO, Naoyuki; KIMURA, Takashi; ISHIWATA, Koji; KUWATA, Shigeki; IKARIYA, Takao

Chair: KOIKE, Takashi (14 : 40~15 : 30)

- \* 14:30-14:40: interval for laptop PC connection.(4B2-35, 4B2-36, 4B2-37, 4B2-38, 4B2-39)
- 4B2-35** Substituent Effects on Cleavage of Aromatic C-N Bonds in Anilines by Ruthenium Complexes (Keio Univ.) KOREEDA, Tetsuro; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 4B2-36** Syntheses and Reactions of Bis(pyrazolato) Bridged Dinuclear Ruthenium Complexes bearing Tp Ligands (Nagasaki Univ.) KODAMA, Mika; MATSUMOTO, Naoki; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke; ONISHI, Masayoshi
- 4B2-37** N-C Coupling of NO Ligand on Nitrosylruthenium Complexes with Amines (Nagasaki Univ.) YAMAGUCHI, Souseki; MURABE, Takerou; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke; ONISHI, Masayoshi
- 4B2-38** Reaction of a Trinuclear Ruthenium Complex with Alkene and Alkyne (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) TAHARA, Atsushi; TAKAO, Toshiro; SUZUKI, Hiroharu
- 4B2-39** Reactivity of Dinuclear Ruthenium Imido Methylidyne Complex Toward Heterometallic Fragments (Department of Chemistry, Graduate School of Science, Osaka Prefecture Univ.) TANAKA, Sunao; KARITANI, Kenji; HONMA, Takashi; TAKEMOTO, Shin; FUJIWARA, Hideki; MATSUZAKA, Hiroyuki

## Room B3

Bldg.21 424

## Biofunctional Chemistry ; Biotechnology

Friday, March 26, PM

### Functional Small Molecule, Molecular Recognition

Chair: TAKEUCHI, Toshifumi (12 : 40~14 : 00)

- \* 12:30-12:40: interval for laptop PC connection.(1B3-23, 1B3-24, 1B3-25, 1B3-26, 1B3-27, 1B3-28, 1B3-30)
- 1B3-23** Synthesis and properties of pH responsive near-infrared fluorescent probe based on the BODIPY (Fac. Sci., Fukuoka Univ.) NAKANO, Yuriko; OYAMA, Yu; NAKAGAWA, Hiroyuki; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei
- 1B3-24** In vitro selection of RNA aptamers that can bind to synthetic GFP chromophore analogs (The Institute of Scientific and Industrial Research (ISIR), Osaka Univ.) YONEDA, Keisuke; HAGIHARA, Masaki; NAKATANI, Kazuhiko
- 1B3-25** Synthesis and Application of Novel Triarylmethine Dyes. (The Institute of Scientific and Industrial Research, Osaka Univ.) MIZUNASHI, Tomoyuki; DOHNO, Chikara; HAGIHARA, Masaki; NAKATANI, Kazuhiko
- 1B3-26** Synthetic molecules for biomolecular chemistry 4 : Systematic evaluation of properties of supramolecular probes designed for <sup>19</sup>F NMR/MRI-based specific protein detection (Grad. Sch. Eng., Kyoto Univ.) KIMINAMI, Keishi; TAKAOKA, Yusuke; TSUKIJI, Shinya; HAMACHI, Itaru
- 1B3-27** Synthetic molecules for biomolecular chemistry 5 : Self-assembling nanoprobe for fluorescent OFF/ON protein detection. (Grad. Sch. Eng., Kyoto Univ.) MIZUSAWA, Keigo; TAKAOKA, Yusuke; ISHIDA, Yoshiyuki; TSUKIJI, Shinya; HAMACHI, Itaru
- 1B3-28\*** Synthetic molecules for biomolecular chemistry 6: Small Molecules with subcellular localization properties (Grad. Sch. Eng., Kyoto Univ.) TSUKIJI, Shinya; HAMACHI, Itaru
- 1B3-30** Development of "tailor-made" synthesis of duplex-based, fluorescent sensors and their selective detection of unsaturated fatty acids (Univ. of Toyama) YAMADA, Shogo; FUJIMOTO, Kazuhisa; INOUE, Masahiko

Chair: HAGIHARA, Masaki (14 : 10~15 : 30)

- \* 14:00-14:10: interval for laptop PC connection.(1B3-32, 1B3-34, 1B3-35, 1B3-36, 1B3-37)
- 1B3-32\*** Newly designed cell permeable SNARF derivative as the notable intracellular pH indicator (The Univ. of Tokushima) NAKATA, Eiji; YUKIMACHI, Yoshihiro; NAZUMI, Yoshiji; UTO, Yoshihiro; MAEZAWA, Hiroshi; HORI, Hitoshi
- 1B3-34** Ratiometric Sensing of Nucleoside Phosphate Using Xanthene Based Zinc Complex Chemosensor & Label-Free Real-Time Fluorescent Assay for Enzyme Reaction Involving Nucleoside Phosphate (Kyoto Univ.) KURISHITA, Yasutaka; OJIDA, Akio; HAMACHI, Itaru
- 1B3-35** Design of Protein Sensing Surface Using Reflectometric Interference Spectroscopy (Grad. Sch. Eng., Kobe Univ.) CHOI, Hyungwoo; YOSHIDA, Kazunari; OOOYA, Tooru; TAKEUCHI, Toshifumi
- 1B3-36** Synthesis of protein recognizable materials using a fluorescent molecule-based functional monomer (Grad. Sch. Eng., Kobe Univ.) INOUE, Yuki; KUWAHARA, Atsushi; OOMORI, Kouhei; SUNAYAMA, Hitobumi; OOOYA, Tooru; TAKEUCHI, Toshifumi

**1B3-37\*** Preparation of molecularly imprinted polymers using amicro-fluidic device for recognizing bioactive substance (Grad. Sch. Eng., Kobe Univ.) TAKANO, Eri; TANAKA, Fujimaru; SASAKI, Syougo; OOYA, Tooru; TAKEUCHI, Toshihumi

Chair: IWAOKA, Michio (15 : 30~16 : 30)

\* 15:20-15:30: interval for laptop PC connection.(1B3-40)

**1B3-40#** Special Lecture Withdrawn

Chair: OJIDA, Akio (16 : 30~17 : 30)

\* 16:20-16:30: interval for laptop PC connection.(1B3-46, 1B3-48, 1B3-49, 1B3-50, 1B3-51)

**1B3-46\*** Luminescent Sensing by Organic-modified Semiconductor Clusters based on Molecular Recognition Strategies (Faculty of Environmental Earth Science, Hokkaido Univ.) TAKASE, Eri; IDA, Manami; KONISHI, Katsuki

**1B3-48** Development of MRI probes for metal cations based on carbon-boron bond cleavage upon metal complexation (Faculty of Pharmaceutical Sciences, Tokyo Univ. of Science; Center for Technologies against Cancer, Tokyo Univ. of Science) KITAMURA, Masanori; AOKI, Shin

**1B3-49** Development of Redox Sensors Having an Se-N Bond (Doshisha Univ.) HITOMI, Yutaka; FURUKAWA, Jun-ichi; HATA, Masashi; FUNABIKI, Takuzo; KODERA, Masahito

**1B3-50** Synthesis and properties of peroxide sensitive fluorescent probe containing indole moiety (Fac. Sci., Fukuoka Univ.) MATSUKI, Takahiro; NAKAGAWA, Hiroyuki; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei

**1B3-51** Kinetic investigation on reaction of superoxide radical and selected scavengers by flow-injection ESR (Kyoto Institute of Technology) SAKURAI, Yasuhiro; NAKAJIMA, Akira; KANAORI, Kenji; TAJIMA, Kunihiko

Chair: OHKANDA, Junko (17 : 40~18 : 30)

\* 17:30-17:40: interval for laptop PC connection.(1B3-53, 1B3-54, 1B3-55, 1B3-56, 1B3-57)

**1B3-53** Evaluation of SOD-like activity of water-soluble sulfonated salen manganese (III) complex (Grad. Sch. Sci. Eng, Yamagata Univ.) SATO, Jun; KATAGIRI, Hiroshi; UNOURA, Kei; OGATA, Tateaki; OHBA, Yoshiro

**1B3-54#** Transition Metal Ion in FRET for Cryptand Based Systems (Graduate School of Engineering, Osaka Univ.) SADHU, Kalyan Kumar; BANERJEE, Subhasree; DATTA, Anindya; BHARADWAJ, Parimal K.

**1B3-55** Development of carbohydrate-based ligands for biological application (Nara Women's Univ.) NOGUCHI, Yuka; MIKATA, Yuji

**1B3-56** Development of electrophoresis using a supramolecular hydrogel (Shizuoka Univ.) YAMAMICHI, Sachiyo; OYOSHI, Takanori; TOMITORI, Hideyuki; KASHIWAGI, Keiko; YAMANAKA, Masamichi

**1B3-57<sup>†</sup>** The synthesis and Properties of PI polyamide-HDAC inhibitor conjugate (Kyoto Univ.; Nihon Univ.) OHTSUKI, Akimichi; IWASAKI, Makoto; KIMURA, Makoto; NAGASE, Hiroki; BANDO, Toshikazu; SUGIYAMA, Hiroshi

## Saturday, March 27, AM

### Functional Small Molecule, Molecular Recognition

Chair: SAGA, Yoshitaka (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2B3-01, 2B3-02, 2B3-03, 2B3-04, 2B3-05, 2B3-06)

**2B3-01** Selective detection of Tyr phosphorylation using Tb(III) complex (RCAST, The Univ. of Tokyo) AKIBA, Hiroki; WATANABE, Yuuki; SUMAOKA, Jun; KOMIYAMA, Makoto

**2B3-02** Detection of Tyr phosphorylation using Tb(III)-peptide complex (RCAST, The Univ. of Tokyo) WATANABE, Yuki; AKIBA, Hiroki; SUMAOKA, Jun; KOMIYAMA, Makoto

**2B3-03** Fluorescent response of isoquinoline-based amine derivatives for zinc ion (Nara Women's Univ.) KAWATA, Keiko; MIKATA, Yuji

**2B3-04** Quinoline-based Alkanethioether Scaffolds as Fluorescent Sensor for Mercury(II) Ion (Nara Women's Univ.) NAKAGAKI, Fumie; MIKATA, Yuji

**2B3-05** Mimicing the cytochrome-c maturation processes on CcmE by synthetic organic chemistry (Utsunomiya Univ.) OBA, Toru; YANAGIDA, Shino; ITO, Satoshi; HIRATANI, Kazuhisa

**2B3-06** Relationship between protoporphyrin IX concentration in feces and digestive tract cancer. (Numazu National college of technology; Hasumi Lab.) HORIUCHI, Ai; OKAI, Miyuki; OHTA, Toshiya; WATABE, Satoshi; KAMIYA, Shinji; TUCHIYA, Tatsuyuki; YAMAMOTO, Toshiki; TAKEGUCHI, Masayuki; HASUMI, Fumihiko

Chair: MATSUO, Takashi (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2B3-08, 2B3-09, 2B3-10, 2B3-11, 2B3-12, 2B3-13)

**2B3-08** Substituent effects on self-aggregation of zinc chlorin in polypeptide solutions (Ryukoku Univ.) MIYATAKE, Tomohiro; MUKAI, Yumi

**2B3-09** Electrochemical properties of chlorophyll analogues and their aggregates (Ryukoku Univ.) MIYATAKE, Tomohiro; MORISHIMA,

Katsuki; KASUNO, Megumi

**2B3-10** Formation of methanol-locked, folded conformers using synthetic zinc chlorophyll dimers and their physical properties (Ritsumeikan Univ.) TAMIAMI, Hitoshi; FUKAI, Kazuhiro; KUNIEDA, Michio

**2B3-11** Syntheses of chlorophyll derivatives possessing an oligomethylene chain at the 17-propionate residue and their self-aggregation (Ritsumeikan Univ.) TAMIAMI, Hitoshi; SHOJI, Sunao; KUNIEDA, Michio; NUMATA, Munenori; HATANO, Tsukasa

**2B3-12** Synthesis of zinc bacteriochlorophyll-*d* analogues and their self-aggregation (Ritsumeikan Univ.) TAMIAMI, Hitoshi; ITO, Akira; KUNIEDA, Michio

**2B3-13** Syntheses and properties of chlorophyll transporting peptides (Utsunomiya Univ.) OBA, Toru; OINUMA, Sakae; ITO, Satoshi; HIRATANI, Kazuhisa

Chair: SHINOKUBO, Hiroshi (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2B3-15, 2B3-16, 2B3-17, 2B3-18, 2B3-20)

**2B3-15** Analysis of Extramembranous Light-Harvesting Complexes from the Green Sulfur Photosynthetic Bacterium Containing Unnatural Bacteriochlorophylls (Kinki Univ.; Ritsumeikan Univ.) NISHIMORI, Risato; MIZOGUCHI, Tadashi; TAMIAMI, Hitoshi; SAGA, Yoshitaka

**2B3-16** Isolation of Epimers of Zinc Bacteriochlorophyll *d* Analogs Possessing Triethoxysilyl Group and Their Self-Assembly (Kinki Univ.; Ritsumeikan Univ.) SAGA, Yoshitaka; TAKAHASHI, Naoya; TAMIAMI, Hitoshi

**2B3-17** Analysis of Adsorption of Chlorophyll Derivatives Possessing Carboxyl Groups on TiO<sub>2</sub> (Kinki Univ.) SAGA, Yoshitaka; OTONO, Tae

**2B3-18\*** Kinetic Analysis of Demetalation of Natural Chlorophylls and Their Model Compounds in Oxygenic Photosynthetic Organisms (Kinki Univ.; Ritsumeikan Univ.) HIRAI, Yuki; TAMIAMI, Hitoshi; SAGA, Yoshitaka

**2B3-20** Kinetic Analysis of Reduction of Formyl Groups in Natural Chlorophylls (Kinki Univ.) SADAOKA, Kana; SAGA, Yoshitaka

## Saturday, March 27, PM

### Functional Small Molecule, Molecular Recognition

Chair: TAMIAMI, Hitoshi (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2B3-28, 2B3-30, 2B3-32, 2B3-33)

**2B3-28\*** Construction of Porphyrin-based Supramolecular Macrorings and Evaluation of Excitation Energy Transfer in the Macrorings (R-GIRO, Ritsumeikan Univ.; Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST); Graduate School of Engineering Science, Osaka Univ.) FUJISAWA, Kaori; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi; HIROTA, Shun; KOBUE, Yoshiaki; SATAKE, Akiharu

**2B3-30\*** Self-assembling of Azaindole-appended Porphyrins (Grad. Sch. Sci., Kyoto Univ.) MAEDA, Chihiro; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko

**2B3-32\*** Reaction of Ethyldiazoacetate with Cobalt Porphyrinoids (Graduate School of Engineering, Osaka Univ.) CHATTOPADHYAY, Prosenjit; TSUJI, Takanori; OOBAYASHI, Jyun; MATSUO, Takashi; ONODA, Akira; HAYASHI, Takashi

**2B3-33** Halide ion binding of cryptand-like porphyrinoid (Grad. Sch. Sci., Kobe Univ.) SONODA, Makoto; NISHINAKA, Takeshi; SETSUNE, Jun-ichiro

Chair: MIKATA, Yuji (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2B3-35, 2B3-36, 2B3-37, 2B3-39, 2B3-40)

**2B3-35** Helicity control of dinuclear Co complexes of expanded porphyrinoid by coordination of amino acids (Grad. Sch. Sci., Kobe Univ.) SETSUNE, Jun-ichiro; KAWAMA, Miku; NISHINAKA, Takeshi

**2B3-36** Synthesis of mono(imidazolyl)-substituted water-soluble porphyrin Zn complex and its self-organization in water (Fac. Eng., Gifu Univ.) FUJIMOTO, Junko; MIYAJI, Hidekazu

**2B3-37\*** Synthesis and Complementary Recognition of beta-Hairpin Peptides Stabilized by DNA-Base Pairing Amino Acids. (NIMS) ISOZAKI, Katsuhiko; MIKI, Kazushi

**2B3-39** Screening for His-tag recognition molecules with ion trap mass spectrometry. (Dept. of Life Sci. Med. Biosci., School of Adv. Sci. & Eng., Waseda Univ.) HIROSAWA, Shota; ARAI, Satoshi; MURATA, Atsushi; TAKEOKA, Shinji

**2B3-40** Detection of Influenza Virus using localized surface plasmon resonances (Tokyo Metropolitan Industrial Technology Research Institute, Lifescience group) MONKAWA, Akira; KAZAWA, Elito

Chair: YAMAMOTO, Tatsuyuki (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(2B3-42, 2B3-43, 2B3-44, 2B3-45, 2B3-46, 2B3-47)

**2B3-42** Photodynamic effect and biological activity of *S*-glucosylated fluoro-chlorine (Innovative Collaboration Center Kyoto Univ.) YOSHIDA, Yuki; OI, Hiromi; NAEMURA, Masami; MORIWAKI, Kazuhiro; TSUJII, Ryoto; AKASHI, Haruo; SHIBAHARA, Takashi; ENDO, Hiroko; INOUE, Masahiro; TOSHIMITSU, Akio; YANO, Shigenobu

**2B3-43** Synthesis of Antibacterial Cyclodextrin by Microwave-Assisted Click



Chemistry (Nagoya Institute of Technology, Graduate School of Engineering) KURATA, Ryuji; SHIMOHARA, Kyohei; MIYAGAWA, Atsushi; YAMAMURA, Hatsuo

- 2B3-44** Synthesis of cyclodextrin derivatives having inhibitory effect on quorum sensing. (Fac. Eng., Utsunomiya Univ.) NAGAYAMA, Yuki; ITO, Satoshi; MOROHOSHI, Tomohiro; KATO, Norihiro; IKEDA, Tsukasa; OBA, Toru; HIRATANI, Kazuhisa
- 2B3-45** Synthesis of the cyclodextrin dimer with a triazole moiety and the inclusion phenomena of polymer (Graduate School of Science and Engineering, Saitama Univ.) IGUCHI, Kensaku; ISHIMARU, Yoshihiro
- 2B3-46** Synthesis and inclusion phenomena of the cyclodextrin dimer with a naphthalene moiety (Graduate School of Science and Engineering, Saitama Univ.) NISHIBAYASHI, Takanori; ISHIMARU, Yoshihiro
- 2B3-47** Synthesis and inclusion phenomena of the heterogeneous cyclodextrin dimer with a benzene moiety (Graduate School of Science and Engineering, Saitama Univ.) LI, Lin; ISHIMARU, Yoshihiro

Chair: ISHIMARU, Yoshihiro (17:00~17:30)

\* 16:50-17:00: interval for laptop PC connection.(2B3-49, 2B3-50, 2B3-51)

- 2B3-49** Molecular recognition of Guanidine modified  $\alpha$ -Cyclodextrins (Shimane Univ.) TAKEZAWA, Keita; YOSHIKIYO, Keisuke; MATSUI, Yoshihisa; YAMAMOTO, Tatsuyuki
- 2B3-50** Solubilization of hydrophobic molecules by complexation with Guanidine modified Cyclodextrins (Faculty of Life and Environmental Science, Shimane Univ.) YOSHIKIYO, Keisuke; SUGIURA, Gohki; MATSUI, Yoshihisa; YAMAMOTO, Tatsuyuki
- 2B3-51** Interaction of Cyclodextrin with Serum Albumins (Grad. Sch. Sci., Osaka Univ.) OI, Wataru; ISOBE, Mio; TAURA, Daisuke; HASHIDZUME, Akihiro; HARADA, Akira

## Sunday, March 28, AM

### Protein,Enzyme

Chair: NAKAJIMA, Hiroshi (9:30~10:00)

\* 9:20-9:30: interval for laptop PC connection.(3B3-04, 3B3-05, 3B3-06)

- 3B3-04** Construction and DNA-binding Properties of Reconstituted Hemoprotein Tethering Polyamine Interface (Osaka Univ.) KOGA, Satoe; NAGAI, Hirokazu; ONODA, Akira; HAYASHI, Takashi
- 3B3-05** Construction of Hemoprotein Supramolecular Complexes Using Synthetic Heme Dimer (Sch. Eng., Osaka Univ.) TAKAHASHI, Akinori; OOHORA, Koji; ONODA, Akira; HAYASHI, Takashi
- 3B3-06** Preparation of oxygen storage polymers having myoglobin model complexes in their side-chains (Doshisha Univ.) OKUNAKA, Sayuri; OTA, Yusuke; KITAGISHI, Hiroaki; KANO, Koji

Chair: AONO, Shigetosh (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(3B3-08, 3B3-09, 3B3-10, 3B3-11, 3B3-12, 3B3-13)

- 3B3-08** Trapping the Intermediates of Oxidation Reactions Catalyzed by Hemeproteins in Model Systems (Doshisha Univ.) TAMAKI, Mariko; KITAGISHI, Hiroaki; HIROTA, Shun; OHTA, Takehiro; NARUTA, Yoshinori; KANO, Koji
- 3B3-09** Structural and Thermodynamic Properties of Dimeric and Trimeric Cytochrome *c* (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) HATTORI, Yoko; NAGAO, Satoshi; TAKETA, Midori; KAMIKUBO, Hironari; NEGI, Shigeru; SUGIURA, Yukio; KATAOKA, Mikio; HIGUCHI, Yoshiki; HIROTA, Shun
- 3B3-10** Formation of *Pseudomonas aeruginosa* cytochrome *c*<sub>551</sub> oligomers (Nara Institute of Science and Technology, Graduate School of Materials Science) UEDA, Mariko; NAGAO, Satoshi; HIROTA, Shun
- 3B3-11** Studies on structure and ligand binding character of dimeric myoglobin (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) YAMADA, Takuya; OSUKA, Hisao; NAGAO, Satoshi; HIROTA, Shun
- 3B3-12** Effect of electronic properties of heme peripheral side chains on electron density and reactivity of heme Fe atom in Myoglobin (Univ. of Tsukuba) FUKAYA, Masashi; SHIBATA, Tomokazu; TAI, Hulin; NAGATOMO, Shigenori; YAMAMOTO, Yasuhiko; SUZUKI, Akihiro
- 3B3-13** NMR studies on the structure of dimeric myoglobin (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) NAGAO, Satoshi; AMAGAI, Makoto; YAMADA, Takuya; HIROTA, Shun

Chair: HISAEDA, Yoshio (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(3B3-15)

- 3B3-15** CSJ Award for Creative Works Functionalization of Hemoproteins Reconstituted with Artificial Prosthetic Groups (Grad. Sch. Eng., Osaka Univ.) HAYASHI, Takashi

## Sunday, March 28, PM

Chair: SHIRO, Yoshitsugu (13:30~14:40)

\* 13:20-13:30: interval for laptop PC connection.(3B3-28, 3B3-29, 3B3-30, 3B3-31, 3B3-32, 3B3-34)

- 3B3-28** Synthesis of PEGylated myoglobin model compound (Doshisha Univ.) UEDA, Takanori; KITAGISHI, Hiroaki; KANO, Koji
- 3B3-29** Gold nanoparticles modified by supramolecules having myoglobin-like functions (Faculty of Science and Engineering, Doshisha Univ.) KARASUGI, Keiichi; KITAGISHI, Hiroaki; KANO, Kouji
- 3B3-30** Preparation and photoelectrochemical properties of gold electrode-modified with Zn-substituted cytochrome *b562* assembly (Osaka Univ.) KAKIKURA, Yasuaki; ONODA, Akira; HAYASHI, Takashi
- 3B3-31** Construction of Gold Nanoparticle-Hemoprotein Conjugates by Using Heme-Heme Pocket Interaction (Graduate School of Engineering, Osaka Univ.) UEYA, Yuichi; ONODA, Akira; HAYASHI, Takashi
- 3B3-32\*** Construction of photoinduced electron transfer system in myoglobin crystals (iCeMS, Kyoto Univ.) KOSHIYAMA, Tomomi; SHIRAI, Masanobu; TANAKA, Koichiro; KITAGAWA, Susumu; UENO, Takafumi
- 3B3-34** Functionalization of protein crystals with metal ions (Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) TABE, Hiroyasu; KOSHIYAMA, Tomomi; KITAGAWA, Susumu; UENO, Takafumi

## Monday, March 29, AM

### Protein,Enzyme

Chair: ISHIMORI, Koichiro (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4B3-01, 4B3-03, 4B3-04, 4B3-05)

- 4B3-01\*** Mechanism of oxygen recognition of YddV, an oxygen sensor enzyme associated with biofilm formation in *E. coli* (IMRAM, Tohoku Univ.) KITANISHI, Kenichi; TANAKA, Atsunari; KOBAYASHI, Kazuo; ISHIGAMI, Izumi; OGURA, Takashi; IGARASHI, Jotaro; SHIMIZU, Toru
- 4B3-03** Characterizations of Tyr43 and Gln60 Mutants of an Oxygen Sensor, YddV from *E. coli* (Inst. Mult. Res. Adv. Mat., Tohoku Univ.) NAKAJIMA, Kyousuke; KAWAMURA, Yuriko; KITANISHI, Kenichi; IGARASHI, Jotaro; SHIMIZU, Toru
- 4B3-04** Monooxidations and Catalase Reaction of Hydrogen Peroxide-Dependent P450 (Grad. Sch. Sci. Nagoya Univ., RIKEN SPring-8 Cent. Harima Inst., Res. Cent. for Mat. Sci., Nagoya Univ.) TANAKA, Shota; SHOJI, Osami; FUJISHIRO, Takashi; HORI, Ayumi; SHIRO, Yoshitsugu; WATANABE, Yoshihito
- 4B3-05\*†** X-ray crystal structure analysis of cytochrome P450<sub>SP $\alpha$</sub>  and the oxidation reactions of non-natural substrates (Grad. Sch. Sci. Nagoya Univ., RIKEN SPring-8 Ctr. Harima Inst.; Grad. Sch. Engineering, Tottori Univ.; Res. Ctr. Mat. Sci. Nagoya Univ.) FUJISHIRO, Takashi; SHOJI, Osami; WATANABE, Takahiro; NAGANO, Shingo; SHIRO, Yoshitsugu; WATANABE, Yoshihito

Chair: HIROTA, Shun (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4B3-08, 4B3-09, 4B3-10, 4B3-11, 4B3-12, 4B3-13)

- 4B3-08** Cu-induced Cross Linkage Formation between Cys and His in the Active Site of Fungal Tyrosinase (Graduate School of Engineering, Osaka Univ.) IKEDA, Takuya; FUJIEDA, Nobutaka; ITOH, Shinobu
- 4B3-09** Characterization and Reactivity Studies of Peroxo Species Involved in the Active Site of Fungal Oxy-Tyrosinase (Graduate School of Engineering, Osaka Univ.) FUJIEDA, Nobutaka; IKEDA, Takuya; ITOH, Shinobu
- 4B3-10** Preparation and Spectroscopic Properties of Metal-substituted Fungal Tyrosinase (Graduate School of Engineering, Osaka Univ.) YABUTA, Shintaro; IKEDA, Takuya; FUJIEDA, Nobutaka; ITOH, Shinobu
- 4B3-11** Construction of novel Sensing Mechanism Utilizing Azurin-PNIPAM Conjugate (Grad. Sch. Sci. Nagoya Univ., RCM Sci., Nagoya Univ.) OZAWA, Suguru; NAKAJIMA, Hiroshi; WATANABE, Yoshihito
- 4B3-12** XAS of Plastocyanin from *Dryopteris crassirhizoma* (Ibaraki Univ.; SSR) TOGASHI, Hiromi; YANO, Junko; HARRIS, Travis V.; YACHANDRA, Vittal; SZILAGYI, Robert; KOHZUMA, Takamitsu
- 4B3-13** Spectroscopic and Electrochemical Studies of Pseudoazurin Met16His/His6Val Mutant (Ibaraki Univ.) OKAMI, Rie; NIHEI, Yuko; KOHZUMA, Takamitsu

Chair: ITOH, Shinobu (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4B3-15, 4B3-16, 4B3-17, 4B3-18, 4B3-20)

- 4B3-15** Acidic Transition of a Blue Copper Protein, Pseudoazurin Met16His mutant (Ibaraki Univ.) NIHEI, Yuko; OKAMI, Rie; KOHZUMA, Takamitsu
- 4B3-16** Electron transfer reaction between nitrous oxide reductase and physiological electron donor pseudoazurin from *Achromobacter cycloclastes*. (Institute of Applied Beam Science, Ibaraki Univ.) HIRASAWA, Mika; FUJITA, Koyu; DOOLEY, David M.; KOHZUMA, Takamitsu
- 4B3-17** Expression of copper-binding hydrophilic domain of particulate methane monooxygenase (Tokyo Institute of Technology) WASA, Naohiko; MIYAJI, Akimitsu; MOTOKURA, Ken; BABA, Toshihide
- 4B3-18\*** Molecular Design and Synthesis of Artificial Protein (Peptide Origami) Bearing a Ruthenium Complex as the Core and Its Photo-Induced Charge Separation (Grad. Sch. Sci., Kitasato Univ.) SHIINA, Yoshimi; OISHI, Shigero; SHIDA, Hitoshi

**4B3-20** Regioselective introduction of organometallic complex based on inhibition mechanism for enzyme activity (Nara Institute of Science and Technology (NAIST); Osaka Univ.) MATSUO, Takashi; IMAI, Chie; SAITO, Takashi; HAYASHI, Takashi; HIROTA, Shun

Monday, March 29, PM

Protein, Enzyme

Chair: ONODA, Akira (13:30~14:10)

- \* 13:20-13:30: interval for laptop PC connection. (4B3-28, 4B3-29, 4B3-30, 4B3-31)
- 4B3-28** Redox Behavior of Cu-substituted Metallo- $\beta$ -Lactamase (Graduate School of Engineering, Osaka Univ.) HASEGAWA, Atsuhiko; FUJIEDA, Nobutaka; ITOH, Shinobu
- 4B3-29** Isolation and Reactivity Studies of Crab Hemocyanin Subunits (Graduate School of Engineering, Osaka Univ.) YAKIYAMA, Aki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 4B3-30** Development of Zinc Fluorescence Sensors Based on Lanthanide-containing Peptide (Kyoto Univ.) SHIRAKAWA, Yoshinori; TAKI, Masayasu; YAMAMOTO, Yukio
- 4B3-31** Light sensitivity of oxidized [NiFe]hydrogenase (Graduate School of Materials Science, Nara Inst. of Sci. and Tech.) OSUKA, Hisao; SHOMURA, Yasuhito; KOMORI, Hirofumi; SHIBATA, Naoki; HIGUCHI, Yoshiki; HIROTA, Shun
- Chair: HAYASHI, Takashi (14:20~15:00)
- \* 14:10-14:20: interval for laptop PC connection. (4B3-33, 4B3-34, 4B3-35, 4B3-36)
- 4B3-33** Crystal structure of verdoheme-heme oxygenase-I complex (Kurume Univ. Sch. of Med.; Kyushu Inst. of Tech.; Osaka Univ.) SATO, Hideaki; SUGISHIMA, Masakazu; SAKAMOTO, Hiroshi; HIGASHIMOTO, Yuichiro; FUKUYAMA, Keiichi; NOGUCHI, Masato
- 4B3-34** Study on active intermediates of an artificial peroxidase founded on a thermally tolerant protein form *Thermus thermophilus* (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) NAKAJIMA, Hiroshi; KAWABA, Naomi; RAMANATHAN, Kalaivani; WATANABE, Yoshihito
- 4B3-35** Kinetic study of an artificial peroxidase founded on a thermally tolerant protein form *Thermus thermophilus* (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) RAMANATHAN, Kalaivani; KAWABA, Naomi; NAKAJIMA, Hiroshi; WATANABE, Yoshihito
- 4B3-36** Oxidation of Aromatic Rings by Myoglobin Mutants (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) SHIRATAKI, Chikako; SHOJI, Osami; WIESE, Christian; WATANABE, Yoshihito

Chair: SATO, Hideaki (15:10~16:10)

- \* 15:00-15:10: interval for laptop PC connection. (4B3-38, 4B3-39, 4B3-40, 4B3-41, 4B3-42)
- 4B3-38** Roles of Cysteine Residues and Hydrogen Sulfide in Catalysis of an Oxygen Sensor Enzyme, *Ec* DOS (IMRAM, Tohoku Univ.) SEKIMOTO, Madoka; TAKAHASHI, Hiroto; IGARASHI, Jotaro; SHIMIZU, Toru
- 4B3-39** Molecular Mechanism of Catalytic Regulation of an Oxygen-sensor Enzyme, *Ec* DOS (IMRAM, Tohoku Univ.) HONJO, Atsuko; SEKIMOTO, Madoka; TAKAHASHI, Hiroto; IGARASHI, Jotaro; SHIMIZU, Toru
- 4B3-40** The Mutational Effect of Human Heme-regulated eIF2 $\alpha$  Kinase, HRI (Inst. Multi. Res. Adv. Mat., Tohoku Univ.) NAKAMURA, Yasuna; IGARASHI, Jotaro; SHIMIZU, Toru
- 4B3-41** Identification of amino acid residues responsible for the electron transfer reaction with cytochrome *c* oxidase in cytochrome *c* (Hokkaido Univ.) INOUE, Kaoru; SAKAMOTO, Koichi; UCHIDA, Takeshi; SHINZAWA-ITOH, Kyoko; YOSHIKAWA, Shinya; ISHIMORI, Koichiro
- 4B3-42** Characterization of novel sensor protein with the heme-PAS domain (Okazaki Inst. Integ. Biosci.) AONO, Shigetoshi; SAWAI, Hitomi; ISHIKAWA, Haruto

**Room B4**  
Bldg.21 433

Biofunctional Chemistry ; Biotechnology

Friday, March 26, PM

Protein, Enzyme

Chair: TORIGOE, Hidetaka (13:00~13:50)

- \* 12:50-13:00: interval for laptop PC connection. (1B4-25, 1B4-26, 1B4-28)
- 1B4-25** Development and Characterization of Novel Helical Glycopeptides (Tokyo Univ. Technol.) WADA, Takeaki; OKADA, Tomoko; MINOURA, Norihiko
- 1B4-26** Clarification of the photo-induced DNA repair mechanism of photolyase by the time-resolved diffusion method (Kyoto Univ. Science)

KONDOH, Masato; HITOMI, Kenichi; YAMAMOTO, Junpei; IWAI, Shigenori; TODO, Takeshi; GETZOFF, Elizabeth; TERAZIMA, Masahide

**1B4-28** The effect, mechanism, and design for the protein aggregation suppressor (Japan Synchrotron Radiation Research Institute (SPring-8)) ITO, Len; SHIRAKI, Kentaro; YAMAGUCHI, Hiroshi; KUMASAKA, Takashi

Chair: SONOYAMA, Masashi (14:00~15:00)

- \* 15:30-14:00: interval for laptop PC connection. (1B4-31, 1B4-33, 1B4-35)
- 1B4-31** The Biological relevance of photochemical parameters and microscopic rate constants of the LOV protein YtvA from *Bacillus subtilis* (Univ. of Amsterdam) NAKASONE, Yusuke; AVILA-PEREZ, Marcela; HENDRIKS, Johnny; SMITH, J.P.
- 1B4-33** Thermodynamic stability of allergenic protein - egg white ovomucoid (HPPRC, Kinki Univ.) MAENO, Akihiro; NAGAMATSU, Hiroaki; MATSUO, Hiroshi; ODANI, Sumiko; AKASAKA, Kazuyuki
- 1B4-35** Proteolysis under high pressure (1) -Reduction of allergenicity for Lysozyme from hen egg white- (HPPRC, Kinki Univ.) MATSUO, Hiroshi; NAGAMATSU, Hiroaki; MAENO, Akihiro; ODANI, Sumiko; AKASAKA, Kazuyuki

Chair: TERAZIMA, Masahide (15:10~16:10)

- \* 15:00-15:10: interval for laptop PC connection. (1B4-38, 1B4-40, 1B4-41, 1B4-42, 1B4-43)
- 1B4-38** Proteolysis under high pressure (2) - Reduction of allergenicity for Ovomucoid from hen egg - (HPPRC, Kinki Univ.) NAGAMATSU, Hiroaki; MATSUO, Hiroshi; MAENO, Akihiro; ODANI, Sumiko; AKASAKA, Kazuyuki
- 1B4-40** Observation of kinetic intermediates in the early oxidative folding events of ribonuclease A (Tokai Univ.) ARAI, Kenta; KUMAKURA, Humio; IWAOKA, Michio
- 1B4-41** Reinvestigation of oxidative folding pathways of hen white egg lysozyme by using a water-soluble selenium reagent (Tokai Univ.) SHIBAGAKI, Wataru; ARAI, Kenta; IWAOKA, Michio
- 1B4-42** Structural analysis of okadaic acid binding protein 2.1 (OABP.2.1) (School of Science, The Univ. of Tokyo) MAKINO, Marie; KODAMA, Koichiro; FUKUZAWA, Seketsu; SEKINE, Shunichi; YOKOYAMA, Shigeyuki; TACHIBANA, Kazuo
- 1B4-43** The structure and function of a fluorescent protein (Osaka Pref. Univ.) ISOGAI, Masami; KAWAMOTO, Yoshihiro; INAHATA, Kazuto; SUGIMOTO, Kenji; TADA, Toshiji

Chair: FUKUZAWA, Seketsu (16:20~17:20)

- \* 16:10-16:20: interval for laptop PC connection. (1B4-45, 1B4-48, 1B4-50)
- 1B4-45** Young Scholar Lectures of CSJ Structure Analysis of Proteins by Synchrotron Radiation Vacuum-Ultraviolet Circular Dichroism (HISOR, Hiroshima Univ.) MATSUO, Koichi
- 1B4-48** Synthesis and Functionalization of Metal Materials in the Porous Space of Protein Crystals (iCeMS, Kyoto Univ.; PRESTO/JST; Grad. Sch. Eng., Kyoto Univ.) ABE, Satoshi; YONEDA, Ko; OHBA, Masaaki; YAMAMOTO, Shinpei; KITAGAWA, Susumu; UENO, Takafumi
- 1B4-50** Construction of novel reaction field based on beta-helix protein scaffold (Grad. Sch. Sci. Nagoya Univ.; Res. Ctr. Mat. Sci. Nagoya Univ.; Grad. Sch. Biosci. and Biotech. Tokyo Inst. Tech.; iCeMS, Kyoto Univ.; PRESTO) INABA, Hiroshi; YOKOI, Norihiko; TAKEZAWA, Yusuke; KANAMARU, Shuji; ARISAKA, Fumio; UENO, Takafumi; WATANABE, Yoshihito

Chair: UENO, Takafumi (17:30~18:20)

- \* 17:20-17:30: interval for laptop PC connection. (1B4-52, 1B4-53, 1B4-54, 1B4-55)
- 1B4-52** Structural stability of bacteriorhodopsin solubilized with short chain phospholipids (Dept. of Chem. and Chem. Biol., Gunma Univ.; Dept. of Biol. Sci., Hokkaido Univ.; Fac. of Adv. Life Sci. Hokkaido Univ.) FUKUMOTO, Mina; KUWABARA, Yumiko; KIKUKAWA, Takashi; DEMURA, Makoto; SONOYAMA, Masashi
- 1B4-53** Reaction mechanism and fluctuation of blue light sensory protein TePixD using high pressure TG method (Grad. Sch. Sci., Kyoto Univ.) KUROKI, Kunisato; TANAKA, Keisuke; NAKASONE, Yusuke; OKAJIMA, Koji; IKEUCHI, Masahiko; TOKUTOMI, Satoru; TERAZIMA, Masahide
- 1B4-54** Thermodynamic analyses of the interaction between single-stranded telomeric DNA-binding domain of Pot1 and the single-stranded telomeric DNA (Tokyo Univ. of Sci.) KANEDA, Kaoru; TAKEHARA, Takashi; FUKUSHI, Miyako; KOZASA, Tetsuo; TORIGOE, Hidetaka
- 1B4-55** The effects of ultra-violet radiation at Antarctica on the bovine cornea and lens by vibrational spectroscopy (Faculty of Life and Environmental Science, Shimane Univ.) YAMAMOTO, Tatsuyuki; IMURA, Satoshi

Saturday, March 27, AM

Protein, Enzyme

Chair: SAKAMOTO, Seiji (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection. (2B4-01, 2B4-02, 2B4-03, 2B4-04, 2B4-05)
- 2B4-01** Effective Formation of Functionalized Amyloid Nanowire by Using

SCAP Method (Hokkaido Univ., Dept. of Chem., Fac. of Sci.) SAKAI, Hiroki; WATANABE, Ken; CHUMAN, Yoshiro; UOSAKI, Kohei; SAKAGUCHI, Kazuyasu

- 2B4-02** Self-Assembly of Stimuli-Responsive Polypeptides and their Molecular Chaperone Effects (The Univ. of Tokyo) SUGAWARA, Ayae; HANAMURA, Ryo; TIRRELL, David A.; OKUBO, Tatsuya
- 2B4-03** Synthesis of site-specifically PEGylated interferon using nonnatural amino acid mutagenesis (JAIST) SHOZEN, Naoki; HOHSAKA, Takahiro
- 2B4-04** Cyclic Peptide Nanotube Formation without D-amino acid (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) TANAKA, Daichi; TERANISI, Hitomi; NISINO, Norikazu; KATO, Tamaki
- 2B4-05\*** Synthesis of cyclic peptides using the NEXT-A reaction (Okayama Univ.) TAKI, Masumi; HAMAMOTO, Toshimasa; SISIDO, Masahiko

Chair: MIHARA, Hisakazu (10 : 10~11 : 00)

- \* 10:00-10:10: interval for laptop PC connection.(2B4-08, 2B4-09, 2B4-11)
- 2B4-08** Design and Preparation of Split-GFP for Sensing of Caspase 3 Activities (IMRAM, Tohoku Univ.) SAKAMOTO, Seiji; TERAUCHI, Mika; ARAKI, Yasuyuki; WADA, Takehiko
- 2B4-09\*** Mechanism of amyloid fibril formation of ovalbumin and identification of the core regions. (Kyoto Inst. Tech.) TANAKA, Naoki; NOGUCHI, Yurika; MORIMOTO, Yumi; TOMINAGA, Shota; KUNUGI, Shigeru; WAKU, Tomonori; MORII, Takashi; TAKAHASHI, Nobuyuki
- 2B4-11\*** Design of tumor antigenic peptide with cell penetrating sequence for immunotherapy with heat shock protein (Kyoto Institute of Technology) WAKU, Tomonori; WATANABE, Yukari; HAIDA, Hiroto; KUNUGI, Shigeru; TANAKA, Naoki

Chair: TANAKA, Naoki (11 : 10~12 : 20)

- \* 11:00-11:10: interval for laptop PC connection.(2B4-14, 2B4-15, 2B4-16, 2B4-18, 2B4-20)
- 2B4-14** Analyses of lectin interaction with mono-saccharide-modified A-helix peptides with various amino acid sequences (Tokyo Institute of Technology) MAEDA, Yusuke; TAKAHASHI, Tsuyoshi; YUASA, Hideya; MIHARA, Hisakazu
- 2B4-15** Screening of insulin binding peptides from a structurally regulated peptide library (Tokyo Institute of Technology) ISHIGURO, Kojiro; SAWADA, Toshiki; TAKAHASHI, Tsuyoshi; MIHARA, Hisakazu
- 2B4-16\*** Screening and characterization of peptides that recognize self-assembling peptide nanomaterials (Tokyo Institute of Technology) SAWADA, Toshiki; TAKAHASHI, Tsuyoshi; MIHARA, Hisakazu
- 2B4-18\*** Phosphorylation effect on amyloid fibrillation of tau derived peptides (1) (Kyoto Univ., Institute of advanced energy) INOUE, Masafumi; TAINAKA, Kazuki; KONNO, Takashi; MORII, Takashi
- 2B4-20** Phosphorylation effect on amyloid fibrillation of tau derived peptides (2) (Kyoto Univ., Institute of advanced energy) KAIDA, Shinji; INOUE, Masafumi; TAINAKA, Kazuki; KONNO, Takashi; MORII, Takashi

## Saturday, March 27, PM

### Protein, Enzyme

Chair: DEWA, Takehisa (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2B4-28, 2B4-30, 2B4-32)
- 2B4-28\*** Observation of disulfide bond formation reaction on a DsbB-immobilized quartz-crystal microbalance (QCM) (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) YAZAWA, Kenjiro; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 2B4-30\*** Progressive change in rate constant for enzymatic reaction -Effect of porphyrin J-aggregates (Faculty of Science and Engineering, Doshisha Univ.) WATANABE, Kenji; KANO, Koji
- 2B4-32\*** Self-assembly of peptide nanocapsules from  $\beta$ -annulus peptides and their guest binding behavior. (Kyushu Univ.; PRESTO-JST) MATSUURA, Kazunori; WATANABE, Kenta; KIMIZUKA, Nobuo

Chair: MATSUURA, Kazunori (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2B4-35, 2B4-36, 2B4-37, 2B4-38, 2B4-39, 2B4-40)
- 2B4-35** Analysis of interaction forces between vero toxin and Gb3 sugar molecules by force-curve measurements. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) TSUYUKI, Yumi; MORI, Toshiaki; OKAHATA, Yoshio
- 2B4-36** Dynamics analysis of glycosylations catalyzed by dextran sucrose using force-curve measurements (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) ASAKURA, Megumi; MORI, Toshiaki; OKAHATA, Yoshio
- 2B4-37** Single molecule observation of enzymatic reactions of Chondroitin polymerase K4CP by high-speed atomic force microscopy. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) IIDA, Masaaki; MORI, Toshiaki; OKAHATA, Yoshio
- 2B4-38<sup>†</sup>** Reconstitution of photosynthetic antenna (LH1) complex using LH1-polypeptides, bacteriochlorophyll *a* and carotenoids (Nagoya Inst. of Tech.; CREST/JST; Nagoya Municipal Industrial Research Institute; Tohoku Univ.; Osaka City Univ.) NAKAGAWA, Katsunori; SAKAI, Shunnsuke; NAKASHIMA, Ayano; IIDA, Kouji; NAKAMURA, Ryousuke; YOSHIZAWA, Masayuki; FUJII, Ritsuko; HASHIMOTO, Hideki; DEWA,

Takehisa; NANGO, Mamoru

- 2B4-39** Reconstitution of bacteriochlorophyll and carotenoid complexes using antenna model-polypeptides (Nagoya Inst. of Tech.) SAKAI, Shunnsuke; NAKAGAWA, Katsunori; NAKASHIMA, Ayano; IIDA, Kouji; FUJII, Ritsuko; HASHIMOTO, Hideki; MIZUNO, Toshihisa; TANAKA, Toshiki; DEWA, Takehisa; NANGO, Mamoru
- 2B4-40** Preparation of virus capsules enabling controlled-release in a cellular-reducing environment (RIES, Hokkaido Univ.) MUSASHI, Yusuke; NIHKURA, Kenichi; OHTAKE, Noriko; SAWA, Hirofumi; IJIRO, Kuniharu

Chair: MIE, Masayasu (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2B4-42, 2B4-43, 2B4-44, 2B4-45, 2B4-46, 2B4-47)
- 2B4-42** Real-time monitoring of RNA transcription reactions on a quartz-crystal microbalance. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) TAKAHASHI, Shuntaro; OKAHATA, Yoshio
- 2B4-43** Evaluation of correlation between transcriptional activities and reaction kinetics of mutant RNA polymerase. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) YOSHIDA, Aya; TAKAHASHI, Shuntaro; OKAHATA, Yoshio
- 2B4-44** Observation of Phosphorylation Processes of Polynucleotide Kinase Using a Quartz-Crystal Microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) UEMURA, Kensuke; YOSHIMINE, Hiroshi; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 2B4-45** Construction and AFM observation of artificial planar lipid bilayer containing photosynthetic membrane proteins (Nagoya Institute of Technology) SUMINO, Ayumi; SASAKI, Nobuaki; WATANABE, Natsuko; HASHIMOTO, Hideki; DEWA, Takehisa; NANGO, Mamoru
- 2B4-46** Assembly of light-harvesting model polypeptide / pigments complex from photosynthetic bacteria onto substrates (Nagoya Institute of Technology) KONDO, Masaharu; NAKASHIMA, Ayano; SHUNNSUKE, Sakai; NAKAGAWA, Katsunori; HASHIMOTO, Hideki; MIZUNO, Toshihisa; TANAKA, Toshiki; DEWA, Takehisa; NANGO, Mamoru
- 2B4-47<sup>†</sup>** Assemblies and photo-current responses of photosynthetic proteins/pigments complexes on TiO<sub>2</sub> electrodes (Grad. School Eng., Nagoya Institute of Technology; CREST/JST) NAGATA, Morio; AMANO, Mizuki; KUZUYA, Koutarou; TAKEUCHI, Yoshito; ISHIGURO, Syuichi; DEWA, Takehisa; NANGO, Mamoru

Chair: IJIRO, Kuniharu (17 : 00~17 : 30)

- \* 16:50-17:00: interval for laptop PC connection.(2B4-49, 2B4-50, 2B4-51)
- 2B4-49** Effect of rare codons in translation reaction observed by a quartz-crystal microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) KUROTA, Daisuke; TAKAHASHI, Shuntaro; OKAHATA, Yoshio
- 2B4-50** Observation of translation termination on a quartz-crystal microbalance. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) SAITO, Hideki; TAKAHASHI, Shuntaro; OKAHATA, Yoshio
- 2B4-51** Construction of self-assembling peptide RADA16 fused protein (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) OMURO, Mayu; NAKAMURA, Makiko; MIE, Masayasu; KOBATAKE, Eiry

## Sunday, March 28, AM

### Biocatalysis

Chair: HAMADA, Hiroki (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(3B4-01, 3B4-02, 3B4-03, 3B4-04, 3B4-05)
- 3B4-01** Development of a novel domino reaction by esterase from *Sulfolobus tokodaii* strain 7 (Dept. of Biosciences and informatics, Keio Univ.) WADA, Reina; OHTA, Hiromichi; MIYAMOTO, Kenji; UEMURA, Daisuke
- 3B4-02** Synthesis of Optically Active Lactones via Enzymatic Hydrolysis of 1,2-Diol Monotosylate derivatives (Meisei Univ.) USUDA, Kazumasa; OKABE, Hirokazu; SHIMADA, Yasutaka; MATSUMOTO, Kazutsugu
- 3B4-03** Effect of an Addition of Albumin to an Enzymatic Hydrolysis of Enol Esters (Meisei Univ.) MATSUMOTO, Kazutsugu; MOCHIGI, Shoji; AKASAKA, Takuro; SATO, Taichi
- 3B4-04** Lipase-catalyzed enantioselective desymmetrization of prochiral 3-O-protected pentane-1,3,5-triol derivatives (Dept. Chem., Grad. Sch. Sci., Hiroshima Univ.) NAKAMURA, Yoshihiro; HIRAGA, Yoshikazu; MASAKI, Kazuo; IEFUJI, Haruyuki; ABE, Manabu
- 3B4-05** Rational Improvement of Catalytic Activity and Enantioselectivity of Lipase by Introducing Multiple Mutations (Okayama Univ.) EMA, Tadashi; NAKANO, Yasuko; KAMATA, Shusuke; KORENAGA, Toshinobu; SAKAI, Takashi

Chair: MATSUMOTO, Kazutsugu (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(3B4-07, 3B4-08, 3B4-09, 3B4-10, 3B4-11, 3B4-12)
- 3B4-07** The study of new water soluble curcumin (Faculty of Sci., Okayama Univ. of Sci.) OHARA, Takahiro; SHIMODA, Kei; KTSURGI, Hisashi; HAMADA, Hiroki

- 3B4-08** Biotransformation of 4-isopropylaniline using plant cultured cells (Faculty of Sci., Okayama Univ. of Sci.) KITAGAWA, Megumi; SHIMODA, Kei; KATURAGI, Hisashi; HAMADA, Hiroki
- 3B4-09** Biotransformation of Silybin using plant cultured cells (Faculty of Sci., Okayama Univ. of Sci.) IMAI, Hiroya; SHIMODA, Kei; HAMADA, Hiroki
- 3B4-10** Biotransformation of terpenoids using plant cultured cells (Faculty of Sci., Okayama Univ. of Sci.) HIRANO, Hirotsuka; SHINMODA, Kei; KATSURAGI, Hisashi; HAMADA, Hiroki
- 3B4-11** Chemical Modification of Biogenous Iron Oxide to Create an Excellent Enzyme Scaffold (Okayama Univ.) SAKAI, Takashi; MIYAZAKI, Yuki; MURAKAMI, Ai; SAKAMOTO, Noriko; KORENAGA, Toshinobu; EMA, Tadashi; HASHIMOTO, Hideki; FURUTANI, Mitsuaki; NAKANISHI, Makoto; FUJII, Tatsuo; TAKADA, Jun
- 3B4-12** Preparation and Its Use of Ionic Liquid Supported Silica Gel-Immobilized Lipase (Okayama Univ.) SAKAI, Takashi; YOSHIDA, Masahiko; MURAKAMI, Ai; KORENAGA, Toshinobu; EMA, Tadashi

Chair: EMA, Tadashi (11:10~12:00)

- \* 11:00-11:10: interval for laptop PC connection.(3B4-14, 3B4-15, 3B4-16, 3B4-17, 3B4-18)
- 3B4-14<sup>†</sup>** Development of Novel Ionic Liquids as Solvent Appropriate for Lipase-catalyzed Reaction (Tottori Univ.) ABE, Yoshikazu; YAGI, Yusuke; FUJIMOTO, Mai; HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki
- 3B4-15** Synergy Effect on the Activation of Lipase by the Coating of Lipase Protein with an Amino Acid and Imidazolium AlkylPEG Sulfate Ionic Liquid (Tottori Univ.) YOSHIYAMA, Kazuhide; MORIYAMA, Sayaka; KAWATSURA, Motoi; ITOH, Toshiyuki
- 3B4-16** Biotransformation of flavonoids using plant cultured cells-hydroxylation and glycosylation- (Fac. of Sci., Okayama Univ. of Sci.) YAMAMOTO, Ryohei; SHIMODA, Kei; NAKAJIMA, Nobuyoshi; KATSURAGI, Hisashi; HAMADA, Hiroki
- 3B4-17** Biotransformation of flavonoids using plant cultured cells (Faculty of Sci., Okayama Univ. of Sci.) KONDO, Mai; SHIMODA, Kei; KATSURAGI, Hisashi; HAMADA, Hiroki
- 3B4-18** Biotransformation of catechins using plant cultured cells (Faculty of Sci., Okayama Univ. of Sci.) HAMADA, Hiroki; KUBOTA, Naoji; NAKAJIMA, Nobuyoshi; SHIMODA, Kei; KATSURAGI, Hisashi

## Sunday, March 28, PM

### Medical Biology

Chair: HIFUMI, Emi (13:20~14:30)

- \* 13:10-13:20: interval for laptop PC connection.(3B4-27, 3B4-28, 3B4-29, 3B4-31, 3B4-32, 3B4-33)
- 3B4-27** Effect of Phase Transfers in Liposomes for Incorporation of Fullerenes into Fullerene-Encapsulated Liposomes prepared by Fullerene-Exchange Reaction (Grad. Sch. Mat. Sci. Nara Inst. Sci. and Tech.) KAWAI, Yoshihiko; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi
- 3B4-28** Advantage of Fullerenes-Exchange reaction method to prepare Lipid Membrane Incorporated Fullerenes (Grad. Sch. Mat. Sci. Nara Inst. Sci. and Tech.; Grad. Sch. Biol. Sci. Nara Inst. Sci. and Tech.) MORI, Miyuki; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi; HASHIZUME, Mineo; OGAWA, Takuya; TAKEYA, Tatsuo
- 3B4-29\*** Photodynamic activity of liposomal photosensitizers via energy transfer from carbocyanine antenna molecules to C<sub>60</sub> (Grad. Sch. Mat. Sci. Nara Inst. Sci. and Tech.; Grad. Sch. Biol. Sci. Nara Inst. Sci. and Tech.) AKIYAMA, Motofusa; IKEDA, Atsushi; KIKUCHI, Jun-ichi; OGAWA, Takuya; TAKEYA, Tatsuo
- 3B4-31** Preparation and Characterization of Water-Insoluble Composite Films Made from Water-Soluble Polysaccharides (Tokyo Univ. of Science) OHASHI, Masafumi; HASHIZUME, Mineo
- 3B4-32** Evaluation of Film Forming Ability of Composite Films Made from Various Water-Soluble Biopolymers (Tokyo Univ. of Science) NUMATA, Tomoko; HASHIZUME, Mineo
- 3B4-33** Development of drug release system controlled by light irradiation (Graduate School of Engineering, Osaka Univ.) HOSODA, Mariko; MIZUKAMI, Shin; KIKUCHI, Kazuya

Chair: HASHIZUME, Mineo (17:00~18:10)

- \* 16:50-17:00: interval for laptop PC connection.(3B4-49, 3B4-50, 3B4-51, 3B4-53, 3B4-54, 3B4-55)
- 3B4-49** Preparation of functional materials by crystallization of apo-ferritin containing metal nanoparticles (Kyoto Univ.; iCeMS Kyoto Univ.) ABE, Mizue; ABE, Satoshi; KITAGAWA, Susumu; UENO, Takafumi
- 3B4-50<sup>†</sup>** Tumor specific porphyrin accumulation after administration of 5-Aminolevulinic acid (Tokyo Tech; Kanazawa Univ.) HAGIYA, Yuichiro; ENDO, Yoshio; OGURA, Shun-ichiro; OKURA, Ichiro
- 3B4-51\*** Promotion of the neurite growth from neurons with the cultured Schwann cells. (Grad. Sch. Science, Osaka Pref. Univ.) MORI, Hideki; HARA, Masayuki
- 3B4-53** Expression and characterization of monoclonal antibody InfA-15 light

chain to influenza viruses (Appl. Chem., Oita Univ.) YAHIRO, Takaaki; FUJIMOTO, Naoko; HIFUMI, Emi; UDA, Taizou

**3B4-54** Withdrawn

**3B4-55** Development of a cell chip system for diagnosis of protozoan infection (Health Technology Research Center, AIST; Dep. of Appl. Phys., Grad. School of Eng., Osaka Univ.) YAMAMURA, Shohei; YATSUSHIRO, Shouki; YAMAGUCHI, Yuka; TAMIYA, Eiichi; KATAOKA, Masatoshi

## Monday, March 29, AM

### Cell

Chair: ARAKAKI, Atsushi (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4B4-01, 4B4-02, 4B4-03, 4B4-05)
- 4B4-01** Production of *p*-Hydroxybenzoic Acid by Regio-selective Hydroxylation of Benzoic Acid by Whole-cell Reaction Using *Trichosporon molitiforme* (Dept. Appl. Chem., Fac. Sci. Eng., Waseda Univ.) WATABE, Akihiro; HONDA, Yuki; HATTORI, Takasumi; KIRIMURA, Kohtarō
- 4B4-02** Electrochemical switching of the respiration pathway of an iron-reducing bacterium (Faculty of Engineering, The Univ. of Tokyo) MATSUDA, Shoichi; LIU, Huan; NAKANISHI, Shuji; HASHIMOTO, Kazuhito
- 4B4-03\*** Analysis of a heat shock transcriptional regulator in a hyperthermophilic archaeon (Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto Univ.) KANAI, Tamotsu; KAMASHITA, Tomoyuki; ATOMI, Haruyuki; IMANAKA, Tadayuki
- 4B4-05\*** Increase of Oxalic Acid Production by *Aspergillus niger* through the Metabolic Engineering of Respiratory Systems (Dept. Appl. Chem., Fac. Sci. Eng., Waseda Univ.) HATTORI, Takasumi; HONDA, Yuki; KIRIMURA, Kohtarō

Chair: MORI, Toshiaki (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4B4-08, 4B4-10, 4B4-11, 4B4-12)
- 4B4-08\*** Development of microdevice for highly efficient detection of circulating tumor cell from whole blood (Tokyo Univ. Agri. Tech.) HOSOKAWA, Masahito; HAYATA, Taishi; FUKUDA, Yorikane; ARAKAKI, Atsushi; YOSHINO, Tomoko; MATSUNAGA, Tadashi
- 4B4-10** Fabrication of a single-cell based chemical gradient microdevice for cytotoxicity assays. (Tokyo Univ. Agri. Tech.) HAYASHI, Takuma; YOSHINO, Tomoko; MORI, Tetsushi; HOSOKAWA, Masahito; NAKASONO, Satoshi; MATSUNAGA, Tadashi
- 4B4-11** Derivative imaging analysis for the beating of ES-derived cardiomyocyte (Osaka Univ., PARC.) SHIMIZU, Eiichi; MORI, Kiyofumi; HOSSAIN, Mohammad Mosharraf; SATHULURI, Ramachandra Rao; SAITO, Masato; YAMAGUCHI, Yoshinori; TAMIYA, Eiichi
- 4B4-12\*** Mechanical analysis of interaction between human telomeric DNA and telomestatin derivative by using AFM to develop a method of genomic DNA manipulation (RICE/AIST, Dept. Biotechnol. & Life Sci., Tokyo Univ. of Agric. & Technol., RIBM, NRI/AIST, PRI/AIST) AMEMIYA, Yosuke; FURUNAGA, Yui; KAWANO, Keiko; IIDA, Keisuke; TERA, Masayuki; NAGASAWA, Kazuo; IKEBUKURO, Kazunori; ISHIGURO, Masazumi; MORII, Takashi; OKADA, Takao; OKADA, Tomoko; KIKKAWA, Yoshihiro; NAKAMURA, Chikashi

Chair: NAKAMURA, Chikashi (11:20~12:10)

- \* 11:10-11:20: interval for laptop PC connection.(4B4-15, 4B4-16, 4B4-18, 4B4-19)
- 4B4-15** Development of diabetes model cells carrying a tetracycline-inducible expression system. (Department of Biotechnology and Life Science, Tokyo Univ. of Agriculture and Technology) NOSHIRO, Yuuki; FUNABASHI, Hisakage; MATSUOKA, Hideaki; SAITO, Mikako
- 4B4-16\*** Investigation of diabetic inducing factor using GK knockout mice (Tokyo Univ. Agric. Technol.) SAITO, Mikako; IIDA, Ryosuke; SUGIYAMA, Tae; AMAKUSA, Yuki; FUNABASHI, Hisakage; MATSUOKA, Hideaki
- 4B4-18<sup>†</sup>** Engineered post-synapse model cell for high through-put analysis on neural drug screening (Kyushu Institute of Technology, Department of Biological Function and Engineering.) TATEISHI, Akito; MIGITA, Satoshi; KEINANEN, Kari; IKENO, Shinya; HARUYAMA, Tetsuya
- 4B4-19** Function analysis of S1e1 during forming the multi-layer muscle fiber sheet by addition of spermine. (Department of Biotechnology and Life Science, Tokyo Univ. of Agriculture and Technology) MORITA, Kiyoe; FUNABASHI, Hisakage; MATSUOKA, Hideaki; SAITO, Mikako

## Monday, March 29, PM

### Cell

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

- \* 13:20-13:30: interval for laptop PC connection.(4B4-28, 4B4-30, 4B4-31, 4B4-32)
- 4B4-28\*\*** CNT traffic into plant cells via a mechanism dependent on plant

species and the attached surface functionality (Nagoya Univ.) FOUAD, Maged; OKAMOTO, Yukihiko; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu

**4B4-30** Analysis of rapid diffusion of fluorinated lipid in the cell membrane (Graduate School of Science, Hokkaido Univ.) NAMBARA, Katsuyuki; NIKURA, Kenichi; OKAJIMA, Takaharu; KUSHIDA, Yuki; MATSUO, Yasutaka; IJIRO, Kuniharu

**4B4-31** Measurement of detachment force of a cell from solid substrate by using atomic force microscope and control of detachment force. (RICE/AIST, Dept. Biotechnol. & Life Sci., Tokyo Univ. of Agric. & Technol.) ARAI, Yu; MIEDA, Singo; AMEMIYA, Yosuke; NAKAMURA, Noriyuki; NAKAMURA, Chikashi

**4B4-32\*** Development of electrical modulation for cell patterning and detachment, and cell passage in animal cells on an arrayed electrode surface. (JAMSTEC) KOYAMA, Sumihiro

Chair: YOKOYAMA, Kenji (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(4B4-35, 4B4-36, 4B4-37, 4B4-38, 4B4-39, 4B4-40)

**4B4-35** Binding analysis of molecular beacon immobilized on the nanoneedle and intracellular mRNA (RICE/AIST; Dept. Biotechnol. & Life Sci., Tokyo Univ. of Agric. & Technol.; CNBI, The Univ. of Tokyo) NAKAMURA, Chikashi; KITAGAWA, Taro; KIM, Yurie; AMEMIYA, Yosuke; KIHARA, Takano; YOSHIDA, Narutoshi; NAKAMURA, Noriyuki; MIYAKE, Jun

**4B4-36** Sensing and patterning of single cell culture on the nano structure fabricated by the electron beam lithography for cell networking system (Adv. Sci. and Eng., Waseda Univ.; ASMeW, Waseda Univ.) TAKEDA, Naoya; YOSHINO, Nobuhiro; EDAGAWA, Yoshikuni; SHIMAMOTO, Naonobu

**4B4-37** Fabrication of Spheroid Array for Chondrocyte tissue transplant (Tokyo Univ. of Sci.) SAKURAI, Masaaki; NAKASONE, Yuichi; KUTSUZAWA, Koichi; OTSUKA, Hidenori

**4B4-38** The quantum dots for in vivo imaging of adipose tissue-derived stem cells (Nagoya Univ.) KAGAMI, Yukimasa; YUKAWA, Hiroshi; KAJI, Noritada; OKAMOTO, Yukihiko; NOGUCHI, Hirofumi; TOKESHI, Manabu; HAYASHI, Shuji; BABA, Yoshinobu

**4B4-39** Development of a <sup>19</sup>F MRI Probe to Detect beta-lactamase Activity For Imaging gene expression (Graduate School of Engineering, Osaka Univ.) MATSUSHITA, Hisashi; MIZUKAMI, Shin; SUGIHARA, Fuminori; SHIRAKAWA, Masahiro; KIKUCHI, Kazuya

**4B4-40** Photoactive Yellow Protein-based Labeling of Cellular Proteins by a Designed Fluorogenic Probe (Graduate School of Engineering, Osaka Univ.) NAKAKI, Kyohei; HORI, Yuichiro; UENO, Hideki; KIKUCHI, Kazuya

Chair: OJIDA, Akio (15 : 50~16 : 40)

\* 15:40-15:50: interval for laptop PC connection.(4B4-42, 4B4-44, 4B4-45, 4B4-46)

**4B4-42\*** Development of a gene expression balance monitoring system in intact ES cells (Tokyo Univ. of Agriculture and Technology) FUNABASHI, Hisakage; SATANI, Wataru; TAKATSU, Makoto; SAITO, Mikako; MATSUOKA, Hideaki

**4B4-44†** Multicolor fluorescence imaging using BL-tag technology. (Graduate School of Engineering, Osaka Univ.) WATANABE, Shuji; MIZUKAMI, Shin; KIKUCHI, Kazuya

**4B4-45** Development and application of biotin modified probe using BL-tag technology (Graduate School of Engineering, Osaka Univ.) YOSHIMURA, Akimasa; MIZUKAMI, Shin; KIKUCHI, Kazuya

**4B4-46** Development of a time-resolved fluorescence labeling method for protein (Graduate School of Engineering, Osaka Univ.) YAMAMOTO, Taku; MIZUKAMI, Shin; KIKUCHI, Kazuya

## Room C1

Bldg.21 534

### Coordination Chemistry, Organometallic Chemistry

Friday, March 26, AM

Chair: KONDO, Mitsuru (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1C1-01, 1C1-02, 1C1-04, 1C1-05, 1C1-06)

**1C1-01** Desorption of solvent molecules incorporated in the  $\beta$ -Keggin-type polyanions as their tetrabutylammonium salts (Tokyo Institute of Technology) KANI, Kentaro; OZEKI, Tomoji

**1C1-02\*** Syntheses and Properties of N-Fused Porphyrin Manganese Complexes (Grad. Sch. Eng., Kyushu Univ.) IKEDA, Shinya; TOGANO, Motoki; FURUTA, Hiroyuki

**1C1-04** Crystal Structures and Magnetic Properties of  $[Mn^{II}Cr^{III}(ox)_3]$  Salts with Anilinium derivatives/benzo[18]crown-6 (Research Institute for Electronic Science, Hokkaido Univ.; Graduate School of Environmental

Science, Hokkaido Univ.) ENDO, Toru; NORO, Shin-ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

**1C1-05** Synthesis and properties of decamethylferrocenium salts with flexible anions (Kobe Univ.) HAMADA, Shota; MOCHIDA, Tomoyuki

**1C1-06** Synthesis and Properties of Ferrocene-Type Complex with N-Fused Porphyrinato Ligands (Grad. Sch. Eng., Kyushu Univ.) SATO, Ayumi; TOGANO, Motoki; FURUTA, Hiroyuki

Chair: OZEKI, Tomoji (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1C1-08, 1C1-09, 1C1-10, 1C1-11, 1C1-12, 1C1-13)

**1C1-08** Porous network with an infinite array of  $M_6L_4$  cage (1): synthesis, structures, and single-crystal-to-single-crystal guest enclathration (Graduate School of Engineering, The Univ. of Tokyo; CREST, JST) INOKUMA, Yasuhide; ARAI, Tatsuhiko; FUJITA, Makoto

**1C1-09** Porous network with infinite array of  $M_6L_4$  cage (2): up to 35wt% enclathration of fullerene and separation of higher fullerene derivatives (Graduate School of Engineering, The Univ. of Tokyo; CREST, JST) ARAI, Tatsuhiko; INOKUMA, Yasuhide; FUJITA, Makoto

**1C1-10** Porous network with an infinite array of  $M_6L_4$  capsule: encapsulation of guest molecules and control of their reactivities (School of Engineering, The Univ. of Tokyo; CREST, JST) YOSHIOKA, Shota; INOKUMA, Yasuhide; FUJITA, Makoto

**1C1-11** Synthesis and characterization of cobalt porphyrin complex with amide group on a phenyl ring (Shizuoka Univ.; Center for Instrumental Analysis) YAMANISHI, Katsunori; SAKAI, Shintaro; KONDO, Mitsuru

**1C1-12** New 1-dimensional coordination polymer that changes their arrangements responding to temperature variation (Shizuoka Univ.) WATANABE, Hirotsugu; KONDO, Mitsuru

**1C1-13** DFT Calculations on the  $H^+$  salts of  $[Ni(SEt)_4]^{2+}$  and  $[Ni(SEt)_4]^-$  - Their Stable Structures and Electronic States in Terms of the Ni Center of Hydrogenases - (Nihon Univ.; Tokyo Univ. Sci.; Mitsubishi Materials Co.) MIYAZAKI, Jun; SAKANIWA, Daisuke; YAMAMURA, Takeshi

Chair: KAJIWARA, Takashi (11 : 20~11 : 50)

\* 11:10-11:20: interval for laptop PC connection.(1C1-15)

**1C1-15 CSJ Award for Young Chemists** Polymer Synthesis in Coordination Nanospaces (Grad. Sch. Eng., Kyoto Univ.) UEMURA, Takashi

### Friday, March 26, PM

Chair: AKINE, Shigehisa (13 : 00~14 : 00)

\* 12:50-13:00: interval for laptop PC connection.(1C1-25, 1C1-26, 1C1-27, 1C1-28, 1C1-29)

**1C1-25** Effects of counter ions on the structure of carbonate bridged Ni multinuclear complexes (Ochanomizu Univ. Center for Informational Biology; Rikkyo Univ; Bruker axis) MIYAMOTO, Keiko; HORN, Ernst; YOZA, Kenji; FUKUDA, Yutaka

**1C1-26** Intermolecular hydrogen bonding of nickel(II) dithiocarbamate complexes derived from amino acids (Osaka Institute of Technology) NOMURA, Ryoki; ISHIHARA, Seiya; TOMINAGA, Kouji; OHTAKA, Atsushi; SHIMOMURA, Osamu

**1C1-27** Specific guest binding in a single-crystal nano-channel host composed of trinuclear macrocyclic metal complexes (Grad. School of Science, The Univ. of Tokyo) KUBOTA, Ryou; TASHIRO, Shohei; SHIONOYA, Mitsuhiko

**1C1-28** Guest orientation within oriented host complexes (School of Engineering, The Univ. of Tokyo; CREST, JST) MOROHARA, Osamu; FUJITA, Daishi; SATO, Sota; YMAGUCHI, Yoshiki; KATO, Koichi; FUJITA, Makoto

**1C1-29\*** Emission control of methylene-vaulted trans-bis(salicylaldiminato) platinum (II) complexes (Graduate School of Engineering Science, Osaka Univ.) OKADA, Minoru; KOMIYA, Naruyoshi; NAOTA, Takeshi

Chair: KURODA, Takayoshi (14 : 10~15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(1C1-32, 1C1-33, 1C1-34, 1C1-36, 1C1-37)

**1C1-32** Cooperative Formation of Dinuclear Complexes Using Novel Oligo (bipyridine-phenol) Ligands (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) NAGUMO, Hiroki; AKINE, Shigehisa; NABESHIMA, Tatsuya

**1C1-33** Synthesis and properties of Crown-shaped subnanometer-sized Au cluster (Faculty of Environmental Earth Science, Hokkaido Univ. and JST CREST) KAMEI, Yuutarou; SHICHIBU, Yuukatsu; KONISHI, Katsuaki

**1C1-34\*** Synthesis of Diphosphine-protected Au Clusters and Their Optical Properties (Hokkaido Univ. Environmental; CREST, JST) SHICHIBU, Yuukatsu; KONISHI, Katsuaki

**1C1-36** Syntheses of the novel copper (II) coordination polymers using mandelic acid as chiral ligand and their optical property (Nagoya Univ.) TOMINAGA, Shingo; MORIYA, Makoto; SAKAMOTO, Wataru; YOGO, Toshinobu

**1C1-37** Structures and properties of copper complexes bearing anionic N2 type ligand (Univ. of Tsukuba) NOGUCHI, Naoto; ISHIZUKA, Tomoya; FUJISAWA, Kiyoshi; KOJIMA, Takahiko

Chair: KOJIMA, Takahiko (15:20~16:30)

- \* 15:10-15:20: interval for laptop PC connection.(1C1-39, 1C1-41, 1C1-42, 1C1-43, 1C1-44, 1C1-45)
- 1C1-39\*** Structural study of a coordination polymer nanofilm constructed on solid surface with layer-by-layer growth technique (Kyushu Univ.) MAKIURA, Ric; UMEMURA, Yasushi; SAKATA, Osami; KITAGAWA, Hiroshi
- 1C1-41** Encapsulation of anion in an aqueous solution by molecular capsule (Shizuoka Univ.; Center for Instrumental Analysis) MOCHIZUKI, Masaru; HIRAKAWA, Takeshi; YAMAGUCHI, Maiko; KONDO, Mitsuru
- 1C1-42** Structural comparison of copper(II)-quinoxaline complexes between lactam and lactim coordination modes (Chitose Inst. Sci. Tech.; RIES, Hokkaido Univ.) TAKAHASHI, Sami; SAKAI, Ken-ichi; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi
- 1C1-43** Crystal Structures and Conductive Properties of Mixed-Valence Coordination Polymers with Dithiocarbamate Derivatives (Kinki Univ.; PRESTO, JST) TANAKA, Naoya; KIM, Kyung Ho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1C1-44** Crystal Structure and Electronic Properties of a New 2-D Coordination Polymer with TTF Cations Between Layers (Kinki Univ.) YOSHITO, Yuma; KIM, Kyung Ho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1C1-45** Selective Coordination Behavior of Cyanate anion in the Cu(II) complex with Tripodal Ligands (Nagoya Institute of Technology) TOZUKA, Takashi; KAJITA, Yuji; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki

Chair: SATAKE, Akiharu (16:40~17:30)

- \* 16:30-16:40: interval for laptop PC connection.(1C1-47, 1C1-48, 1C1-49, 1C1-50)
- 1C1-47** Formation of Double Helices Based on  $\pi$ -Conjugated Acyclic Metal Ligands (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; NISHIMURA, Takuma; HASHIMOTO, Takashi
- 1C1-48** novel porphyrin-based metal carboxylate framework : synthesis, crystal structure and gas adsorption studies. (Kanagawa Univ.) ENDO, Nanako
- 1C1-49** Synthesis of  $\pi$ -Conjugated Ligand Dimers that Afford Metal Coordination Polymers (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; KOBAYASHI, Hiroaki; HASHIMOTO, Takashi; HASEGAWA, Masahiro
- 1C1-50\*** Structure Control in Multinuclear Coordination Double Helices Based on Acyclic Oligopyrroles (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) HASHIMOTO, Takashi; MAEDA, Hiromitsu

Chair: OZAWA, Tomohiro (17:40~18:30)

- \* 17:30-17:40: interval for laptop PC connection.(1C1-53, 1C1-54, 1C1-55, 1C1-56, 1C1-57)
- 1C1-53** Supramolecular Self-Assembly of Biscrowned Bibenzimidazole Palladium Complexes (Nara Institute of Science and Technology (NAIST)) ODA, Tetsuhisa; HIROTA, Shun; SATAKE, Akiharu
- 1C1-54** Synthesis and Properties of 1,4-Benzoquinone Derivatives Having  $\pi$ -Allylpalladium Complex (Nara Institute of Science and Technology (NAIST)) KIRIYAMA, Masanari; HIROTA, Shun; SATAKE, Akiharu
- 1C1-55** Immobilization of an  $M_{12}L_{24}$  spherical complex by peptide modification (School of Engineering, The Univ. of Tokyo; Cancer institute, JFCR; CREST, JST) IKEMI, Masatoshi; KIKUCHI, Takashi; SATO, Sota; MATSUMURA, Sachiko; SHIBA, Kiyotaka; FUJITA, Makoto
- 1C1-56** Recognition of Complementary Oligonucleotides Using Oligonucleotide-Modified  $M_{12}L_{24}$  Coordination Spheres (Sch. Eng., The Univ. of Tokyo; CREST, JST; Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) KIKUCHI, Takashi; SATO, Sota; SEI, Yoshihisa; YAMAGUCHI, Kentaro; FUJITA, Makoto
- 1C1-57** Mechanistic Insight into the Reaction Mechanism of  $H_2$  production from  $H_2O$  Catalyzed by an acetamidate-bridged *cis*-Platinum(II) dimer (Kyushu Univ.) YOKOYAMA, Junpei; MASAOKA, Shigeyuki; SAKAI, Ken

## Saturday, March 27, AM

Chair: MIYAKE, Hiroyuki (9:00~9:50)

- \* 8:50-9:00: interval for laptop PC connection.(2C1-01, 2C1-02, 2C1-03, 2C1-04, 2C1-05)
- 2C1-01** Visible Light-Induced Catalyst 3a the Two Distinct Metal Complexes-Encapsulated Zeolites (Nagoya Institute of Technology) NAGAI, Yoshimasa; INOMATA, Tomohiko; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 2C1-02** Synthesis and Properties of New Ruthenium Dye for Dye-Sensitized Solar cell (Nagoya Institute of Technology) YAMAMOTO, Kosuke; INOMATA, Tomohiko; WASADA, Yuko; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 2C1-03\*** Structures and Catalytic Activities of Ferritin Mutants Encapsulating Pd Complexes (Nagoya Univ.) WANG, Ziyue; TAKEZAWA, Yusuke; AOYAGI, Hiroki; ABE, Satoshi; HIKAGE, Tatsuo; UENO, Takafumi; WATANABE, Yoshihito

- 2C1-04** Synthesis and Luminescence Properties of Gold(I)-Isocyanide Complexes (Faculty of Science, Hokkaido Univ.; Graduate School of Engineering, Chiba Univ.; PRESTO, JST) KURENUMA, Sayaka; AONUMA, Hiroaki; YAGAI, Shiki; SAWAMURA, Masaya; ITO, Hajime
- 2C1-05** Synthesis and Electronic Properties of Fullerene Containing Polysilanes (Grad. Sch. Eng., Tottori Univ.) NANJO, Masato; OHNISHI, Masayuki; ESAKA, Takao

Chair: ITO, Hajime (10:00~10:50)

- \* 9:50-10:00: interval for laptop PC connection.(2C1-07, 2C1-08, 2C1-10, 2C1-11)
- 2C1-07** Control of  $\pi$ -conjugated Guest Properties in Coordination Nanospaces (Kyoto Univ.) YANAI, Nobuhiro; UEMURA, Takashi; KITAGAWA, Susumu
- 2C1-08\*** Controlled Storage of Ferrocene Derivatives as a Redox Active Molecule in Dendrimers (Keio Univ.) OCHI, Yousuke; YAMAMOTO, Kimihisa
- 2C1-10\*** Redox-Triggered Multiple Molecular Motions in Chiral Cobalt Complexes (Grad. School of Sci., Osaka City Univ.; Dep. of Mat. and Life Sci., Grad. School of Eng., Osaka Univ.) GREGOLINSKI, Janusz; SUGIMOTO, Hideki; TSUKUBE, Hiroshi; MIYAKE, Hiroyuki
- 2C1-11** Synthesis of Zinc(II) Complexes using uronic acid and the analogues (Osaka City Univ.; Kyoto Pharm. Univ.) MAEOKA, Yoshiaki; YOSHIKAWA, Yutaka; YASUI, Hiroyuki; MORIMOTO, Yoshiki; TACHI, Yoshimitsu

Chair: YAMASHITA, Masahiro (11:00~12:00)

- \* 10:50-11:00: interval for laptop PC connection.(2C1-13)
- 2C1-13 CSJ Award for Creative Works** Creation of Various Electronic-Protonic Phases for Solid-State Protonics (Grad. Sch. Sci., Kyoto Univ.) KITAGAWA, Hiroshi

## Saturday, March 27, PM

Chair: ISHIKAWA, Naoto (13:10~14:00)

- \* 13:00-13:10: interval for laptop PC connection.(2C1-26, 2C1-27, 2C1-28, 2C1-29, 2C1-30)
- 2C1-26** Synthesis of luminescent polymer in lanthanide-based porous metal complexes (Kyoto Univ.) UCHIDA, Noriyuki; UEMURA, Takashi; KITAYAMA, Koji; KITAGAWA, Susumu
- 2C1-27** Luminescence properties of Eu(III) and Sm(III) complexes having bidentate phosphine oxide ligands (Nara Institute of Science and Technology, Graduate School of Materials Science (NAIST)) MIYATA, Kohei; HASEGAWA, Yasuchika; KAWAI, Tsuyoshi
- 2C1-28** Circular-polarized luminescence of Eu(III) complexes with chiral bis (oxazolonyl) pyridine ligand (Nara Inst. Sci. Tech.) YUASA, Junpei; OHNO, Tomoko; MIYATA, Kohei; TSUMATORI, Hiroyuki; HARADA, Takashi; HASEGAWA, Yasuchika; KAWAI, Tsuyoshi
- 2C1-29** Study on exchange couplings of dinuclear lanthanoid(III)/copper(II) and lanthanoid(III)/vanadium(IV) complexes having a salen-type ligand (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) WATANABE, Ryo; FUJIWARA, Kei; OKAZAWA, Atsushi; TANAKA, Go; YOSHII, Shunsuke; NOJIRI, Hiroyuki; ISHIDA, Takayuki
- 2C1-30** Structure and Near-Infrared-Luminescent Properties of  $Ag^I-Nd^{III}$ -Thiacalix[4]arene Supramolecular Complex (Tohoku Univ. Graduate School of Environmental Studies) HIROOKA, Shoichi; IKI, Nobuhiko; HOSHINO, Hitoshi

Chair: KAWAI, Tsuyoshi (14:10~15:20)

- \* 14:00-14:10: interval for laptop PC connection.(2C1-32, 2C1-33, 2C1-35, 2C1-36, 2C1-37, 2C1-38)
- 2C1-32** Study on Cu-Tb single-molecule magnets linked by photochromic ligands (Tohoku Univ.; Rikkyo Univ.) SHIGA, Takuya; MIYASAKA, Hitoshi; YAMASHITA, Masahiro; MORIMOTO, Masakazu; IRIE, Masahiro
- 2C1-33\*** Magnetic field dependence of electric conductivity of doped single crystals of  $\pi$ -radical-type bis(phthalocyaninato)lanthanides (Osaka Univ.) ISHIKAWA, Naoto
- 2C1-35** Magnetic properties and surface morphologies of Tb-phthalocyanine complexes (Tohoku Univ.) KATOH, Keiichi; TAKAISHI, Shinya; KAJIWARA, Takashi; MIYASAKA, Hitoshi; YAMASHITA, Masahiro; ISSHIKI, Hironari; ZHANG, Yan-fen; KOMEDA, Tadashi; ISHIKAWA, Naoto
- 2C1-36** Syntheses, structures, and magnetic properties of Ln(III)-Zn(II) dinuclear complexes (Nara Women's Univ.; Osaka Univ.; IMR, Tohoku Univ.) WATANABE, Akiko; YAMASITA, Aika; KAJIWARA, Takashi; NAKANO, Motohiro; YAMAMURA, Tomoo
- 2C1-37** Syntheses, structures, and slow magnetic relaxations of wheel shaped  $ErZn_3$  tetra-nuclear complexes (Nara Women's Univ.; Univ. of Tsukuba; Osaka Univ.; IMR, Tohoku Univ.) YAMASHITA, Aika; WATANABE, Akiko; KAJIWARA, Takashi; AKINE, Shigehisa; NABESHIMA, Tatsuya; NAKANO, Motohiro; YAMAMURA, Tomoo
- 2C1-38** Synthesis and properties of Prussian blue type complex based on lanthanoid ion with chiral ligands. (Hiroshima Univ.) ISHIMOTO, Tetsuya;

HIGASHIKAWA, Hiroyuki; INOUE, Katsuya

Chair: NAKANO, Motohiro (15:30~16:30)

- \* 15:20-15:30: interval for laptop PC connection.(2C1-40, 2C1-41, 2C1-42, 2C1-43, 2C1-44, 2C1-45)
- 2C1-40** Vanadium Heptacyanomolybdate-based Magnet Exhibiting a High Curie Temperature (110 K) (School of Science, The Univ. of Tokyo) TOMONO, Keisuke; TSUNOBUCHI, Yoshihide; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi
- 2C1-41** Vanadium Octacyanonitrate-Based Magnet with a Curie Temperature of 138 K (The Univ. of Tokyo) IMOTO, Kenta; KOSAKA, Wataru; TSUNOBUCHI, Yoshihide; OHKOSHI, Shin-ichi
- 2C1-42** Control of magnetic properties in copper octacyanotungsten porous magnet (School of Science, The Univ. of Tokyo) TSUNOBUCHI, Yoshihide; OHKOSHI, Shin-ichi
- 2C1-43** Crystal structures and physical properties of conducting single molecule magnet (Graduate School of Science, Tohoku Univ.) KUBO, Kazuya; MIYASAKA, Hitoshi; YAMASHITA, Masahiro
- 2C1-44** Synthesis and Properties of Magnetic Nanoparticles Composed of Vanadium and Hexacyanochromate (Hiroshima Univ.) KAWAMURA, Ryo; INOUE, Katsuya; HAINO, Takeharu
- 2C1-45** Theoretical Study of Inverted Sandwich Type Dichromium Complexes (Grad. Sch. Eng., Kyoto Univ.) TAKENAKA, Yukio; KUROKAWA, Yusaku; SAKAKI, Shigeyoshi

Chair: NUIDA, Tomohiro (16:40~17:30)

- \* 16:30-16:40: interval for laptop PC connection.(2C1-47, 2C1-48, 2C1-49, 2C1-51)
- 2C1-47** Mechanism of Magnetic Orientation of Ferrocenium Ionic Liquids upon Crystallization (Kobe Univ.; Institute for Molecular Science) FUNASAKO, Yusuke; INAGAKI, Takashi; MOCHIDA, Tomoyuki; SAKURAI, Takahiro; OHTA, Hitoshi; FURUKAWA, Ko; NAKAMURA, Toshikazu
- 2C1-48** Synthesis and Properties of New Multi Nuclear Mo Complexes with Redox Active Ligands. (Hokkaido Univ., Faculty of Science) YANO, Hirokazu; MATSUMOTO, Takeshi; CHANG, Ho-chol; KOBAYASHI, Atsushi; KATO, Masako
- 2C1-49\*** Cooperative Electron System based on the Assembly of Dithiolate Metal Complexes (Hokkaido Univ., Faculty of Science) MATSUMOTO, Takeshi; YANO, Hirokazu; KOBAYASHI, Atsushi; CHANG, Ho-chol; KATO, Masako
- 2C1-51** Photoluminescence of Chalcochloride Capped Hexarhenium Complexes (Osaka Univ., Hokkaido Univ.) YOSHIMURA, Takashi; ITO, Yuki; ISHIZAKA, Shoji; KITAMURA, Noboru; SHINOHARA, Atsushi

## Sunday, March 28, PM

Chair: KANEGAWA, Shinji (12:30~13:30)

- \* 12:20-12:30: interval for laptop PC connection.(3C1-22, 3C1-23, 3C1-24, 3C1-26)
- 3C1-22** Synthesis and magnetic properties of metallated corrolazines. (Shimane Univ.) IKEUE, Takahisa; KURAHASHI, Satoshi; SUGIMORI, Tamotsu; TAKAHASHI, Masashi; MIKURIYA, Masahiro; NAKAMURA, Mikio; HANDA, Makoto
- 3C1-23** Construction of a bioavailable NO sensing material using an electrode modified with metal complex with an N2O2 donor sets (Nagoya Institute of Technology, Department of Frontier Materials, Masuda-lab.) SUWABE, Tatsuya; INOMATA, Tomohiko; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 3C1-24\*** Proton Conductivity of M(OH)(bdc)(M = Al, Fe, bdc = terephthalate) Coordination Polymers under Ammonia Adsorption (Fac. Sci., Kyushu Univ.; Grad. Sch. Sci., Kyoto Univ.; JST-CREST) SHIGEMATSU, Akihito; YAMADA, Tepei; KITAGAWA, Hiroshi
- 3C1-26\*** Study on the rapid spin equilibrium and magnetic ordering of  $(C_6H_5)_4P[Mn^{II}Fe^{III}(C_2O_3S)_3]$  (The Univ. of Tokyo) KAGESAWA, Koichi; OKAZAWA, Atsushi; ENOMOTO, Masaya; KOJIMA, Norimichi

Chair: TAKAISHI, Shinya (13:40~14:40)

- \* 13:30-13:40: interval for laptop PC connection.(3C1-29, 3C1-30, 3C1-31, 3C1-32, 3C1-33, 3C1-34)
- 3C1-29†** Transition Metal-Dependent Properties of TCNQ based Porous Coordination Polymer (Kyoto Univ.) SHIMOMURA, Satoru; YANAI, Nobuhiro; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 3C1-30** Bidirectional guest-responsive spin state switching in a porous Fe(II)Pt(II) coordination polymer (Kyoto Univ.) YONEDA, Ko; OHTANI, Ryo; OHBA, Masaaki; GASPHER, Ana B.; REAL, Jose A.; KITAGAWA, Susumu
- 3C1-31** Structural isomerisation effect of counter anion on the spin crossover transition in  $[Fe(4-NH_2trz)_3](X)_2$  (X = tos, abs) (The Univ. of Tokyo) SUGAHARA, Akira; OKAZAWA, Atsushi; ENOMOTO, Masaya; KOJIMA, Norimichi
- 3C1-32** Physical Properties of Oxalate-bridged Fe(II)Fe(III) Mixed-valence Compounds Derived from Hydrophilic Cations  $\{NR_3(CH_2COOH)\}_2[Fe^{II}Fe^{III}(ox)_3]$  (R = Et, n-Bu) (Kyushu Univ.; JST-CREST; Kyoto Univ.) OKAWA, Hisashi; SADAKEYO, Masaaki; OHBA, Masaaki; KITAGAWA, Hiroshi

- 3C1-33** Guest response of structurally-controlled Fe(II) coordination polymers having various pillar ligands (Kyoto Univ.) ARAI, Masashi; OHTANI, Ryo; YONEDA, Ko; OHBA, Masaaki; KITAGAWA, Susumu
- 3C1-34** The oxidative addition and migration of iodine in a porous coordination polymer  $\{Fe(pz)[Pt(CN)_4]\}$  (Kyoto Univ.) OHTANI, Ryo; YONEDA, Ko; OHBA, Masaaki; GASPHER, Ana; JOSE, Real; KITAGAWA, Susumu

Chair: HASEGAWA, Miki (14:50~15:50)

- \* 14:40-14:50: interval for laptop PC connection.(3C1-36, 3C1-37, 3C1-38, 3C1-39, 3C1-40, 3C1-41)
- 3C1-36** Physical properties of iron(II) spin crossover complexes based on stilbene-attached ligands (The Univ. of Tokyo) TAKAHASHI, Kazuhiro; NISHIKAWA, Michihiro; HASEGAWA, Yuta; KUME, Shoko; NISHIHARA, Hiroshi
- 3C1-37** Crystal Structures and the Multi Spin Transition behaviors of the Grid-type Iron(II) Cluster (Interdisciplinarily Graduate School of Engineering Sciences, Kyushu Univ.) BUNDO, Aoi; ZHANG, Kuirun; KANEGAWA, Shinji; SATO, Osamu
- 3C1-38†** Synthesis and Physical Properties of Cyanide Bridged Octanuclear Cube with TTF moieties (Univ. of Tsukuba; Ibaraki Univ.) MITSUMOTO, Kiyotaka; KITABATAKE, Ryosuke; NISHIKAWA, Hiroyuki; OSHIO, Hiroki
- 3C1-39** Magnetic/Conducting Bi-Functions Derived from Cross-Conjugated Functional Parts in a Stacked Chain of Paddlewheel  $[Ru_2^{II,III}]^+$  and  $[Pt(mnt)_2]$  (Graduate School of Science, Tohoku Univ.) ASAI, Yuichiro; KUBO, Kazuya; MOTOKAWA, Natsuko; MIYASAKA, Hitoshi; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 3C1-40** Control of the degree of charge transfer in relation to physical properties of polymers composed of a *o*-trifluoromethylbenzoate bridged diruthenium paddlewheel complex and TCNQ derivatives (Tohoku Univ.) KAMO, Hiromichi; MOTOKAWA, Natsuko; MIYASAKA, Hitoshi; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 3C1-41** Physical properties of a conductor based on axially substituted ruthenium phthalocyanine (Grad. Sch. Sci., Hokkaido Univ.) NAKATSUGAWA, Tatsuya; TAKAHASHI, Yukihiro; INABE, Tamotsu

Chair: FUNAHASHI, Yasuhiro (16:00~16:50)

- \* 15:50-16:00: interval for laptop PC connection.(3C1-43, 3C1-44, 3C1-45, 3C1-46, 3C1-47)
- 3C1-43#** Change of Charge Distribution of  $[Ru(aqua)(dioxolene)]^{2+}$  Complexes Caused by Deprotonation of the Aqua Group (IMS) BAI, ZHENG SHUAI; WADA, Tohru; TANAKA, Koji
- 3C1-44** Synthesis and properties of cyclic trinuclear ruthenadithiolene complex using benzenehexathiol (The Univ. of Tokyo) KAMBE, Tetsuya; SIBATA, Yusuke; TSUKADA, Satoru; KUSAMOTO, Tetsuro; KUME, Shoko; YAMAOKI, Yoshinori; NISHIHARA, Hiroshi
- 3C1-45** Redox Control of a Ru(II)-Pterin Complex by Intermolecular Hydrogen Bonding with Nucleobases (Univ. of Tsukuba; Osaka Univ.; SORST(JST); Ehwa Womans) INUI, Yuji; MIYAZAKI, Soshi; KOJIMA, Takahiko; FUKUZUMI, Sunichi
- 3C1-46†** Studies of a Electrooxidation Reaction Using Metal Complexes Containing Secondary Thioamide Units (Chemical Resources Laboratory, Tokyo Institute of Technology) TERATANI, Takuya; KOIZUMI, Take-aki; KANBARA, Takaki; YAMAMOTO, Takakazu
- 3C1-47†** Electrochemical properties of Ru complexes with redox-active NAD/NADH type ligands (IMS) MIYACHI, Mariko; FUKUSHIMA, Takashi; WADA, Tohru; TANAKA, Koji

Chair: MIYASAKA, Hitoshi (17:00~17:50)

- \* 16:50-17:00: interval for laptop PC connection.(3C1-49, 3C1-50, 3C1-52, 3C1-53)
- 3C1-49** Magnetic Bistability of Tridentate Nitrogen Donor Complexes due to Quenching of Orbital angular momentum (Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) NISHIOKA, Junichi; TANAKA, Yuki; KANEGAWA, Shinji; SATO, Osamu
- 3C1-50\*** Second coordination sphere effects on redox equilibrium in a valence-tautomeric compound: a theoretical study (IMCE, Kyushu Univ.) JUHASZ, Gergely; SATO, Osamu; YOSHIZAWA, Kazunari
- 3C1-52** Synthesis and Physicality of the 3d Transition Metal Complexes Aimed at Magnetic Material Controlled by Changing Orbital Angular Momentum (Interdisciplinary Graduate School of Engineering Science, Kyushu Univ.) TANAKA, Yuki; KANEGAWA, Shinji; SATO, Osamu
- 3C1-53** Syntheses and structures of a macrocyclic TTF-based ligand and its metal complexes (Univ. of Tsukuba) KITABATAKE, Ryosuke; NISHIKAWA, Hiroyuki; OSHIO, Hiroki

Chair: TSUGE, Kiyoshi (18:00~18:30)

- \* 17:50-18:00: interval for laptop PC connection.(3C1-55, 3C1-57)
- 3C1-55\*** luminescent mechanochromism of silver(I) complexes with several diphosphines bridged by a phenylene group (Department of Materials and Life Science, Seikei Univ.) TSUKUDA, Toshiaki; IKEDA, Michiko; KAWASE, Marina; MATSUMOTO, Kenji; TSUBOMURA, Taro
- 3C1-57**  $\pi$ -Coordination of Silver Complex Supported by NS2 Cyclic Ligand (Doshisha Univ.) HITOMI, Yutaka; IWASAKI, Yuki; TAKEYASU,

Toshiyuki; FUNABIKI, Takuzou; KODERA, Masahito

Monday, March 29, AM

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

- \* 8:50-9:00: interval for laptop PC connection.(4C1-01, 4C1-02, 4C1-04, 4C1-06)
- 4C1-01** Study of Luminescence of Indium Complexes for Development of Solar Neutrino Detector (Miyagi Univ. of Educ.) KASAI, Kayoko; BENI, Tomohiro; FUKUDA, Yoshiyuki
- 4C1-02\*** Fabrication of Anhydrous Proton Conductors Consisting of Imidazole and Porous Coordination Polymer (Kyoto Univ.; JST) HORIKE, Satoshi; BREEKAEW, Sareeya; NAKAMURA, Kouhei; KITAGAWA, Susumu
- 4C1-04\*** Withdrawn
- 4C1-06** Synthesis and Characterization of a Nickel(II) Complex Supported by a Fluorescein-containing Macrocyclic Ligand (Kyoto Univ.) ASAH, Fumiyoshi; TAKI, Masayasu; YAMAMOTO, Yukio

Chair: KASAI, Kayoko (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4C1-08, 4C1-10, 4C1-12, 4C1-13)
- 4C1-08\*** Proton Transfer and Vapochromism of Hydrogen-bonded Hydrazone-Pd Complexes (Hokkaido Univ.; Aichi Univ. of Education) KOBAYASHI, Atsushi; DOSEN, Masaaki; NAKAJIMA, Kiyohiko; KATO, Masako
- 4C1-10\*** Withdrawn
- 4C1-12** Preparation and crystal structure of novel luminescent gold(I) complexes with mercaptobenzothiazole ligand (Osaka Munic. Tech. Res. Inst., Osaka Electro-Commun. Univ.) KITAGAWA, Shota; WATASE, Seiji; NISHIOKA, Noboru; MATSUKAWA, Kimihiro
- 4C1-13** Synthesis and Properties of Metalloporphyrins Having Gold Nanocluster (Doshisha Univ.; Kyoto Univ.) AOKI, Kazuki; FUKUSHIMA, Kouzi; OHYAMA, Junya; HIGUCHI, Masahiro; TANAKA, Tsunehiro; FUNABIKI, Takuzou; KODERA, Masahito; HITOMI, Yutaka

Chair: HORIKE, Satoshi (11 : 20 ~ 12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4C1-15, 4C1-17, 4C1-19, 4C1-20)
- 4C1-15\*** A Heat/Pressure-Operated Dynamic System Performed by a Triphenylene-Bridged Platinum Complex (JST ERATO-SORST Nanospace Project; The Univ. of Tokyo; Kyushu Univ.; Tokyo Univ. of Sci.; NIMS; JASRI/SPRing-8) HIRAHARA, Eri; AIDA, Takuzo; FUJIGAYA, Tsuyohiko; YAMASHITA, Takashi; YUSA, Hitoshi; SUGIMOTO, Kunihisa; KIM, Jungeun; TSUJI, Naruki; YASUDA, Nobuhiro; KIMURA, Shigeru; TAKATA, Masaki
- 4C1-17\*** Syntheses and Properties of Hetero Dinuclear Complexes by Systematic Introduction of a Series of Metal Ions to the Same Motif (Faculty of Science, Hokkaido Univ.) OHBA, Tadashi; KOBAYASHI, Atsushi; CHANG, Ho-chol; KATO, Masako
- 4C1-19** Synthesis and Electronic State of Quasi-One-Dimensional Halogen-Bridged Pt Complexes with Counter Ions Having Long Alkyl Chains (Tohoku Univ.) UEDA, Yutaro; TAKAISHI, Shinya; MIYASAKA, Hitoshi; YAMASHITA, Masahiro
- 4C1-20** Chromic properties of luminescent Pt(II) coordination polymers which respond to vapor (Hokkaido Univ.) HARA, Hirofumi; KOBAYASHI, Atsushi; KATO, Masako

Monday, March 29, PM

Chair: TAKAISHI, Shinya (13 : 30 ~ 14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4C1-28, 4C1-29, 4C1-30, 4C1-31, 4C1-32, 4C1-33)
- 4C1-28** Preparation of Platinum Complexes Containing a Benzenediamide Ligand and Comparison of Electronic Influence Given by the Electron-donating Ligand (Chemical Resources Laboratory, Tokyo Institute of Technology) FUKUJU, Kazunori; KOIZUMI, Take-aki
- 4C1-29** Syntheses and Electronic Properties of Novel Iridium(III) Complexes Containing Cyclometallating Ligands and Terpyridine Derivative (Kansai Univ.) SHINPUKU, Yoshiki; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 4C1-30** Synthesis and photophysical properties of new dendritic blue phosphorescent iridium complexes having functional ligand (Chiba Univ.) TAWADA, Naotaka; YAGAI, Shiki; KITAMURA, Akihide; KARATSU, Takashi
- 4C1-31** Photophysics of self- and co-assembly of melamine-linked iridium (III) complex (Chiba Univ.) KOBAYASHI, Masahiro; YAGAI, Shiki; KITAMURA, Akihide; KARATSU, Takashi
- 4C1-32** Preparation of functional metal-organic frameworks (MOFs) embedding gold nanorods. (Grad. Sch. Eng., Kyushu Univ.) SUGIKAWA, Kouta; SADA, Kazuki
- 4C1-33** Guest Sorption Influenced by Dynamic Modules in Porous Frameworks of Coordination Polymers (Kyoto Univ.) HIJIKATA, Yuh; HORIKE, Satoshi; KITAGAWA, Susumu

Chair: YAMAMOTO, Yukio (14 : 40 ~ 15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4C1-35, 4C1-36, 4C1-37, 4C1-38, 4C1-39, 4C1-40)

- 4C1-35** Characterization of N2S2-type Co(III) complexes and their reactivity for NO (Graduate School of Frontier Materials, Nagoya Institute of Technology) TSURUDOME, Daisuke; INOMATA, Tomohiko; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 4C1-36** Luminescent switching of conjugated oligomer in flexible coordination space (Kyoto Univ.) KITAYAMA, Koji; YANAI, Nobuhiro; UEMURA, Takashi; KITAGAWA, Susumu
- 4C1-37** Adsorption Properties of Metal Complex Mixture (Hokkaido Univ.) NORO, Shin-ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi
- 4C1-38** Crystal structure and magnetic property of imidazole- and azide-bridged copper(II) coordination polymer (Chitose Inst. Sci. Tech.; RIES, Hokkaido Univ.) SAKAI, Ken-ichi; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi
- 4C1-39** Anisotropic gas permeation ability of single crystal membrane [Cu<sub>2</sub>(bza)<sub>4</sub>(pyz)]<sub>n</sub> (Yokohama City Univ.; PRESTO, JST) TAKASAKI, Yuichi; MIYAKE, Ryosuke; TAKAMIZAWA, Satoshi
- 4C1-40** Syntheses, Structures and Photoluminescent Properties of New Coordination Polymers Build With Dinuclear Copper (I) Cyano Complex Units (Graduate School of Arts and Sciences, The Univ. of Tokyo) FUCHIWAKI, Junta; NISHIKIORI, Shin-ichi

Chair: UEMURA, Takashi (15 : 50 ~ 16 : 40)

- \* 15:40-15:50: interval for laptop PC connection.(4C1-42, 4C1-43, 4C1-45, 4C1-46)
- 4C1-42** Electronic Study of Emission wavelength of Metal Complex (Kagawa Univ.) KENMOTSU, Masahiro; ISHII, Tomokiko; TSUGE, Tsuge; SAKANE, Genta; SASAKI, Yoichi
- 4C1-43\*** Quantitative Explanation and the Wavelength Prediction of the Absorption and Emission Spectrum of Metal Complex by means of Electronic Theory (Kagawa Univ., Okayama Univ. of Sci.) ISHII, Tomohiko; KENMOTSU, Masahiro; SAKANE, Genta; TSUGE, Kiyoshi; SASAKI, Yoichi
- 4C1-45** Crystal structure and dielectric property of porous coordination polymers having dipolar rotor (JST-ERATO Kitagawa Project; Kyoto Univ.) KOSAKA, Wataru; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 4C1-46** Development of a New Fluorescent Sensor for Copper(I) Utilizing Intramolecular Oxidation Reaction (Kyoto Univ.) MIZUKAWA, Tomoaki; TAKI, Masayasu; YAMAMOTO, Yukio

Room C2

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Coordination Chemistry, Organometallic Chemistry

Friday, March 26, AM

Chair: KODERA, Masahito (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1C2-01, 1C2-03, 1C2-04, 1C2-05)
- 1C2-01\*** Syntheses and photodynamic activities of sugar linked In porphyrins as a dual drug of diagnostic imaging and photodynamic therapy (Department of Chemistry and Materials Engineering, Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) NAKAI, Misaki; MAEDA, Tomohiro; YANO, Shigenobu; SAKUMA, Shiho; MAEDA, Akira; MORITA, Akimichi; NAKABAYASHI, Yasuo
- 1C2-03** Covalent bond formation between the heme propionates and the amino groups on the myoglobin surface (Osaka Univ.) KITAMURA, Keiichi; ONODA, Akira; HAYASHI, Takashi
- 1C2-04** Evaluation of Reactivities and Electronic States of Meso-unsubstituted Iron Corrole Complex in Heme Pocket. (Osaka Univ.) HAYASHI, Akihiro; MATSUO, Takashi; HAYASHI, Takashi
- 1C2-05\*\*** A Mn Coronet Porphyrin as a New Chemical Model of Prostaglandin H Synthase: Its Catalytic Oxygenation of All-*cis*-Polyenes (Institute for Materials Chemistry and Engineering, Kyushu Univ.) REDDY, Jakkidi; OHTA, Takehiro; NARUTA, Yoshinori

Chair: HAYASHI, Takashi (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1C2-08, 1C2-10, 1C2-12, 1C2-13)
- 1C2-08\*** Arsenic Detoxification by Vitamin B<sub>12</sub> (Nippon Sheet Glass Co. Ltd) NAKAMURA, Koichiro
- 1C2-10\*\*** Development of visible-light-driven vitamin B12 catalytic system utilizing organic photosensitizers (Kyushu Univ.) TAHARA, Keishiro; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio
- 1C2-12** Photochemical Properties of B<sub>12</sub>-Ru(bpy)<sub>3</sub> Connecting System (Kyushu Univ.) AOKI, Junichi; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio
- 1C2-13** Electron Transport from Microbes to Electrodes Using Artificial Molecules (Grad. of Eng. The Univ. of Tokyo) HIRAKAWA, Yuichiro;



MORI, Shigeki; NAKAMURA, Ryuhei; ISHII, Kazuyuki; HASHIMOTO, Kazuhito

Chair: FUNAHASHI, Yasuhiro (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(1C2-15, 1C2-16, 1C2-17, 1C2-18, 1C2-19)
- 1C2-15** Anti-ROS Activity of Manganese-monoamidate Complex (Doshisha Univ.) HITOMI, Yutaka; KASHIDA, Akihiro; AOKI, Kazuki; ARAKAWA, Kengo; FUNABIKI, Takuzou; KODERA, Masahito
- 1C2-16** Reaction of Dinuclear Iron-monoamidate Complex with Hydrogen Peroxide (Doshisha Univ.) HITOMI, Yutaka; YANO, Junya; HATA, Masashi; FUNABIKI, Takuzou; KODERA, Masahito
- 1C2-17** Reaction of Mononuclear Iron-monoamidate Complex with Nitric Oxide (Doshisha Univ.) HITOMI, Yutaka; SUEMOTO, Naoya; ARAKAWA, Kengo; ASAKURA, Hiroyuki; TANAKA, Tsunehiro; FUNABIKI, Takuzo; KODERA, Masahito
- 1C2-18** O<sub>2</sub> Binding Behavior and Oxidation States of Hemerythrin-Like Protein (Graduate School of Engineering, Osaka Univ.) OKAMOTO, Yasunori; ONODA, Akira; HAYASHI, Takashi
- 1C2-19\*** Reductive Reactivity of  $\alpha$ -domain of Metallothionein Having Tetranuclear Iron(II) Center in Water (Graduate School of Engineering, Osaka Univ.) SANO, Yohei; ONODA, Akira; HAYASHI, Takashi

## Friday, March 26, PM

Chair: TAKI, Masayasu (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(1C2-28, 1C2-29, 1C2-31, 1C2-32, 1C2-33)
- 1C2-28** Effects of Metal Ions on Hydride-Transfer Reactions from Dihydro-nicotinamide Adenine Dinucleotide Analogues to Non-heme Oxoiron(IV) Complexes (Osaka Univ.; SORST, JST) MORIMOTO, Yuma; LEE, Yong-min; NAM, Wonwoo; FUKUZUMI, Shunichi
- 1C2-29\*** Formation of Non-Heme Oxoiron(IV) Complexes by Electron-Transfer Oxidation of the Iron(II) Complexes (Osaka Univ.; SORST, JST; Ewha Womans Univ.) KOTANI, Hiroaki; SUENOBU, Tomoyoshi; LEE, Yong-min; NAM, Wonwoo; FUKUZUMI, Shunichi
- 1C2-31** Reaction of Mononuclear Iron-monoamidate Complex with Hydrogen Peroxide (Doshisha Univ.) ARAKAWA, Kengo; TANIKAWA, Tomoe; HITOMI, Yutaka; FUNABIKI, Takuzo; KODERA, Masahito
- 1C2-32** Activation of Hydrogen Peroxide by Mononuclear Iron Complex (Doshisha Univ.) HATA, Masashi; HITOMI, Yutaka; FUNABIKI, Takuzo; KODERA, Masahito
- 1C2-33** Development of Hydrogen Peroxide Probes Having Metal Ion as Reaction Site (Doshisha Univ.) TAKEYASU, Toshiyuki; KUBO, Tatsuya; HITOMI, Yutaka; FUNABIKI, Takuzo; KODERA, Masahito

Chair: HIROTSU, Masakazu (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(1C2-35, 1C2-36, 1C2-37, 1C2-38, 1C2-39, 1C2-40)
- 1C2-35** Synthesis and Ligand Substitution Reactions of High-Potential [4Fe-4S] Clusters Bearing Bulky Thiolate Ligands. (Grad. Sch. Sci., Nagoya Univ.; Research Center for Materials Science, Nagoya Univ.; Institute for Chemical Research, Kyoto Univ.) TANIFUJII, Kazuki; YAMADA, Norihiro; TAJIMA, Tomoyuki; OHKI, Yasuhiro; SASAMORI, Takahiro; TOKITOH, Norihiro; TATSUMI, Kazuyuki
- 1C2-36** Redox Properties of [4Fe-4S] Clusters Carrying a Tridentate Ligand (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) TERADA, Tamaki; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 1C2-37** Synthesis of [8Fe-7S] and [8Fe-8S] clusters relevant to the nitrogenase FeMo-cofactor from the reactions of iron(II) thiolate complexes having *m*-terphenyl groups and elemental sulfur (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) OHTA, Shun; IKAGAWA, Yohei; SUIZU, Rie; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1C2-38** Synthesis and structures of iron-sulfur clusters using a trinuclear iron complex having bridging thiolate and terminal amide ligand, Fe<sub>3</sub>( $\mu$ -STip)<sub>4</sub>[N(SiMe<sub>3</sub>)<sub>2</sub>]<sub>2</sub> (Tip = 2,4,6-*i*-Pr<sub>3</sub>C<sub>6</sub>H<sub>2</sub>) (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) MIKI, Miku; OHTA, Shun; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1C2-39†** Synthesis and Reactions of Ni(I) Cyclam Complexes Having Intramolecular Thioether as Models of the Active Site of Methyl Coenzyme M Reductase (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) NISHIGAKI, Junichi; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 1C2-40** Hydrogen bonding effect on electron transfer between Co and quinone in a valence tautomeric complex. (Kyushu Univ.) YAMABE, Atsumi; SHAIKH, Nizamuddin; KANEGAWA, Shinji; SATO, Osamu

Chair: OKAMURA, Takaaki (15:50~16:50)

- \* 15:40-15:50: interval for laptop PC connection.(1C2-42, 1C2-43, 1C2-44, 1C2-45, 1C2-46, 1C2-47)
- 1C2-42** Reactivity of Multi-copper complex with a Cage-type ligand for constructing a model of MCO active sites (Nagoya Institute of Technology) NAGATA, Kojiro; SEKO, Mayumi; FUKUI, Kensuke; KAJITA, Yuji; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki;

FUNAHASHI, Yasuhiro

- 1C2-43** Formation and Phenolase Activity of Dioxxygen Intermediate Species on Dicopper-Sparteine Complexes (Nagoya Institute of Technology) TOYAMA, Tomoaki; YOSHII, Koutaro; WASADA, Yuko; KAJITA, Yuji; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki; FUNAHASHI, Yasuhiro
- 1C2-44** High efficiency production of  $\beta$ -carotene cation radical using a thiocalix[3]pyridine copper(I) complex (Osaka City Univ.) IKENAKA, Shunya; NISHIKAWA, Yusuke; KUSUMOTO, Toshiyuki; FUJII, Ritsuko; HIROTSU, Masakazu; NISHIOKA, Takanori; HASHIMOTO, Hideki; KINOSHITA, Isamu
- 1C2-45** Modeling the Active Site of Copper-Containing Amine Oxidase - Biogenetic Process of TPQ (TOPA quinone) Cofactor and Amine Oxidation Reaction (Osaka Univ.) TABUCHI, Kae; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 1C2-46** Synthesis and Characterization of Copper(II) Complexes with Tetrahedral Geometry As an Active Site Model for Copper Proteins (Osaka Univ.) OKUBO, Yuri; KUNISHITA, Atsushi; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 1C2-47** Study of substituent effect on dinitrogen activation in diphosphinoamine molybdenum dinitrogen complex (Nagoya Institute of Technology) OGAWA, Takahiko; KAJITA, Yuji; MASUDA, Hideki

Chair: NAKAJIMA, Hiroshi (17:00~18:00)

- \* 16:50-17:00: interval for laptop PC connection.(1C2-49, 1C2-50, 1C2-51, 1C2-52, 1C2-54)
- 1C2-49** Synthesis of Sulfur-containing Cu(II) Oxygen Species and Its Reaction with Substrates (Nagoya Institute of Technology) TOZUKA, Takashi; KAJITA, Yuji; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 1C2-50** Properties and Substituent Effect of Molybdoenzyme Models with 3-Acylaminobenzenedithiolate Ligand (Graduate School of Science, Osaka Univ.) USHIJIMA, Yasuhiro; OKAMURA, Taka-aki; YAMAMOTO, Hitoshi; ONITSUKA, Kiyotaka
- 1C2-51** Synthesis and properties of molybdoenzyme models with *N*-phenyl carbamoylbenzenedithiolate ligands (Graduate School of Science, Osaka Univ.) KUNISUE, Kumiko; OKAMURA, Taka-aki; YAMAMOTO, Hitoshi; ONITSUKA, Kiyotaka
- 1C2-52\*** Synthesis of Mo/Fe/S Clusters using Molybdenum Trisulfido Complexes Having a Siloxy-Based O,N,N-Tridentate Ligand (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) SENDA, Shunsuke; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1C2-54** Synthesis and Ligand Effects on the Structure and Spectroscopic Properties of Selenidomolybdenum(IV) Complexes as a Model for Nicotinate Hydroxylase (Graduate School of Science, Osaka City Univ.; Graduate School of Engineering, Osaka Univ.) TANO, Hiroyuki; SUGIMOTO, Hideki; MIYAKE, Hiroyuki; ITOH, Shinobu

Chair: MATSUO, Takashi (18:10~18:30)

- \* 18:00-18:10: interval for laptop PC connection.(1C2-56, 1C2-57)
- 1C2-56** Synthesis and Reactivity Studies of a Molybdenum(VI)sulfido Complex as a Model for the Active Sites of Mo-Containing Hydroxylase and Dehydrogenase (Graduate School of Engineering, Osaka Univ.) TATEMOTO, Susumu; SUGIMOTO, Hideki; ITOH, Shinobu
- 1C2-57** Preparation and Properties of Oxo-Sulfide Tungsten(VI) Complexes Supported by Dithiolene Ligands (Graduate School of Engineering, Osaka Univ.) HATAKEDA, Kohei; SUGIMOTO, Hideki; ITOH, Shinobu

## Saturday, March 27, AM

### Si Cyclic silicon compounds

Chair: KANO, Naokazu (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2C2-01, 2C2-02, 2C2-03, 2C2-04, 2C2-06)
- 2C2-01** Synthesis and Structures of Perfluoroarylcyclobutadienes by Photoisomerization of Tetrahedrane derivatives (Univ. of Tsukuba) INAGAKI, Yusuke; NISHINA, Motoaki; NAKAMOTO, Masaaki; SEKIGUCHI, Akira
- 2C2-02** Tetrahedranyl phenyl sulfide: Synthesis of the First Sulfur-Substituted Tetrahedrane (Univ. of Tsukuba) OCHIAI, Tatsumi; NAKAMOTO, Masaaki; SEKIGUCHI, Akira
- 2C2-03** Electronic Structure of an Isolable Cyclobutadiene Silicon Analogue Stabilized by Bulky Rind Groups (RIKEN ASI; Graduate School of Engineering, Kyoto Univ.) SUZUKI, Katsunori; HASHIZUME, Daisuke; MATSUO, Tsukasa; FUENO, Hiroyuki; TANAKA, Kazuyoshi; TAMAO, Kohei
- 2C2-04\*** Synthesis of a Silicon-Silicon  $\pi$  Single Bond Compound Conjugated with Phenyl Groups (Graduate School of Engineering, Gunma Univ.) OTSUKA, Kyohei; ISHIDA, Shintaro; KYUSHIN, Soichiro
- 2C2-06** Synthesis and Properties of A Novel Silicon Cluster Containing a Cuneane Skeleton (Graduate School of Engineering, Gunma Univ.) OTSUKA, Kyohei; ISHIDA, Shintaro; KYUSHIN, Soichiro

**Si Low-coordinated species (synthesis and structure)**

Chair: MATSUO, Tsukasa (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2C2-08, 2C2-09, 2C2-10, 2C2-12, 2C2-13)
- 2C2-08** Structures of Disilaallyllithium in Solid State and in Solution (Univ. of Tsukuba) TANAKA, Hiroaki; INOUE, Shigeyoshi; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 2C2-09** Studies of the substituent effect on 1,2-dialkynylsilenes (Institute for Chemical Research, Kyoto Univ.) SATO, Takahiro; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 2C2-10\*** Synthesis, structure, and properties of a silicon analogue of biphenyl (Institute for Chemical Research, Kyoto Univ.) TANABE, Yusuke; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 2C2-12** Synthesis and Structure of Persilyl-substituted Trisilaallene (Univ. of Tsukuba) TANAKA, Hiroaki; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 2C2-13** Reaction of a Disilyne with Hydroboranes: Synthesis, Structure, and Reaction Mechanism of Boryl-substituted Disilene (Univ. of Tsukuba) TAKEUCHI, Katsuhiko; ICHINOHE, Masaaki; SEKIGUCHI, Akira

**Si Low-coordinated species (synthesis and structure)**

Chair: MIZUHATA, Yoshiyuki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2C2-15, 2C2-16, 2C2-17, 2C2-18, 2C2-19, 2C2-20)
- 2C2-15** Synthesis, Properties, and Reactivities of Unsymmetrically-substituted Disilyne with a New Bulky Substituent (Univ. of Tsukuba) MURATA, Yoshitaka; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 2C2-16** Synthesis, Structure and Properties of the First Stibasilene (Univ. of Tsukuba) AOKI, Shinji; KAWAI, Manami; LEE, Vladimir Ya.; SEKIGUCHI, Akira
- 2C2-17<sup>#</sup>** Gold(I) Complexes of pi-Conjugated Phosphasilenes Stabilized by Bulky Rind Groups (RIKEN ASI; Graduate School of Engineering, Kyoto Univ.) LI, Baolin; MATSUO, Tsukasa; HASHIZUME, Daisuke; FUKUNAGA, Takeo; FUENO, Hiroyuki; TANAKA, Kazuyoshi; TAMAO, Kohei
- 2C2-18** Synthesis and Reduction of Tetrabromo-1, 3-Disilacyclobutane (Univ. of Tsukuba) ENDO, Masahisa; NAKAMOTO, Masaaki; SEKIGUCHI, Akira
- 2C2-19** Synthesis and Properties of pi-Conjugated Disilenes Bearing Polycyclic Aromatic Groups (RIKEN Advanced Science Institute) KOBAYASHI, Megumi; HASHIZUME, Daisuke; FUKUNAGA, Takeo; MATSUO, Tsukasa; TAMAO, Kohei
- 2C2-20** Reaction of Disilylithium with Trityl Bromide (Univ. of Tsukuba) KACHI, Marina; ICHINOHE, Masaaki; SEKIGUCHI, Akira

**Saturday, March 27, PM**

Chair: MATSUKAWA, Kimihiro (13 : 40~14 : 30)

- \* 13:30-13:40: interval for laptop PC connection.(2C2-29)
- 2C2-29<sup>#</sup> Special Lecture** One step Synthesis of a Perchlorinated Cyclohexasilane from Trichlorosilane: A Route to New Materials for Flexible Electronics (North Dakota State Univ., USA) Philip Boudjouk

**Si Low-coordinated species (reactions)**

Chair: IWAMOTO, Takeaki (14 : 40~15 : 30)

- \* 14:30-14:40: interval for laptop PC connection.(2C2-35, 2C2-36, 2C2-37, 2C2-38, 2C2-39)
- 2C2-35** Reaction of Disilyne with cyclohexanethiol-synthesis and structure of cyclic sulfonium ylide type compound- (Univ. of Tsukuba) YAMAGUCHI, Takahiro; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 2C2-36** Reaction of a disilyne with an N-heterocyclic carbene (Univ. of Tsukuba) YAMAGUCHI, Torahiko; SEKIGUCHI, Akira
- 2C2-37<sup>#</sup>** Development of Bulky Rind Groups Having Longer Alkyl Chains for Soluble pi-Conjugated Disilene Oligomers (RIKEN) LI, Liangchun; HASHIZUME, Daisuke; FUKUNAGA, Takeo; MATSUO, Tsukasa; TAMAO, Kohei
- 2C2-38** Synthesis, Structure and Reactivities of the Isolable Aryl-substituted Silyl Radical (Univ. of Tsukuba) TAIRA, Kanako; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 2C2-39** Attempt to Synthesize Tris(silyl radical)s (Univ. of Tsukuba) NOZAWA, Takeshi; ICHINOHE, Masaaki; SEKIGUCHI, Akira

**Si Synthesis of silicon compounds**

Chair: ICHINOHE, Masaaki (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(2C2-41, 2C2-42, 2C2-43, 2C2-44, 2C2-45)
- 2C2-41** Synthesis, Structures, and Properties of Benzodisilacyclobutenes (Graduate School of Engineering, Gunma Univ.) TOMA, Yuki; IJIMA, Tomoo; OTSUKA, Kyohei; ISHIDA, Shintaro; KYUSHIN, Soichiro
- 2C2-42** Synthetic studies of a stable chlorosilene by taking advantage of steric protection (Institute of Chemical Research, Kyoto Univ.) MIEDA, Eiko;

- SASAMORI, Takahiro; SASE, Shohei; GOTO, Kei; TOKITOH, Norihiro
- 2C2-43<sup>†</sup>** Synthetic Studies of Silicon-containing Heteroaromatic Compounds (Institute for Chemical Research, Kyoto Univ.) MORIKAWA, Satoshi; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 2C2-44** Complexation of *o*-(Difluorosilyl)(dimesitylboryl)benzenes with a Fluoride Ion and Their Dynamic Behaviors (Graduate School of Science, Hiroshima Univ.) SHIMADA, Junpei; KAWACHI, Atsushi; YAMAMOTO, Yohsuke
- 2C2-45** Synthesis and Reactions of *o*-Dihydrosilyl(dimesitylboryl)benzenes (Graduate School of Science, Hiroshima Univ.) KAWACHI, Atsushi; MORISAKI, Hiroshi; YAMAMOTO, Yohsuke

**Si Oligosilanes**

Chair: MAEDA, Hajime (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(2C2-47, 2C2-49, 2C2-50, 2C2-51)
- 2C2-47<sup>#</sup>** Analysis of the UV-Visible Spectra of Ladder Polysilanes by Theoretical Calculations (Graduate School of Engineering, Gunma Univ.) MATSUURA, Takaya; KYUSHIN, Soichiro
- 2C2-49** Preparation and nanocrystallization of oligosilanes with sulfur substituents (Shizuoka Univ.) SHIBATA, Yuji; MORITA, Yuki; SAKAMOTO, Kenkichi
- 2C2-50** Stepwise Chlorodephenylation of 1,1,3,3-Tetraphenyl-2,2,4,4-tetrakis(trimethylsilyl)cyclotetrasilane (Graduate School of Engineering, Gunma Univ.) ISHII, Yosuke; ISHIDA, Shintaro; KYUSHIN, Soichiro
- 2C2-51** Selective synthesis of cyclic dimethylene-silylene oligomers using chlorolithioacetylene (Shizuoka Univ.) MIYAZAKI, Tatsuya; SAKAMOTO, Kenkichi

**Sunday, March 28, PM****Ge Synthesis, structure, reactions**

Chair: SAITO, Masaichi (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(3C2-25, 3C2-26, 3C2-27, 3C2-28, 3C2-29, 3C2-30)
- 3C2-25** Reactions of a Silane and a Germane Bearing two Martin Ligands with an Anionic Iron Complex (The Univ. of Tokyo) YOSHINARI, Naohito; KANO, Naokazu; KAWASHIMA, Takayuki
- 3C2-26** Synthesis and Structure of Silylene and Germylene Complexes of Group 4 Metals (Univ. of Tsukuba) YOKOYAMA, Taka; LEE, Vladimir Ya.; SEKIGUCHI, Akira
- 3C2-27** Synthesis and Structure of a Stable 1,2-Bis(ferrocenyl)digermene (Institute for Chemical Research, Kyoto Univ.) MIYAMOTO, Hisashi; SASAMORI, Takahiro; TOKITOH, Norihiro
- 3C2-28<sup>#</sup>** Synthesis, Structure and Unusual Reactivity of a Novel Digermene (Univ. of Tsukuba) MCNEICE, Kiera; LEE, Vladimir Ya.; SEKIGUCHI, Akira
- 3C2-29** Synthesis and Structure of Tetragermacyclobutadiene Transition Metal Complexes (Univ. of Tsukuba) ITO, Yuki; LEE, Vladimir Ya.; SEKIGUCHI, Akira
- 3C2-30** Thermolysis of Acylpolysilylgermanes with Enones (Kurashiki Univ. of Science and the Arts) FUJIMOTO, Hiroki; NAKA, Akinobu

**Sn, Pb, B Synthesis, structure, reactions**

Chair: KAWACHI, Atsushi (14 : 10~15 : 00)

- \* 14:00-14:10: interval for laptop PC connection.(3C2-32, 3C2-33, 3C2-34, 3C2-35, 3C2-36)
- 3C2-32** Reactions of Novel Trilithiostannane with Group 14 Trihalides (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) TOMIZAWA, Katsuya; SAITO, Masaichi
- 3C2-33** Synthesis and Properties of Stannabenzene (Institute for Chemical Research, Kyoto Univ.) NODA, Naoya; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 3C2-34** Synthesis, Structure and Reactions of Tetraethylolithiostannole (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.; Institute for Molecular Science) KUWABARA, Takuya; KAMBAYASHI, Chika; SAITO, Masaichi; ISHIMURA, Kazuya; NAGASE, Shigeru
- 3C2-35** Synthesis of Plumbacyclopentadienylidene (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.; Institute for Molecular Science) KANEKO, Misumi; SAITO, Masaichi; ISHIMURA, Kazuya; NAGASE, Shigeru
- 3C2-36** Synthesis and reactions of borylcyclopropene (Shizuoka Univ.) TANAKA, Daisuke; SAKAMOTO, Kenkichi

**Si reactivity**

Chair: NAMAMOTO, Masaaki (15 : 10~15 : 40)

- \* 15:00-15:10: interval for laptop PC connection.(3C2-38, 3C2-39, 3C2-40)
- 3C2-38<sup>†</sup>** Structural Chemistry on the Nucleophilic Substitution Reaction of *cis, trans*-*cis*-[MeSi(NCO)O]<sub>4</sub> (Tokyo Univ. of Science, Faculty of Science and Technology) SEKI, Hiroyasu; ABE, Yoshimoto; KONAKAHARA, Takeo;

GUNJI, Takahiro

**3C2-39** Properties of Amphiphilic Decasilanes with Various Polyethylene Glycol End-Groups in Water (Shizuoka Univ.) MAKINO, Ryota; SAKAMOTO, Kenkichi

**3C2-40** Isomerization of silamine to silaenamine via 1,3-silyl migration (Tohoku Univ.) OHNISHI, Nobuyoshi; ISHIDA, Shintaro; ISOBE, Hiroyuki; MAEDA, Satoshi; OHNO, Koichi; IWAMOTO, Takeaki

Chair: ABE, Masaaki (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(3C2-42, 3C2-44, 3C2-46, 3C2-47)

**3C2-42\*** Theoretical study on a mechanism of catalytic N<sub>2</sub> conversion into silylamine by a Mo-Fe complex (IMCE, Kyushu Univ.; Sch. Eng., The Univ. of Tokyo) TANAKA, Hiromasa; SASADA, Akira; KONO, Tomohisa; YUKI, Masahiro; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki; YOSHIZAWA, Kazunari

**3C2-44\*\*** Water Oxidation at Low Overpotentials with Manganese Porphyrin Dimer Modified ITO Assemblies (Inst. for Mater. Chem. and Eng., Kyushu Univ.; Dept. of Chem., Kyushu Univ.) ZAHARAN, Zaki; OHTA, Takehiro; WANG, Ang; NARUTA, Yoshinori

**3C2-46†** Equilibrium Between Dimer and Monomer of Rhenium Carbonyl Complex with Schiff Base Ligand (Graduate School of Science, Tohoku Univ.; Graduate School of Science, Osaka Univ.) IKEDA, Hayato; YOSHIMURA, Takashi; TAKAYAMA, Tsutomu; SEKINE, Tsutomu; SHINOHARA, Atsushi

**3C2-47** Heterogeneous catalytic acetalization with Fe(II)-Pt(II) porous coordination polymer (Kyoto Univ.) UMEYAMA, Daiki; HORIKE, Satoshi; FUKUSHIMA, Tomohiro; KITAGAWA, Susumu

Chair: OHBA, Masaaki (17 : 00~18 : 00)

\* 16:50-17:00: interval for laptop PC connection.(3C2-49, 3C2-52, 3C2-53, 3C2-54)

**3C2-49** Young Scholar Lectures of CSJ Dynamic Behavior of NO Ligands on Ruthenium Complexes (Grad. Sch. Sci. Technol., Nagasaki Univ.) ARIKAWA, Yasuhiro

**3C2-52** Electronic effect of on dioxygen activation: Synthesis, structure, and dioxygen activation of diiron complex supported by bis-tpa type ligand with four nitro groups (Bioinorganic Chemistry and Chemical Biology Laboratory, Doshisha Univ.) KUDARA, Takamasa; KODERA, Masahito; HITOMI, Yutaka; HUNABIKI, Takuzo

**3C2-53** Effect of Carboxylate-Donor on Dioxygen Activation by Diiron Complexes as Functional Model of sMMO (Doshisha Univ.; Biochemical and Chemical Biology Lab) YASUNAGA, Tomohiro; YAMADA, Shuhei; KODERA, Masahito; HITOMI, Yutaka; FUNABIKI, Takuzo

**3C2-54†** Catalysis of [M(pyrazine-2,3-dithiolato)<sub>2</sub>]<sup>2+</sup> in Hydrogen Production from Water (M = Fe, Co, Ni, Pd, Pt) (Kyushu Univ.) YAMAGUCHI, Toshiki; MASAOKA, Shigeyuki; SAKAI, Ken

## Monday, March 29, AM

Chair: NAGAO, Hirotaka (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4C2-01, 4C2-02, 4C2-03, 4C2-05)

**4C2-01** Photoinduced Hydrogen Generation Using Cyclometalated Dinuclear Platinum(II) Complexes as a Photosensitizer (Graduate School of Science, Hokkaido Univ.) AOKI, Rie; KOBAYASHI, Atsushi; CHANG, Ho-chol; KATO, Masako

**4C2-02** Stability toward dihydrogen of various Pt(II) complexes in aqueous media (Kyushu Univ.; JST PRESTO) YAMAUCHI, Kosei; MASAOKA, Shigeyuki; SAKAI, Ken

**4C2-03\*\*†** Photo-Hydrogen-Evolving Property of (Terpyridine)platinum(II) Derivatives Possessing Electron Acceptor Moiety (Dept. Chem. Kyushu Univ.) KOBAYASHI, Masayuki; MASAOKA, Shigeyuki; SAKAI, Ken

**4C2-05\*\*†** Unprecedented reactions of Fe and Ni complexes supported by tris(2-pyridylthio)methyl ligand (Osaka City Univ.) KUWAMURA, Naoto; KATO, Ryo; KITANO, Ken'ichi; HIROTSU, Masakazu; NISHIOKA, Takanori; HASHIMOTO, Hideki; KINOSHITA, Isamu

Chair: HIGUCHI, Masakazu (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4C2-08, 4C2-10, 4C2-12, 4C2-13)

**4C2-08\*** Reactivity for Dioxygen and Substrate Aerobic Oxidations of Nickel Complexes Having a Para-Substituted Thiophenolato Ligand (Kanagawa Univ.) NAKAZAWA, Jun; OGIWARA, Hiroyuki; KASIWAZAKI, Yusuke; HIKICHI, Shiro

**4C2-10\*** Formation of a Novel (Iminium Ion)ruthenium Complex and the Iminium Ion-Catalyzed Oxidation of Alcohols (Fac. Sci. Technol., Sophia Univ.) FUKUI, Sohei; WADA, Tohru; TANAKA, Koji; SUZUKI, Noriyuki; NAGAO, Hirotaka

**4C2-12** Improvement of photocatalytic ability of Ru(II) multinuclear complexes for selective reduction of CO<sub>2</sub> to formic acid. (Tokyo Tech., Science and Engineering) TAMAKI, Yusuke; KOIKE, Kazuhide; ISHITANI, Osamu

**4C2-13** Kinetic Studies on the Oxygen Evolution from Water Catalyzed by Mononuclear Ruthenium Complexes with Tridentate Ligands in a Facial Fashion (Kyushu Univ.; JST PRESTO) YOSHIDA, Masaki; MASAOKA,

Shigeyuki; SAKAI, Ken

Chair: HIKICHI, Shiro (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(4C2-15, 4C2-17, 4C2-18, 4C2-19, 4C2-20)

**4C2-15\*** Oxygen Evolution from Water Catalyzed by Mononuclear Ruthenium Complexes (Kyushu Univ.; JST PRESTO) MASAOKA, Shigeyuki; YOSHIDA, Masaki; KIYOTA, Josaku; KIMOTO, Ayano; YOKOYAMA, Junpei; YAMAUCHI, Kosei; SAKAI, Ken

**4C2-17** Electrocatalytic O<sub>2</sub>-evolving Properties of ITO Electrode Immobilized with [Ru(tpy)(bpy)OH<sub>2</sub>]<sup>2+</sup> Derivatives (Kyushu Univ.; JST PRESTO) KIYOTA, Josaku; YOKOYAMA, Junpei; MASAOKA, Shigeyuki; SAKAI, Ken

**4C2-18** Asymmetric hydride reduction of an NAD(P)<sup>+</sup> model compound using Ru(II) complexes with a chiral ligand as photocatalyst (Tokyo Tech.; SORST/JST) KOGA, Kichitaro; ISHITANI, Osamu

**4C2-19** Reactivity of a Ruthenium(IV)-Oxo Complex in Oxidation Reactions and Mechanistic Insights (Graduate School of Engineering, Osaka Univ.; SORST(JST)) NAKAYAMA, Kazuya; KOJIMA, Takahiko; FUKUZUMI, Shunichi

**4C2-20** Synthesis, structure, and oxygen-evolving activity of dinuclear ruthenium complexes with structurally flexible polypyridine dinucleating ligands (Doshisha Univ.; Biochemical and Chemical Biology Lab) IRIE, Hiroaki; SUGIYAMA, Ryoko; KODERA, Masahito; HITOMI, Yutaka; FUNABIKI, Takuzo

## Monday, March 29, PM

Chair: HITOMI, Yutaka (13 : 30~14 : 40)

\* 13:20-13:30: interval for laptop PC connection.(4C2-28, 4C2-29, 4C2-30, 4C2-31, 4C2-32, 4C2-33, 4C2-34)

**4C2-28** Ligand-substitution Reactions Induced by Reduction of trichloro (ethylbis(2-pyridylmethyl)amine)ruthenium(III) (Fac. Sci. Technol., Sophia Univ.) KAJIHARA, Akari; MATSUYA, Kazuhiro; FUKUI, Sohei; NAGAO, Hirotaka

**4C2-29** Kinetic Analysis on Water Oxidation Reaction Catalyzed by Mononuclear Ruthenium-Substituted Silicotungstate (Graduate School of Engineering, Osaka Univ.; SORST (JST)) MURAKAMI, Masato; FUKUZUMI, Shunichi

**4C2-30†** Development of Photo-Hydrogen-Evolving Molecular Devices by a inclusion complex (Kyushu Univ.) HIRAHARA, Masanari; MASAOKA, Shigeyuki; SAKAI, Ken

**4C2-31** Efficient Four-Electron Reduction of Dioxygen with Formic Acid Catalyzed by an Iridium-Ruthenium Dinuclear Complex in Water at Room Temperature (Graduate School of Engineering, Osaka Univ.; SORST(JST)) KOBAYASHI, Takeshi; FUENOBU, Tomoyoshi; FUKUZUMI, Shunichi

**4C2-32** Highly Efficient Fixation of Carbon Dioxide with Hydrogen Catalyzed by an Organoiridium Complex in Water under an Atmospheric Pressure at Room Temperature (Graduate School of Engineering, Osaka Univ.; SORST (JST)) MAENAKA, Yuta; HACK, Daniel; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi

**4C2-33** Water Oxidation Reaction Catalyzed by Organoiridium Mononuclear Complexes (Graduate School of Engineering, Osaka Univ.; SORST(JST)) HONG, Dachao; MURAKAMI, Masato; FUKUZUMI, Shunichi

**4C2-34** Mechanism of Photosensitized Hydrogen Evolution with Organometallic Iridium and Rhodium Complexes in Water (Graduate School of Engineering, Osaka Univ.; SORST(JST)) KOBAYASHI, Takeshi; MAENAKA, Yuta; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi

Chair: OYAMA, Dai (14 : 50~15 : 50)

\* 14:40-14:50: interval for laptop PC connection.(4C2-36, 4C2-37, 4C2-38, 4C2-39, 4C2-40, 4C2-41)

**4C2-36** O<sub>2</sub>-Reactivity of a Copper(II) Complex Containing Hydroquinone Moiety (Osaka Univ.) TABUCHI, Kae; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

**4C2-37** Synthesis, structure, and catalysis of multi-electron redox reaction of tetranuclear copper complex stabilized by a tetranucleating ligand ph<sup>2</sup>-OH<sub>1</sub>-dpmOH (Doshisha Univ.) NAKAGAWA, Tomoyuki; HITOMI, Yutaka; FUNABIKI, Takuzo; KODERA, Masahito

**4C2-38** Kinetic resolution of styrene oxide by using homochiral porous metal-organic complex as solid catalyst (Kansai Univ.) OTANI, Kenichi; TANAKA, Koichi

**4C2-39** Reactivity of Copper(II) and Nickel(II)-Alkylperoxo Complexes. (Osaka Univ.; Univ. of Hyogo) TANOU, Tetsuro; KUNISHITA, Atsushi; KUBO, Minoru; OGURA, Takashi; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu

**4C2-40** Aldehyde addition of organozinc reagents within a porous coordination network (School of Engineering, The Univ. of Tokyo; CREST, JST) IKEMOTO, Koki; INOKUMA, Yasuhide; FUJITA, Makoto

**4C2-41** Cis-trans photoisomerization of stilbenes within a porous coordination network (School of Engineering, The Univ. of Tokyo; CREST, JST) OHARA, Kazuaki; INOKUMA, Yasuhide; FUJITA, Makoto

Chair: SAKAI, Ken (16 : 00~17 : 00)

\* 15:50-16:00: interval for laptop PC connection.(4C2-43, 4C2-44, 4C2-45,

4C2-46, 4C2-47, 4C2-48)

- 4C2-43** Regio and stereoselective cycloaddition reactions within a porous coordination network (School of Engineering, The Univ. of Tokyo; CREST, JST) OHARA, Kazuaki; KAWAMICHI, Takehide; INOKUMA, Yasuhide; FUJITA, Makoto; KAWANO, Masaki
- 4C2-44** Synthesis of  $\eta^2$ -Ru-porphyrin- $\pi$  complexes (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) YAMAGUCHI, Shigeru; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko
- 4C2-45** Redox Behavior of a Carbon Electrode Modified with (terpyridine) (bipyridine)ruthenium (IMS; The Graduate Univ. for Advanced Studies) TSUKAHARA, Yuhei; WADA, Tohru; TANAKA, Koji
- 4C2-46** Synthesis and Functional Property of New Mixed-Metal Trinuclear Cluster Complexes Modified with Ferrocenyl Carboxylates (Kyushu Univ.) IKEGAMI, Atsushi; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 4C2-47** The synthesis and property of new discrete assemblies consisting of triruthenium cluster and pyridyl porphyrin (Kyushu Univ.) TANIGUCHI, Naoki; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 4C2-48** Construction of metal complexes with a quinone-hydroquinonesystem: Comparison of their structures and redox properties (Fukushima Univ.) KIDO, Masato; TAKASE, Tsugiko; OYAMA, Dai

## Room C3

Bldg.21 536

### Colloid and Interface Chemistry

Friday, March 26, PM

Chair: SUGAWARA, Ayae (13:00~14:00)

- \* 12:50-13:00: interval for laptop PC connection.(1C3-25, 1C3-26, 1C3-27, 1C3-28, 1C3-29, 1C3-30)
- 1C3-25** Preparation of colloidal mesostructured silsesquioxane nanoparticles (Faculty of Science and Engineering, Waseda Univ.) URATA, Chihiro; YAMADA, Hironori; AOYAMA, Yuko; WAKABAYASHI, Ryutarō; YAMAUCHI, Yusuke; KURODA, Kazuyuki
- 1C3-26** Solubility behavior of colloidal mesoporous silica nanoparticles in aqueous systems (Faculty of Science and Engineering, Waseda Univ.) YAMADA, Hironori; AOYAMA, Yuko; URATA, Chihiro; KURODA, Kazuyuki
- 1C3-27** Synthesis of silica particles grafted pH-responsive polymer (Univ. of Hyogo Graduate School of Engineering) INOUE, Masamichi; YUSA, Shin-ichi; MORISHIMA, Yotaro; NAKAMURA, Yoshinobu; FUJII, Syuji
- 1C3-28** Preparation of inorganic particles in an ionic liquid (Department of Chemical Science and Engineering, Graduate School of Kobe Univ.) MINAMI, Hideto; KINOSHITA, Keigo; TARUTANI, Yasunori; OKUBO, Masayoshi
- 1C3-29** Preparation of Titania Nanocapsules with Medusa Long-chain Alcohol (Faculty of Sci. and Tech., Tokyo Univ. of Sci.) KOIDE, Keita; TORIGOE, Kanjiro; SAKAI, Kenichi; SAKAI, Hideki; ABE, Masahiko
- 1C3-30** Fabrication of Tin Oxide Nanoparticle by the Liquid Phase Deposition Method Using Polymer Solution (Kobe Univ.) MIZUHATA, Minoru; UMEKAGE, Yuki; KUMARESAN, Ramanujam

Chair: MINAMI, Hideto (14:10~15:10)

- \* 14:00-14:10: interval for laptop PC connection.(1C3-32, 1C3-34, 1C3-36)
- 1C3-32\*** Preparation of One-Dimensionally Self-Assembled Silica Nanospheres Using Amphiphilic Polymers (The Univ. of Tokyo) SAKAMOTO, Takeshi; FUKAO, Masashi; SUGAWARA, Ayae; SHIMOJIMA, Atsushi; OKUBO, Tatsuya
- 1C3-34\*** Preparation and characterization of Al-doped ZnO nanoparticulate film (Jpn. Adv. Inst. Sci. Tec.) TRAN, Thu, Viet; MAENOSONO, Shinya
- 1C3-36\*** Self-organized Electron Conducting Networks Composed of Nanominerals and Live Microbes (The Univ. of Tokyo) NAKAMURA, Ryuhei; HASHIMOTO, Kazuhito

Chair: KURODA, Kazuyuki (15:20~16:20)

- \* 15:10-15:20: interval for laptop PC connection.(1C3-39, 1C3-41, 1C3-42, 1C3-43)
- 1C3-39\*** Structural control of nanocrystals of cobalt oxides and catalytic properties (The Univ. of Tokyo) MUKAE, Yusuke; YANG, Jinhui; SASAKI, Takehiko
- 1C3-41** Preparation and Characterization of Hydroxypatite-Coated Europium Hydroxide Nanorods (Tokyo Univ. of Science) SUZUKI, Tomohiko; HASHIZUME, Mineo
- 1C3-42** Control of Mineralization by Synthetic Peptides in Simulated Body Fluids (Tokyo Univ. of Science; Keio Univ.) UCHIDA, Yuki; HASHIZUME, Mineo; MATSUBARA, Teruhiko; SATO, Toshinori
- 1C3-43\*** Effects of Pyrophosphate Ions on the Protein Adsorption onto Calcium Hydroxypatite (Osaka Kyoiku Univ.) KANDORI, Kazuhiko; ODA, Shohei; TSUYAMA, Shintaro

Chair: MAENOSONO, Shinya (16:30~17:30)

- \* 16:20-16:30: interval for laptop PC connection.(1C3-46, 1C3-48, 1C3-49, 1C3-50)
- 1C3-46\*** Synthesis of Calcium-Strontium Hydroxypatite by Hydrolyzing the Phenyl Phosphates (Faculty of Sci. and Eng., Shimane Univ.) TANAKA, Hidekazu; NISHIMOTO, Suguru
- 1C3-48** Nanoparticle Assemblies Prepared Using Surface Molecular Macromolecules (IMRAM, Tohoku Univ.) KAJIWARA, Takeshi; SHINZAWA, Tatsuro; MIZUKAMI, Masashi; KURIHARA, Kazuo
- 1C3-49** Nanoassembly and luminescence properties of glutamatederivatives having 6-carboxypyridine groups with lanthanide ions (Grad. Sch. Eng., Kyushu Univ.; JST CREST) MATSUSHITA, Yoshihiro; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo
- 1C3-50\*** Two-dimensional Lattice-like Structure Formation of Cubic Hematite Particles Based on the Self-Assembly (Faculty of System Science and Technology, Akita Pref. Univ.) AOSHIMA, Masayuki; SATOH, Akira; OZAKI, Masataka

Chair: TANAKA, Hidekazu (17:40~18:20)

- \* 17:30-17:40: interval for laptop PC connection.(1C3-53, 1C3-54, 1C3-55, 1C3-56)
- 1C3-53** Migration of nano-particles and nano-molecules driven by laser-induced shock wave (Grad. School of Eng. and Design, Kyoto Inst. of Technol.) ICHINOSE, Nobuyuki; NAKAMURA, Shinpei; NAGAHARA, Tetsuhiko
- 1C3-54** Diffusion coefficient of nanoparticles under flow conditions in a microcapillary (Chuo Univ., Department of Applied Chemistry) OGATA, Hiroki; NOMURA, Hiroko; EITOKU, Takeshi; KATAYAMA, Kenji
- 1C3-55** Assembly of gold nanoparticles in lysozyme crystal (Genesis Research Institute, Inc; the Univ. of Tokyo; Toyota Technological Institute) TAKEDA, Yoshihiro; MAFUNE, Fumitaka; KONDOW, Tamotsu
- 1C3-56** Ring-shaped Gold Nanoparticle Array Using a Solvent-Evaporation-Induced Self-Assembling (Nagoya Univ.) OKADA, Masaya; OKAZAKI, Ken-ichi; SUZUKI, Shushi; TORIMOTO, Tsukasa

### Saturday, March 27, AM

Chair: AKAMATSU, Kensuke (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2C3-01, 2C3-02, 2C3-03, 2C3-04, 2C3-05)
- 2C3-01** Self-assembling formation of super-structure composed of cube-shaped EuS nanocrystals in solution phase (Graduate School of Materials Science, Nara Institute of Science and Technology) TANAKA, Atsushi; HASEGAWA, Yasuchika; KAWAI, Tsuyoshi
- 2C3-02** Nanowire Formation from Binary Cadmium Chalcogenide Nanorods (Nara Inst. Sci. Tech.) NONOGUCHI, Yoshiyuki; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2C3-03** Synthesis of Mn Ion Doped CdS Nanoparticles and their Magnetic Properties (IMRAM, Tohoku Univ.) TANAKA, Itaru; NAKAYA, Masafumi; MURAMATSU, Atsushi
- 2C3-04** Sol-Gel Fabrication and Morphology-/Color-Tunability of Bright Fibers Incorporating CdTe Nanocrystals (Photonics Res. Inst., AIST) YANG, Ping; ANDO, Masanori; MURASE, Norio
- 2C3-05\*** Structural Transformation of Cd Chalcogenide Nanoparticles Using Chloride Anions and Surfactants (Univ. of Tsukuba) SARUYAMA, Masaki; KANEHARA, Masayuki; TERANISHI, Toshiharu

Chair: TERANISHI, Toshiharu (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(2C3-08, 2C3-10, 2C3-12)
- 2C3-08\*** Sensitive Detection of 2,4,6-trinitrotoluene by Ratiometric Sensing Based on Energy Transfer between Size-Different Quantum Dots (ISIT, Nanotech. Lab.) SHIRAKI, Tomohiro; TSUCHIYA, Youichi; SHINKAI, Seiji
- 2C3-10\*** Preparation of Chitosan Nanoparticles by Electrospray Deposition (National Institute for Materials Science) ZHANG, Shaoling; KAWAKAMI, Kohsaku
- 2C3-12\*** Preparation of dual-stimuli responsive Janus particles by site-selective surface-initiated atom transfer radical polymerization in aqueous dispersed system (Department of Chemical Science and Engineering, Graduate School of Engineering, Kobe Univ.) TANAKA, Takuya; OKAYAMA, Masaru; KITAYAMA, Yukiya; KAGAWA, Yasuyuki; OKUBO, Masayoshi

Chair: MURAMATSU, Atsushi (11:20~12:10)

- \* 11:10-11:20: interval for laptop PC connection.(2C3-15, 2C3-16, 2C3-18)
- 2C3-15** Size Control of Monodisperse Octahedral Gold Nanoparticles (Univ. of Tsukuba) KOBORI, Hiromu; EGUCHI, Miharū; KANEHARA, Masayuki; TERANISHI, Toshiharu
- 2C3-16\*** Direct Observation of Surface Plasmon Coupling Modes in Gold Nanoparticle Dimers (Univ. of Tsukuba; National Tsing Hua Univ.) EGUCHI, Miharū; KOBORI, Hiromu; KUBO, Atsushi; GWO, Shangir; TERANISHI, Toshiharu
- 2C3-18\*** Fabrication of Au nanoparticles/porous coordination polymer heterostructured composites (FIRST, Konan Univ.) TSURUOKA, Takaaki; KAWASAKI, Hiroko; NAWAFUNE, Hidemi; AKAMATSU, Kensuke

Saturday, March 27, PM

Chair: TAKAHASHI, Masaki (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(2C3-27, 2C3-28, 2C3-29, 2C3-30, 2C3-31, 2C3-32)
- 2C3-27** Fabrication of Platinum Nanoparticles That Are Immobilized in Microporous Polymers. (Kawamura Institute of Chemical Research) OGASAWARA, Shin; KATO, Shinji
- 2C3-28** Size separation of Ag triangular nanoplates produced by photoirradiation (Chuo Univ.) SAWADA, Tomoaki; HASHIMOTO, Naomi; MURAYAMA, Haruno; TANAKA, Hideki
- 2C3-29** Ag triangular nanoplates as catalysts in olefin partial oxidation (Chuo Univ.) MURAYAMA, Haruno; SAWADA, Tomoaki; MUKAIDA, Atsushi; TANAKA, Hideki
- 2C3-30** Size controlled synthesis and nano structure of FeCo particles using metal coordination as precursor (Tokyo Univ. of Agriculture and Technology) TAKAHASHI, Koha; YAMADA, Mami
- 2C3-31** Synthesis of Alloy Metal Nanoparticles and Conversion Reaction using Reductive Calcination of Metal Coordination Nano-Polymers (Tokyo Univ. of Agriculture and Technology) FUJII, Takuro; YAMADA, Mami
- 2C3-32** Formation of Magnetic Nanoparticle Films Using Gas Plasma Irradiation to Metal Coordination Nano-polymers-Their Magnetic Properties with Elemental and Structural Control (Tokyo Univ. of Agriculture and Technology) WATANABE, Shiro; YAMADA, Mami

Chair: YAMADA, Mami (14 : 30~14 : 50)

- \* 14:20-14:30: interval for laptop PC connection.(2C3-34, 2C3-35)
- 2C3-34** Size control of C<sub>60</sub> nanofiber produced in mixed solution (Chuo Univ.) OGAKI, Shohei; MURAYAMA, Haruno; TANAKA, Hideki
- 2C3-35** Spontaneous Formation of Dye/Gold Hybrid Nanocomposites within the Reverse Micellar System (Shizuoka Univ.) TAKAHASHI, Masaki; OHNO, Shuhei; SENGOKU, Tetsuya; YODA, Hidemi

Sunday, March 28, AM

Chair: SHISHIDO, Tetsuya (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3C3-01, 3C3-02, 3C3-03, 3C3-04, 3C3-05, 3C3-06)
- 3C3-01** Reactivity of inorganic surface of organic-modified gold nanoclusters (Faculty of Environmental Earth Science, Hokkaido Univ.; JST CREST) SUZUKI, Kai; MURAKAMI, Yoshitaka; KONISHI, Katsuaki
- 3C3-02** Synthesis of Luminescent Silicon Clusters via Hydride Reduction (Faculty of Environmental Earth Science, Hokkaido Univ.) MATSUMURA, Hikaru; KONISHI, Katsuaki
- 3C3-03** Controlled synthesis of subnano Pd clusters by fine tuning of the internal void space of polyamine dendrimers (Osaka Univ.) KIBATA, Takayuki; MAENO, Zen; MINAMI, Shigekazu; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3C3-04** Surfactant free synthesis of subnanometer fluorescent platinum clusters in solution (Kansai Univ.) KAWASAKI, Hideya; YAMAMOTO, Hiroko; FUJIMORI, Hiroki; ARAKAWA, Ryuichi
- 3C3-05** Synthesis and Property of Ag Nanoclusters Modified by Ionic Liquid (Faculty of Science and Engineering, Kinki Univ.) YASUDA, Yasuhiro; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 3C3-06** Synthesis and Property of Chiral Phosphine Cavitand-modified Metal Nanoclusters (Faculty of Science and Engineering, Kinki Univ.) NISHIMURA, Ryo; SAWAI, Koji; YAMADA, Syota; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

Chair: KAWASAKI, Hideya (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3C3-08, 3C3-09, 3C3-10, 3C3-11, 3C3-12)
- 3C3-08** Precise Synthesis and Stability of Thiolate-Protected Pd<sub>1</sub>@Au<sub>24</sub> Core-Shell Clusters (Tokyo Univ. of Science, Institute for Molecular Science) KURASHIGE, Wataru; IWASA, Takeshi; NOBUSADA, Katsuyuki; NEGISHI, Yuichi
- 3C3-09** Synthesis of Small Gold Nanoparticles Protected by Thiolated Porphyrins. (Univ. of Tsukuba; JST-CREST) TANAKA, Daisuke; KANEHARA, Masayuki; TERANISHI, Toshiharu
- 3C3-10** Synthesis and Characterization of ZnS/Au Heterostructured Nanoparticles (Univ. of Tsukuba) ONIGATA, Naoko; KANEHARA, Masayuki; TERANISHI, Toshiharu
- 3C3-11** Synthesis and Characterization of Phthalocyanine-protected Au Nanoparticles (Univ. of Tsukuba; JST-CREST) SEKINE, Hikaru; KANEHARA, Masayuki; TERANISHI, Toshiharu
- 3C3-12\*** Remarkable Photoluminescence Enhancement of ZnS-AgIn<sub>2</sub>S<sub>2</sub> Solid Solution Nanoparticles by Controlling Their Chemical Composition (Nagoya Univ.) TORIMOTO, Tsukasa; OGAWA, Shoji; ADACHI, Tomohiro; OKAZAKI, Ken-ichi; KUDO, Akihiko; KUWABATA, Susumu

Chair: TORIMOTO, Tsukasa (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3C3-15, 3C3-17, 3C3-19)
- 3C3-15\*** In-situ observation of formation of gold nanoparticles passivated by thiol (Grad. Sch. Eng., Kyoto Univ.) OHYAMA, Junya; HIGUCHI,

Yasuhiro; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

- 3C3-17\*** In-situ XAFS Observation Method on the Formation Mechanism of Cu Nanoparticles Using Poly(N-vinyl-2-pyrrolidone) as a Capping Agent (Japan Adv. Inst. of Sci. Techn.; Sch. of Mater. Sci.) NISHIMURA, Shun; TAKAGAKI, Atsushi; MAENOSONO, Shinya; EBITANI, Kohki
- 3C3-19\*** Novel growth mechanism of Au single nanowires (Tohoku Univ.) KURA, Hiroaki; OGAWA, Tomoyuki

Asian International Symposium  
-Colloid and Surface Chemistry

Sunday, March 28, PM

Chair: MATSUOKA, Hideki (13 : 30~14 : 20)

- 3C3-28# Keynote Lecture** In situ characterization of bio-mimetic thin films using by X-ray and Neutron Reflectivity at Air/water Interface (Sogang Univ., Korea) SHIN, Kwanwoo (13:30~14:00)
- 3C3-31# Invited Lecture** Organic Nanotubes with a Magnetic Bilayer Structure (The Univ. of Tokyo & JST ERATO-SORST) PRAVEEN, Vakayil K. (14:00~14:20)

Chair: KAKEHASHI, Rie (14 : 20~15 : 00)

- 3C3-33# Invited Lecture** Preparation and structural control of the macrocyclic compound/LDH nanocomposites (Beijing Normal Univ., China) MA, Shulan (14:20~14:40)
- 3C3-35# Invited Lecture** Double layer structure in ionic liquids studied by electrochemistry and spectroscopy (Kyoto Univ.) NISHI, Naoya (14:40~15:00)

Chair: IIMURA, Kenichi (15 : 00~15 : 40)

- 3C3-37# Invited Lecture** Wormlike micelles in Amino-Acid Based Surfactant: Effects of the Neutralizing Agents and Cosurfactants on the Rheology (Tokyo Univ. of Sci.) SHRESTHA, Rekha Goswami (15:00~15:20)
- 3C3-39# Invited Lecture** Ring-Opening Metathesis Polymerization-based Synthesis of Polymeric Dye-Containing Self Assemblies for Tumor Imaging (Kyoto Univ.) MIKI, Koji (15:20~15:40)

Chair: KANO, Hirofumi (15 : 50~16 : 40)

- 3C3-42# Keynote Lecture** Colloidal quantum dots: Optimization of optical properties for visualizing cells and biomolecules (AIST) BIJU, Vasudevan P. (15:50~16:20)
- 3C3-45# Invited Lecture** Surface Property and X-ray Reflectivity Evaluation of Methylcellulose Thin Film Structure: Effect of Swelling and Thermal Stress (Tsukuba Univ.) SAMSON, Vallerie Ann Innis (16:20~16:40)

Chair: TAKEI, Takashi (16 : 40~17 : 40)

- 3C3-47# Invited Lecture** Ultrathin Free-Standing Protein Films for Water Purification (NIMS) OPENG, Xincheng; ICHINOSE, Izumi (16:40~17:00)
- 3C3-49# Invited Lecture** Effects of pH and ionic strength on phase separation behavior of protein stabilized emulsions observed by centrifugal experiment (Kagawa Univ.) CHEETANGDEE, Nopparat (17:00~17:20)
- 3C3-51# Invited Lecture** Mechanism of hemagglutination with antibody-hydrodynamic behavior and interaction of red blood cells- (Hokkaido Univ. & Nancy Univ., CNRS, & Tokyo Univ. of Sci., & Japanese Red Cross) OHYONO, Atsushi; DUVAL, Jrme F.L.; OHSHIMA, Hiroyuki; MAZDA, Toshio; YONEZAWA, Tetsu (17:20~17:40)

Colloid and Interface Chemistry

Monday, March 29, AM

Chair: HARADA, Masafumi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4C3-01, 4C3-03, 4C3-05)
- 4C3-01\*** Reversible phase transfer and fractionation by difference of crystal facet of nano-materials (Tokyo Univ. of Science) IMURA, Yoshiro; MORITA, Clara; KAWAI, Takeshi
- 4C3-03\*** Microwave assisted silver nanoparticles synthesis for continuous production (AIST) NISHIOKA, Masateru; KASAI, Makoto; NOGUCHI, Takio; MIYAKAWA, Masato; DAINO, Youhei; SUZUKI, Toshishige; KATAOKA, Haruki; KODA, Hidekazu
- 4C3-05\*** Preparation of Pt Nano-cubes Protected with Succinic Acid and Deposition of Ag Species at Specific Positions (JAIST) HIGASHIMOTO, Mami; MIYABAYASHI, Keiko; MIYAKE, Mikio

Chair: KAWAI, Takeshi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4C3-08, 4C3-09, 4C3-10, 4C3-12)
- 4C3-08** Facile synthesis of water-dispersible or oil-dispersible gold nanoparticles using multifunctional polymers (Shinshu Univ.) SAKAI, Toshio; ISHIGAKI, Mai; OKADA, Tomohiko; MISHIMA, Shoji
- 4C3-09** Preparation of Gold Nanoplates Using an Amphiphilic Polythiophene (Tokyo Metropolitan Univ.) MINAMI, Tsuyoshi; NISHIYABU, Ryuhei; KUBO, Yuji

**4C3-10\*** Synthesis of Silver Particles in Binary System of Surfactant/Ionic Liquids (Nara Women's Univ.; Kyoto Univ.) HARADA, Masafumi; SOU, Sou; KIMURA, Yoshifumi; SAJO, Kenji

**4C3-12\*** Formation of metal nanoparticles in an ionic liquid by low energy electron beam irradiation (Osaka Univ., JST/CREST) IMANISHI, Akihito; GONSUI, Shinobu; KUWABATA, Susumu; FUKUI, Ken-ichi

Chair: SAKAI, Toshio (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4C3-15, 4C3-16, 4C3-17, 4C3-19, 4C3-20)

**4C3-15** Shape-control of Silver Nanoplates by the Following-addition of Ag ions Coupled with Photo Irradiation and Its Optical Properties (Kansai Univ.) INUTA, Masayuki; KAWASAKI, Hideya; ARAKAWA, Ryuichi

**4C3-16** Necessary conditions for gold nanoparticle formation by photoreduction using time-resolved spectroscopy (Dept. of Appl. Chem., Chuo Univ.) KATAYAMA, Kenji; ONO, Shunichi; TANIGUCHI, Kazuya; NAKAZATO, Yuta; EITOKU, Takeshi

**4C3-17\*** Closely Adjacent Ag nanoparticles formed by Cationic Dye to Yield Enormous SERS Activity (Dept. Chem., Fac. Sci., Saitama Univ.) FUTAMATA, Masayuki; YU, Eiei; YANATORI, Tomomi; KOKUBUN, Takeshi

**4C3-19** Photoelectrochemical properties of electrostatic composite films consisting of silver nanoparticles and polyions (Grad. Sch. Eng., Kyushu Univ.) MUNAOKA, Takatoshi; ARAKAWA, Taichi; YOU, Jing; AKIYAMA, Tsuyoshi; YAMADA, Sunao

**4C3-20** Fabrication of free-standing gold nanoparticle-polymer composite films (Fac. Eng., Kyushu Univ.) YOSHIDA, Kazuhiro; AKIYAMA, Tsuyoshi; YAMADA, Sunao

### Monday, March 29, PM

Chair: YAMADA, Sunao (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(4C3-28, 4C3-29, 4C3-30, 4C3-31, 4C3-32, 4C3-33)

**4C3-28** In situ observation of laser induced growth of a single gold nanorod in solutions (Institute of Science and Technology, The Univ. of Tokushima) SHIRAIISHI, Ryoya; TAKAGI, Daisuke; HASHIMOTO, Syuichi

**4C3-29** Hydrogen storage property of metal nanoparticles assembled with three-dimensional structures. (Department of Chemistry, School of Science, The Univ. of Tokyo) YAMAMOTO, Yuki; YAMANOI, Yoshinori; NISHIHARA, Hiroshi; MINODA, Ai; OSHIMA, Shinji; KOBORI, Yoshihiro

**4C3-30** Phase and Magnetic Transition Accompanying with Hydrogen Absorption Process of Hcp-Ni Nanoparticles (Kyushu Univ.) HOSOI, Kohei; KITAGAWA, Hiroshi; INAGAKI, Yuji; KUBOTA, Yoshiki; YOSHIDA, Makoto; TAKIGAWA, Masashi

**4C3-31** Synthesis and Hydrogen-storage properties of Solid-solution Type of AgRh Nanoparticles (Fac. Sci., Kyushu Univ.) KUSADA, Kohei; KITAGAWA, Hiroshi; KUBOTA, Yoshiki

**4C3-32** Structure control of AuCu bimetallic alloy nanoparticles and by hydrogen exposure (CRC, Hokkaido Univ.) OHKUBO, Kazuya; YAMAUCHI, Miho; KATO, Kenichi; TAKATA, Masaki; TSUKUDA, Tatsuya

**4C3-33** Effect of reversible dispersion-coagulation of Ag NPs on SERS intensity (Tokyo Univ. of Science) IKENOYA, Nobuhiko; KUME, Masakazu; ISHISONE, Takahiro; KAWAI, Takeshi

Chair: HASHIMOTO, Shuichi (14:40~15:10)

\* 14:30-14:40: interval for laptop PC connection.(4C3-35, 4C3-36, 4C3-37)

**4C3-35** Synthesis of Ag@Au core-shell nanoparticles and their surface-enhanced Raman scattering activity (Jpn. Adv. Inst. Sci. Tec.) AOKI, Yoshiya; NGUYEN, Thuy, Thi Bich; MOTT, Derrick, Michael; MAENOSONO, Shinya

**4C3-36** Anion Sensing Based on Gold Nanoparticles Modified Chemically with Urea Derivative (Faculty of Systems Engineering, Wakayama Univ.) FURUI, Ayumi; KADO, Shinpei; NAKAHARA, Yoshio; TANAKA, Mutsuo; KIMURA, Keiichi

**4C3-37** Colorimetric Assay based on the aggregation of gold nanoparticles (Kochi Univ.) YOSHIDA, Kazuma; WATANABE, Shigeru

## Room C4

Bldg.21 539

### Inorganic Chemistry

#### Friday, March 26, AM

Chair: TADANAGA, Kiyoharu (10:00~11:00)

\* 9:50-10:00: interval for laptop PC connection.(1C4-07, 1C4-08, 1C4-10, 1C4-11, 1C4-12)

**1C4-07** Preparation of Tungstate-Based Inorganic-Organic Hybrid Nano-

plates with a Peroxotungstate Precursor (School of Engineering, The Univ. of Tokyo; CREST, JST) NOJIMA, Susumu; KAMATA, Keigo; UCHIDA, Sayaka; UEHARA, Kazuhiro; MIZUNO, Noritaka

**1C4-08\***† Syntheses of decaniobate-supported organorhodium complex and isopolytantalate soluble in organic solvent (Kwansei Gakuin Univ.; Univ. of Hyogo) MATSUMOTO, Miki; YAGASAKI, Atsushi; OZAWA, Yoshiki

**1C4-10** Synthesis and structure of hybrid layered crystal composed of hexamolybdate and hexadecyltrimethylammonium (School of Science, Tokai Univ.; Chemical Resources Lab., Tokyo Inst. Tech.) ITO, Takeru; YAMASE, Toshihiro

**1C4-11** The electric conducting property of three-lacunary Keggin,  $\alpha$ -A  $\text{Na}_3\text{H}_6[\text{PMo}_9\text{O}_{34}]\cdot 13\text{H}_2\text{O}$  (Dept. Appl. Chem., Coll. Eng., Chubu Univ.) ISHIKAWA, Eri; HAYASHI, Yuji; IMAEDA, Kenichi; WATANABE, Makoto

**1C4-12** Synthesis and crystal structure of the sandwich-type polyoxometalate containing lanthanide center with a cubic 8-coordination geometry. (Chemical Resources Lab., Tokyo Tech.) IJIMA, Jun; NARUKE, Haruo

Chair: ITO, Takeru (11:10~12:10)

\* 11:00-11:10: interval for laptop PC connection.(1C4-14, 1C4-15, 1C4-16, 1C4-17, 1C4-18, 1C4-19)

**1C4-14** Synthesis and characterization of a Dawson-type zirconocene-containing polyoxometalate (Fac. Sci., Shizuoka Univ.) MASUDA, Kiyoto; KATO, Chika

**1C4-15** Synthesis and characterization of a Dawson-type mono-aluminum (III)-substituted polyoxometalate (Fac. Sci., Shizuoka Univ.) NAKAGAWA, Miyuki; KATO, Chika

**1C4-16** Synthesis of swellable Na-taeniolite mica ( $\text{NaMg}_2\text{LiSi}_4\text{O}_{10}\text{F}_2$ ) crystals using sodium chloride as a flux. (Shinshu Univ.) IKUTA, Kazuya; YAMAGUCHI, Tomohiro; TARUTA, Seiichi; KITAJIMA, Kunio

**1C4-17** Preparation of thin films of Zn-Al layered double hydroxide intercalated with pyranine via sol-gel process with hot water treatment (Osaka Pref. Univ.) TADANAGA, Kiyoharu; SUEZAWA, Ryoya; TATSUMISAGO, Masahiro

**1C4-18** Structural transformation of metal oxide frameworks under hydrothermal conditions (Grad. Sch. Sci., Kobe Univ.) EDA, Kazuo; OHSHIRO, Yu; SUGITANI, Takamitsu

**1C4-19** Hydrothermal Synthesis and Properties of Iron(III) Phosphates (Hiroshima Univ.) HADANO, Masao; AKITA, Motoko; INOUE, Katsuya

### Friday, March 26, PM

Chair: KAGEYAMA, Hiroshi (14:30~15:30)

\* 14:20-14:30: interval for laptop PC connection.(1C4-34, 1C4-35, 1C4-37, 1C4-38)

**1C4-34** Syntheses and alkaline ion conductivities of Anderson-type polyoxometalates with layer-like structures (Chemical Resources Lab, Tokyo Tech.) KAJITANI, Naoyuki; NARUKE, Haruo

**1C4-35\*** Single-Crystalline Infinite-Layer Structure Transition-Metal Oxide Thin Films by Low-Temperature Reduction (ICR, Kyoto Univ.) SHIMAKAWA, Yuichi; INOUE, Satoru; KAWAI, Masanori; MATSUMOTO, Kazuya; SAKAIGUCHI, Aya; ICHIKAWA, Noriya

**1C4-37** Control of the structural transition of antiferromagnetic CrN epitaxial thin films synthesized by using MBE (Grad. Sch. Eng., Hiroshima Univ.) IZUMI, Satoshi; INUMARU, Kei; YAMANAKA, Shoji

**1C4-38\*** Novel A-site-ordered Perovskites with Wide Variety of Physical Properties (Inst. Chem. Res., Kyoto Univ.) SAITO, Takashi; LONG, Youwen; TOHYAMA, Takenori; SHIMAKAWA, Yuichi

Chair: NARUKE, Haruo (15:40~16:40)

\* 15:30-15:40: interval for laptop PC connection.(1C4-41, 1C4-42, 1C4-43, 1C4-44, 1C4-45, 1C4-46)

**1C4-41** High pressure synthesis and physical properties of Hollandite-type transition metal oxides. (The Univ. of Tokyo) ISOBE, Masahiko; HASEGAWA, Kunihiko; YAMAUCHI, Toru; UEDA, Hiroaki; GOTOU, Hirota; YAGI, Takehiko; UEDA, Yutaka

**1C4-42** High-pressure synthesis and the structure of a new ternary compound in the system Ca-Al-Si (Grad. Sch. Eng., Hiroshima Univ.) TANAKA, Yuki; YASUDA, Akira; YAMANAKA, Shoji

**1C4-43** High-pressure synthesis of sodium containing silicic clathrate compounds (Grad. Sch. Eng., Hiroshima Univ.) YAMANAKA, Shoji; KOMATSU, Masaya

**1C4-44** Synthesis and metal-insulator transition of the perovskite-type osmium oxide  $\text{NaOsO}_3$  (NIMS, Chin. Acad. Sci.) SHI, Youguo; GUO, Yanfeng; YU, Shan; ARAI, Masao; BELIK, Alexei; SATO, Akira; YAMAURA, Kazunari; MUROMACHI, Eiji

**1C4-45\*** Preparation and Superconductivity of Stage Intercalation Compounds in  $\text{K}_2\text{ZrNCl}$  (Hiroshima Univ.) ZHENG, Zhanfeng; YAMANAKA, Shoji

**1C4-46** Superconductivity of  $\text{TiNCl}$  Intercalation Compounds with Alkylamines and Alkyldiamines (Hiroshima Univ.) UMEMOTO, Keita; YAMANAKA, Shoji

Chair: INUMARU, Kei (16:50~17:50)

\* 16:40-16:50: interval for laptop PC connection.(1C4-48, 1C4-49, 1C4-50, 1C4-51, 1C4-52, 1C4-53)

- 1C4-48** Monte Carlo Simulation on Molecular Adsorption in Porous Materials. Pore-Shape Dependence (Grad. School Sci. Tech., Kumamoto Univ.) IDE, Makoto; SUGIMOTO, Manabu
- 1C4-49** Acidic Sites Detected on SiMCM-41: Reaction with Ammonia (Okayama Univ.; Kyoto Institute of Tech.; Tokyo Institute of Tech.) ITADANI, Atsushi; MORI, Toshinori; OHKUBO, Takahiro; KOBAYASHI, Hisayoshi; IWAMOTO, Masakazu; KURODA, Yasushige
- 1C4-50** Synthesis and Dehydration Behavior of  $(\text{Na}, \text{K}, \text{H})_4\text{Ti}_4\text{Si}_3\text{O}_{16} \cdot y\text{H}_2\text{O}$ -Alkali Metal Composition Dependence (Yamaguchi Univ.) FUJIWARA, Keiko; SUGIMOTO, Hirokazu; NAKATSUKA, Akihiko; NAKAYAMA, Noriaki; FUJIMORI, Hirota; NIKOROVA, Rositsa Petrova; KOSTOV-KYTIN, Vladislav Vladimirov
- 1C4-51** Synthesis and Redox Property of Ruthenium substituted Polyoxometalate with a Pyridine Ligand (Hiroshima Univ.) MOROI, Sachie; IIMURO, Yoshifumi; UEDA, Wataru; SADAKANE, Masahiro; OUMI, Yasunori; SANO, Tsuneji
- 1C4-52** Stacking of Nickel and Cobalt Hydroxide Nanosheets (The Univ. of Tokushima) TAKETA, Yuuji; KUJIME, Hirohumi; EGUCHI, Akio; KURASHINA, Masashi; KANEZAKI, Eiji
- 1C4-53** thermal behavior of hydrogen phosphate intercalated Mg/Al-layered double hydroxides (The Univ. of Auckland, Chemistry Department.) SHIMAMUARA, Akihiro; MARK, Jones; METSON, James

### Saturday, March 27, AM

Chair: FUKUDA, Katusoshi (10:00~11:00)

- \* 9:50-10:00: interval for laptop PC connection.(2C4-07, 2C4-08, 2C4-09, 2C4-10, 2C4-11)
- 2C4-07** Thermal change of the emission intensity from  $\text{Eu}^{3+}$  at interlayer of Mg/Al layered double hydroxide (The Univ. of Tokushima) FUNAKOSHI, Toshihiro; KURASHINA, Masashi; KANEZAKI, Eiji
- 2C4-08** Synthesis of metal-1,3,5-benzenetriphosphonate (Tokyo Univ. A&T) TAKEDA, Rie; KAWAWA, Kanako; KONDO, Atsushi; MAEDA, Kazuyuki
- 2C4-09** Ordered Silylation of Layered Silicate RUB-51 (Faculty of Science and Engineering, Waseda Univ.; Kagami Memorial Institute for Materials Science and Technology, Waseda Univ.) ASAKURA, Yusuke; MATSUO, Yuki; TAKAHASHI, Nobuyuki; KURODA, Kazuyuki
- 2C4-10<sup>†</sup>** Immobilization of Ionic Liquid onto Layered Octosilicate and its Anion Exchange Reactions (Faculty of Science and Engineering, Waseda Univ.; Kagami Memorial Institute for Materials Science and Technology, Waseda Univ.) TAKAHASHI, Nobuyuki; KURODA, Kazuyuki
- 2C4-11\*** Intercalation of Sodium into Graphite-like Layered Material  $\text{BC}_2\text{N}$  (Osaka Electro-Communication Univ.) KAWAGUCHI, Masayuki; YAMADA, Kaoru

Chair: KANEZAKI, Eiji (11:10~12:10)

- \* 11:00-11:10: interval for laptop PC connection.(2C4-14, 2C4-15, 2C4-16, 2C4-17, 2C4-18)
- 2C4-14<sup>#</sup>** Highly oriented monolayer film of layered hydroxide hexagonal platelet crystals and the topotactic transformation into oxides (International Center for Materials Nanoarchitectonics, National Institute for Materials Science) MA, Renzhi; HU, Linfeng; TAKADA, Kazunori; SASAKI, Takayoshi
- 2C4-15** Synthesis and Structure of Perovskite Type Nanosheets (MANA, NIMS) EBINA, Yasuo; AKATSUKA, Kosho; FUKUDA, Katsutoshi; SASAKI, Takayoshi
- 2C4-16<sup>†</sup>** Construction of Nanofilms through Layer-by-Layer Assembly of Tungsten Oxide Nanosheets and Their Photoelectrochemical Properties (International Center for Materials Nanoarchitectonics, NIMS) AKATSUKA, Kosho; FUKUDA, Katsutoshi; EBINA, Yasuo; HAGA, Masa-aki; SASAKI, Takayoshi
- 2C4-17** Self-assembly of Oxide Nanosheets into Well-ordered Films Through Controlled Drying of Their Organic Solvent Dispersion (ISHIHARA SANGYO KAISHA, Ltd.; National Institute for Materials Science) UESUSUKI, Yusuke; IIDA, Masaki; EBINA, Yasuo; SASAKI, Takayoshi
- 2C4-18\*** Fabrication of ruthenium metal nanosheets (Shinshu Univ. NanoFIC) FUKUDA, Katsutoshi; SAIDA, Takahiro; SATO, Jun; KATO, Hisato; SUGIMOTO, Wataru; TAKASU, Yoshio

### Saturday, March 27, PM

Chair: YAMADA, Yasuhiro (13:20~14:20)

- \* 13:10-13:20: interval for laptop PC connection.(2C4-27, 2C4-28, 2C4-29, 2C4-30, 2C4-31)
- 2C4-27** Ion Exchange Property of Layered Double Hydroxide for Dendrimers; pH Responsiveness (Okayama Univ.) TANAKA, Toshiyuki; NISHIMOTO, Shunsuke; KAMESHIMA, Yoshikazu; TAKAGUCHI, Yutaka; MIYAKE, Michihiro
- 2C4-28** A TEM Study on the Fe/Cu Ordering in  $\text{ThCr}_2\text{Si}_2$ -type  $\text{Tl}(\text{Fe}, \text{Cu})_2\text{Se}_2$  (Yamaguchi Univ.; Okayama Univ. of Sci.) NAKAYAMA, Noriaki; NANBA, Shinsuke; OHTANI, Tsukio
- 2C4-29** Synthesis and properties of  $\text{Pu}_3\text{Pd}_5$  type  $\text{Yb}_3\text{Ge}_5$  prepared by high-pressure and high-temperature reactions (Grad. Sch. Eng., Hiroshima Univ.) HARADA, Momoko; FUKUOKA, Hiroshi; YAMANAKA, Syoji
- 2C4-30** Crystal structure analysis and electronic structure calculations of a

superconductor  $\text{LaGe}_3$  (Hiroshima Univ.) FUKUOKA, Hiroshi; YAMANAKA, Shoji

- 2C4-31\*** High-pressure synthesis, structural transformation, and physical properties of  $\text{PbNiO}_3$  with a perovskite-type structure (Gakushuin Univ.; Tokai Univ.) INAGUMA, Yoshiyuki; TANAKA, Kie; TSUCHIYA, Takeshi; MORI, Daisuke; KATSUMATA, Tetsuhiro

Chair: INAGUMA, Yoshiyuki (14:30~15:20)

- \* 14:20-14:30: interval for laptop PC connection.(2C4-34, 2C4-35, 2C4-36, 2C4-37, 2C4-38)
- 2C4-34** Properties of Protic Ionic Liquids of Alkylethylenediamines and the Interactions with Paramagnetic Transition-Metal Salts and Complexes (Graduate School of Humanities and Sciences, Nara Women's Univ.) IIDA, Masayasu; KAWAKAMI, Sayaka; SHOUNO, Emi
- 2C4-35** In-beam Mossbauer spectroscopy of  $^{57}\text{Mn}$  implanted into Aluminum Oxide (ICU; RIKEN; Osaka Univ.; Tokyo Univ. Sci.; Kanazawa Univ.; Nihon Univ.; NIRS) NAGATOMO, Takashi; KOBAYASHI, Yoshio; MIHARA, Mototsugu; KUBO, Kenya; YAMADA, Yasuhiro; SATO, Wataru; JUN, Miyazaki; SATO, Shinji; KITAGAWA, Atsushi
- 2C4-36**  $^{57}\text{Mn}$  in-beam Mossbauer spectroscopy of magnesium oxide (ICU; RIKEN; Osaka Univ.; Tokyo Univ. Sci.; Kanazawa Univ.; Nihon Univ.; NIRS) NAGATOMO, Takashi; KOBAYASHI, Yoshio; MIHARA, Mototsugu; KUBO, Kenya; YAMADA, Yasuhiro; SATO, Wataru; MIYAZAKI, Jun; SATO, Shinji; KITAGAWA, Atsushi
- 2C4-37** Iron oxide thin films produced by laser deposition in a gas mixture of oxygen and argon (Tokyo Univ. of Sci.; RIKEN) ITO, Asae; USUI, Ryo; YAMADA, Yasuhiro; KOBAYASHI, Yoshio
- 2C4-38** Iron nitride thin films synthesized by laser deposition in nitrogen atmosphere (Tokyo Univ. of Sci.; RIKEN) USUI, Ryo; ITO, Asae; YAMADA, Yasuhiro; KOBAYASHI, Yoshio

Chair: FUKUOKA, Hiroshi (15:30~16:10)

- \* 15:20-15:30: interval for laptop PC connection.(2C4-40, 2C4-41, 2C4-42, 2C4-43)
- 2C4-40** Magnetic properties and chemical states of Co and Fe codoped tin oxide powders. (The Univ. of Tokyo) OKAMURA, Kumiko; NOMURA, Kiyoshi; YAMADA, Yasuhiro
- 2C4-41** Development of an Automated Solvent Extraction Apparatus using Microchip for Heavy Element Chemistry (Grad. School of Sci., Osaka Univ.; RIKEN; RCNP) FUJISAWA, Hiroyuki; OOE, Kazuhiro; KOMORI, Yukiko; KURIYAMA, Ai; TAKAYAMA, Reona; KIKUTANI, Yuki; KIKUNAGA, Hidetoshi; YOSHIMURA, Takashi; TAKAHASHI, Naruto; HABA, Hiromitsu; KASAMATSU, Yoshitaka; KUDOU, Yuki; EZAKI, Yutaka; SHINOHARA, Atsushi
- 2C4-42** Reduction of mendelevium (Md) with electrochemistry (JAEA; RIKEN; Osaka Univ.; Univ. Mainz) TOYOSHIMA, Atsushi; TSUKADA, Kazuaki; ASAI, Masato; SATO, Tetsuya; LI, Zijie; SATO, Nozomi; KIKUCHI, Takahiro; KITATSUJI, Yoshihiro; NAGAME, Yuichiro; OOE, Kazuhiro; SHINOHARA, Atsushi; KASAMATSU, Yoshitaka; HABA, Hiromitsu; EVEN, Julia
- 2C4-43** Investigation of initial states of captured muons in light elements by using low pressure gases (J-PARC, MLF) KITA, Makoto; NINOMIYA, Kazuhiko; ITO, Takashi; NAGATOMO, Takashi; KUBO, Kenya; STRASSER, Patrick; KAWAMURA, Naritoshi; SHIMOMURA, Koichiro; MIYAKE, Yasuhiro; MIURA, Taichi; SHINOHARA, Atsushi; HIGEMOTO, Wataru

## Asian International Symposium -Inorganic Chemistry and Coordination Chemistry, Organo-metallic Chemistry

Sunday, March 28, PM

Chair: TAKAHASHI, Tamotsu and MIZOBE, Yuji (13:00~14:30)

- 3C4-25<sup>#</sup> Keynote Lecture** Iron-catalyzed C-H bond oxidation directed towards organic synthesis (Renmin Univ. China, China) LI, Zhiping (13:00~13:30)
- 3C4-28<sup>#</sup> Invited Lecture** Ruthenium-platinum carbido complex via C-H bond activation of a bridging methylene ligand (Osaka Pref. Univ.) ○TAKEMOTO, Shin; KARITANI, Kenji; MORITA, Hidenobu; MATSUZAKA Hiroyuki (13:30~13:50)
- 3C4-30<sup>#</sup> Invited Lecture** Dehydrogenative silylation of olefins catalyzed by an iron complex (Osaka City Univ.; NEDO) ○NAUMOV, Roman; ITAZAKI, Masumi; NAKAZAWA, Hiroshi (13:50~14:10)
- 3C4-32<sup>#</sup> Invited Lecture** Activation of C-H, C-Cl, and O-H Bonds by Rhodium Trimethylphosphine Complexes (AIST) ○CHOI, Jun-Chul; YASUDA, Hiroyuki; SAKAKURA, Toshiyasu (14:10~14:30)

Chair: SAKAI, Ken and OSAKADA, Kotaro (14:40~16:10)

- 3C4-35<sup>#</sup> Keynote Lecture** Withdrawn (14:40~15:10)
- 3C4-38<sup>#</sup> Invited Lecture** Characteristic structures and photophysical properties of europium(III) complexes with phosphine oxides (NAIST) HASEGAWA, Yasuchika (15:10~15:30)
- 3C4-40<sup>#</sup> Invited Lecture** Photoinduced  $\text{H}_2$ -production with noble metal-free molecular catalysts (Dalian Univ. of Technology, China) ○WANG,

Mei; ZHANG, Pan; LI, Xueqiang; DONG, Jingfeng; SUN, Licheng (15:30~15:50)

**3C4-42<sup>#</sup> Invited Lecture** Design of molecularly-imprinted Ru-complex catalysts on SiO<sub>2</sub> (IMS) TADA, Mizuki (15:50~16:10)

Chair: MIZUNO, Noritaka and ITOH, Shinobu (16:20~17:50)

**3C4-45<sup>#</sup> Keynote Lecture** Mononuclear metal-O<sub>2</sub> complexes in O<sub>2</sub>-transfer reactions (Ewha Womans Univ., Korea) CHO, Jaheung (16:20~16:50)

**3C4-48<sup>#</sup> Invited Lecture** Synthetic heme models mimic the formation of peroxy- and hydroperoxy-hemeintermediates relevant to dioxygen activation in heme-containing enzymes (Kyushu Univ.) LIU, Jin-Gang (16:50~17:10)

**3C4-50<sup>#</sup> Invited Lecture** Mechanism of O-O bond formation in water oxidation catalyzed by dinuclear ruthenium complex (IMS) OWADA, Tohru; TANAKA, Koji (17:10~17:30)

**3C4-52<sup>#</sup> Invited Lecture** Electrons from hydrogen (Kyushu Univ.) OGO, Seiji (17:30~17:50)

## Coordination Chemistry, Organometallic Chemistry

Monday, March 29, AM

Chair: AKITA, Munetaka (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4C4-01, 4C4-03, 4C4-05, 4C4-06)

**4C4-01\*** Construction of conglomerates composed of saddle-distorted Tinporphyrin and Keggin-type heteropolyoxometalate and the photoinduced electron transfer (Univ. of Tsukuba) YOKOYAMA, Atsutoshi; KOJIMA, Takahiko; FUKUZUMI, Shunichi

**4C4-03\*** Development of New Fluorescent Sensor Molecules for Detecting Site-specific Changes in Zinc Ion Concentration (Kyoto Univ.) IYOSHI, Shohei; TAKI, Masayasu; YAMAMOTO, Yukio

**4C4-05** Synthesis and reactions of cubane-type [MoFe<sub>3</sub>S<sub>4</sub>] clusters having a η<sup>5</sup>-C<sub>3</sub>Me<sub>3</sub> ligand on molybdenum (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) SUGIMURA, Nobuaki; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**4C4-06** Syntheses of Phthalocyanine-Salen Fused Dinucleating Ligands and Their Nickel(II) Complexes (Shimane Univ.; Kwansai Gakuin Univ.; Univ. of Toyama) FUKAHORI, Toshiro; IKEUE, Takahisa; SUGIMORI, Tamotsu; MIKURIYA, Masahiro; HANDA, Makoto

Chair: OHKI, Yasuhiro (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4C4-08, 4C4-09, 4C4-10, 4C4-11, 4C4-12, 4C4-13)

**4C4-08** Stereoselectivity of Ni(II) Mononuclear Units in S-Bridged Polynuclear Structures (Kobe City Coll. Technol.; Kanagawa Univ.) SHIMIZU, Tsutomu; KAWAMOTO, Tatsuya; MIYASHITA, Yoshitaro

**4C4-09** Radical formation by oxidation of hydroxyporphycene Ni complex (Kyushu Univ.) OKAWARA, Toru; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

**4C4-10** Design and Synthesis of Coordination Capsules Bearing Anthracene Rings (Chemical Resources Laboratory, Tokyo Institute of Technology) KISHI, Norifumi; LI, Zhiou; YOSHIZAWA, Michito; AKITA, Munetaka

**4C4-11** Exterior-functionalization of Coordination Capsules Bearing Anthracene Rings (Chemical Resources Laboratory, Tokyo Institute of Technology) LI, Zhiou; KISHI, Norifumi; YOSHIZAWA, Michito; AKITA, Munetaka

**4C4-12** Complexation of Ferrocene-dipeptide Conjugates with Palladiums (Osaka Univ.) MORIUCHI, Toshiyuki; NOBU, Masaki; HIRAO, Toshikazu

**4C4-13** Synthesis of a Tetraplatinum Cluster Having a Guanidinate Ligand and Its Utilization for Stepwise Synthesis of Supramolecules (Graduate School of Engineering Science, Osaka Univ.) TANAKA, Shinji; TSURUGI, Hayato; MASHIMA, Kazushi

Chair: YOSHIZAWA, Michito (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4C4-15, 4C4-16, 4C4-17, 4C4-19)

**4C4-15** Synthesis and Emission Properties of Platinum (II) Complexes with Pyridylthiophene Derivatives as Ligands (Fac. of Systems Engineering, Wakayama Univ.) WAKISAKA, Kazuyuki; OSUGA, Hideji; FUJITA, Akihiro; SAKAMOTO, Hidefumi

**4C4-16** Syntheses and Properties of Bis(Bipyridine) Platinum(II) Complexes with 9-Triptycyl Groups (Yokohama City Univ.) WATANABE, Sayaka; SHINOZAKI, Kazuteru

**4C4-17\*** Synthesis and luminescent properties of Pt-Ag complexes having diphenylpyrazolate and alkylpyrazolate ligands (Nagasaki Univ.; Hokkaido Univ.) UMAKOSHI, Keisuke; KURIHARA, Takaaki; SUEYOSHI, Shota; ARIKAWA, Yasuhiro; ONISHI, Masayoshi; ISHIZAKA, Shoji; KITAMURA, Noboru

**4C4-19\*** Construction of Metal Complex Arrays via Solid Phase Synthesis (NIMS) POTHAPPAN, Vairaprakash; TASHIRO, Kentaro; UEKI, Hisanori; YAGHI, Omar M.

Monday, March 29, PM

Chair: TANAKA, Kentaro (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(4C4-28, 4C4-29, 4C4-30, 4C4-31, 4C4-32, 4C4-33)

**4C4-28** Synthesis of Organometallic Platinum(II) Complexes Bearing Uracil Moiety (Osaka Univ.) MORIUCHI, Toshiyuki; SAKAMOTO, Yuki; HIRAO, Toshikazu

**4C4-29** Synthesis of Organometallic Platinum(II) Complexes Bearing Guanine Moiety (Osaka Univ.) MENG, Xiangtai; MORIUCHI, Toshiyuki; HIRAO, Toshikazu

**4C4-30** Synthesis and Properties of Diimine Platinum(II) Complexes with Thioglucose and Its Analogue (Osaka Univ.) KITANI, Naoki; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

**4C4-31** Synthesis And Hydrogen-Evolving Activity of a New Water-Soluble Platinum(II) Dimer Bridged by Pyridinethiolate Ligands (Kyushu Univ.; JST PRESTO) OHNISHI, Yuichiro; MASAOKA, Shigeyuki; SAKAI, Ken

**4C4-32<sup>#</sup>** Mixed-valence Copper Clusters Constructed by the C-C Bond Formation of a Substituted Hydrazone Ligand (Hokkaido Univ.) CHANG, Mee; KOBAYASHI, Atsushi; CHANG, Ho-chol; KATO, Masako

**4C4-33<sup>†</sup>** Synthesis and Structural Control of S-Bridged Multinuclear Copper Complexes with N,S-Chelating Schiff Base Ligands (Osaka Univ.) TAKINO, Yusuke; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

Chair: SAKAI, Ken (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(4C4-35, 4C4-37, 4C4-38, 4C4-39, 4C4-40)

**4C4-35\*** Synthesis of porphyrin/phthalocyanine supramolecular arrays (Nagoya Univ., Research Center for Material Science; Nagoya Univ., Department of Chemistry; CREST, JST) YAMADA, Yasuyuki; SUZUKI, Marie; TANAKA, Kentaro

**4C4-37** Synthesis and Reactivity of Copper(II) Complex with Bidentate Benzimidazolyl Ligand as a Hydroxylation Catalyst. (Nagoya Institute of Technology) GOTO, Mana; KAJITA, Yuji; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki

**4C4-38** Synthesis and Interconversion of Dinuclear and Trinuclear Gold(I) Complexes with Bis(diphenylphosphino)methane and D-Penicillamine (Osaka Univ.) HASHIMOTO, Yuji; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

**4C4-39** Synthesis and Self-assembly of Cyclic Au<sub>12</sub>M<sub>2</sub> (M = Co<sup>III</sup>, Cr<sup>III</sup>) Hexanuclear Complexes with D-Penicillamine (Osaka Univ.) LEE, Raeeun; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

**4C4-40** Synthesis and Reactivity of Gold(I) Trinuclear Complex with Triphosphine and D-Penicillamine (Osaka Univ.) MATSUSHITA, Natsuko; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

Chair: FUNAHASHI, Yasuhiro (15:50~16:50)

\* 15:40-15:50: interval for laptop PC connection.(4C4-42, 4C4-43, 4C4-44, 4C4-45, 4C4-46, 4C4-47)

**4C4-42** Synthesis and Luminescence properties of Gold(III) Complexes with D-penicillamine (Graduate School of Science, Osaka Univ.) HAYASHIDA, Kouhei; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

**4C4-43** Synthesis of Photoresponsive Porous Coordination Polymers Using Anthracene Derivative Ligands (Kyoto Univ.) ASANO, Kazuya; SHIMOMURA, Satoru; SATO, Hiroshi; MATSUDA, Ryotaro; KITAGAWA, Susumu

**4C4-44** Control of the adsorption isotherm by the solid solutions of flexible PCP (Kyoto Univ.) FUKUSHIMA, Tomohiro; HORIKE, Satoshi; KITAGAWA, Susumu

**4C4-45** Heterologous Metal Arrangement within Macrocycles with a Rhombic Nano-Cavity (Grad. School of Science, The Univ. of Tokyo) KURITANI, Masumi; TASHIRO, Shohei; SHIONOYA, Mitsuhiro

**4C4-46** Synthesis of dimetal complexes with a new asymmetric dinucleating ligand for molecular recognition of phosphate esters (Biochemical and Chemical Biology Lab, Doshisha Univ.) KAWAGUCHI, Hiroyuki; KODERA, Masahito; FUNABIKI, Takuzo; HITOMI, Yutaka

**4C4-47** Syntheses of Metal Complexes Bearing Phenoxide/Anilide Hybrid Tridentate Ligands (Department of Chemistry, Tokyo Institute of Technology) ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki



## Room C5

Bldg.21 541

## Colloid and Interface Chemistry

Friday, March 26, PM

## Monolayer • LB Film

Chair: FUJIMORI, Atsuhiko (13:00~14:00)

- \* 12:50-13:00: interval for laptop PC connection.(1C5-25, 1C5-26, 1C5-27, 1C5-28, 1C5-29, 1C5-30)
- 1C5-25** Control of vertically grown structures on two-dimensional template surfaces (Utsunomiya Univ.) IIMURA, Ken-ichi; ITO, Takayuki; KATO, Norihiro
- 1C5-26** Monolayer structures and photocurrent generation of organic semiconductor molecules with partial structure of graphene skeleton (Utsunomiya Univ.) AKABANE, Chika; KATO, Norihiro; IIMURA, Ken-ichi; FUKUSHIMA, Takanori; YAMAMOTO, Yohei; AIDA, Takuzo
- 1C5-27** Photoalignment of Liquid Crystal by Use of a Chemically-Adsorbed Monolayer Having a Chalconyl Group. (Kagawa Univ.) OHTAKE, Tadashi; OGAWA, Kazufumi
- 1C5-28** Structural study on Langmuir and Langmuir-Blodgett films of azobenzene containing liquid crystalline dendrimers with different spacer length (Graduate School of Engineering, Nagoya Univ.) LIN, Tongfu; NAKANO, Shusaku; YONETAKE, Koichiro; SEKI, Takahiro
- 1C5-29** Formation Behavior of Perovskite Structure during Compression of Aliphatic Amine Monolayer (Saga UNIV.) HIRAMATSU, Kenji; ARITA, Hiroshi; NARITA, Takayuki; ERA, Masanao; OISHI, Yushi
- 1C5-30** Coordination of Halogen Atoms and Optical Characteristics of Aliphatic Amines Perovskite Film Prepared on Water Surface (Saga UNIV.) SHIMODA, Masahiko; NARITA, Takayuki; ERA, Masanao; OISHI, Yushi

Chair: IIMURA, Ken-Ichi (14:10~15:10)

- \* 14:00-14:10: interval for laptop PC connection.(1C5-32, 1C5-33, 1C5-34, 1C5-35, 1C5-36, 1C5-37)
- 1C5-32** Molecular arrangement and surface morphology of Langmuir-Blodgett films of *N*-alkylated *p*-aminobenzoic acid (Faculty of Eng., Yamagata Univ., Graduate School of Sci. and Eng., Iwate Univ., Graduate School of Sci. and Eng., Yamagata Univ.) CHIBA, Satoshi; SATO, Natsuki; YOKO, Abe; SHIBASAKI, Yuji; FUJIMORI, Atsuhiko
- 1C5-33** Structural control and estimation of molecular arrangement of charge-transfer complexes containing 1,3-dithiole-2-thione-4,5-dithiolate (Fac. Eng., Yamagata Univ.; Grad. Sch. Sci., Eng., Yamagata Univ.) ITAGAKI, Ryosuke; TATEWAKI, Yoko; FUJIMORI, Atsuhiko
- 1C5-34** Molecular arrangement of Langmuir-Blodgett film for organo-modified clays and their mixed monolayer behavior with bio-degradable polymers (Fac. Eng., Yamagata Univ.; Grad. Sch. Sci., Eng., Yamagata Univ.) KUSAKA, Jun-ichi; NOMURA, Rintaro; FUJIMORI, Atsuhiko

## Bilayer(Vesicle • Liposome)

- 1C5-35** Fabrication of hydrogen bond-directed giant unilamellar vesicles of guanosine derivatives (Institute of Industrial Science, The Univ. of Tokyo) SAWAYAMA, Jun; YOSHIKAWA, Isao; ARAKI, Koji
- 1C5-36** Synthesis and phase behavior of a novel glycolipid biosurfactant (National Institute of Advanced Industrial Science and Technology (AIST)) YANAGIHARA, Takashi; FUKUOKA, Tokuma; ITO, Seiya; MORITA, Tomotake; IMURA, Tomohiro; SAKAI, Hideki; ABE, Masahiko; KITAMOTO, Dai
- 1C5-37** Molecular filtration induced by structural change of lipid bilayer at the metallic nano-gaps (Hokkaido Univ.) SUMIDA, Tomoki; NABIKI, Hideki; MURAKOSHI, Kei

Chair: KOGA, Tomoyuki (15:20~16:20)

- \* 15:10-15:20: interval for laptop PC connection.(1C5-39, 1C5-40, 1C5-41, 1C5-42, 1C5-43, 1C5-44)
- 1C5-39** Controlling of molecular filtering effect in self-spreading lipid bilayer with metallic nano-architectures (Hokkaido Univ.) FUKAGAWA, Kazuya; SUMIDA, Tomoki; MOTEGI, Toshinori; NABIKI, Hideki; MURAKOSHI, Kei

## Self-assembled Layer

- 1C5-40** Multilayers Made from Ionic Liquid Solutions (Nara Inst. Sci. Tech.) NAKASHIMA, Takuya; KOTOV, Nicholas A.
- 1C5-41** Layer-by-Layer Assembly via Electrostatic Interaction as Driving Force in Low-polar Media (Kyushu Univ.) OHTA, Masahiko; SADA, Kazuki
- 1C5-42** Study on the surface adsorption of cationic surfactant-inorganic salt mixtures with a positively adsorbed counter ion (Physical Chemistry of

- Interface, Kyushu Univ.) IMAI, Yosuke; SHIMAMOTO, Kei; LI, Huihui; TAKIUE, Takanori; MATSUBARA, Hiroki; ARATONO, Makoto
- 1C5-43** Coadsorption of Trithiocyanuric Acid and Benzenetrithiol on Silver Surface (College of Industrial Technology, Nihon Univ.) ISHITSUKA, Megumi; YAMADA, Koji; HIAKI, Toshihiko; NAKAGAMA, Tatsuro; KOHNO, Hideki; OSAKA, Naoki
- 1C5-44**<sup>†</sup> Ordered protein layer on solid surface by drop-stamp process (Kyushu Institute of Technology; Department of Biological Functions and Engineering) IWANAGA, Atsushi; ASAKAWA, Hitoshi; HUKUMA, Takeshi; NAKAMICHI, Momoka; SHIGEMATSU, Sakurako; IKENO, Shinya; LINDER, Markus; HARUYAMA, Tetsuya

Chair: ARATONO, Makoto (16:30~17:30)

- \* 16:20-16:30: interval for laptop PC connection.(1C5-46, 1C5-47, 1C5-48, 1C5-49, 1C5-50, 1C5-51)
- 1C5-46** Two-dimensional patterning of peptide ultra thin films with  $\alpha$ -helical conformation and their application (Doshisha Univ.) NAKAGAWA, Muneshige; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 1C5-47** Preparation of superhydrophobic paper by coating with peptide monolayers (Doshisha Univ.) JOE, Daigo; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 1C5-48** Observation of Grafting Polystyrene Morphology after Immersion of Aqueous CTAB Solutions (Shimane Univ.) FUJII, Masatoshi
- 1C5-49** Studies of two-dimensional structures of di-imide molecules at solid-liquid interface of HOPG by STM and non-contact AFM (Osaka Univ.) OTAKA, Fusa; MIYAKE, Yusuke; TANAKA, Hirofumi; OGAWA, Takuji; OTA, Masahiro
- 1C5-50** In situ characterization of the peptide structure during the solid-phase peptide synthesis studied by infrared spectroscopy (Graduate School of Science, Hokkaido Univ.) NOGUUCHI, Hidenori; ADACHI, Tatsuhiko; SAKAGUCHI, Kazuyasu; UOSAKI, Kohei
- 1C5-51** Control of molecular arrangement of ferrocenylalkanethiol using a cyclodextrin monolayer as a template (Hokkaido Univ.) TAKAHASHI, Makoto; DOMI, Yasuhiro; KAWAGUCHI, Toshikazu; SHIMAZU, Katsuaki

## Saturday, March 27, AM

## Self-assembled Layer

Chair: NAKASHIMA, Takuya (9:10~9:50)

- \* 9:00-9:10: interval for laptop PC connection.(2C5-02, 2C5-04, 2C5-05)
- 2C5-02**\* Formation and electrochemical characterization of self-organized adlayer consisting of terpyridine derivative and metal ion (Kumamoto Univ.) YOSHIMOTO, Soichiro; ONO, Yuta; NISHIYAMA, Katsuhiko; TANIGUCHI, Isao
- 2C5-04** Syntheses by Cross-Coupling Reaction on the Self-Assembled Monolayer of a Tripod-Shaped Trithiol and Electrochemical Determination of Product Yield (Mie Univ.) TANAKA, Toshiki; KITAGAWA, Toshikazu
- 2C5-05** Study on nitroaromatic compounds sensitive fluorescent film sensors (Shaanxi Normal Univ.) LI, Huihui; FANG, Yu

Chair: KITAGAWA, Toshikazu (10:00~11:00)

- \* 9:50-10:00: interval for laptop PC connection.(2C5-07, 2C5-09, 2C5-11)
- 2C5-07**\* STM Observation of Two-Dimensional Structure of Isobutenyl Compounds before and after Tandem Claisen Rearrangement (Utsunomiya Univ.; Industrial Technology Center of Tochigi Prefecture; AIST) OMORI, Kazuhiro; KIKKAWA, Yoshihiro; TOKUHISA, Hideo; KANESATO, Masatoshi; HIRATANI, Kazuhisa
- 2C5-09**\* Interfacial Assembly of Surface Engineered Organic/Inorganic Hybrid Particles (Kumamoto Univ.) KAWANO, Shintaro; SEI, Asumi; KUNITAKE, Masashi
- 2C5-11**\* A Road towards Artificial Cell - Self-reproduction Dynamics of Giant Vesicles Containing Amplified DNA Inside (The Univ. of Tokyo; Suzuka Nat. Coll. of Tech.) KURIHARA, Kensuke; TAMURA, Mieko; SUZUKI, Kentaro; SHOHA, Koh-ichiro; TAKAKURA, Katsuto; SUGAWARA, Tadashi

Chair: SHOHA, Kohichiro (11:10~11:50)

- \* 11:00-11:10: interval for laptop PC connection.(2C5-14, 2C5-16)
- 2C5-14**\* Stabilization of dispersed systems of air and liquids by colloidal particles (Faculty of Science and Engineering, Department of Chemistry of Functional Molecules, Konan Univ.; Department of Chemical Engineering, Imperial College London) MURAKAMI, Ryo; BISMARCK, Alexander
- 2C5-16**\* In situ observation of molecular diffusion in lipid bilayers on various time and spatial scales by single molecule tracking (IMS) TERO, Ryugo; SAZAKI, Gen; UJIHARA, Toru; URISU, Tsuneo

## Coordination Chemistry, Organometallic Chemistry

Saturday, March 27, PM

Chair: MORIUCHI, Toshiyuki (13:10~14:20)

- \* 13:00-13:10: interval for laptop PC connection.(2C5-26, 2C5-27, 2C5-28,

2C5-29, 2C5-31)

**2C5-26** Synthesis and properties of ruthenium complexes having solvent ligands in the axial sites and application to construct bridged assemblies (Kyushu Univ.) ASHIGARA, Shihō; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

**2C5-27** Synthesis and Intramolecular Electron-Transfer Properties of Ruthenium(II)-Pyridylamine Complexes Having 2, 2'-Bipyridine Arms as Metal Coordination Sites (Univ. of Tsukuba) YANO, Yuichi; ISHIZUKA, Tomoya; KOJIMA, Takahiko; FUKUZUMI, Shunichi

**2C5-28** Syntheses and redox properties of triruthenium cluster-based molecular loops (Kyushu Univ.) INATOMI, Atsushi; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

**2C5-29\*** 100ps time-resolved XAFS with  $[Ru(bpy)_3]^{2+}$  (KEK-PF) SATO, Tokushi; NOZAWA, Shunsuke; TOMITA, Ayana; HOSHINO, Manabu; KOSHIHARA, Shin-ya; FUJII, Hiroshi; ADACHI, Shin-ichi

**2C5-31\*** Synthesis of a tris(bipyridine)ruthenium(II) with dendritic viologen tethers and its application to photoinduced hydrogen production from water. (Kyushu Univ.; JST PRESTO) OGAWA, Makoto; GOPALAKRISHNAN, Ajayakumar; MASAOKA, Shigeyuki; HEINZ-BERNHARD, Kraatz; SAKAI, Ken

Chair: ABE, Masaaki (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(2C5-34, 2C5-36, 2C5-37, 2C5-38, 2C5-39)

**2C5-34\*** Development of a Hetero-Tetrametallic Photosynthetic Reaction Center Using Selective Accumulation of Inorganic Molecules (The Univ. of Tokyo, JST/ERATO) TAKASHIMA, Toshihiro; YAMAGUCHI, Akira; NAKAMURA, Ryuhei; HASHIMOTO, Kazuhito

**2C5-36** Synthesis and Structure of Manganese Cluster Complexes Bearing *m*-terphenyl Aryloxo, Carboxylate, or Arylboronate Ligands (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) KAWATO, Yuko; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**2C5-37** Syntheses of Mesityl/Thiolate Complexes of Iron and an [8Fe-7S] Cluster from Fe<sub>2</sub>Mes<sub>4</sub> (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) HASHIMOTO, Takayoshi; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**2C5-38** Synthesis and reactions of chloro(2,6-pyridinedicarboxylato)ruthenium complex (Fac. Sci. Technol., Sophia Univ.) ISOGAI, Hiroki; NAGAO, Hirotaka

**2C5-39<sup>†</sup>** Coordination behavior of aliphatic aminothioli-type ligand toward osmium(II) (Osaka Univ.) TAMURA, Motoshi; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

Chair: OHKI, Yasuhiro (15 : 40~16 : 40)

\* 15:30-15:40: interval for laptop PC connection.(2C5-41, 2C5-42, 2C5-43, 2C5-44, 2C5-45, 2C5-46)

**2C5-41** Synthesis and Metal-Metal Interaction of Dinuclear Os(III)Os(III) and Os(III)Os(IV) Complexes with TPA Ligand (Graduate School of Engineering, Osaka Univ.) SUGIMOTO, Hideki; KITAYAMA, Kazuhiro; SASAKI, Yoichi; ITOH, Shinobu

**2C5-42** Synthesis and Redox Properties of Os-Aqua-TPA Complex (Graduate School of Engineering, Osaka Univ.) KITAYAMA, Kazuhiro; SUGIMOTO, Hideki; ITOH, Shinobu

**2C5-43** Syntheses of Helical Transition Metal Complexes with Propylene Bridged-bis(Amino acid) Derivatives (Graduate School of Science, Osaka City Univ.) MIYAKE, Hiroyuki; YAMASHITA, Shohei; TSUKUBE, Hiroshi

**2C5-44** Syntheses and properties of the hybrid complexes having Co(II) mononuclear complexes and porphyrin units (Institute for Molecular Science) KON, Hiroki; KAWAO, Masahiro; NAGATA, Toshi

**2C5-45<sup>†</sup>** Chiral Recognition Between Linear-type Sulfur-bridged Multinuclear Complex-anions and Multinuclear Complex-cations (Osaka Univ.) YUAN, Houqun; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

**2C5-46** Crystal Structures and Isomerization Reactions of Dinuclear Ir-Rh Complexes Bridged by 5-Methyltetrazolate (Coordination Chemistry Laboratory, Faculty of Science, Okayama Univ.) TAKAYAMA, Asuka; SUZUKI, Takayoshi; SUNATSUKI, Yukinari; KOJIMA, Masaaki

Chair: SUGIMOTO, Hideki (16 : 50~17 : 50)

\* 16:40-16:50: interval for laptop PC connection.(2C5-48, 2C5-49, 2C5-50, 2C5-52, 2C5-53)

**2C5-48** Synthesis and properties of dithiolate-bridged Rh-W and Rh-W-Rh cluster complexes (The Univ. of Tokyo) TSUKADA, Satoru; MURATSUGU, Satoshi; KUME, Shoko; YAMANOI, Yoshinori; NISHIHARA, Hiroshi

**2C5-49** Syntheses of Multifunctional Photocatalysts by Covalent Linkage of Dinuclear Rhodium Complexes and Polyoxometalates (Kyushu Univ.) TANAKA, Saya; MASAOKA, Shigeyuki; HANAN, Garry; SAKAI, Ken

**2C5-50\*** High speed and energy save synthesis of luminescent metal complexes by flow microwave method. (Minerva Light Laboratory) MATSUMURA, Takeko; NISHIOKA, Masateru; OKAMOTO, Tadashi; MASUDA, Yoshihiko

**2C5-52** Diastereoisomerism and Luminescence Properties of D-Penicillaminato Ir<sup>III</sup>M<sup>III</sup>(M=Ag<sup>I</sup>, Au<sup>I</sup>) Trinuclear Complexes (Osaka Univ.) SARUKAWA, Yuta; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

**2C5-53** Emission Properties of Ir(III) Complexes with Polyglutamic Acid (Osaka Univ.) MORIUCHI, Toshiyuki; KATANO, Chiaki; HIRAO, Toshikazu

## Colloid and Interface Chemistry

Sunday, March 28, AM

### Surface Structure Properties SurfaceForce

Chair: KANO, Hirofumi (9 : 00 ~ 10 : 10)

\* 8:50-9:00: interval for laptop PC connection.(3C5-01, 3C5-02, 3C5-03, 3C5-04, 3C5-05, 3C5-07)

**3C5-01** Fabricating the magnetic recording media based on the FePt nanorod arrays by using AC electrodeposition method. (Yamaguchi Univ.) KUWABARA, Ryouyusuke; KURIYAMA, Kouichi; SUEMORI, Hidemi; FURUTA, Masahiro; FUJISHIMA, Akira; HONDA, Kensuke

**3C5-02** Controlling of the electrochemical catalytic activity at DLC nanodot array electrode (Yamaguchi Univ.) KURIYAMA, Kouichi; KUWABARA, Ryouyusuke; SUEMORI, Hidemi; FUJISHIMA, Akira; HONDA, Kensuke

**3C5-03** Electrochemical detection of bio-related molecules with high oxidation potential by applying extremely potential at conductive DLC electrodes (Yamaguchi Univ.) SUEMORI, Hidemi; FURUTA, Masahiro; TANAKA, Yoriko; FUJISHIMA, Akira; HONDA, Kensuke

**3C5-04<sup>†</sup>** Development of electrochemical surface force apparatus (IMRAM, Tohoku Univ.) KAMIJO, Toshio; KASUYA, Motohiro; MIZUKAMI, Masashi; KURIHARA, Kazue

**3C5-05\*** Ionic liquids confined between glass surfaces studied using resonance shear measurement (Faculty of Engineering, Yokohama Natl. Univ.; IMRAM, Tohoku Univ.) UENO, Kazuhide; KASUYA, Motohiro; WATANABE, Masayoshi; KURIHARA, Kazue

**3C5-07** Orientational and structural analysis of liquid crystal confined in nano-space under electric field (Tohoku Univ.; Institute of Multidisciplinary Research for Advanced Materials, Japan Synchrotron Radiation Research Institute, JST-CREST) NAKANO, Shinya; MIZUKAMI, Masashi; OHTA, Noboru; YAGI, Naoto; HATTA, Ichiro; KURIHARA, Kazue

Chair: MIZUKAMI, Masashi (10 : 20~11 : 20)

\* 10:10-10:20: interval for laptop PC connection.(3C5-09, 3C5-12, 3C5-13, 3C5-14)

**3C5-09** Young Scholar Lectures of CSJ Application of gap-mode plasmons at well-defined metal-molecular interfaces (Grad. Sch. Sci., Hokkaido Univ.) IKEDA, Katsuyoshi; UOSAKI, Kohei

**3C5-12** Gap-mode Enhanced Raman Scattering Observation of Self Assembled Monolayers on non-SERS-active Platinum Single Crystalline Substrates under Electrochemical Condition (Hokkaido Univ.) SATO, Jun; IKEDA, Katsuyoshi; UOSAKI, Kohei

**3C5-13** Preparation of Porous Carbon Nano-sheet (Fac. Textile Sci. Technol., Shinshu Univ.) KOJIMA, Rikio; HATTORI, Yoshiyuki; KAWASUMI, Naoto; KONDO, Atsushi; TANAKA, Toshihisa; OKINO, Fujio; TOUHARA, Hidekazu

**3C5-14<sup>†</sup>** Spectroelectrochemical Properties of Single Wall Carbon Nanotube-Supported Polyethylene Terephthalate Film Electrodes (Grad. Sch. Sci., Chiba Univ.) YASUHI, Taro; ITOH, Tsutomu; OHBA, Tomonori; KANEKO, Katsumi; KANO, Hirofumi

Chair: KURIHARA, Kazue (11 : 30~12 : 30)

\* 11:20-11:30: interval for laptop PC connection.(3C5-16)

**3C5-16** CSJ Award for Creative Works Structural Control and Fictionalization of a Small Number of Atoms and Molecules at Liquid/Solid Interfaces (Grad. Sch. Sci., Hokkaido Univ.) MURAKOSHI, Kei

## Sunday, March 28, PM

Chair: SOEJIMA, Tetsuro (13 : 40~14 : 50)

\* 13:30-13:40: interval for laptop PC connection.(3C5-29, 3C5-30, 3C5-31, 3C5-33, 3C5-34)

**3C5-29** Specific surface free energy and the crystal growth of NaCl single crystal (Fac. Eng., Shinshu Univ.) NAKAYAMA, Masaki; SUZUKI, Takaomi

**3C5-30** Specific surface free energy and the morphology of synthesized single ruby crystal (Department of Environmental Science and Technology, Faculty of Engineering, Shinshu Univ.) ODA, Masayuki; SUZUKI, Takaomi

**3C5-31\*** Ionic conductivity of electrolyte penetrated into mesoporous silica (Kobe Univ.) MIZUHATA, Minoru; USUI, Masafumi

**3C5-33** DSC and powder XRD studies on various clay-Poly(N-isopropylacrylamide) nanocomposites (Tokyo Denki Univ.) SATO, Kana; ISHIMARU, Shin'ichi

**3C5-34\*** Light Patterning of Oil-shedding Interface (ISIT) HARAGUCHI, Syuichi; OGAWA, Masashi; TSUCHIYA, Youichi; SHIRAKI, Tomohiro; SHINKAI, Seiji; KAKIMOTO, Hidenobu; GOTO, Osamu; YAMADA, Takeshi; OKUMOTO, Kenji; NAKATANI, Shuhei; SAKANOU, Kei

Chair: MIZUHATA, Minoru (15 : 00~16 : 00)

\* 14:50-15:00: interval for laptop PC connection.(3C5-37, 3C5-39, 3C5-41)

- 3C5-37\*** Localized Surface Plasmon Induced Oxidation of Bi-axially Oriented Ag Nanorods on Single Crystalline TiO<sub>2</sub> (IIS, The Univ. of Tokyo; JST-PRESTO) KAZUMA, Emiko; MATSUBARA, Kazuki; SAKAI, Nobuyuki; TATSUMA, Tetsu
- 3C5-39\*** Optical property of a single walled carbon nanotube under photo irradiation (Hokkaido Univ.) TAKASE, Mai; YASUDA, Satoshi; NABIKI, Hdeki; MURAKOSHI, Kei
- 3C5-41\*\*** Attempt on Electrochemical Synthesis of Carbon Nanotube at Room Temperature (Hokkaido Univ.) GHAREEB, Ahmed; YASUDA, Satoshi; MURAKOSHI, Kei

Chair: SUZUKI, Takaomi (16 : 10~17 : 20)

\* 16:00-16:10: interval for laptop PC connection.(3C5-44, 3C5-46, 3C5-47, 3C5-48, 3C5-50)

- 3C5-44\*** One-Pot & Low-Temperature Synthesis of Metal Oxide Nanocoral Reefs and their Function (Kyushu Univ.; Kawamura Institute of Chemical Research; JST CREST) SOEJIMA, Tetsuro; JIN, Ren-hua; KIMIZUKA, Nobuo
- 3C5-46** Fabrication of a coordination polymer nanofilm with a porphyrin derivative on a solid surface. (Kyushu Univ.) MOTOYAMA, Soichiro; MAKIURA, Rie; KITAGAWA, Hiroshi; SAKATA, Osami
- 3C5-47** Adhesion of polyethylene plates with chitosan solutions modified through enzymatic reaction (College of Industrial Technology, Nihon Univ.) YAMAGAMI, Shou; TAKAHASHI, Jun; YAMADA, Kazunori
- 3C5-48\*** Two-dimensional molecular separation by controlling molecular diffusion direction in lipid bilayer (Hokkaido Univ.) MOTEGI, Toshinori; NABIKI, Hideki; MURAKOSHI, Kei
- 3C5-50** Effect of periodic curvature on molecular filtering phenomena at the self-spreading lipid bilayer (Hokkaido Univ.) OGAWA, Takafumi; SUMIDA, Tomoki; MOTEGI, Toshinori; NABIKI, Hideki; MURAKOSHI, Kei

## Monday, March 29, AM

### Adsorption/Catalyst

Chair: MORISHIGE, Kunimitsu (9 : 00 ~10 : 10)

\* 8:50-9:00: interval for laptop PC connection.(4C5-01, 4C5-02, 4C5-03, 4C5-05, 4C5-06)

- 4C5-01** Kinetics of CO<sub>2</sub> clathrate formation reaction of an elastic layer-structured MOF (ELM) (Tokyo Univ. of Agriculture and Technology) KONDO, Atsushi; KAJIRO, Hiroshi; KANO, Hirofumi; KANEKO, Katsumi; HATTORI, Yoshiyuki; OKINO, Fujio
- 4C5-02** Gate Phenomena Regulation of Two-dimensional Elastic Layer-structured Metal-Organic Frameworks (Nippon Steel Corporation) KAJIRO, Hiroshi; KONDO, Atsushi; NAKAGAWA, Tomohiro; CHINEN, Ayako; OHBA, Tomonori; KANO, Hirofumi; KANEKO, Katsumi
- 4C5-03\*** Porous coordination polymers showing pore volume expansion based on bond breaking and reformation. (JST-ERATO Kitagawa Project; Kyoto Univ.) MATSUDA, Ryotaro; SATO, Hiroshi; KOSAKA, Wataru; KITAGAWA, Susumu
- 4C5-05** Specific gas sorptivity of Elastic Layer-structured Ni-MOFs (Chiba Univ.; Tokyo Univ. Agric. Technol.; Nippon Steel Corp.) KANO, Hirofumi; KONDO, Atsushi; KAJIRO, Hiroshi; NOGUCHI, Hiroshi; OHBA, Tomonori; KANEKO, Katsumi
- 4C5-06\*\*†** Formation of Porous Coordination Polymer on Quartz Oscillator Surface Having Gas Sensing Ability (JST-ERATO Kitagawa Integrated Pores Project) UEHARA, Hiromitsu; FURUAWA, Shuhei; NAKAHAMA, Masashi; DIRING, Stephane; KITAGAWA, Susumu

Chair: IYAMA, Taku (10 : 20~11 : 20)

\* 10:10-10:20: interval for laptop PC connection.(4C5-09, 4C5-11, 4C5-13, 4C5-14)

- 4C5-09\*** Hydration Structure of Zinc Ion Confined in Micropores of Activated Carbons (Okayama Univ.) OHKUBO, Takahiro; KURODA, Yasushige
- 4C5-11\*** Manipulation and Assembly of Nanomaterials by use of Micronano Bubble (Graduate School of Science and Engineering, Chuo Univ.) FUJII, Sho; KANAIZUKA, Katsuhiko; TOYABE, Shoichi; TETSUAKI, Okamoto; MUNEYUKI, Ei; HAGA, Masa-aki
- 4C5-13** Neck size of ordered cage-type mesoporous silica FDU-12 (Okayama Univ. of Science) MORISHIGE, Kunimitsu; YOSHIDA, Kenji
- 4C5-14** Amorphous molecular sieve (Okayama Univ. of Science) YASUKI, Tsubasa; MORISHIGE, Kunimitsu

Chair: OHKUBO, Takahiro (11 : 30~12 : 30)

\* 11:20-11:30: interval for laptop PC connection.(4C5-16, 4C5-18, 4C5-19, 4C5-20, 4C5-21)

- 4C5-16\*** CO adsorption and desorption behavior on gold nano-particles supported by metal oxides (Tokyo Metropolitan Univ.; International Christian Univ.; CREST, JST) TAKEI, Takashi; KOMIYAMA, Nozomi; CHUN, Wangjae; HARUTA, Masatake
- 4C5-18** The determination of hydrogen bonding structure of water molecular assemblies in hydrophobic small spaces (Shinshu Univ.; Ibaraki Univ.) IYAMA, Taku; FUTAMURA, Ryusuke; FUJISAKI, Fumika; HAMASAKI, Atom; OZEKI, Sumio; HOSHIKAWA, Akinori; ISHIGAKI, Toru

- 4C5-19** Development of Measurement Apparatus of Adsorption Isotherm Using Pressure-Feedback System which Applicable to High Pressure Condition (Shinshu Univ.; BEL Japan, Inc.) MORITA, Yuuhei; IYAMA, Taku; SHIGEOKA, Toshihiro; HAMASAKI, Atom; OZEKI, Sumio; SUEYOSHI, Toshinobu; NAKAI, Kazuyuki
- 4C5-20** Direct Measurement of Adsorption Isotherms by Pressure-Feedback Method (Shinshu Univ.; BEL Japan, Inc.) SHIGEOKA, Toshihiro; IYAMA, Taku; MORITA, Yuuhei; MATSUMURA, Yoko; HAMASAKI, Atom; OZEKI, Sumio; SUEYOSHI, Toshinobu; NAKAI, Kazuyuki
- 4C5-21** Adsorption of Alizarin Red S on Iron- and Lead-substituted Hydroxyapatites in Water (Dept. of Chem., Saitama Medical Univ.; Taihei Chem. Industrial Co.,Ltd.) MORIGUCHI, Takeshi; NAKAGAWA, Souhei; KAJI, Fumihito

## Monday, March 29, PM

### Microfabrication/Nanotechnology

Chair: KONDO, Atsushi (13 : 40~14 : 50)

- \* 13:30-13:40: interval for laptop PC connection.(4C5-29, 4C5-31, 4C5-33, 4C5-34, 4C5-35)
- 4C5-29\*\*** Driveline Lubricants - "Chemistry getting in Gear" (Castrol Driveline Technology Centre Hamburg, Germany) JENS, Sommer
- 4C5-31\*** Measurements of surface adsorption thin layer films with a combination methodology of the optical interferometry and the quartz crystal microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) KAWASAKI, Takayoshi; OKAHATA, Yoshio
- 4C5-33** Synthesis and Properties of Semiconductor Nanoparticle-Polythiophene Hybrid Nanotubes (Faculty of Science and Engineering, Kinki Univ.) KOTANI, Michihiko; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 4C5-34** Synthesis and Properties of Redox-active Polythiophene Nanotubes (Faculty of Science and Engineering, Kinki Univ.) SATO, Keisuke; FUJIMOTO, Nobuyuki; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 4C5-35** Synthesis and Property of Magnetic Nanoparticle-Polythiophene Hybrid Nanotubes. (Faculty of Science and Engineering, Kinki Univ.) MITSUMORI, Masashi; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

Chair: MATSUDA, Ryotaro (15 : 00~16 : 10)

- \* 14:50-15:00: interval for laptop PC connection.(4C5-37, 4C5-38, 4C5-39, 4C5-40, 4C5-41, 4C5-42, 4C5-43)
- 4C5-37** Property and Electrostatic Interaction of Anionic Polythiophene Nanotubes (Faculty of Science and Engineering, Kinki Univ.) FUJIMOTO, Nobuyuki; SATO, Keisuke; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 4C5-38** Control of Apatite Deposition on Polymer Surface Utilizing Their Protein Adsorption Properties (Tokyo Univ. of Science; The Univ. of Tokyo) SAKAI, Atsushi; HASHIZUME, Mineo; MATSUNO, Hisao; SERIZAWA, Takeshi
- 4C5-39** Development of Novel Surface Modification Processes for Polyimide Aiming at Fabrication of Their Composites with Metal Oxides (Tokyo Univ. of Science) HIRASHIMA, Michihisa; HASHIZUME, Mineo
- 4C5-40** Fabrication of Metal Oxide Nanoparticle Dispersed in Ion-exchange Membrane by the Liquid Phase Deposition Process (Kobe Univ.) HASEGAWA, Takashi; MIZUHATA, Minoru
- 4C5-41** Synthesis and Characteristics of Fullerene-Polythiophene Hybrid Nanotubes (Faculty of Science and Engineering, Kinki Univ.) YOSHIDA, Ryusuke; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 4C5-42** Encapsulation of Fullerene or Metal Nanoparticles into Polythiophene Nanotubes. (Faculty of Science and Engineering, Kinki Univ.) KITANO, Daiki; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 4C5-43** Synthesis and Property of Polymer Nanotubes with Fluorescence and Electrostatic Interaction Ability (Faculty of Science and Engineering, Kinki Univ.) IMANISHI, Katsuya; FUJIMOTO, Nobuyuki; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

## Room C6

Bldg.21 645

## Colloid and Interface Chemistry

Friday, March 26, PM

### Micelle • Molecular Assemblies

Chair: HIGASHI, Nobuyuki (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(1C6-25, 1C6-26, 1C6-27, 1C6-28, 1C6-29, 1C6-30)
- 1C6-25** Synthesis and Properties of Amphiphile Bearing a Trismaleimide Group in Its Hydrophilic Part. (Suzuka National College of Technology) TAKAKURA, Katsuto

**1C6-26** Synthesis and Properties of Novel Nonionic Surfactants with Acid Decomposition Function Derived from diethyl tartrate (Osaka Municipal Tech. Res. Inst.; Osaka Institute of Technology) ONO, Daisuke; UENO, Ryoma; SATO, Hirofumi; SHIZUMA, Motohiro; MASUYAMA, Araki; NAKAMURA, Masaki

**1C6-27** Solution properties of amineoxide surfactants having amide groups (OMTRI) KAKEHASHI, Rie; TOKAI, Naonji; MASAKI, Namiko; NAKATSUJI, Youji; YAMAMURA, Shingo

**1C6-28** Synthesis and aqueous solution properties of novel biodegradable gemini surfactants containing carboxylic groups (Miyoshi Oil & Fat Co., Ltd.; Tokyo Univ. of Sci.) TAKAMATSU, Yuichiro; SAKAI, Kenichi; SAKAI, Hideki; ABE, Masahiko

**1C6-29** Synthesis and Properties of Amphiphilic Multi-Sugar Type Oligomers with Long Alkyl Chain (Nara Woman's Univ.) NAKATANI, Yuka; YOSHIMURA, Tomokazu

**1C6-30** Effect of Heteroatom Introduction Position on Micellization of Surfactants with a Hetero Aromatic Ring as Head Group (Tokai Univ.) FUJIO, Katsuhiko; OKADA, Kenji; DAIDO, Aoi; SEKIGUCHI, Hiroko

Chair: SAKAI, Hideki (14 : 10~15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(1C6-32, 1C6-34, 1C6-35, 1C6-36, 1C6-37)

**1C6-32\*** Properties of a soybean oil-based surfactant and its application in microbubble preparation (NFRI; NCAUR/USDA; ARENA/Univ. of Tsukuba) XU, Qingyi; LIU, Zengsheng; NAKAJIMA, Mitsutoshi; NAKAMURA, Nobutaka; SHIINA, Takeo

**1C6-34** Aggregation Properties of Fluorocarbon-Hydrocarbon Hybridgemini Surfactants (Graduated School of Nara Women's Univ.) OKUDA, Aoi; YOSHIMURA, Tomokazu

**1C6-35** Synthesis and self-assembly of novel triblockpolymer with peptide unit as a center block (Doshisha Univ.) KAMIWATARI, Soichi; KOGA, Tomoyuki; HIGASHI, Nobuyuki

**1C6-36** Aggregation Behaviors of Tadpole Type Amphiphilic Dendrimers with Long Alkyl Chain (Graduated School of Nara Women's Univ.) EBIHARA, Aya; YOSHIMURA, Tomokazu

**1C6-37** Construction of Supramolecular Spherical Cyclodextrin dendrimer and its molecular recognition property (Graduate School of Science, Osaka Univ.) YOSHIDA, Shogo; TAURA, Daisuke; TAKASHIMA, Yoshinori; HASHIDZUME, Akihito; YAMAGUCHI, Hiroyasu; HARADA, Akira

Chair: OKAHATA, Yoshio (15 : 20~16 : 20)

\* 15:10-15:20: interval for laptop PC connection.(1C6-39, 1C6-40, 1C6-41, 1C6-42, 1C6-43, 1C6-44)

**1C6-39** Synthesis of sucrose mono long-chain alkyl ethers and their self-organization (Kagoshima Univ.) KANEMARU, Manami; KUWAHARA, Shin-ya; KANEKO, Yoshiro; KADOKAWA, Jun-ichi

**1C6-40** Synthesis and Supramolecular Assemblies of Amphiphilic Acyclic Anion Receptors (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; EIFUKU, Nazuki

**1C6-41** Morphology control of SBA-15 by adding salting-in ion (Institute of Industrial Science, The Univ. of Tokyo) KURAMOCHI, Yusuke; KOMABA, Shinichi; KOSUGE, Katsunori; Kanakkampalayam Krishnan, Cheralathan; OGURA, Masaru

**1C6-42** Unique Conformational Aspects of a "Multi-joint Oligomer"Designed Using a Rigid Diacetylene Coupled with aFree-rotating Chiral Ferrocene (School of Engineering, The Univ. of Tokyo) FUKINO, Takahiro; FUJITA, Norifumi; AIDA, Takuzo

**1C6-43** Morphological Control of Cyclodextrin Nano- and Microstructures (Osaka Univ.) KIDA, Toshiyuki; MARUI, Yasuhiro; AKASHI, Mitsuru

**1C6-44** Light-Harvesting Supramolecular Nanofibers Emerged at the Water/Ionic Liquid Interface (Grad. Sch. Eng., Kyushu Univ.; JST CREST) MORIKAWA, Masa-aki; KIMIZUKA, Nobuo

Chair: KIDA, Toshiyuki (16 : 30~17 : 30)

\* 16:20-16:30: interval for laptop PC connection.(1C6-46, 1C6-47, 1C6-48, 1C6-49, 1C6-50, 1C6-51)

**1C6-46** A Chirality Amplification of Chromene Amphiphile Aggregates via Photoisomerization (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) KAWASAKI, Takayoshi; FUJIWARA, Yuuko; TSUYUKI, Yumi; OKAHATA, Yoshio

**1C6-47** Stirring-induced chirality of Aggregates of Amphiphiles containing a chromene moiety (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) FUJIWARA, Yuuko; KAWASAKI, Takayoshi; OKAHATA, Yoshio

**1C6-48** Hemicyanine Dyes as a Fluorescent Probe for Microviscosity Analysis of a Polymer Micelle (Osaka Univ.) INOUE, Takuya; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

**1C6-49<sup>†</sup>** Photochemical control of viscoelasticity of mixed aqueous solutions using azobenzene carboxylates (Faculty of Sci. and Tech., Tokyo Univ. of Sci.) MATSUMURA, Atsutoshi; SAKAI, Kenichi; SAKAI, Hideki; ABE, Masahiko

**1C6-50** One-dimensional self-assembly of heteropolyacids by lipid packaging technique (Kyushu Univ.) CHIKARA, Chie; NOGUCHI, Takao; KUROIWA, Keita; KIMIZUKA, Nobuo

**1C6-51** Fabrication of organic-inorganic hybrids composed of dye-substituted

lipids and polyoxometalates and its properties (Grad. Sch. Eng., Kyushu Univ.) NOGUCHI, Takao; KUROIWA, Keita; KIMIZUKA, Nobuo

Chair: YOSHIMURA, Tomokazu (17 : 40~18 : 30)

\* 17:30-17:40: interval for laptop PC connection.(1C6-53, 1C6-56, 1C6-57)

**1C6-53** Young Scholar Lectures of CSJ Precise Control of the Structure and Properties of Polyion Complexes and Their Dynamic Behaviors (Sch. of Eng. The Univ. of Tokyo) KISHIMURA, Akihiro

**1C6-56** Self-assembly of amphiphilic zinc chlorin possessing a chiral 1-hydroxyethyl group at the 3-position (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; HIRAI, Ryoji; TAKEHARA, Masatoshi; TAMIAMI, Hitoshi

**1C6-57** Synthesis and self-aggregates of zinc chlorin dimers possessing an oligoethylene linker (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; SASAKI, Fumika; TAMIAMI, Hitoshi

## Saturday, March 27, AM

### Molecular Assemblies · Vesicle

Chair: HARANO, Koji (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2C6-01, 2C6-03, 2C6-05, 2C6-06)

**2C6-01\*** Dissipative Structures Depending on the Stereoregularities of Polymers (Sch. Eng., The Univ. of Tokyo) MIYAMURA, Yasunao; KINBARA, Kazushi; AIDA, Takuzo

**2C6-03\*** Dendritic Molecular Glue (1): Hybridization with Proteins by Multivalent Salt-Bridge Formation and Its Applications (Sch. Eng., The Univ. of Tokyo) OKURO, Kou; KINBARA, Kazushi; ISHII, Noriyuki; INOUE, Yuichi; ISHIJIMA, Akihiko; OBA, Makoto; NISHIYAMA, Nobuhiro; KATAOKA, Kazunori; AIDA, Takuzo

**2C6-05** Dendritic Molecular Glue (2): Hybridization with Nucleic Acids by Multivalent Salt-Bridge Formation and Its Applications (School of Engineering, The Univ. of Tokyo) NEMOTO, Hareji; OKURO, Kou; KINBARA, Kazushi; MIYATA, Kanjiro; KATAOKA, Kazunori; AIDA, Takuzo

**2C6-06** Dendritic Molecular Glue (3): Hybridization of Carbon Nanotubes with Tobacco Mosaic Virus by Dendritic Molecular Glue (School of Engineering, The Univ. of Tokyo) XIA, Ning; MYNAR, Justin L.; ALDA, Takuzo

Chair: KAWAMATA, Jun (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2C6-08, 2C6-09, 2C6-10, 2C6-12, 2C6-13)

**2C6-08** Membrane Permeability Control of Fullerene Bilayer Vesicles by Photomodification (The Univ. of Tokyo; ERATO, JST) NARITA, Akimitsu; HARANO, Koji; NAKAMURA, Eiichi

**2C6-09** Evaluation of Permeability of Organic Solutes through Fullerene Bilayer Membrane (The Univ. of Tokyo; ERATO, JST) NISHIYAMA, Eri; HARANO, Koji; NAKAMURA, Eiichi

**2C6-10\*** Dynamic Behavior of Spontaneous Monodispersed Polyion Complex Vesicles (PICsomes) (Graduate School of Engineering, The Univ. of Tokyo) ANRAKU, Yasutaka; KISHIMURA, Akihiro; YAMASAKI, Yuichi; KATAOKA, Kazunori

**2C6-12\*** Effect of chain length of charged segments on the formation of polyion complex vesicles (PICsomes) (Graduate School of Engineering, The Univ. of Tokyo) CHUANNOI, Sayan; KISHIMURA, Akihiro; DONG, Wen-Fei; ANRAKU, Yasutaka; YAMASAKI, Yuichi; KATAOKA, Kazunori

**2C6-13** Structure control of micron-sized PICsomes by tuning the composition of charged polymers. (Graduate School of Engineering, The Univ. of Tokyo) MATSUDA, Hiroyuki; KISHIMURA, Akihiro; YAMASAKI, Yuichi; KATAOKA, Kazunori

Chair: KISHIMURA, Akihiro (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2C6-15, 2C6-18, 2C6-19, 2C6-20)

**2C6-15** CSJ Award for Young Chemists Development of Supramolecular Soft-Materials Based on Alkylated-Fullerenes (NIMS; MPI Colloids and Interfaces; JST-PRESTO) NAKANISHI, Takashi

**2C6-18<sup>†</sup>** Properties of water-soluble fluorine fullerene vesicles on solid surface and solubilization of molecules in water (The Univ. of Tokyo; ERATO, JST) HOMMA, Tatsuya; HARANO, Koji; NAKAMURA, Eiichi

**2C6-19** Post-modification of Fullerene Bilayer Vesicles: Surface Functionalization Using Copper(I)-Catalyzed Huisgen Cycloaddition Reaction (The Univ. of Tokyo; ERATO, JST) MINAMI, Kosuke; HARANO, Koji; NAKAMURA, Eiichi

**2C6-20\*** Ring-Opening Metathesis Polymerization on Water-Soluble Fullerene Bilayer Vesicles (The Univ. of Tokyo; ERATO, JST) HUANG, Li-fu; HARANO, Koji; NAKAMURA, Eiichi

## Saturday, March 27, PM

Chair: NAKANISHI, Takashi (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2C6-28, 2C6-29, 2C6-30, 2C6-31)

- 2C6-28** Novel supersecondary structure from three-armed collagen-mimetic peptides (Doshisha Univ.) NIKAI, Yoji; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 2C6-29** Self-assembly and Fluorescence Properties of Amphiphilic Benzimidazolium Salts (Grad. Sch. Eng., Kyushu Univ.; JST CREST) KISHIDA, Hiroyuki; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo
- 2C6-30** Molecular assembly and chromic behavior of Self-assembling lophine derivatives (Chubu Univ.; Tokyo Univ. of Sci., Yamaguchi) YABUCHI, Kazuhiro; SUZUKI, Junpei; ABE, Keiichi; ODA, Naoki; INOKUCHI, Makoto
- 2C6-31\*** Two-photon absorption characteristics of solid films consisting of conjugated ketone derivatives (Yamaguchi Univ.) YUKI, Tanaka; RYOTA, Ohshige; SEIJI, Tani; KAWAMATA, Jun

## Sunday, March 28, AM

### Emulsion • Gel

Chair: KATO, Tadashi (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3C6-01, 3C6-02, 3C6-04, 3C6-06)
- 3C6-01** Thermo-responsive structural color of a long-chain amidoamine derivative/toluene/water system (Tokyo Univ. of Science) AOYAMA, Tetsuya; MORITA, Clara; IMURA, Yoshiro; KAWAI, Takeshi
- 3C6-02\*** Effect of Hofmeister cations on the viscosity transition of O/W emulsion (Tokyo Univ. of Science) MORITA, Clara; IMURA, Yoshiro; KAWAI, Takeshi
- 3C6-04\*** Fabrication of Liquid Droplet Covered with Hydrophobic Polymer Particles (JST/ERATO Takahara Soft Interface Project) MATSUKUMA, Daisuke; WATANABE, Hirohmi; TAKAHARA, Atsushi
- 3C6-06** Development of novel self-assembling system utilizing O/W emulsion as a template. (Graduate School of Life and Environmental Science, Kyoto Prefectural Univ.) KINOSHITA, Daiki; NUMATA, Munenori; KUNIEDA, Michio; TAMI, Hitoshi
- Chair: KAWAI, Takeshi (10:10~11:10)
- \* 10:00-10:10: interval for laptop PC connection.(3C6-08, 3C6-10, 3C6-11, 3C6-12, 3C6-13)
- 3C6-08\*** Creation and characterization of variety nano-droplets using surfactant free emulsion apparatus (Chiba Institute of Technology) AIZAWA, Yuka; OGURA, Yoshihito; EGUCHI, Toshihiko; YAZAWA, Yuuki
- 3C6-10** Spiral textures of lamellar domain formed in the transition between hexagonal and lamellar phase (Tokyo Metropolitan Univ.) ICHIGUCHI, Kunihiko; KAWABATA, Youhei; KATO, Tadashi
- 3C6-11** The construction of multicomponent supramolecular gel via hydrogen bond and metal coordination. (Shizuoka Univ.) AOYAMA, Ryohei; YAMANAKA, Masamichi
- 3C6-12** Formation of Supramolecular Hydrogel by Molecular Recognition at Side Chain of Polymer (Graduate School of Science, Osaka Univ.) NAKAHATA, Masaki; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 3C6-13** Gelators of L-amino acid derivatives with 12-hydroxystearoyl group (Shinshu Univ.) KINNO, Masako; SUZUKI, Masahiro; HANABUSA, Kenji

Chair: IKEDA, Masato (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(3C6-15, 3C6-17, 3C6-19)
- 3C6-15\*** Polymer Organogelators based on L-Isoleucine (Shinshu Univ.) SUZUKI, Masahiro; KISHI, Sachiyo; HANABUSA, Kenji
- 3C6-17\*** Development of Gelator for Cosmetics Based on Cyclo(pipeline) Derivative (Interdisciplinary Graduate School of Science and Technology, Shinshu Univ.) HOSHIZAWA, Hiroko; SUZUKI, Masahiro; HANABUSA, Kenji
- 3C6-19\*** Photoswitchable carbon nanotube hydrogel by using supramolecular fastener. (Graduate School of Science, Osaka Univ.) TAMESUE, Shingo; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; SHINKAI, Seiji; HARADA, Akira

## Sunday, March 28, PM

### Liquid Crystal • Gel

Chair: HANABUSA, Kenji (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(3C6-28, 3C6-30, 3C6-32, 3C6-33)
- 3C6-28\*** New Development of supramolecular hydrogel (1): Construction of inorganic material hybrid type of biosensor (Grad. Sch. Eng., Kyoto Univ.) IKEDA, Masato; WADA, Atsuhiko; MATSUI, Toshihiro; HAMACHI, Itaru
- 3C6-30\*** New development of supramolecular hydrogel (2): Supramolecular hydrogel capsule showing enzyme-responsive substance release function (Grad. Sch. Eng., Kyoto Univ.) OCHI, Rika; WADA, Atsuhiko; IKEDA, Masato; HAMACHI, Itaru
- 3C6-32** New development of supramolecular hydrogel (3): Construction and function of pH-responsive soft matrix (Grad. Sch. Eng., Kyoto Univ.) FUKUDA, Keisuke; YOSHII, Tatsuyuki; KOMATSU, Harunobu; IKEDA,

Masato; HAMACHI, Itaru

- 3C6-33** Synthesis of amphiphilic hydrogelators and their supramolecular gelation : correlation of their molecular structures with phase-transferring temperatures (Ritsumeikan Univ.) TAMI, Hitoshi; TAKI, Kazutaka; KUNIEDA, Michio; TOMA, Kazunori

Chair: FUJIGAYA, Tsuyohiko (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(3C6-35, 3C6-37, 3C6-38, 3C6-40)
- 3C6-35\*** Transcription of Chirality in the Organogel Systems can Control the Enantiodifferentiating Photodimerization of Substituted Anthracene (ISIT, Nanotech. Lab.) DAWN, Arnab; SHIRAKI, Tomohiro; HARAGUCHI, Shuichi; SATO, Hiroki; SADA, Kazuki; SHINKAI, Seiji
- 3C6-37** New development of supramolecular hydrogel (4): Constitution and application of hydrogen peroxide-responsive supramolecular hydrogel (Grad. Sch. Eng., Kyoto Univ.) TANIDA, Tatsuya; IKEDA, Masato; HAMACHI, Itaru
- 3C6-38\*** New development of supramolecular hydrogel (5): 3D fabrication of cell scaffold matrix using stiff supramolecular hydrogel as unique molding template (Grad. Sch. Eng., Kyoto Univ.) KOMATSU, Harunobu; TSUKIJI, Shinya; IKEDA, Masato; HAMACHI, Itaru
- 3C6-40** Electrophoresis of proteins using supramolecular hydrogel (Shizuoka Univ.) JINNO, Yuki; YAMAMICHI, Sachiyo; YAMANAKA, Masamichi

Chair: FUNAHASHI, Masahiro (15:50~16:50)

- \* 15:40-15:50: interval for laptop PC connection.(3C6-42, 3C6-44, 3C6-46, 3C6-47)
- 3C6-42\*** Controlled-release of Molecules from Carbon Nanotube Surface in Gel (Kyushu Univ.) FUJIGAYA, Tsuyohiko; MORIMOTO, Tatsuro; NAKASHIMA, Naotoshi
- 3C6-44\*** Macroscopic Orientational Control of Lipophilic One-Dimensional MMX Type Metal Complexes (Grad. Sch. Eng., Kyushu Univ.; JST CREST) KUWAHARA, Rempei; KUROIWA, Keita; KIMIZUKA, Nobuo
- 3C6-46** Self-Assemblies of Acyclic Anion Receptors Bearing Additional Interaction Sites (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; TERASHIMA, Yoshitaka; HAKETA, Yohei
- 3C6-47†** Synthesis and Properties of Non-symmetric Liquid Crystalline Compounds Possessing Diamantane as the Core Part (Graduate School of Engineering, Yokohama Natl. Univ.) GUSHIKEN, Tsuyoshi; UBUKATA, Takashi; MAZAKI, Hitoshi; YOKOYAMA, Yasushi

Chair: IKEDA, Masato (17:00~18:10)

- \* 16:50-17:00: interval for laptop PC connection.(3C6-49, 3C6-51, 3C6-53, 3C6-54, 3C6-55)
- 3C6-49\*** Formation and Structural Analysis of Discotic Liquid Crystals Using Molecular Assembly of Rod-like Diacetylenes as Mesogen (Osaka City Univ.; Shinshu Univ.) SHIMOGAKI, Tomoyo; MATSUMOTO, Akikazu; OHTA, Kazuchika
- 3C6-51\*** Development of Piezochromic Luminescent Liquid Crystals (The Univ. of Tokyo) SAGARA, Yoshimitsu; YAMANE, Shogo; KATO, Takashi
- 3C6-53** Liquid Crystalline Oligopeptides with Dynamic Helical Properties (The Univ. of Tokyo) MATSUI, Ryoichi; ITO, Yoshimitsu; AIDA, Takuzo
- 3C6-54** Thermal properties and orientational behaviors of liquid crystals having anthraquinone skeleton (Oita Univ.) TANIGUCHI, Hirokazu; BABA, Hisanori; MORIYAMA, Masaya; UJIE, Seiji
- 3C6-55** Effects of electrolytes on structural stability of the lipid cubic phase (Tokyo Metropolitan Univ.; RIKEN) MINEGISHI, Asami; UCHIDA, Yuichi; KAWABATA, Youhei; KATO, Tadashi; HATO, Masakatsu

## Monday, March 29, AM

### Supermolecules • Polymer Assemblies

Chair: SHIMIZU, Toshimi (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4C6-01, 4C6-02, 4C6-04, 4C6-06)
- 4C6-01** Concentration dependency of 2D self-assembled structures of zinc chlorin derivatives (Univ. Wuerzburg) UEMURA, Shinobu; SENGUPTA, Sanchita; WUERTHNER, Frank
- 4C6-02\*** Formation of Side-Chain hetero-Polypseudorotaxane (Graduate School of Science, Osaka Univ.) TAURA, Daisuke; HASHIDZUME, Akihito; HARADA, Akira
- 4C6-04\*** Kinetically Stabilized Rotaxane Cross-links Directed Toward Recycling of Cross-linked Polymers (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) KOHSAKA, Yasuhiro; KOYAMA, Yasuhiro; NAKAZONO, Kazuko; TAKATA, Toshikazu
- 4C6-06** Synthesis and Property of Polyrotaxane Networks Using CD-containing Supramolecular Crosslinker (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) JANG, keum hee; ARAI, Takayuki; KOYAMA, Yasuhiro; TAKATA, Toshikazu

Chair: TAKATA, Toshikazu (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4C6-08, 4C6-09, 4C6-10, 4C6-12)

- 4C6-08** Synthesis of Polyrotaxane Constructed from Pillar[5]arenes (Graduate School of Natural Science and Technology, Kanazawa Univ.) OGOSHI, Tomoki; NISHIDA, Yoko; YAMAGISHI, Tada-aki; NAKAMOTO, Yoshiaki
- 4C6-09** Nano-space Chemistry of Organic Nanotubes (1): Construction of Optical-Responsive Nanotubes and Controllable Guest Release (NTRC-AIST, SORST-JST, Univ. Tsukuba, NRI-AIST) KAMETA, Naohiro; TANAKA, Asuka; AKIYAMA, Haruhisa; MINAMIKAWA, Hiroyuki; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 4C6-10\*** Nano-space Chemistry of Organic Nanotubes (2): Size Effect of Nanochannel Inner Diameters on Transportation Diffusion and Stability of Encapsulated Proteins (NTRC-AIST, SORST-JST, Tokyo Univ. Sci) KAMETA, Naohiro; MINAMIKAWA, Hiroyuki; SOMEYA, Yuu; YUI, Hiroharu; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 4C6-12\*** Supramolecular Columnar Clusters of Spin-Labeled Crown-Ethers as Studied by Pulsed Electron-Electron Double Resonance (Graduate School of Science, Osaka City Univ.) KANZAKI, Yuki; SHIOMI, Daisuke; SAWAI, Takatoshi; NAKAZAWA, Shigeaki; SATO, Kazunobu; OKADA, Keiji; KITAGAWA, Masahiro; TAKUI, Takeji

Chair: Ooya, Tooru (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4C6-15, 4C6-17, 4C6-19)
- 4C6-15\*** A Novel Polysaccharide-based Container Transportation System Powered by Molecular Motors (ISIT) TSUCHIYA, Youichi; KOMORI, Tomotaka; HIRANO, Minako; SHIRAKI, Tomohiro; KAKUGO, Akira; IDE, Toru; GONG, Jianping; YAMADA, Sunao; YANAGIDA, Toshiro; SHINKAI, Seiji
- 4C6-17\*†** Controlled Self-Assembly of Protein Cage by Asymmetric Polymer Modification (Kagoshima Univ.) UTO, Koichiro; YAMAMOTO, Kazuya; AOYAGI, Takao; IWAHORI, Kenji; YAMASHITA, Ichiro
- 4C6-19\*** Macroscopic Hierarchical Ordering of Photochromic Polymer Brushes that Exhibit a Remarkable Photomechanical Function (The Univ. of Tokyo; RIKEN) HOSONO, Nobuhiko; KAJITANI, Takashi; FUKUSHIMA, Takanori; AIDA, Takuzo

Monday, March 29, PM

### Supermolecules • Organized Film

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

- \* 13:20-13:30: interval for laptop PC connection.(4C6-28, 4C6-29, 4C6-30, 4C6-31, 4C6-32, 4C6-33)
- 4C6-28** Formation of Supramolecular Assemblies by Anion Modules (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; NARITANI, Kazumasa
- 4C6-29†**  $\beta$  Supramolecular Cross-Linking of Poly(ethylene glycol) Derivative with Bulky Groups at Both Ends and  $\beta$ -CD dimmer. (Japan Advanced Institute of Science and Technology) KOBAYASHI, Yuichiro; KATOONO, Ryo; YUI, Nobuhiko
- 4C6-30** Structural Evaluation of Dye Assembly Films in Metal Oxide Layer Formation Processes (Tokyo Univ. of Science) HIRAIDE, Takuya; HASHIZUME, Mineo
- 4C6-31** Development of Dye-sensitized Solar Cells sensitized by Near-IR absorbing Zinc Phthalocyanines (Shinshu Univ.) HAMANAKA, Youhei; KIMURA, Mutsumi; MORI, Syougo; GOTOU, Ryouta
- 4C6-32** Synthesis of imidazolium-expanded Porphyrin and its optical properties (NAIST) SHIRAIWA, Yoyu; NAKAMURA, Keisuke; CHUNG, Woojung; KUWABARA, Shingo; NAITO, Masanobu; NOMURA, Kotohiro; FUJIKI, Michiya
- 4C6-33** Electronic Properties of Large-area Self-Organized Films of Amphiphilic Fullerene Derivatives (Shinshu Univ.) OTSUJI, Satoshi; TAKIZAWA, Junko; KIMURA, Mutsumi

Chair: KIMURA, Mutsumi (14:40~15:30)

- \* 14:30-14:40: interval for laptop PC connection.(4C6-35, 4C6-36, 4C6-37, 4C6-38, 4C6-39)
- 4C6-35** Aerobic hydrogenation of olefins with self-assembled flavin catalyst (Graduate School of Engineering Science, Osaka Univ.) IMADA, Yasushi; KITAGAWA, Takahiro; NAOTA, Takeshi
- 4C6-36** Aerobic Hydrogenation of Olefins using Flavin-containing Supramolecular Gel Catalysts (Graduate School of Engineering Science, Osaka Univ.) IMADA, Yasushi; NISHIOKA, Shingo; NAOTA, Takeshi
- 4C6-37** Polymerization of Oligonucleotides Bound to Au Nanoparticle for Fabrication of Single-Electron Device (Graduate School of Science, Hokkaido Univ.) ISHIKAWA, Ayako; MATSUO, Yasutaka; SUZUKI, Kenji; NIIKURA, Kenichi; IJIRO, Kuniharu
- 4C6-38†** Self-Assembling Ability and Supramolecular Nanotube of  $C_{2v}$  Symmetric Triphenylene Derivatives having Long Alkoxy Chains (Tokyo Metropolitan Univ.) YAMAKAWA, Jun; NISHINAGA, Tohru; IYODA, Masahiko
- 4C6-39** 2D supramolecular structures of carbon nitride derivatives at the solution-solid interface (Grad. Schl. Sci. Tech., Kumamoto Univ.) AONO, Masashi; UEMURA, Shinobu; KOMATSU, Tamikuni; KUNITAKE, Masashi

Chair: NISHINAGA, Tohru (15:40~16:20)

- \* 15:30-15:40: interval for laptop PC connection.(4C6-41, 4C6-43, 4C6-44)
- 4C6-41\*** Synthesis of Macrocyclic Metal Complexes Directed Toward Functionalized Chemical Nano-Space (Graduate School of Science, Nagoya Univ.) KAWANO, Shin-ichiro; SUZUKI, Atsushi; TANAKA, Kentaro
- 4C6-43** Synthesis of Cyclic Dinuclear Platinum Complexes with Heptamethylene Chain and Sonication Induced Molecular Aggregation (Graduate School of Engineering Science, Osaka Univ.) TAKAHASHI, Kohichi; IIDA, Masayuki; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 4C6-44** Supramolecular Polymerization Catalyst for Lactones Initiated by Host Dimers: Effect of Host Molecules and Linkers on the Polymerization Activity (Grad. Sch. Sci., Osaka Univ.) TAKASHIMA, Yoshinori; OSAKI, Motofumi; YAMAGUCHI, Hiroyasu; HARADA, Akira

## Room D1

Bldg.20 20-002

### Catalysts and Catalysis

Friday, March 26, PM

#### Acid • Base Catalysts

Chair: MIYAKE, Takanori (14:00~15:00)

- \* 13:50-14:00: interval for laptop PC connection.(1D1-31, 1D1-33, 1D1-34, 1D1-35, 1D1-36)
- 1D1-31\*** Green organic syntheses using various anion-exchanged Ni-Zn hydroxy double salt as a solid base catalyst (Chiba Univ.) HARA, Takayoshi; KURIHARA, Jun; ICHIKUNI, Nobuyuki; SHIMAZU, Shogo
- 1D1-33** Transesterification of triglyceride on Fe-based mixed oxides (Kumamoto Univ.) IKEUE, Keita; MIYAMOTO, Yuka; MACHIDA, Masato
- 1D1-34** Transesterification of trybutyrin over cesium salts of heteropolyacids (Graduate School of Environmental Science, Hokkaido Univ., Research Faculty of Environmental Earth Science, Hokkaido Univ.) SANO, Shogo; KAMIYA, Yuichi
- 1D1-35** Application of Preyssler-type Phosphotungstic Acid as an Acid Catalyst (Hiroshima Univ.) ICHI, Yutaro; SADAKANE, Masahiro; OUMI, Yasunori; NINOMIYA, Wataru; SANO, Tsuneji
- 1D1-36** Structure and acid property of tantalum oxide on alumina (Grad. Sch. Eng., Kyoto Univ.) OKAZAKI, Shota; KITANO, Tomoyuki; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro

Chair: KAMIYA, Yuichi (15:10~16:10)

- \* 15:00-15:10: interval for laptop PC connection.(1D1-38, 1D1-39, 1D1-41, 1D1-43)
- 1D1-38** Structure and acid property of monolayer of niobium oxide over alumina (Grad. Sch. Eng., Kyoto Univ.) KITANO, Tomoyuki; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 1D1-39\*** HMF formation from D-glucose over niobic acid (Mater. Struc. Lab., Tokyo Inst. Tech.) NAKAJIMA, Kiyotaka; YAMASHITA, Shinya; KITANO, Masaaki; KATOU, Hideki; NOMURA, Junko; HARA, Michikazu
- 1D1-41\*** Synthesis of titanate nanotubes and its application as solid acid catalyst (Materials and Structures Laboratory, Tokyo Institute of Technology) KITANO, Masaaki; WADA, Emiko; NAKAJIMA, Kiyotaka; NOMURA, Jyunko; HAYASHI, Shigenobu; HARA, Michikazu
- 1D1-43** Dependence of acid catalysis of protonated titanate nanotubes on preparation conditions (Tokyo Institute of Technology) WADA, Emiko; KITANO, Masaaki; NAKAJIMA, Kiyotaka; NOMURA, Jyunko; HAYASHI, Shigenobu; HARA, Michikazu

Chair: IKEUE, Keita (16:20~17:20)

- \* 16:10-16:20: interval for laptop PC connection.(1D1-45, 1D1-47, 1D1-48, 1D1-49, 1D1-50)
- 1D1-45\*†** Synthesis and acid catalysis of carbon-based solid acid with high surface area (Tokyo Inst. of Tech.) SUGANUMA, Satoshi; NAKAJIMA, Kiyotaka; KITANO, Masaaki; TAMURA, Asako; KONDOU, Hidesato; YANAGAWA, Shimichiro; HAYASHI, Shigenobu; HARA, Michikazu
- 1D1-47** Application for organic synthesis by using carbon solid acid catalyst (Kanagawa Academy of Science and Technology) KADONO, Takeshi; HAYASHI, Shigenobu; HARA, Michikazu
- 1D1-48** Hydrolysis of lignocellulose by Solid Acid Catalyst (Kanagawa Academy of Science and Technology) YAMAGUCHI, Daizo; KITANO, Masaaki; SUGANUMA, Satoshi; NAKAJIMA, Kiyotaka; HARA, Michikazu
- 1D1-49** Direct DMC formation from methanol and CO<sub>2</sub> with benzonitrile hydration (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) HONDA, Masayoshi; KUNO, Shintaro; FUJIMOTO, Ken-ichiro; SUZUKI, Kimihito; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 1D1-50** Synthesis of propylene from ethanol over Ni/SiO<sub>2</sub>-ZrO<sub>2</sub> catalyst (Tokyo Gakugei Univ.) OMATA, Kaori; OGAWA, Haruo; YOSHINAGA,

Yusuke

## Saturday, March 27, AM

## Environmental Catalyst

Chair: NISHIGUCHI, Hiroyasu (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2D1-01, 2D1-02, 2D1-03, 2D1-04, 2D1-05, 2D1-06)
- 2D1-01** VOC decomposition system with "heater/honeycomb" units based on oxide semiconductors (Graduate School of Eng., Yokohama Natl. Univ.) MAKI, Atsushi; TAKAHASHI, Hiroo; SUZUKI, Shigeru; MIZUGUCHI, Jin
- 2D1-02** Characterization of various NiO-powders for use as the catalyst for VOC decomposition (Graduate School of Eng., Yokohama Natl. Univ.) MOTOYAMA, Tatsuro; MAKI, Atsushi; MIZUGUCHI, Jin
- 2D1-03** Characterization of various Cr<sub>2</sub>O<sub>3</sub>-powders for use as the catalyst for VOC decomposition (Graduate School of Eng., Yokohama Natl. Univ.) KONDO, Naoya; IWAMOTO, Ryo; MIZUGUCHI, Jin
- 2D1-04** Complete Oxidation of VOC on the Catalysts Based on Rare Earth Oxide Solid Solutions (Osaka Univ.) YASUDA, Keisuke; YOSHIMURA, Atsuki; MASUI, Toshiyuki; IMANAKA, Nobuhito
- 2D1-05** NO-C<sub>3</sub>H<sub>6</sub>-O<sub>2</sub>reaction on Ir loaded CeO<sub>2</sub> (AIST) AOKI, Naoya; SASAKI, Motoi; HANEDA, Masaaki; HAMADA, Hideaki
- 2D1-06** Direct Decomposition of NO on the Catalysts Based on C-type Cubic Rare Earth Oxides (Osaka Univ.) TSUJIMOTO, Soichiro; MASUI, Toshiyuki; IMANAKA, Nobuhito

Chair: MASUI, Toshiyuki (10:10~11:00)

- \* 10:00-10:10: interval for laptop PC connection.(2D1-08, 2D1-09, 2D1-10, 2D1-11, 2D1-12)
- 2D1-08** Enhancement of catalytic activity of Pt/MCM-41for selective catalytic reduction of NO by addition of Nb (Chemical Resources Laboratory, Tokyo Institute of Technology) YAGISHITA, Masahito; KOGA, Akiko; TANAKA, Masashi; IWAMOTO, Masakazu
- 2D1-09** Selective reduction of NO by hydrogen over physically mixed Pt catalysts (CASI, Osaka Univ.) ITOH, Masahiro; TAKEHARA, Masahiko; ISHIGURO, Katsuaki; MACHIDA, Ken-ichi
- 2D1-10** Catalytic reduction of nitrate in water by Pt/TiO<sub>2</sub> and Sn-Pd/Al<sub>2</sub>O<sub>3</sub> under UV light irradiation (Graduate School of Environmental Science, Hokkaido Univ., Catalysis Research Senter, Hokkaido Univ., Research Faculty of Environmental Earth Science, Hokkaido Univ.) KONDO, Hirofumi; ABE, Ryu; KAMIYA, Yuichi
- 2D1-11** Studies on the improvement of activity of AIPO-5 effective for CFC decomposition (Oita Univ.) INAO, Yasutaka; TOMITA, Kenta; NISHIGUCHI, Hiroyasu; NAGAOKA, Katsutoshi; TAKITA, Yusaku
- 2D1-12** Development of solid catalysts and reactors effective for BDF synthesis from waste vegetable oil (Oita Univ.) ISHIDA, Hiroshi; SUGIHARA, Hisao; NISHIGUCHI, Hiroyasu; NAGAOKA, Katsutoshi; TAKITA, Yusaku

## Zeolite

Chair: MOCHIZUKI, Dai (11:10~12:00)

- \* 11:00-11:10: interval for laptop PC connection.(2D1-14, 2D1-15, 2D1-16, 2D1-17, 2D1-18)
- 2D1-14** Synthesis of Mesoporous Zeolites Using Silica-Epoxy Resin Nanocomposites (AIST-Kansai) SAKAMOTO, Akinori; FUJIWARA, Masahiro
- 2D1-15** Synthesis of TS-1 adding Basic amino acids. (Chemical Resources Laboratory, Tokyo Institute of Technology) KIYOKAWA, Gou; YOKOI, Toshiyuki; IMAI, Hiroyuki; NOMURA, Junko; TATSUMI, Takashi
- 2D1-16** Interlayer-expansion of Al-MWW layered precursor by silylation under various conditions (Chemical Resources Laboratory, Tokyo Institute of Technology) MIZUNO, Shun; YAKUSHIJI, Hikaru; IMAI, Hiroyuki; YOKOI, Toshiyuki; TATSUMI, Takashi
- 2D1-17** Determination of Al site on the ZSM-5 framework using single crystal of ZSM-5 with homogeneous Al distribution (National Defense Academy) YOKOMORI, Yoshinobu; SUZUKI, Yuji; KIMIZIMA, Hiroaki; KAMIYA, Natsumi; NISHI, Koji
- 2D1-18** Unusual Behaviors of 3A Zeolite in Microwave Heating (Toyohashi Univ. of Technology) ADACHI, Yoshimichi; SAKAI, Yuya; OHGUSHI, Tatsuo

## Saturday, March 27, PM

## Zeolite

Chair: YOKOI, Toshiyuki (13:10~14:00)

- \* 13:00-13:10: interval for laptop PC connection.(2D1-26, 2D1-27, 2D1-28, 2D1-29, 2D1-30)
- 2D1-26** NO adsorption using Fe ion-exchanged zeolite-RHO (Institute of Industrial Science, The Univ. of Tokyo) NAKAMURA, Shinnosuke; KOMABA, Shinichi; OGURA, Masaru
- 2D1-27** The study of the adsorption structure of chlorobenzene on silicalite-1 by using single crystal X-ray diffraction (National Defense Academy)

IWAMA, Wataru; KAMIYA, Natsumi; NISHI, Koji; YOKOMORI, Yoshinobu

- 2D1-28** Pore structure of (NH<sub>4</sub>)<sub>4</sub>SiW<sub>12</sub>O<sub>40</sub> sponge crystals and their gas separation properties. (Grad. Sch. Eng., Hiroshima Univ.) UYAMA, Takeshi; INUMARU, Kei; YAMANAKA, Syoji
- 2D1-29** Effect of alkali-treatment temperature of Silicalite-1 on catalytic properties for vapor phase Beckmann rearrangement (Waseda Univ. Faculty of Science and Engineering) MATSUKATA, Masahiko; UEDA, Kohtarō; FUKAYA, Masahiro; SEKINE, Yasushi; KIKUCHI, Eiichi
- 2D1-30** Improvement of catalytic activity of Ti-MFI by alkali treatment (Waseda Univ. Faculty of Science and Engineering) MATSUKATA, Masahiko; FUNAKO, Toshiki; NAKASHIMA, Takaaki; KIKUCHI, Eiichi; SEKINE, Yasushi

Chair: NISHI, Koji (14:10~15:00)

- \* 14:00-14:10: interval for laptop PC connection.(2D1-32, 2D1-33, 2D1-34, 2D1-35, 2D1-36)
- 2D1-32** Catalytic conversion of glycerin over metallosilicate catalysts (Chemical Resources Laboratory, Tokyo Institute of Technology) USUI, Tatsuya; YOKOI, Toshiyuki; IMAI, Hiroyuki; TATSUMI, Takashi
- 2D1-33** Dehydration of xylose over heteroatom-containing \*BEA-type zeolites (Chemical Resources Laboratory, Tokyo Institute of Technology) OTOMO, Ryoichi; SUZUKI, Takeshi; IMAI, Hiroyuki; YOKOI, Toshiyuki; TATSUMI, Takashi
- 2D1-34** Synthesis and catalytic application of the RTH-type zeolite synthesized without organic structure-directing-agents (Chemical Resources Laboratory, Tokyo Institute of Technology) LIU, Ming; IMAI, Hiroyuki; YOKOI, Toshiyuki; TATSUMI, Takashi
- 2D1-35** Ethanol steam reforming reaction involved by zeolite with transition metal cations. (Graduate School of Environmental Science, Okayama Univ.) INOKAWA, Hitoshi; NISHIMOTO, Shunsuke; KAMESHIMA, Yoshikazu; MIYAKE, Michihiro
- 2D1-36** Catalytic cracking of n-hexane over zeolite solid acid catalysts (Chemical Resources Laboratory, Tokyo Institute of Technology) MOCHIZUKI, Hiroshi; IMAI, Hiroyuki; YOKOI, Toshiyuki; NAMBA, Seitaro; TATSUMI, Takashi

## Photocatalyst

Chair: NISHIKI, Hiromasa (15:10~16:10)

- \* 15:00-15:10: interval for laptop PC connection.(2D1-38, 2D1-40, 2D1-42)
- 2D1-38\*** Isotopic and Kinetic Study on Photocatalytic Overall Water Splitting on Zn-added Ga<sub>2</sub>O<sub>3</sub> Photocatalyst (Sch. of Eng., The Univ. of Tokyo; Grad. Sch. of Sci. and Eng., Yamaguchi Univ.) HISATOMI, Takashi; MIYAZAKI, Kazuo; TAKANABE, Kazuhiro; MAEDA, Kazuhiko; KUBOTA, Jun; SAKATA, Yoshihisa; DOMEN, Kazunari
- 2D1-40\*** Sensitized photocatalysis with acridone-bridged periodic mesoporous organosilica as a visible-light harvesting antenna (Toyota Central R&D Labs., Inc.; JST-CREST) TAKEDA, Hiroyuki; GOTO, Yasutomo; MAEGAWA, Yoshifumi; OHSUNA, Tetsu; TANI, Takao; SHIMADA, Toyoshi; INAGAKI, Shinji
- 2D1-42\*** Study on Carbon Nitride as a Visible-Light-Driven Photocatalyst for Water Splitting (School of Engineering, The Univ. of Tokyo; Max-Planck Institute) MAEDA, Kazuhiko; WANG, Xinchun; ANTONIETTI, Markus; DOMEN, Kazunari

Chair: MOCHIZUKI, Dai (16:20~17:00)

- \* 16:10-16:20: interval for laptop PC connection.(2D1-45, 2D1-46, 2D1-47, 2D1-48)
- 2D1-45** Modification of carbon nitride with tantalum species as a visible-responsive photocatalyst for water oxidation (The Univ. of Tokyo) KAMATA, Kumiko; TAKANABE, Kazuhiro; KUBOTA, Jun; DOMEN, Kazunari
- 2D1-46** Development of novel Na<sub>0.5</sub>Y<sub>0.5</sub>TiO<sub>3</sub> photocatalysts showing activities for overall water splitting and effects of A site substitution (Faculty of Science, Tokyo Univ. of Science) ISHIIHARA, Shogo; JIA, Qingxin; SHIBIYA, Tomohiro; SAITO, Kenji; KUDO, Akihiko
- 2D1-47** Syntheses and photocatalytic properties of silver niobate nanowires (Faculty of Science, Tokyo Univ. of Science) KOGA, Kazunori; SAITO, Kenji; KUDO, Akihiko
- 2D1-48** Syntheses and photocatalytic properties of nanowire-shaped semiconductors with different diameters (Faculty of Science, Tokyo Univ. of Science) SAITO, Kenji; KUDO, Akihiko

Chair: MAEDA, Kazuhiko (17:10~17:50)

- \* 17:00-17:10: interval for laptop PC connection.(2D1-50, 2D1-51, 2D1-52, 2D1-53)
- 2D1-50** Cyanine Dye-Sensitized Layered Perovskite for Hydrogen production from  $\Gamma$  aqueous solution under visible-light irradiation (Okayama Univ.) HAMAMOTO, Mitsuhiro; NISHIMOTO, Shunsuke; KAMESHIMA, Yoshikazu; MIYAKE, Michihiro
- 2D1-51** Photo-decomposition of Water using Porous material sensitized Porphyrin (Kanagawa Univ.) SATO, Konomi; KATAOKA, Yuusuke; MORI, Wasuke
- 2D1-52\*** Dye-sensitized semiconductor photocatalysis for H<sub>2</sub> evolution under

visible light (Tokyo Institute of Technology) ZHAN, Conghong; MOCHIZUKI, Dai; WADA, Yuji

**2D1-53** Synthesis and water photo-reduction reaction of heterobimetallic coordination polymers having catalyst activity site (Kanagawa Univ.) MIYAZAKI, Yuhei; KATAOKA, Yusuke; MORI, Wasuke

## Sunday, March 28, AM

### Photocatalyst

Chair: ICHIKUNI, Nobuyuki (9:20~10:20)

\* 9:10-9:20: interval for laptop PC connection.(3D1-03, 3D1-04, 3D1-05, 3D1-06, 3D1-07, 3D1-08)

**3D1-03** Photoluminescence and photocatalytic properties of platinum complex anchored on mesoporous silicas (Osaka Univ.) WATANABE, Kentaro; KAWASHIMA, Masayoshi; MORI, Kohsuke; YAMASHITA, Hiromi

**3D1-04** Study on selective photooxidation of cyclohexene in the liquid phase under visible light irradiation using an orthovanadate-like ( $V=O$ )<sub>3</sub> species with a porphyrin complex (Kyoto Univ.) SATO, Takashi; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

**3D1-05** Photocatalytic system with Iridium(III) complexes-zeolite nanohybrids (Tokyo Institute of Technology; Graduate School of Science and Engineering) XU, Chen; MOCHIZUKI, Dai; WADA, Yuji

**3D1-06** Study on selective epoxidation using Fe-porphyrin complex and hydrothermal photocatalytic system (Grad. Sch. Eng., Kyoto Univ.) TSUNEOKA, Hideo; IZAWA, Terumichi; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

**3D1-07** Enhancement of photocatalytic activity of Ru complex by the assist of surface plasmon resonance of Ag nanoparticles (Osaka Univ.) MORI, Kohsuke; KAWASHIMA, Masayoshi; YAMASHITA, Hiromi

**3D1-08** Study on Reaction Space of Titanium Oxides and the Supporting Effects of Metal Nanoparticles to Proceed CO Photo-PROX Reaction (Graduate School of Science, Chiba Univ.) MITANI, Yu; IZUMI, Yasuo

Chair: WADA, Yuji (10:30~11:30)

\* 10:20-10:30: interval for laptop PC connection.(3D1-10, 3D1-11, 3D1-12, 3D1-14)

**3D1-10** The gas phase reaction of organic acid and ammonia with Au-supported titanium oxide photocatalyst (Kinki Univ.) YAMAMOTO, Yuuka; AKAMATSU, Kazufumi; IHARA, Tatsuhiko

**3D1-11** Effect of support on the Mo oxide catalysis of propanephoto-oxidation reaction (Chiba Univ.) NAKAO, Yuma; ICHIKUNI, Nobuyuki; HARA, Takayoshi; SHIMAZU, Shogo

**3D1-12\*** Mechanism of photo-oxidation of alcohol over Cu/Nb<sub>2</sub>O<sub>5</sub> (Grad. Sch. Eng., Kyoto Univ.) FURUKAWA, Shinya; TAMURA, Ayaka; MIYATAKE, Toshiaki; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro

**3D1-14\*** Visible-light-induced CO<sub>2</sub> Reduction Utilizing a p-type Semiconductor and the Complex Catalysts (Toyota Central R&D Labs., Inc.) SATO, Shunsuke; SAEKI, Shu; MORIKAWA, Takeshi; KAJINO, Tsutomu; MOTOHIRO, Tomoyoshi

## Sunday, March 28, PM

### Photocatalyst

Chair: AMANO, Fumiaki (14:30~15:30)

\* 14:20-14:30: interval for laptop PC connection.(3D1-34, 3D1-35, 3D1-36, 3D1-37, 3D1-38)

**3D1-34** CO<sub>2</sub> reduction using water as an electron donor over metal oxide photocatalysts with tungsten bronze-type structure. (Faculty of Science, Tokyo Univ. of Science) WATO, Tomoaki; KOJIMA, Yuki; SAITO, Kenji; KUDO, Akihiko

**3D1-35** Reduction of nitrate ions over Zn-based sulfide photocatalysts doped with Ni under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) SANEFUJI, Sayaka; OKA, Marie; KAGA, Hiroshi; SAITO, Kenji; KUDO, Akihiko

**3D1-36** Reductive dechlorination of chlorinated aromatic compound by photocatalytic reaction (Kinki Univ.) FUKU, Koujiro; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

**3D1-37** Study on photodeposition of Rh nanoparticles on various TiO<sub>2</sub> photocatalysts (Grad. Sch. Eng., Kyoto Univ.) YAMAMOTO, Akira; OHYAMA, Junya; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

**3D1-38<sup>#</sup>** Synthesis and Photocatalytic Activity of Perovskite NiobiumOxynitrides for Water Splitting Under Visible Light (Department of Engineering, The Univ. of Tokyo) SIRITANARATKUL, Bhavin; HISATOMI, Takashi; MAEDA, Kazuhiko; KUBOTA, Jun; DOMEN, Kazunari

Chair: TERAMURA, Kentaro (15:30~16:30)

\* 15:20-15:30: interval for laptop PC connection.(3D1-40, 3D1-41, 3D1-42, 3D1-44)

**3D1-40** Study on application of tantalum (oxy)nitride photocatalysts to Z-scheme water splitting (The Univ. of Tokyo) MATOBA, Tamaki; TABATA, Masashi; MAEDA, Kazuhiko; TAKATA, Tsuyoshi; DOMEN, Kazunari

**3D1-41** Investigation of the improvement of photocatalytic activity of LaTiO<sub>2</sub>N for water splitting with visible light (Sch. Eng., The Univ. of Tokyo) NISHIMURA, Naoyuki; MAEDA, Kazuhiko; KUBOTA, Jun; DOMEN, Kazunari

**3D1-42\*** ATR-SEIRAS observation of shift in the Fermi level of Pt cocatalyst on the GaN photocatalyst (The Univ. of Tokyo; Department of Chemical System Engineering) YOSHIDA, Masaaki; YAMAKATA, Akira; KUBOTA, Jun; OSAWA, Masatoshi; DOMEN, Kazunari

**3D1-44<sup>#</sup>** Electron Transfer between Anatase and Rutile Nanoparticles in TiO<sub>2</sub> Studied by Femtosecond Time-resolved Near-IR Spectroscopy (Gakushuin Univ.) CHEN, Tao; IWATA, Koichi

Chair: SAITO, Kenji (16:40~17:30)

\* 16:30-16:40: interval for laptop PC connection.(3D1-47, 3D1-49, 3D1-50, 3D1-51)

**3D1-47\*** Effects of Surface Area on Photocatalytic Activity for Acetaldehyde Decomposition over Metal Oxide Photocatalysts with a Hierarchical Structure (Hokkaido Univ.) AMANO, Fumiaki; NOGAMI, Kohei; OHTANI, Bunsho

**3D1-49** Novel visible-light-responding photocatalyst using absorption due to localized surface plasmon resonance (Kinki Univ.) TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

**3D1-50<sup>#</sup>** Carbon nitride polymers sensitized N-doped tantalum acid for visible-light-induced photocatalytic hydrogen evolution (NIMS) LI, Qiye; KAKO, Tetsuya; YE, Jinhua

**3D1-51** Enhancement of photocatalytic activity of mixed phase AgSbO<sub>3</sub> under visible light irradiation (National Institute for Materials Science) KAKO, Tetsuya; YE, Jinhua

Chair: TAKEUCHI, Masato (17:40~18:40)

\* 17:30-17:40: interval for laptop PC connection.(3D1-53, 3D1-54, 3D1-55, 3D1-57, 3D1-58)

**3D1-53<sup>#</sup>** Photophysical and photocatalytic properties of new silver germanium oxide Ag<sub>2</sub>GeO<sub>3</sub>: effective dye degradations under the irradiation of white fluorescent lamp (NIMS) OUYANG, Shuxin; KIKUGAWA, Naoki; KURACHI, Hirokazu; FUKUDA, Koichiro; YE, Jinhua

**3D1-54** Characterization and improvement of metal ion-titanium oxide photocatalysts responding to visible light (Kinki Univ.) KITANO, Sho; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

**3D1-55\*** Synthesis of titania powders and evaluation of their crystallinity and photocatalytic activity (Nagoya Municipal Ind. Res. Inst.) KAWASE, Satoru; ONO, Satomi

**3D1-57** Photocatalytic activity of TiO<sub>2</sub> nano-networks. (Shinshu Univ.) MATSUMOTO, Shinichi; SUZUKI, Masahiro; HANABUSA, Kenji

**3D1-58** Nitrogen doping of titanium dioxide by the sol-gel method using nitric acid (Shinshu Univ.) FUKASAWA, Yosuke; NISHIKIORI, Hiromasa; YOKOSUKA, Yuta; TENYA, Kenichi; OKI, Kyoichi; TANAKA, Nobuaki; FUJII, Tsuneko

## Monday, March 29, AM

### Photocatalyst

Chair: ABE, Ryu (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4D1-01, 4D1-02, 4D1-03, 4D1-04, 4D1-05, 4D1-06)

**4D1-01** Analysis of photocatalytic reactions utilizing a TiO<sub>2</sub> immobilized microreactor(2) (Dept. Appl. Chem., Chuo Univ.) KATAYAMA, Kenji; ODA, Kazuyo; ISHIZAKA, Yuri; SATO, Toshimitsu; TSUCHIYA, Naomi

**4D1-02** Preparation of Macroporous TiO<sub>2</sub> Thin Films and Their Applications for Photocatalytic Degradation of Organic Pollutants (Osaka Univ.) KAMEGAWA, Takashi; SUZUKI, Norihiko; YAMASHITA, Hiromi

**4D1-03** Preparation and Characterization of TiO<sub>2</sub>/PDMS Composite Thin Film (Kanagawa Academy of Science and Technology) KIMURA, Hiroaki; NAKATA, Kazuya; OCHIAI, Tsuyoshi; SAKAI, Hideki; MURAKAMI, Taketoshi; ABE, Masahiko; FUJISHIMA, Akira

**4D1-04** Separate evolution of H<sub>2</sub> and O<sub>2</sub> from water on double-layered visible light-responsive TiO<sub>2</sub> thin films prepared by a magnetron sputtering deposition method (Graduate School of Engineering, Osaka Pref. Univ.) TODE, Ryohei; TAKEUCHI, Masato; MATSUOKA, Masaya; ANPO, Masakazu

**4D1-05** Photoelectrochemical properties of CuGaSe<sub>2</sub> (Department of Engineering, The Univ. of Tokyo) MORIYA, Makoto; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari

**4D1-06** Photoelectrochemical water splitting using Cu<sub>2</sub>ZnSnS<sub>4</sub> (CZTS) thin films (The Univ. of Tokyo; Nagaoka National College of Technology) YOKOYAMA, Daisuke; MINEGISHI, Tsutomu; JIMBO, Kazuo; MAEDA, Kazuhiko; KATAYAMA, Masao; KUBOTA, Jun; KATAGIRI, Hironori; DOMEN, Kazunari

Chair: IKEDA, Shigeru (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4D1-08, 4D1-09, 4D1-10, 4D1-11, 4D1-12, 4D1-13)

**4D1-08** Research on water splitting by WO<sub>3</sub> thin film photoelectrode catalyst under simulated solar light (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) MEGURO, Masahiro;



YAMAGUCHI, Takeshi; ARAKAWA, Hironori

- 4D1-09** Research on water splitting by  $\text{Ca}_{1-x}\text{Bi}_x\text{V}_x\text{Mo}_{1-x}\text{O}_4$  derivative thin film photoelectrode catalyst under visible light irradiation (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) KUROSAWA, Takashi; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 4D1-10** Water photoelectrolysis by  $\text{TiO}_2$  nanotube and nanorod photoelectrode catalyst prepared by anodic oxidation of Ti foil. (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) MATSUMOTO, Takumi; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 4D1-11** Synthesis and photoelectrochemical property of  $\text{LaTiO}_2\text{N}$  thin film electrode (Sch. Eng., The Univ. of Tokyo) TAKATA, Tsuyoshi; DOMEN, Kazunari
- 4D1-12** Photoelectrochemical properties of  $\text{Cu}_{2x}\text{Ag}_{2-2x}\text{ZnGeS}_4$  (Faculty of Science, Tokyo Univ. of Science) AOYAMA, Tetsuji; KAGA, Hiroshi; SAITO, Kenji; KUDO, Akihiko
- 4D1-13** Photocatalytic and photoelectrochemical properties of co-substituted bismuth vanadate photocatalyst prepared by polymerized complex method (Faculty of Science, Tokyo Univ. of Science) JIA, Qingxin; SAITO, Kenji; KUDO, Akihiko

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

- \* 11:10-11:20: interval for laptop PC connection.(4D1-15, 4D1-16, 4D1-17, 4D1-18, 4D1-19)
- 4D1-15** Enhanced Photocatalytic Activity of GaN-ZnO Solid Solution for Overall Water Splitting by Co-loading  $\text{O}_2$  and  $\text{H}_2$  Evolution Cocatalysts (The Univ. of Tokyo; Univ. of Tsukuba) XIONG, Anke; YOSHINAGA, Taizo; IKEDA, Takahiro; KANEHARA, Masayuki; MAEDA, Kazuhiko; TERANISHI, Toshiharu; DOMEN, Kazunari
- 4D1-16** Photocatalytic properties of  $\text{NaNbO}_3$  doped with transition metals prepared by soft-process under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) IWASHINA, Katsuya; NAKAZAWA, Ryoma; SAITO, Kenji; KUDO, Akihiko
- 4D1-17** Overall water splitting by Z-scheme photocatalyst composing of  $\text{BiVO}_4$  prepared by a hydrothermal method (Faculty of Science, Tokyo Univ. of Science) ISHIGURO, Yoshimi; SASAKI, Yasuyoshi; SAITO, Kenji; KUDO, Akihiko
- 4D1-18** Study on copper gallium sulfide as a photocatalyst for water splitting (The Univ. of Tokyo) TABATA, Masashi; ISHIHARA, Takahiro; MAEDA, Kazuhiko; TAKATA, Tsuyoshi; DOMEN, Kazunari
- 4D1-19** Preparation and photocatalytic activity of Kesterite-like sulfides (Research Center for Solar Energy Chemistry, Osaka Univ.) NAKAMURA, Takayuki; HARADA, Takashi; IKEDA, Shigeru; MATSUMURA, Michio

## Room D2

Bldg.20 20-006

### Catalysts and Catalysis

Friday, March 26, PM

#### Structure • Physivcality • Calaculation

Chair: HIGASHIMOTO, Shinya (14:00~15:00)

- \* 13:50-14:00: interval for laptop PC connection.(1D2-31, 1D2-32, 1D2-33, 1D2-35)
- 1D2-31** Consideration of  $\text{TiO}_2(110)$  surface / CO adsorption system by Hybrid DFT calculation (Kyoto Institute of Technology) SATO, Masaki; OKADA, Arifumi; ISHIKAWA, Yo-ichi
- 1D2-32** Theoretical studies on acid catalyzed reactions over NbMo oxide (Dept. of Chemical System Engineering, The Univ. of Tokyo) NIKAIIDOU, Fumiya; USHIYAMA, Hiroshi; YAMASHITA, Koich
- 1D2-33<sup>††</sup>** Theoretical Study of the Decomposition and Hydrogenation of  $\text{H}_2\text{O}_2$  to Water on Pd and Pd/Au Surfaces (IMCE Kyushu Univ.) LI, Jun; STAYKOV, Aleksandar; ISHIHARA, Tatsumi; YOSHIZAWA, Kazunari
- 1D2-35<sup>††</sup>** Characterization of Pt Species Deposited on and in Organic Molecular Layers by Polarization-Dependent Total Reflection Fluorescence XAFS (Graduate School of Science, Department of Chemistry, Hokkaido Univ.; Catalysis Research center, Hokkaido Univ.; Division of Natural Sciences, International Christian Univ.; Graduate School of Humanities and Sciences, Ochanomizu Univ.) FUKUMITSU, Hitoshi; MASUDA, Takuya; TAKUSAGI, Satoru; CHUN, Wang-jae; KONDO, Toshihiro; ASAKURA, Kiyotaka; UOSAKI, Kohei

Chair: SHISHIDO, Tetsuya (15:10~16:10)

- \* 15:00-15:10: interval for laptop PC connection.(1D2-38, 1D2-40, 1D2-41, 1D2-42, 1D2-43)
- 1D2-38<sup>††</sup>** The kinetic analysis of the segregation process of Platinum-tin alloy nanoparticles under the oxidative conditions based on time-resolved in situ DXAFS experiments (KEK-PF) UEMURA, Yohei; INADA, Yasuhiro; TADA, Mizuki; EGUCHI, Koichi; YAGISHITA, Akira; NOMURA,

Masaharu; IWASAWA, Yasuhiro

- 1D2-40<sup>†</sup>** XAFS and STM Studies of the Homogeneous Rh Species on Alumina Surface from Rh Dimer Precursor (Univ.Osaka; ICU) CHEN, Zhiwen; CHUN, Wangjae; FUKUI, Ken-ichi
- 1D2-41** Preparation of supported Ni catalyst using colloidal Ni(0)particles and its application to water gas shift reaction. (Chiba Univ.) NAGANUMA, Jun; ICHIKUNI, Nobuyuki; HARA, Takayoshi; SHIMAZU, Shogo
- 1D2-42** In-situ time-resolved Raman spectroscopy of supported vanadium catalysts for selective ethanol oxidation (The Univ. of Tokyo; IMS) ISHIGURO, Nozomu; OHKOSHI, Shin-ichi; TADA, Mizuki
- 1D2-43** Synthesis of Gallium-Aluminum Dawsonites and Their Crystal Structures. (Kyoto Univ.; The Kansai Electric Power Company) WATANABE, Tsunenori; HOSOKAWA, Saburou; MIKI, Yoshihisa; DEGUCHI, Hiroshi; KANAI, Hiroyoshi; INOUE, Masashi

### hydrogenation • Dehydrogenation

Chair: NAKAGAWA, Yoshinao (16:20~17:10)

- \* 16:10-16:20: interval for laptop PC connection.(1D2-45, 1D2-47, 1D2-49)
- 1D2-45\*** Selective hydrogenation of nitrobenzene to aniline over gold nanoparticles supported on tungsten oxide (Tokyo Metropolitan Univ.; JST, CREST) OHASHI, Hironori; ISHIDA, Tamao; TAKEI, Takashi; HARUTA, Masatake
- 1D2-47\*** Chemoselective Reduction of Nitroaromatics Using Hydrothermalite-supported Ag Nanoparticle Catalyst (Osaka Univ.) MIKAMI, Yusuke; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 1D2-49** Hydroxyapatite-Supported Pd nanoparticle Catalyst for Selective Hydrogenation of Quinolines (Osaka Univ.) TAKAHASHI, Yuusuke; HASIMOTO, Norifumi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

Chair: MITSUDOME, Takato (17:20~18:10)

- \* 17:10-17:20: interval for laptop PC connection.(1D2-51, 1D2-53, 1D2-54, 1D2-55)
- 1D2-51\*** Reaction mechanism of hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol over  $\text{Rh-ReO}_x/\text{SiO}_2$  (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) KOSO, Shuichi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 1D2-53** Production of propanol by the 1,2-propanediol hydrogenolysis over  $\text{Rh-ReO}_x/\text{SiO}_2$  catalysts (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) AMADA, Yasushi; KOSO, Syuichi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 1D2-54** Characterization of catalytically active Mo-carbide species on H-MFI for methane dehydroaromatization by Mo L-edge XANES (Saitama Institute of Technology; Tosoh Co.Ltd) ARITANI, Hirofumi; ISOZUMI, Yukihiko; DOI, Takao; ASAKAWA, Tetsuo
- 1D2-55** Iron carbide formation in the Fischer-Tropsch synthesis over iron-based catalyst (Kansai Univ.) NISHINA, Takamasa; IKENAGA, Na-oki; MIYAKE, Takanori; SUZUKI, Toshimitsu

Saturday, March 27, AM

### Decomposition • Reforming • Desulfurization

Chair: MATSUOKA, Masaya (9:00~9:40)

- \* 8:50-9:00: interval for laptop PC connection.(2D2-01, 2D2-03, 2D2-04)
- 2D2-01\*** Oxidative reforming of  $n\text{-C}_4\text{H}_{10}$  triggered from ambient temperature (8) (Fac. Eng, Oita Univ.) SATO, Katsutoshi; NAGAOKA, Katsutoshi; NISHIGUCHI, Hiroyasu; TAKITA, Yusaku
- 2D2-03** Production of syn-gas from  $\text{CH}_4$  using lattice oxygen of Fe-Cr complex oxides (Department of Chemical, Energy and Environment Engineering, Kansai Univ.) OKAMOTO, Na-oya; IKENAGA, Na-oki; MIYAKE, Takanori; SUZUKI, Toshimitsu
- 2D2-04** Improvement of cold start conditions of oxidative steamreforming of methanol (Department of Material and Environmental Chemistry, Utsunomiya Univ.) YAMAMOTO, Masaharu; SASAKI, Yuya; SATO, Takafumi; ITOH, Naotsugu

Chair: IKENAGA, Naoki (9:50~10:30)

- \* 9:40-9:50: interval for laptop PC connection.(2D2-06, 2D2-07, 2D2-08, 2D2-09)
- 2D2-06** Ethanol oxidative steam reforming over supported Ni catalysts triggered at low temperature (Fac. Eng, Oita Univ.) KAWANO, Kousuke; ITO, Akiko; SATO, Katsutoshi; NAGAOKA, Katsutoshi; NISIGUTI, Hiroyasu; TAKITA, Yusaku
- 2D2-07** Hydrogen production from the gasification of lignin over Spinel-type oxide supported nickel catalysts in supercritical water (Oita Univ.) AKAGI, Yuya; ADACHI, Kenji; NAGAOKA, Katsutoshi; NISHIGUCHI, Hiroyasu; TAKITA, Yusaku
- 2D2-08** Steam reforming of biomass-derived tar over Ni-Fe: catalyst characterization (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) WANG, Lei; KOIKE, Mitsuru; KOSO, Shuichi; LI, Dalin; TOMISHIGE, Keiichi
- 2D2-09** Hydrothermal gasification on novel carbon supported Ni catalysts

prepared using a sol-gel method (Grad. Sch. Eng., Mie Univ.) ISHIIHARA, Atsushi; AOKI, Hitoshi; IMAI, Tatsuya; HASHIMOTO, Tadanori; NASU, Hiroyuki

## Mesoporous Materials

Chair: YOSHITAKE, Hideaki (10:40~11:20)

- \* 10:30-10:40: interval for laptop PC connection.(2D2-11, 2D2-12, 2D2-13)  
**2D2-11** Effects of Pore Diameter and Size of Substrates on Catalytic Activity of MCM-41 in Dimerization of Styrene Derivatives (Chemical Resources Laboratory, Tokyo Institute of Technology) ITO, Yuji; YAMAMURA, Taizo; ISHITANI, Haruro; IWAMOTO, Masakazu  
**2D2-12** Change in the states of copper ions and catalytic activity with the pore structure and the amount of Al of mesoporous silica (Chemical Resources Laboratory, Tokyo Institute of Technology) TAKENAKA, Kumi; TANAKA, Masashi; ISHITANI, Haruro; IWAMOTO, Masakazu  
**2D2-13\*** Synthesis and catalytic application of Ti-containing mesoporous silica nanospheres (Chemical Resources Laboratory, Tokyo Institute of Technology) YOKOI, Toshiyuki; KAROUJI, Takumi; IMAI, Hiroyuki; NOMURA, Junko; TATSUMI, Takashi

## Saturday, March 27, PM

### Organic Synthesis • Polymerization

Chair: WADA, Kenji (13:00~13:50)

- \* 12:50-13:00: interval for laptop PC connection.(2D2-25, 2D2-26, 2D2-27, 2D2-28)  
**2D2-25** Stereocontrol factors in enantioselective hydrogenation of tiglic acid with cinchona-modified Pd/C catalyst (Univ. of Hyogo) TOMATSURI, Satoshi; UCHIDA, Takayuki; SUGIMURA, Takashi  
**2D2-26** Requirement for the modifier structure in the enantioselective hydrogenation with Pd catalyst (Univ. of Hyogo) SANO, Yoshie; SUGIMURA, Takashi  
**2D2-27** Aerobic Oxidative Homocoupling of Terminal Alkyne by a Supported Copper Hydroxide Catalyst (Sch. Eng., The Univ. of Tokyo) OISHI, Takamichi; YAMAGUCHI, Kazuya; MIZUNO, Noritaka  
**2D2-28\*** 1,3-Dipolar Cycloaddition of Organic Azides to Terminal Alkynes by a Supported Copper Hydroxide Catalyst (School of Engineering, The Univ. of Tokyo) YAMAGUCHI, Kazuya; OISHI, Takamichi; MIZUNO, Noritaka

Chair: TSUKAHARA, Yasunori (14:00~14:50)

- \* 13:50-14:00: interval for laptop PC connection.(2D2-31, 2D2-32, 2D2-33, 2D2-34)  
**2D2-31** Ru/CeO<sub>2</sub>-catalyzed codimerization of alkynes with acrylic compounds (Kyoto Univ.) MIURA, Hiroki; WADA, Kenji; HOSOKAWA, Saburo; INOUE, Masashi  
**2D2-32** Development of P-modified Ru/CeO<sub>2</sub> Catalysts Effective for the Regioselective Addition of Carboxylic Acids to Alkynes (Grad. Sch. Eng., Kyoto Univ.) NISHIUMI, Masami; MIURA, Hiroki; WADA, Kenji; HOSOKAWA, Saburo; INOUE, Masashi  
**2D2-33\*** Efficient Synthesis of Tertiary and Secondary Amines from Alcohols and Urea by a Supported Ruthenium Hydroxide Catalyst (Sch. Eng., The Univ. of Tokyo) HE, Jinling; YAMAGUCHI, Kazuya; MIZUNO, Noritaka  
**2D2-34\*** Catalyses of Proton-Exchanged Montmorillonite for Allylsilylation of Alkenes Using Allylsilanes (Tokyo Institute of Technology) MOTOKURA, Ken; MATSUNAGA, Shigekazu; MIYAJI, Akimitsu; BABA, Toshihide

Chair: SUGIMURA, Takashi (15:00~15:40)

- \* 14:50-15:00: interval for laptop PC connection.(2D2-37, 2D2-39, 2D2-40)  
**2D2-37\*** Oxidation of Organosilanes to Silanols with Hydrogen Peroxide Catalyzed by Lacunary Polyoxotungstate (School of Engineering, The Univ. of Tokyo; CREST, JST) ISHIMOTO, Ryo; KAMATA, Keigo; MIZUNO, Noritaka  
**2D2-39** Preparation and Catalytic Activities of Pd-Ag Catalyst on Inorganic Mesoporous Materials (Osaka Pref. Univ.) KANEKO, Norihisa; SATO, Masaaki  
**2D2-40** Acceleration in microwave-assisted organic reactions with heterogeneous catalysts (Tokyo Institute of Technology) OHTA, Soshi; CHONAN, Satoshi; TANAHASHI, Toshiki; MOCHIZUKI, Dai; YMAUCHI, Tomohisa; TSUKAHARA, Yasunori; WADA, Yuji

### Oxidation

Chair: ICHIHASHI, Yuichi (15:50~16:30)

- \* 15:40-15:50: interval for laptop PC connection.(2D2-42, 2D2-43, 2D2-45)  
**2D2-42<sup>†</sup>** Methacrolein oxidation over molybdovanadophosphoric acid supported on silica treated with ammonia at high temperature. (Hokkaido Univ.) KANNO, Mitsuru; YASUKAWA, Toshiya; NINOMIYA, Wataru; OYACHI, Ken; KAMIYA, Yuichi  
**2D2-43\*** Aerobic Alcohol Oxidation in Aqueous Solution Catalyzed by the Hybrid of Polyaniline Sulfonic Acid and Au Nanoparticles (Osaka Univ.) SAIO, Daisuke; AMAYA, Toru; HIRAO, Toshikazu  
**2D2-45** Dehydrogenative Lactonization of Diols under Liquid-phase Conditions using Hydrotalcite-supported Copper Nanoparticle Catalyst (Osaka

Univ.) EBATA, Kaori; MIKAMI, Yusuke; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

Chair: OUMI, Yasunori (16:40~17:10)

- \* 16:30-16:40: interval for laptop PC connection.(2D2-47, 2D2-48, 2D2-49)  
**2D2-47** Development of Novel Catalyst System for Oxidation of Internal Olefins Using Water as an Oxygen Source (Osaka Univ.) MIZUMOTO, Keiichi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi  
**2D2-48** Development of catalysts effective for epoxidation of propylene in the presence of H<sub>2</sub>. (Oita Univ.) MOCHIDA, Tatsuya; MATSUO, Naofumi; NISHIGUCHI, Hiroyasu; NAGAOKA, Katsutoshi; ISHIIHARA, Tatsumi; TAKITA, Yusaku  
**2D2-49** DRIFT study of Rh-CeO<sub>2</sub>/MgO catalysts for the catalytic partial oxidation of methane (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SAKAI, Shigemasa; TANAKA, Hisanori; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi

## Sunday, March 28, AM

### Complex • Cluster

Chair: INUMARU, Kei (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3D2-01, 3D2-02, 3D2-04, 3D2-05, 3D2-06)  
**3D2-01** Investigation of reaction mechanism of complex catalyst with *in situ* time-resolved XAFS and factor analysis (Kyoto Univ.; KUPRU) ASAKURA, Hiroyuki; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro  
**3D2-02\*** Catalysis of Rh-porphyrin complexes adsorbed on active carbon for Preferential CO oxidation (Osaka Univ.; SORST(JST)) YAMADA, Yusuke; YAMAZAKI, Shinichi; FUKUZUMI, Shunichi  
**3D2-03** Synthesis and catalytic application of shape controlled nickel hydroxide with silica shell (AIST) ARANISHI, Kengo; YAMADA, Yusuke; UMEGAKI, Tetsuo; XU, Qiang; KURIYAMA, Nobuhiro  
**3D2-05** Catalytic Ability for Oxygen Reduction of Precise Bimetallic Nanoparticle Consisting of Platinum and Another Metal (Keio Univ.; International Christian Univ.) SONOI, Atsunori; IMAOKA, Takane; CHUN, Wang Jae; YAMAMOTO, Kimihisa  
**3D2-06** Catalysis of Cu/Co<sub>3</sub>O<sub>4</sub> Nanoparticles for Hydrogen Evolution from Ammonia Borane (Osaka Univ.; SORST(JST)) YANO, Kentaro; YAMADA, Yusuke; XU, Qiang; FUKUZUMI, Shunichi

Chair: TADA, Mizuki (10:10~11:00)

- \* 10:00-10:10: interval for laptop PC connection.(3D2-08, 3D2-09, 3D2-10, 3D2-11, 3D2-12)  
**3D2-08** Photocatalytic Hydrogen Evolution with Different Shape and Size of Metal Nanoparticles (Osaka Univ.) HANAZAKI, Ryo; KOTANI, Hiroaki; OHKUBO, Kei; YAMADA, Yusuke; FUKUZUMI, Shunichi  
**3D2-09** Hydrogen production from water by using hexa-nuclear Mo cluster compounds under photo irradiation and their mesoporous silica - composites. (Grad. Sch. Eng., Hiroshima Univ.) KANDA, Taiki; INUMARU, Kei; YAMANAKA, Shoji  
**3D2-10** Development of One-compartment H<sub>2</sub>O<sub>2</sub> fuel cell using Ag alloy nanoparticles as a cathode catalyst (Osaka Univ.; SORST(JST)) FUKUNISHI, Yurie; YAMADA, Yusuke; YAMAZAKI, Shinichi; FUKUZUMI, Shunichi  
**3D2-11** Catalytic Reactivity of CpRu<sup>+</sup>ph Complex Incorporated within HMM-ph by the ligand exchange method (Graduate School of Engineering, Osaka Pref. Univ.) WATANABE, Tetsuji; UCHIHARA, Kazuhiro; SAITOH, Masakazu; KAMEGAWA, Takashi; MATSUOKA, Masaya; ANPO, Masakazu  
**3D2-12** Incorporation of arene-M(CO)<sub>3</sub> (M = Cr, Mo) complexes within metal-organic framework (MOF) by chemical vapor deposition method and their catalytic properties (Graduate School of Engineering, Osaka Pref. Univ.) UEDA, Kozo; SAITO, Masakazu; KAMEGAWA, Takashi; MATSUOKA, Masaya; ANPO, Masakazu

Chair: MOTOKURA, Ken (11:10~11:50)

- \* 11:00-11:10: interval for laptop PC connection.(3D2-14, 3D2-15, 3D2-17)  
**3D2-14** Preparation of Pt/CeO<sub>2</sub>/zeolite catalyst using a photo-assisted deposition method and evaluation of catalytic activity (Osaka Univ.) GOTO, Masahiko; SHIRONITA, Sayoko; KAMEGAWA, Takashi; MORI, Kohsuke; YAMASHITA, Hiromi  
**3D2-15\*** Methane steam reforming on Ni-supported CZ solid-solution catalysts (IMS; Univ. of Electro-Comm.) TADA, Mizuki; MALWADKAR, Sachin; IWASAWA, Yasuhiro  
**3D2-17** Preparation of supported Ir-dimer catalysts and performances for transfer hydrogenation of aromatic ketones (The Univ. of Tokyo; IMS; Kanazawa Univ.) KUSHIDA, Yuko; MURATSUGU, Satoshi; NAKAI, Hidetaka; ISOBE, Kiyoshi; SASAKI, Takehiko; TADA, Mizuki

Sunday, March 28, PM

## Preparation Method

Chair: MORI, Kohsuke (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(3D2-34, 3D2-36, 3D2-38)
- 3D2-34**\*# Preparation of molecularly-imprinted Ru catalysts for asymmetric transfer hydrogenation in water (IMS; Univ. Electro-commun.) WENG, Zhihuan; MURATSUGU, Satoshi; IWASAWA, Yasuhiro; TADA, Mizuki
- 3D2-36**\* Surfacter design of a molecularly-imprinted Ru catalyst for regioselective epoxidation of limonene (IMS) MURATSUGU, Satoshi; YANG, Yong; TADA, Mizuki
- 3D2-38**\* Pore-structure of aluminas prepared by solvothermal reaction of aluminum alkoxide (Grad. Sch. Eng., Kyoto Univ.) KIM, Sung-wook; INOUE, Masashi

Chair: MITSUDOME, Takato (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(3D2-41, 3D2-42, 3D2-43, 3D2-44, 3D2-45)
- 3D2-41** Nano-sized Titanium Nitride Catalysts prepared by mpg-C<sub>3</sub>N<sub>4</sub> for PEFC Cathode (Department of Chemical System Engineering, School of Engineering, The Univ. of Tokyo) CHEN, Jia; TAKANABE, Kazuhiro; KUBOTA, Jun; DOMEN, Kazunari
- 3D2-42** Synthesis and catalytic application of supported Au clusters with controlled size (CRC, Hokkaido Univ.; AIST; CREST, JST) LIU, Yongmei; TSUNOYAMA, Hironori; AKITA, Tomoki; TSUKUDA, Tatsuya
- 3D2-43** Synthesis of pH-responsible Ag Nanoparticles and Size-control of Supported Metal Catalyst (Osaka Univ.) KUMAMI, Akihito; MORI, Kohsuke; YAMASHITA, Hiromi
- 3D2-44** Microwave-assisted organic functionalization of silica gel using arylsilanes as silane coupling reagents (AIST; Meiji Univ.) FUKAYA, Norihisa; HISATO, Haga; TSUCHIMOTO, Teruhisa; ONOZAWA, Shunya; YAMASHITA, Hiroshi; KOBASHI, Hiroko; SAKAKURA, Toshiyasu; YASUDA, Hiroyuki
- 3D2-45** Direct deposition of Cu-ZnO nanoparticles on the channel of microreactor and investigation of catalyst activity (IMRAM, Tohoku Univ.) YAGIHASHI, Noritoshi; NAKAYA, Masafumi; KANIE, Kiyoshi; MURAMATSU, Atsushi

Chair: TUKUDA, Tatsuya (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(3D2-47, 3D2-48, 3D2-49, 3D2-50, 3D2-51)
- 3D2-47** Synthesis and morphology control of novel organic-inorganic composites by polymerization in pores of bimodal porous silica (Ehime Univ.) KODANI, Yumi; TAKAHASHI, Ryouji; YAMADA, Ikuya; KAWAMOTO, Daisuke; SHIMIZU, Yuki
- 3D2-48** Synthesis of novel organic-inorganic composites with ion-exchange capacity (Ehime Univ.) KAWAMOTO, Daisuke; TAKAHASHI, Ryouji; YAMADA, Ikuya; KODANI, Yumi; SHIMIZU, Yuki
- 3D2-49** Development of Well-crystallized Hydrotalcite-supported Ru Catalyst for Highly Efficient Oxidation of Alcohols (Osaka Univ.) SEKI, Takahiro; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3D2-50** Dendrimer-encapsulated subnano Pd cluster catalysts using polyamine dendrimers functionalized with polybenzylether dendrons (Osaka Univ.) KIBATA, Takayuki; MAENO, Zen; MINAMI, Shigekazu; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3D2-51** Preparation of Bimodal Porous Ni/TiO<sub>2</sub> Catalysts for hydrogenation reaction (Graduate School of Science and Engineering, Ehime Univ.) NUMATA, Masayuki; TAKAHASHI, Ryouji; YAMADA, Ikuya

Room D3

Bldg.20 20-003

## Bifunctional Chemistry ; Biotechnology

Friday, March 26, PM

## Nucleic Acids

Chair: OKAMOTO, Itaru (13 : 00~14 : 10)

- \* 12:50-13:00: interval for laptop PC connection.(1D3-25, 1D3-26, 1D3-27, 1D3-28, 1D3-29, 1D3-30, 1D3-31)
- 1D3-25** Synthesis and properties of 2'-O-cyanoethyluridine derivatives (Tokyo Institute of Technology) MIYASAKA, Ryuta; MASAKI, Yoshiaki; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 1D3-26** Triplex forming oligodeoxynucleotides (TFOs) incorporating artificial bases recognizing the 5-modified pyrimidines in DNA duplexes (Tokyo

Institute of Technology) KANAMORI, Takashi; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji

- 1D3-27** Solid-phase synthesis of stereoregular oligoribonucleosidephosphorothioates by using 2'-O-CEM-protected oxazaphospholidine monomers. (The Univ. of Tokyo; Frontier Sciences) NUKAGA, Yohei; YAMADA, Kohei; OGATA, Toshihiko; WADA, Takeshi
- 1D3-28** Synthesis and properties of ribonucleoside *H*-boranophosphonates (The Univ. of Tokyo) HIURA, Shingo; HIGASHIDA, Renpei; OKA, Natsuhisa; WADA, Takeshi
- 1D3-29** Molecular design of the linker of introducing functional molecule towards improvement of the function of modified DNA (Graduate School of Engineering, Nagoya Univ.) SONODA, Takashi; LIANG, Xingguo; ASANUMA, Hiroyuki
- 1D3-30** Development of artificial nucleic acid analogs with non-natural linkers (1) Construction of functional nucleic acids through threoninol backbone (Nagoya Univ.) TODA, Takasuke; KASHIDA, Hiromu; LIANG, Xingguo; ASANUMA, Hiroyuki
- 1D3-31** Development of artificial nucleic acid analogs with non-natural linkers (2) Chirality control by sequence design of Serinol Nucleic Acids (Nagoya Univ.) KASHIDA, Hiromu; MURAYAMA, Keiji; TODA, Takasuke; ASANUMA, Hiroyuki

Chair: WADA, Takeshi (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(1D3-33, 1D3-34, 1D3-35, 1D3-36, 1D3-37, 1D3-38)
- 1D3-33** Synthesis and Properties of Oligonucleotides Containing 2'-O-(4-aminobutyl)carbamoyl Group (Tokyo Institute of Technology) SEIO, Kohji; TOKUGAWA, Munefumi; ISE, Misako; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEKINE, Mitsuo
- 1D3-34** Synthesis of morpholino nucleic acids containing modified nucleobases that have high base recognition abilities. (TIT) HARAKAWA, Taro; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 1D3-35** Synthesis and properties of oligonucleotides containing 4-thioseoudouridines (Tokyo Institute of Technology) CAO, Shioi; HATTORI, Yusaku; OKAMOTO, Itaru; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 1D3-36** Synthesis and properties of oligonucleotides modified with m3G-cap and its analogs (Tokyo Institute of Technology) YAMADA, Ken; YOKOUCHI, Akira; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 1D3-37**<sup>†</sup> Development of antisense oligonucleotide to inhibit expression of PCSK9 gene for the treatment of hypercholesterolemia (Tokyo Univ. of Sci.; Osaka Univ.; Natl. Cardiovas. Ctr. Res. Int.) SASAKI, Kiyomi; NARUKAWA, Keisuke; YAMAMOTO, Tsuyoshi; SHIBA, Mariko; WADA, Shunsuke; SATO, Norihiro; YAMAOKA, Tetsuji; IMANISHI, Takeshi; OBIKA, Satoshi; TORIGOE, Hidetaka
- 1D3-38** Evaluation and design of Decoy DNA against SATB1 (Kyoto Inst. Tech.) YAMAYOSHI, Asako; YASUHARA, Mariko; GALANDE, Sanjeev; KOBORI, Akio; MURAKAMI, Akira

Chair: YAMAYOSHI, Asako (15 : 30~16 : 10)

- \* 15:20-15:30: interval for laptop PC connection.(1D3-40, 1D3-41, 1D3-42, 1D3-43)
- 1D3-40** Synthesis and Triplex Formation of Oligonucleotides Containing 8-thioxo-Inosine (Department of Life Science, Tokyo Institute of Technology) KAKISHIMA, Yuki; OHKUBO, Akihiro; TSUNODA, Hirosuke; SEIO, Kohji; SEKINE, Mitsuo
- 1D3-41** Mutagenesis-based study on triplex DNA recognition mechanism of yeast triplex DNA binding protein STM1 (Tokyo Univ. of Sci.) SATO, Norihiro; KATAYAMA, Takuma; SASAKI, Kiyomi; TORIGOE, Hidetaka
- 1D3-42** Site-selective recognition of double-stranded DNA by PNA-polyamide conjugate (RCAT, The Univ. of Tokyo) KAMESHIMA, Wataru; ISHIZUKA, Takumi; MINOSHIMA, Masafumi; XU, Yan; SUGIYAMA, Hiroshi; KOMIYAMA, Makoto
- 1D3-43** Synthesis and properties of 2,7-diamino-1,8-naphtyridine derivatives (ISIR, Osaka Univ.) MATSUNAGA, Shizuka; TAKEI, Fumie; NAKATANI, Kazuhiko

Chair: BANDO, Toshikazu (16 : 20~17 : 20)

- \* 16:10-16:20: interval for laptop PC connection.(1D3-45, 1D3-47, 1D3-48, 1D3-49)
- 1D3-45**\* Development of a new method for pyrophosphate bond formation using phosphoramidite derivatives (Tokyo Institute of Technology, Department of Life Science) OHKUBO, Akihiro; NISHINO, Yuda; TSUNODA, Hirosuke; SEIO, Kohji; SEKINE, Mitsuo
- 1D3-47**<sup>†</sup> Construction of the asymmetric dye-clusters by using Threoninol Nucleotides as a scaffold (Nagoya Univ.) FUJII, Taiga; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 1D3-48** Regulation of novel dye-cluster by RNA hybridization. (Nagoya Univ.) URUSHIHARA, Masaaki; FUJII, Taiga; ITO, Hiroshi; KASHIDA, Hiromu; LIANG, Xingguo; ASANUMA, Hiroyuki
- 1D3-49**\*# Synthesis and properties of oligonucleotides modified with chemically stable acyl groups (Tokyo Institute of Technology) YAMADA, Ken; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo

Chair: SEIO, Kohji (17 : 30~18 : 30)

\* 17:20-17:30: interval for laptop PC connection.(1D3-52, 1D3-53, 1D3-54, 1D3-55, 1D3-56, 1D3-57)

**1D3-52** Properties of DNA duplexes containing 4-N-alkylated cytosine base pairs. (Kanagawa Univ.) SAWADA, Kaori; OKAMOTO, Itaru; ONO, Akira

**1D3-53** Effect of molecular environments on the behaviors of biomolecules (7) Quantitative analysis of DNA G-quadruplex with abasic sites in loop regions (FIRST, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) FUJIMOTO, Takeshi; MIYOSHI, Daisuke; TATEISHI, Hisae; SUGIMOTO, Naoki

**1D3-54** Effect of molecular environments on the behaviors of biomolecules(8) Thermodynamic analysis of three way junction structure of RNA under molecular crowding condition (FIRST, Konan Univ.; FIBER, Konan Univ.) MIMURA, Kenta; SANJUKTA, Muhuri; MIYOSHI, Daisuke; SUGIMOTO, Naoki

**1D3-55** Effect of molecular environments on the behaviors of biomolecules(4) Molecular size dependence of DNA immobilization on surface (FIBER, Konan Univ.; FIRST, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.) KOBAYASHI, Katsuaki; ONO, Ryoya; TSUTSUI, Ken; WADA, Yasuo; SUGIMOTO, Naoki

**1D3-56** Effect of molecular environments on the behaviors of biomolecules(5) Control of DNA transcription activity by surface environment around self-assembled monolayer (FIRST, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) ONO, Ryoya; KOBAYASHI, Katsuaki; TSUTSUI, Ken; WADA, Yasuo; SUGIMOTO, Naoki

**1D3-57** Effect of molecular environments on the behaviors of biomolecules(6) Nucleic acid immobilization on surface aimed for protein expression (FIRST, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) KAWASAKI, Yu; KOBAYASHI, Katsuaki; TSUTSUI, Ken; WADA, Yasuo; SUGIMOTO, Naoki

## Saturday, March 27, AM

### Nucleic Acids

Chair: FUJIMOTO, Kenzo (9 : 10 ~10 : 00)

\* 9:00-9:10: interval for laptop PC connection.(2D3-02, 2D3-03, 2D3-04, 2D3-05)

**2D3-02** Synthesis and hybridization properties of oligonucleotides incorporating 2-thiocytidine derivatives (Tokyo Institute of Technology) OHKUBO, Akihiro; NISHINO, Yuudai; TSUNODA, Hirotsuke; SEIO, Kohji; SEKINE, Mitsuo

**2D3-03** Effect of molecular environments on the behaviors of biomolecules (1) The hammerhead ribozyme activity in the presence of anionic biomolecules (FIRST, Konan Univ.; FIBER, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.) KITAGAWA, Yuichi; NAKANO, Shu-ichi; SUGIMOTO, Naoki

**2D3-04** Effect of molecular environments on the behaviors of biomolecules (2) Evaluation of cation binding with RNA in the presence of PEG (FIRST, Konan Univ.; FIBER, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.) HIRAYAMA, Hidenobu; NAKANO, Shu-ichi; SUGIMOTO, Naoki

**2D3-05\*** Effect of molecular environments on the behaviors of biomolecules (3) Molecular environment effects on DNA and RNA functions studied with a model experimental system (FIRST, Konan Univ.; FIBER, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.) NAKANO, Shu-ichi; HIRAYAMA, Hidenobu; KITAGAWA, Yuichi; SUGIMOTO, Naoki

Chair: OKAMOTO, Akimitsu (10 : 10~11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(2D3-08, 2D3-09, 2D3-10, 2D3-11, 2D3-12)

**2D3-08** Development of sequence-specific non-coding RNA selection by using photocrosslinking reaction (JAIST) YOSHIMURA, Yoshinaga; OHTAKE, Tomoko; OKADA, Hajime; FUJIMOTO, Kenzo

**2D3-09** Synthesis of the novel branched DNA bearing the strand exchange ability by the click chemistry (Gunma Univ.) SAGA, Yuki; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo

**2D3-10<sup>†</sup>** Staudinger reaction on DNA back bone and its application to post-locking DNAs. (RIKEN) SANAYOSHI, Hisao; MASHIMO, Takushi; ABE, Hiroshi; HATANNO, Ken; TERUNUMA, Daiyo; ITO, Yoshihiro

**2D3-11** Synthesis and evaluation of the novel cross-linking agent targeting for thymidine (Institute of Multidisciplinary Research for Advanced Materials Tohoku Univ.) KUSANO, Shuhei; HATTORI, Keiichi; IMOTO, Shuhei; NATSUGI, Humi

**2D3-12** Effects of a linked duplex upon the stability of a neighboring duplex. (Kanagawa Univ.) YOSHIDA, Kyouhei; OKAMOTO, Itaru; ONO, Akira

Chair: KOMIYAMA, Makoto (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(2D3-14, 2D3-17)

**2D3-14** Young Scholar Lectures of CSJ Molecular design of intelligent biofunctional materials activated by photoirradiation or X-irradiation (Grad. Sch. Eng., Kyoto Univ.) TANABE, Kazuhito

**2D3-17** Young Scholar Lectures of CSJ Development of new method for RNA synthesis in next generation (Grad. Sch. of Bioscience and Biotechnology, Tokyo Tech) OHKUBO, Akihiro

## Saturday, March 27, PM

### Nucleic Acids

Chair: KINO, Katsuhito (13 : 20~14 : 10)

\* 13:10-13:20: interval for laptop PC connection.(2D3-27, 2D3-28, 2D3-29, 2D3-30, 2D3-31)

**2D3-27** Novel design of sequence-specific DNA alkylating agents by using chlorambucil (Grad. Sch. Sci., Kyoto Univ.) MINOSHIMA, Masafumi; BANDO, Toshikazu; SHINOHARA, Ken-ichi; SUGIYAMA, Hiroshi

**2D3-28** Pyrrole-Imidazole CBI Conjugate with a Photolabile Linker for the Photosensitive Sequence-Specific DNA Alkylation (Grad. Sch. Sci., Kyoto Univ.) PARK, Soyoun; BANDO, Toshikazu; SUGIYAMA, Hiroshi

**2D3-29** Application for the Gene Regulation of Bcr-abl Expression by Sequence-Specific DNA Alkylation (Grad. Sch. Sci., Kyoto Univ.) KUMAMOTO, Hana; BANDO, Toshikazu; SHINOHARA, Ken-ichi; SUGIYAMA, Hiroshi

**2D3-30** Radiolytic reduction characteristics of pyrimidine bases linked with disulfide bond (Grad. Sch. Eng., Kyoto Univ.) AOA, Syosuke; TANABE, Kazuhito; NISHIMOTO, Sei-ichi

**2D3-31** Radiolytic Reduction Characteristics of Oligodeoxynucleotides Possessing Disulfide Bonds: A Novel Cyclization of Hairpin-type Oligodeoxynucleotides (Grad. Sch. Eng., Kyoto Univ.) MATSUMOTO, Eiji; TANABE, Kazuhito; ITOU, Takeo; YAMADA, Hisatsugu; NISHIMOTO, Sei-ichi

Chair: KAWAI, Kiyohiko (14 : 20~15 : 30)

\* 14:10-14:20: interval for laptop PC connection.(2D3-33, 2D3-34, 2D3-36, 2D3-38)

**2D3-33** Syntheses of Spin-Labeled Oligonucleotides with Rigid Linkers and Sequence Dependence of Relaxivities (Grad. Sch. Pharm. Sci., Kyushu Univ.) TANIMOTO, Emi; OKAZAKI, Manami; KARASAWA, Satoru; KOGA, Noboru

**2D3-34\*** Spin labeling to functionalize DNA by radical-containing DNA recognition molecules (The Institute of Scientific and Industrial Research, Osaka Univ.; Graduate School of Science, Osaka City Univ.) ATSUMI, Hiroshi; MAEKAWA, Kensuke; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; NAKATANI, Kazuhiko

**2D3-36\*** Oligonucleotide probes that display off / on <sup>19</sup>F nuclear magnetic resonance signals for *in vivo* nucleic acids detection and imaging (JAIST) SAKAMOTO, Takashi; SHIMIZU, Yu-ki; SASAKI, Jun; FUJIMOTO, Kenzo

**2D3-38\*** DNA-based optical switch by photoswitchable molecular glue for DNA. (The Institute of Scientific and Industrial Research, Osaka Univ.) DOHNO, Chikara; UNO, Shin-nosuke; BITTERMANN, Holger; MALINOVSKII, Vladimir L.; HAENER, Robert; NAKATANI, Kazuhiko

Chair: MORI-I, Takashi (15 : 40~16 : 50)

\* 15:30-15:40: interval for laptop PC connection.(2D3-41, 2D3-43, 2D3-44, 2D3-45, 2D3-46, 2D3-47)

**2D3-41\*** Premutagenicity of oxazolone (Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) KINO, Katsuhito

**2D3-43** Molecular weight analysis for the oxidation products of SoxOg by iodine. (Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) MORIKAWA, Masayuki; KOBAYASHI, Teruhiko; KOBAYASHI, Takanobu; KOMORI, Rie; SEI, Yoshihisa; MIYAZAWA, Hiroshi; KINO, Katsuhito

**2D3-44** Excess Electron Transfer in Pyrene-Modified Nucleic Acid (Univ. of Hyogo) OTSUKA, Yumiko; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige

**2D3-45** Incorporation of photoredox molecules into DNA by polymerase reaction (Univ. of Hyogo) KAWANO, Yuta; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige

**2D3-46** Photoreaction of bromouracil in pyrene conjugated DNA. (Suzuka Univ. of Medical Sciences; Kyoto Univ.) TASHIRO, Ryu; OHOTSUKI, Akio; SUGIYAMA, Hiroshi

**2D3-47** Photoreactivity of 5-halocytosine in Z-form DNA (Kyoto Univ.) MUTOU, Masahiro; SANNOHE, Yuta; SUGIYAMA, Hiroshi

## Sunday, March 28, AM

### Nucleic Acids

Chair: OHKUBO, Akihiro (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3D3-01, 3D3-02, 3D3-03, 3D3-04, 3D3-05)

**3D3-01** Synthesis and properties of the modified DNA containing the bis-pyrene modified deoxyuridine derivatives (Gunma Univ.) MORIGUCHI, Tomohisa; ARAKI, Hikari; SHINOZUKA, Kazuo

**3D3-02** Photo-induced Fluorescent Quenching of Novel Silylated Pyrene Derivate by Nucleobase. (Gunma Univ.) WATANABE, Shinji; YOSHINARI, Akihito; MORIGUCHI, Tomohisa; TOBITA, Seiji; SHINOZUKA, Kazuo

**3D3-03** Synthesis of Fluorescent Molecular Beacon Probe Containing Silylated Perylene Moiety Linked to C-5 Position of 2'-deoxyuridine Derivative. (Gunma Univ.) SATOU, Yuzuru; MORIGUCHI, Tomohisa;

SHINOZUKA, Kazuo

- 3D3-04** Synthesis and application of novel solvofluorochromic 2'-deoxyguanosine derivatives (College of Engineering, Nihon Univ.) SAITO, Yoshio; SHINOHARA, Yuta; MATSUMOTO, Katsuhiko; SAITO, Isao
- 3D3-05\*** Hybridization-sensitive fluorescent DNA probe with self-avoidance ability (RIKEN, JST) IKEDA, Shuji; KUBOTA, Takeshi; YUKI, Mizue; YANAGISAWA, Hiroyuki; TSURUMA, Shizuho; OKAMOTO, Akimitsu

Chair: TAKENAKA, Shigeori (10:10~11:00)

- \* 10:00-10:10: interval for laptop PC connection.(3D3-08, 3D3-10, 3D3-11)
- 3D3-08\*** Development of "insulator base pairs" for increasing quantum yield of fluorescent dyes (1) Design of "insulator base pairs" towards the development of sensitive fluorescent labeling agents. (Nagoya Univ.) KASHIDA, Hiromu; SEKIGUCHI, Koji; ASANUMA, Hiroyuki
- 3D3-10** Development of "insulator base pairs" for increasing quantum yield of fluorescent dyes (2) Emission enhancement by the suppression of electron transfer from nucleobases to perylene diimide. (Nagoya Univ.) SEKIGUCHI, Koji; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 3D3-11\*** Stereoselective formation of the cyclobutane UV-lesion for application to chemical synthesis of DNA (Osaka Univ.) YAMAMOTO, Junpei; NISHIGUCHI, Kosuke; IWAI, Shigenori

Chair: IWAI, Shigenori (11:10~12:30)

- \* 11:00-11:10: interval for laptop PC connection.(3D3-14, 3D3-16, 3D3-18, 3D3-19, 3D3-20, 3D3-21)
- 3D3-14\*** Base recognition abilities and kinetic analysis of N-oxidized 2'-deoxynucleoside derivatives in polymerase reactions (Tokyo Institute of Technology) TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 3D3-16\*** Methylated gene detection using ferrocenylnaphthalene diimide-based electrochemical hybridization assay (Kyushu Inst. Tech.) SATO, Shinobu; KANEZAKI, Yusuke; TAKENAKA, Shigeori
- 3D3-18\*** Synthesis of novel naphthalene diimide derivatives and their DNA binding behavior (Kyushu Institute of Technology) WATANABE, Sadayoshi; OHTSUKA, Keiichi; SATO, Shinobu; TAKENAKA, Shigeori
- 3D3-19** Electrochemical Detection of DNA Deletion and Insertion Polymorphisms on the Basis of Bending Elasticity of Duplexes from Ferrocene-Modified DNA Probes (Grad. Sch. Pharm. Sci., Univ. of Toyama) AKAISHI, Ayumi; CHIBA, Junya; INOUE, Masahiko
- 3D3-20** Electrochemical measurements of ferrocene-conjugated DNA on a gold electrode (Univ. of Hyogo) HASEGAWA, Yusuke; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 3D3-21** Synthesis and fluorescence of RNA conjugates possessing pyrene and nitrobenzene (Univ. of Hyogo) FUKUDA, Minoru; NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige

## Sunday, March 28, PM

### Nucleic Acids

Chair: IJIRO, Kuniharu (13:40~14:40)

- \* 13:30-13:40: interval for laptop PC connection.(3D3-29, 3D3-30, 3D3-31, 3D3-33, 3D3-34)
- 3D3-29** Withdrawn
- 3D3-30** Discrimination of DNA methylation by a novel modified DNA containing a formyl group (The Institute of Scientific and Industrial Research, Osaka Univ.) SHIBATA, Tomonori; DOHNO, Chikara; NAKATANI, Kazuhiko
- 3D3-31\*** Development of highly sensitive in-stem molecular beacon and its application to the DNA chip (Graduate School of Engineering, Nagoya Univ.; MEXT Innovative Research Center for PME; NGK INSULATORS, LTD;CREST, JST) HARA, Yuichi; FUJII, Taiga; KASHIDA, Hiromu; LIANG, Xingguo; YOSHIDA, Yasuko; ASANUMA, Hiroyuki
- 3D3-33** Application for the fluorescent detection of single nucleotide difference using cytosine bulge hairpin primers (ISIR, Osaka Univ.) TAKEI, Fumie; MATSUNAGA, Shizuka; MAEDA, Ayumi; HAGIHARA, Masaki; NAKATANI, Kazuhiko
- 3D3-34** Synthesis of novel modified nucleic acid probes for rapid genetic analyses (Graduate School of Engineering, Gunma Univ.; Graduate School of Engineering, Osaka Univ.) OHTA, Yuuki; KASAHARA, Yuuya; KUWAHARA, Masayasu; IZUMI, Yoshihiro; FUKUSAKI, Eiichiro

Chair: IKEBUKURO, Kazunori (17:00~18:10)

- \* 16:50-17:00: interval for laptop PC connection.(3D3-49, 3D3-50, 3D3-51, 3D3-52, 3D3-54, 3D3-55)
- 3D3-49** Development of new method for gene analysis by use of DNA probes having a gap structure (Tokyo Institute of Technology) ESAKA, Yosuke; YAMADA, Ken; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 3D3-50** Fabrication of nanodevice template by polymerization of DNA immobilized on substrate (Fac. Sci., Hokkaido Univ.) EGUCHI, Asumi; MATSUO, Yasutaka; NIKKURA, Kenichi; IJIRO, Kuniharu
- 3D3-51** Specific DNA amplification with RCA by using the circularization of target DNA (Graduate School of Engineering, Nagoya Univ.) SUZUKI, Masatomo; KATO, Tomohiro; LIANG, Xingguo; ASANUMA, Hiroyuki

- 3D3-52\*** Efficient elongation of short ssDNA by thermophilic DNA polymerase in the absence of template and clarification of its mechanism (Graduate School of Engineering, Nagoya Univ.) KATO, Tomohiro; LIANG, Xingguo; ASANUMA, Hiroyuki
- 3D3-54** Effect of 3'-end capping of DNA aptamer with various 2',4'-bridged nucleotides on stability in human serum (Graduate School of Engineering, Gunma Univ.; Graduate School of Pharmaceutical Sciences, Osaka Univ.) KASAHARA, Yuuya; KITADUME, Shunsuke; KUWAHARA, Masayasu; OZAKI, Hiroaki; SAWAI, Hiroaki; MORIHIRO, Kunihiko; OBIKA, Satoshi; IMANISHI, Takeshi
- 3D3-55** Comparative studies on enzymatic syntheses of artificial nucleic acids with various mutants of KOD DNA polymerase (Graduate School of Engineering, Gunma Univ.; TOYOBO Co.,LTD) TAKANO, Yuuki; KASAHARA, Yuuya; KUWAHARA, Masayasu; SUGIYAMA, Akio; OZAKI, Hiroaki; SAWAI, Hiroaki

## Monday, March 29, AM

### Nucleic Acids

Chair: TANABE, Kazuhito (9:00~10:10)

- \* 8:50-9:00: interval for laptop PC connection.(4D3-01, 4D3-02, 4D3-03, 4D3-04, 4D3-05, 4D3-06, 4D3-07)
- 4D3-01** Development of the DNA glue by using Cationic Pseud Base Pairs (Nagoya Univ.) HAYASHI, Takamitsu; FUJII, Taiga; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 4D3-02** Stabilization of nucleic acid secondary structures by novel naphthridine tetramer derivatives (The Institute of Scientific and Industrial Research, Osaka Univ.) KOHYAMA, Izumi; DOHNO, Chikara; NAKATANI, Kazuhiko
- 4D3-03** The behavior of G-G mismatch binding molecule with (CGG)<sub>n</sub> hairpin DNA (The Institute of Scientific and Industrial Research, Osaka Univ.) HONG, Changfeng; HAGIHARA, Masaki; NAKATANI, Kazuhiko
- 4D3-04** Development of Biocompatible Photochromic Nucleobase (RIKEN) OGASAWARA, Shinzi; MAEDA, Mizuo
- 4D3-05** Analysis of the interaction of dsDNA-Cationic Porphyrin Complex used by High Time-Resolved Circular Dichroism apparatus. (IMRAM, Tohoku Univ.) MURAKAMI, Makoto; ARAKI, Yasuyuki; SAKAMOTO, Seiji; WADA, Takehiko
- 4D3-06\*** SNAr reaction-triggered fluorescence probe for detection of oligonucleotides (RIKEN, itonanomedical) SHIBATA, Aya; ABE, Hiroshi; ITO, Mika; NAKASHIMA, Yuko; SHIMIZU, Shigeru; AIKAWA, Kyoko; ITO, Yoshihiro
- 4D3-07** Novel detection method of target molecule using enzyme fused zinc finger protein (Tokyo Univ. of Agric. & Technol.) IKEBUKURO, Kazunori; IWATA, Nao; OSAWA, Yuko; MURAKAMI, Yoshiyuki; SODE, Koji

Chair: SAKAMOTO, Seiji (10:20~11:30)

- \* 10:10-10:20: interval for laptop PC connection.(4D3-09, 4D3-10, 4D3-11, 4D3-12, 4D3-13, 4D3-14, 4D3-15)
- 4D3-09\*** Photoregulation of RNA cleavage by using azobenzene-modified DNA enzyme (Graduate School of Engineering, Nagoya Univ.) ZHOU, Mengguang; LIANG, Xingguo; ASANUMA, Hiroyuki
- 4D3-10** Phenylboronic acid-based probe for RNA detection (Kanagawa Univ.) OKAMOTO, Itaru; FUJII, Shino; ONO, Akira
- 4D3-11** Synthesis and properties of modified RNAs incorporating 2'-O-(2-carboxyethyl)ribonucleosides (Tokyo Institute of Technology) YAMADA, Takeshi; OKANIWA, Natsuki; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 4D3-12** Development of novel nucleic acid analogs that mimic functions of non-coding RNA (7SK) (Kyoto Inst. Tech.) YAMAYOSHI, Asako; FUKUMOTO, Hiroyuki; HAYASHI, Rie; KOBORI, Akio; KOYANAGI, Yoshio; MURAKAMI, Akira
- 4D3-13** Development of method to determine RNA binding ligand (3) (The Institute of Scientific and Industrial Research, Osaka Univ.) UMEMOTO, Shiori; HAGIHARA, Masaki; NAKATANI, Kazuhiko
- 4D3-14** Design of novel functional oligonucleotides for regulation of RISC activity (Kyoto Inst. Tech.) YAMAYOSHI, Asako; MOMOKAWA, Daiki; KOBORI, Akio; MURAKAMI, Akira
- 4D3-15** Development of novel nucleic acid analogs for the induction of structural alternation of RISC (II) Functional regulation of RISC slicer activity. (Kyoto Institute of Technology) YAMAYOSHI, Asako; YAMADA, Yukiko; KOBORI, Akio; MURAKAMI, Akira

Chair: LIANG, Xingguo (11:40~12:30)

- \* 11:30-11:40: interval for laptop PC connection.(4D3-17, 4D3-18, 4D3-19, 4D3-20, 4D3-21)
- 4D3-17** Synthesis of Peptide Ribonucleic Acid (PRNA)-PNA-DNA Chimeras and their Interaction with RNA and RNase H Activity of Chimera-RNA Complex (IMRAM, Tohoku Univ.) MIZUTANI, Tatsuya; NAGAMI, Akira; SAWA, Nobuya; SAKAMOTO, Seiji; ARAKI, Yasuyuki; KANETANI, Shigenori; INOUE, Yoshihisa; WADA, Takehiko
- 4D3-18** Synthesis of Self-Replicating Peptide Ribonucleic Acid (PRNA) System with Click Chemistry (IMRAM, Tohoku Univ.) HAGIWIWA,

- Naomichi; SAKAMOTO, Seiji; ARAKI, Yasuyuki; WADA, Takehiko  
**4D3-19** Synthesis of 2'-*O*-protected nucleoside by nuclease degradation of 2'-*O*-silyl RNA (Tokyo Institute of Technology) ISE, Misako; IJIMA, Yoshihiro; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji  
**4D3-20** Design, Synthesis and Interaction Studies of Arginine-containing  $\alpha$ -Peptide Ribonucleic Acid (IMRAM, Tohoku Univ., PRESTO/JST, ICORP/JST) ONODERA, Keiko; NISHIO, Akihiro; SAKAMOTO, Seiji; ARAKI, Yasuyuki; INOUE, Yoshihisa; WADA, Takehiko  
**4D3-21** Synthesis of oligonucleotides having a modified adenine at the 5'-terminus and their hybridization with RNA targets (Tokyo Institute of Technology) SEIO, Koji; KODAMA, Erika; KUROHAGI, Sayako; MIYAZAKI, Kazuya; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEKINE, Mitsuo

**Room D4**  
**Bldg.20 20-007**

**Biofunctional Chemistry ; Biotechnology**

Friday, March 26, PM

**Sugar**

Chair: SATO, Toshinori (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(1D4-25, 1D4-27, 1D4-28, 1D4-29, 1D4-30)  
**1D4-25\*** Intramolecular approach to investigate carbohydrate-carbohydrate interactions using glycosylated ferrocenes (Dept. of Lifesciences, Toyo Univ.; Bio-Nano Electronics Research Centre, Toyo Univ.) HASEGAWA, Teruaki; OTSUKA, Atsushi; SAKURAI, Kunihiro  
**1D4-27** Synthesis of oligosaccharide-appended bipyridines to investigate saccharide-saccharide interactions. (Dept. of Lifesciences, Toyo Univ.; Bio-Nano Electronics Research Centre, Toyo Univ.) SEKIGUCHI, Sho; HASEGAWA, Teruaki  
**1D4-28** Synthetic study of heparan sulfate partial disaccharide structure containing iduronic acid (Graduate School of Science and Engineering, Kagoshima Univ.) HARUYAMA, Mami; OHISHI, Koh; SAITO, Akihiro; WAKAO, Masahiro; SUDA, Yasuo  
**1D4-29** Synthetic study of heparan sulfate partial disaccharide structure consisting of glucuronic acid-glucosamine sequence (Graduate School of Science and Engineering, Kagoshima Univ.) DEGUCHI, Hiroshi; SAITO, Akihiro; MAWATARI, Aya; WAKAO, Masahiro; SUDA, Yasuo  
**1D4-30** Synthetic study on heparan sulfate partial disaccharide structure consisting of iduronic acid-glucosamine sequence (Graduate School of Science and Engineering, Kagoshima Univ.) MAWATARI, Aya; SAITO, Akihiro; DEGUCHI, Hiroshi; WAKAO, Masahiro; SUDA, Yasuo

Chair: HASEGAWA, Teruaki (14 : 10~15 : 10)

- \* 14:00-14:10: interval for laptop PC connection.(1D4-32, 1D4-33, 1D4-34, 1D4-35, 1D4-36, 1D4-37)  
**1D4-32** Synthetic study for Chondroitin Sulfate Tetrasaccharide Partial Structure (Graduate School of Science and Engineering, Kagoshima Univ.) SAKAMI, Chiho; KAKITSUBATA, Yuhei; WAKAO, Masahiro; SUDA, Yasuo  
**1D4-33** A novel method for the glucocusterization of alpha-(1,6)linked D-glucopyranoside (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) YANG, Li-ying; HARAGUCHI, Tsuyoshi; YUASA, Hideya  
**1D4-34** Syntheses of Glycoclusters using siloxane scaffold (Department of Functional Materials Science, Graduate School of Science and Engineering, Saitama Univ.) HOSHINA, Yusuke; HATANO, Ken; KOYAMA, Tetsuo; MATSUOKA, Koji; TERUNUMA, Daiyo  
**1D4-35** Study of a silole-core carbosilane dendrimer peripheral functionalized with carbohydrate as a lectin detection. (Graduate School of Science and Engineering, Saitama Univ.) MORI, Shota; HATANO, Ken; SAEKI, Hitoshi; KOYAMA, Tetsuo; MATSUOKA, Koji; TERUNUMA, Daiyo  
**1D4-36** Synthesis of the glycomimics with ethyleneglycol spacer and their lectin-binding ability (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) KUBOTA, Daijirou; OOKURA, Yusuke; YUASA, Hideya  
**1D4-37** Development of a lectin sensor based on hinge sugar (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) OKUMA, Shintaro; MITSUHASHI, Nobuyuki; YUASA, Hideya

Chair: YUASA, Hideya (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(1D4-39, 1D4-40, 1D4-41, 1D4-42, 1D4-43, 1D4-44)  
**1D4-39** Detection of Glycans Related to Cancer Metastasis by Saccharide Primer Method (Keio Univ.) FURUICHI, Yu; SATO, Toshinori  
**1D4-40** Search of glycans related with infection of hepatitis C virus by

- saccharide primer method (Keio Univ.; NIID) KATANO, Naoya; SUZUKI, Tetsuro; SATO, Toshinori  
**1D4-41** Analysis of Glycan Structures in stem cells by Saccharide Primer Method (Keio Univ.; Natl. Res. Inst. Child Health & Dev.) OJIMA, Takuma; TOYODA, Masashi; UMEZAWA, Akihiro; FUJIMOTO, Junichiro; SATO, Toshinori  
**1D4-42** Development of an analytical method for lectin enrichment with mild conditions using glycosylated magnetic beads. (Department of Materials and Life Science, Seikei Univ.) MIYAZAWA, Haruka; SATO, Makiko; ITO, Yukishige; TOTANI, Kiichiro  
**1D4-43** Thermodynamic analysis of interactions between high-mannose-type glycans and malectin. (RIKEN ASI; ERATO JST) TAKEDA, Yoichi; TOTANI, Kiichiro; MATSUO, Ichiro; ITO, Yukishige  
**1D4-44** Structure Control of Sultone Dye by  $\beta$ -1,3-Glucan Hydrogel (Univ. of Yamanashi) SHINMORI, Hideyuki; KOKUBO, Susumu

Chair: KASHIDA, Hiromu (16 : 30~17 : 30)

- \* 16:20-16:30: interval for laptop PC connection.(1D4-46, 1D4-47, 1D4-48, 1D4-49, 1D4-50, 1D4-51)  
**1D4-46** Development of sugar-lanthanide upconversion nanoparticles for the imaging of lectins (School of Bioscience and Biotechnology, Tokyo Institute of Technology) KOBAYASHI, Takuya; KAWADA, Yuki; YUASA, Hideya  
**1D4-47** Preparation and application of sugar-chain immobilized fluorescent nanoparticles containing CdTe/CdS core/shell structure (Graduate School of Science and Engineering, Kagoshima Univ.) WAKAO, Masahiro; SHINCHI, Hiroyuki; SUDA, Yasuo  
**1D4-48** Synthesis and photochemical properties of mono-, di-, tri- and tetra substituted glucosyl-chlorins (Nara Institute of Science and Technology; Univ. of Yamanashi) ONOSE, Makoto; SHARYO, Kohei; OBATA, Makoto; HIROHARA, Shiho; TERADA, Kayo; ANDO, Tsuyoshi; TANIHARA, Masao  
**1D4-49** Synthesis of glucosyl-porphyrin palladium(II) complexes by click chemistry and their photochemical properties (Nara Institute of Science and Technology; Univ. of Yamanashi) KAWASAKI, Yuji; SHARYO, Kohei; OBATA, Makoto; HIROHARA, Shiho; TERADA, Kayo; ANDO, Tsuyoshi; TANIHARA, Masao  
**1D4-50** Analysis of carbohydrate-protein interaction using biolayer interferometry biosensor (Graduate School of Science and Engineering, Kagoshima Univ.) TAKEUCHI, Makoto; WAKAO, Masahiro; SASAKA, Shin-ichi; OGIHARA, Ryosuke; SUDA, Yasuo  
**1D4-51** Development of novel sialidase suicide substrate (Graduate School of Life Science, Hokkaido Univ.) KAI, Hirokazu; HINOUE, Hiroshi; NISHIMURA, Shin-ichiro

**Life Information**

Chair: KANAI, Tamotsu (17 : 40~18 : 10)

- \* 17:30-17:40: interval for laptop PC connection.(1D4-53, 1D4-54, 1D4-55)  
**1D4-53** Isolation strategy of xylose metabolic enzyme from soil metagenome for bioethanol production. (Waseda Univ. Dept. of Life Science and Medical Bio-Science) NURDIANI, Dini; OKAMURA, Yoshiko; TERAHARA, Takeshi; TAKEHIRO, Natsuki; TAKEYAMA, Haruko  
**1D4-54** Construction of metagenomic library from bacteria in marine sponge, *Halichondria okadai* (Faculty of Science and Technology, Keio Univ.) ABE, Takahiro; UEMURA, Masashi; OHNO, Osamu; AKIYAMA, Kiyotaka; NAITOH, Takayuki; UEMURA, Daisuke  
**1D4-55** Determination of the gene involved in cadmium accumulation from metagenome libraries consisted of bacteria associated with marine sponges. (Tokyo Univ. Agri. Tech.) KOHARA, Yotaro; OKAMURA, Yoshiko; IWAMOTO, Koji; SHIRAIWA, Yoshihiro; MATSUNAGA, Tadashi; TAKEYAMA, Haruko

**Saturday, March 27, AM**

**Lipid, Biomembrane**

Chair: KIKUCHI, Jun-Ichi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2D4-01, 2D4-02, 2D4-03, 2D4-04, 2D4-05)  
**2D4-01** Synthesis of Acetylene-Linked Glycolipids toward Modification of Vesicle Surface (Graduate School of Engineering, Nagoya Univ.) ITO, Hidehiro; KAMACHI, Toshiaki; YASHIMA, Eiji  
**2D4-02** Reconstitution of a membrane penetrating protein model (School of Science, The Univ. of Tokyo) YAMAGUCHI, Jun; FUKUZAWA, Seketsu; TACHIBANA, Kazuo  
**2D4-03** Dynamic structure of cell-sized liposomes containing oxysterol (School of Materials Science, Japan Advanced Institute of Science and Technology) YODA, Tsuyoshi; VESTERGAARD, Mun'delanji; HAMADA, Tsutomu; OGAWA, Yoko; YOSHIDA, Yasukazu; TAKAGI, Masahiro  
**2D4-04** Detection of Lateral Localization of Amyloid Beta Peptides with Biomimetic Microdroplet Membrane Interface. (School of Materials Science, Japan advanced institute of Science and technology) MORITA, Masamune; HAMADA, Tsutomu; KISHIMOTO, Yoko; KOMATSU, Yuuki; VESTERGARRD, Mun'delanji; TAKAGI, Masahiro  
**2D4-05\***† Confinement effects of bio-polymer mixture in a cell-sized sphere

(Kyoto Univ.) NEGISHI, Makiko; YOSHIKAWA, Kenichi

Chair: TAKAGI, Masahiro (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(2D4-08, 2D4-10, 2D4-12)
- 2D4-08\*** Preparation and function of intercellular adhesion protein liposomes using baculovirus-liposome fusion method (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.; Graduate School of Engineering, Mie Univ.) KAMIYA, Koki; TSUMOTO, Kanta; YOSHIMURA, Tetsuro; AKIYOSHI, Kazunari
- 2D4-10\*** Artificial Membrane Traffic System Based on the Dynamics of Lipid Membrane (Nara Inst. of Sci. and Technol.) YASUHARA, Kazuma; ITO, Hiroshi; WANG, Zhong-hua; ISHIKAWA, Takahiro; KIKUCHI, Jun-ichi
- 2D4-12\*** Single molecule analysis on controlled diffusivity of molecule at nano-space (Hokkaido Univ.) NABIKI, Hideki; TAKIMOTO, Baku; MURAKOSHI, Kei

Chair: IKEDA, Atsushi (11:20~12:10)

- \* 11:10-11:20: interval for laptop PC connection.(2D4-15, 2D4-16, 2D4-17, 2D4-18, 2D4-19)
- 2D4-15** Translocation of cationic polymers possessing hydrophobic groups to a lipid bilayer (Ryukoku Univ.; Univ. of Geneva) MIYATAKE, Tomohiro; OKADA, Yusuke; MATILE, Stefan
- 2D4-16** Translocation of polyarginine activated by hydrazide compounds and ketoglutarate (Ryukoku Univ.; Univ. of Geneva) MIYATAKE, Tomohiro; MURATA, Hiroto; SAITOH, Yasuhiko; MATILE, Stefan
- 2D4-17** Effective lectin recognition using carbohydrate - hydroxyl alkanethiol hybrid monolayer (Nat'l Inst Adv Indst Sci &Tech (AIST)) SATO, Yukari; YOSHIOKA, Kyoko; MURAKAMI, Teiichi; NIWA, Osamu
- 2D4-18** MICROFLUIDIC DEVICE TO RAPIDLY CONSTRUCT NON-VIRAL VECTOR FOR GENE THERAPY (Nagoya Univ.) KITAZOE, Katsuma; OKAMOTO, Yukihiro; KAJI, Noritada; TOKESHI, Manabu; KOGURE, Kentaro; HARASHIMA, Hideyoshi; BABA, Yoshinobu
- 2D4-19** Stereochemical analysis of lipids by VCD and its application (Faculty of Advanced Life Science, Hokkaido Univ.) SHIBATA, Masataka; NAKAHASHI, Atsufumi; MONDE, Kenji

## Saturday, March 27, PM

## Environment Biotechnology

Chair: TANAKA, Tsuyoshi (13:20~14:20)

- \* 13:10-13:20: interval for laptop PC connection.(2D4-27, 2D4-28, 2D4-29, 2D4-30, 2D4-31, 2D4-32)
- 2D4-27** Determination of molecular structure of poly-e-L-lysine biosynthesized by Streptomyces strains and proposed mechanism of the polymer (The Univ. of Shiga Pref.; MEA research institute) UKO, Manabu; MURAKAMI, Takuya; MATUNAGA, Tatsuki; TAKEHARA, Munenori; KUMAGAI, Tsutomu; HIROHARA, Hideo
- 2D4-28** Basic Poly(amino acid)s biosynthesized by Streptomyces Strains: Bioscaffold for Preparation of Multifunctional Conjugate in Aqueous Solution. (The Univ. of Shiga Pref.; MEA research institute) MURAKAMI, Takuya; UKO, Manabu; YAMATORI, Kazushi; TAKEHARA, Munenori; KUMAGAI, Tsutomu; HIROHARA, Hideo
- 2D4-29** Study of a Silole-core Carbosilane Dendrimer Peripheral Functionalized with Carbohydrate as a biosensor. (Graduate School of Science and Engineering, Saitama Univ.) SAEKI, Hitoshi; HATANO, Ken; AIZAWA, Akihiro; YOKOTA, Hiroo; KOYAMA, Tetsuo; MATSUOKA, Koji; TERUNUMA, Daiyo
- 2D4-30** Reaction Analysis of Luciferase in Microchannel (Hiroshima Univ.) MURAKAMI, Yuji; ARITOME, Katsuhiro; SAKAMOTO, Kenji; ISHIKAWA, Tomohiro; NODA, Kenichi; MIYAKE, Ryo
- 2D4-31** Bio-LC-Oscillator - a novel stand alone, wireless, self powered glucose sensing system - (Dept. of Biotechnol., Tokyo Univ. of Agric. & Technol.) TSUGAWA, Wakako; TANAKA, Hiroshi; HANASHI, Takuya; SODE, Koji
- 2D4-32** ECL affinity sensor for drug screening system of nuclear receptors (Kyushu Institute of Technology) IKENO, Shinya; TAKATSUJI, Yoshiyuki; HARUYAMA, Tetsuya

Chair: TSUGAWA, Wakako (14:30~15:20)

- \* 14:20-14:30: interval for laptop PC connection.(2D4-34, 2D4-36, 2D4-37, 2D4-38)
- 2D4-34\*** Development of Massive Parallel and Single Amplification Method Toward Whole Gene Expression within Single Cell. (Waseda Univ.; Hitachi Ltd.; Tokyo Univ. of Agri. and Technol.) OKAMURA, Yoshiko; KAMBARA, Hideki; MATSUNAGA, Tadashi; TAKEYAMA, Haruko
- 2D4-36** Digital image analysis of cell groups using CMOS sensor (Tokyo Univ. Agri. Tech.) SAEKI, Tatsuya; SUNAGA, Yoshihiko; TANAKA, Tsuyoshi; MATSUNAGA, Tadashi
- 2D4-37** Fabrication of the plasmon biochip using nanoimprint technology (Osaka Univ.) KITAMURA, Akito; SAITO, Masato; HIEP, Ha Minh; KONDO, Kenji; TAMIYA, Eiichi
- 2D4-38\*** Plasmonic properties of gold nanoparticles deposited on aluminum oxide nanoporous structure (Osaka Univ.) HIEP, Ha Minh; NAKAGAMI, Yasuhiro; YOSHIKAWA, Hiroyuki; KONDO, Kenji; SAITO, Masato; TAMIYA, Eiichi

## Nucleic Acids

Chair: XU, Yan (15:30~16:20)

- \* 15:20-15:30: interval for laptop PC connection.(2D4-40, 2D4-41, 2D4-42, 2D4-43, 2D4-44)
- 2D4-40** Analyses of the tetraplex structure of irregularly repetitive telomeric DNA sequences from budding yeast (Tokyo Univ. of Sci.) FUKUSHI, Miyako; KOZASA, Tetsuo; TAKEHARA, Takashi; KANEDA, Kaoru; TORIGOE, Hidetaka
- 2D4-41<sup>†</sup>** Analyses of the tetraplex structure of irregularly repetitive telomeric DNA sequences from fission yeast (Tokyo Univ. of Sci.) KOZASA, Tetsuo; FUKUSHI, Miyako; TAKEHARA, Takashi; KANEDA, Kaoru; TORIGOE, Hidetaka
- 2D4-42** Sequence-specific alkylation of human telomere sequence by *N*-methylpyrrole-*N*-methylimidazole polyamide (Grad. Sch. Sci., Kyoto Univ.) KASHIWAZAKI, Gengo; BANDO, Toshikazu; SUGIYAMA, Hiroshi
- 2D4-43** Identification of G-quadruplex-recognition mechanism of EWS (Shizuoka Univ.) TAKAHAMA, Kentaro; KUROKAWA, Riki; OYOSHI, Takanori
- 2D4-44** Identification and characterization for cellular functions of EWS. (Shizuoka Univ.) WATANABE, Hiroshi; SAYAMA, Kazutoshi; OYOSHI, Takanori

Chair: OYOSHI, Takanori (16:30~17:30)

- \* 16:20-16:30: interval for laptop PC connection.(2D4-46, 2D4-47, 2D4-48, 2D4-49, 2D4-51)
- 2D4-46** Development of macrocyclic hexaoxazole (6OTD) dimers as G-quadruplex binder (Tokyo Univ of Agri and Tech (TUAT)) IIDA, Keisuke; TERA, Masayuki; Hirokawa, Takatsugu; Shin-ya, Kazuo; NAGASAWA, Kazuo
- 2D4-47** A 6-mer Photoreactive Oligonucleotide as an Effective Telomerase Inhibitor (RCAT, The Univ. of Tokyo) ITO, Kenichiro; XU, Yan; SUZUKI, Yuta; KOMIYAMA, Makoto
- 2D4-48** Guanine Quadruplex Structures in Untranslated Regions in mRNA (The Institute of Scientific and Industrial Research, Osaka Univ.) HAGIHARA, Masaki; NAKATANI, Kazuhiko
- 2D4-49\*** Elucidation of the structure and biological function of human telomere RNA (RCAT, The Univ. of Tokyo) XU, Yan; KOMIYAMA, Makoto
- 2D4-51** A Novel U-tetrad Stabilizes Human Telomeric RNA G-quadruplex (RCAT, The Univ. of Tokyo) KIMURA, Takashi; XU, Yan; KOMIYAMA, Makoto

## Sunday, March 28, AM

## Nucleic Acids

Chair: NAGASAWA, Kazuo (9:00~9:50)

- \* 8:50-9:00: interval for laptop PC connection.(3D4-01, 3D4-02, 3D4-03, 3D4-04, 3D4-05)
- 3D4-01<sup>#</sup>** Effect of molecular environments on the behaviors of biomolecules(9) Duplex formation of G-rich RNA sequences found in the 5'-untranslated region of protooncogenes (FIBER, Konan Univ.; FIRST, Konan Univ.) SAXENA, Sarika; MIYOSHI, Daisuke; SUGIMOTO, Naoki
- 3D4-02** Effect of molecular environments on the behaviors of biomolecules (10) Quantitative analysis of DNA G-quadruplex stability with the binding of thrombin (FIRST, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.; Front. Sci., Univ. of Tokyo) ISONO, Noburu; NAGATOISHI, Satoru; KUDOU, Motonori; TSUMOTO, Kouhei; SUGIMOTO, Naoki
- 3D4-03** Effect of molecular environments on the behaviors of biomolecules (11) Construction of PNA-peptide conjugates for regulation of nucleic acid G-quadruplex structure. (FIRST, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) KOBAYASHI, Keita; USUI, Kenji; SUGIMOTO, Naoki
- 3D4-04<sup>#</sup>** Effect of molecular environments on the behaviors of biomolecules (12) Thermodynamic Stability of Hoogsteen and Watson-Crick Base Pairs in the Presence of Histone Mimicking Peptide (FIBER, Konan Univ.; FIRST, Konan Univ.) PRAMANIK, Smritimoy; NAKAMURA, Kaori; MIYOSHI, Daisuke; SUGIMOTO, Naoki
- 3D4-05** Effect of molecular environments on the behaviors of biomolecules (13) Effect of molecular environments on the interactions between the piwi protein and nucleic acids (FIBER, Konan Univ.; FIRST, Konan Univ.) NAGATOISHI, Satoru; SUGIMOTO, Naoki

Chair: HAGIHARA, Masaki (10:00~11:00)

- \* 9:50-10:00: interval for laptop PC connection.(3D4-07, 3D4-09, 3D4-11)
- 3D4-07\*<sup>†</sup>** Loop formation using G-quadruplex scaffold -Application for catenated DNA- (Kyoto Univ.) SANNOHE, Yuta; SUGIYAMA, Hiroshi
- 3D4-09\*** Recognition of GC rich sequence and site-selective scission by PNA (RCAT, The Univ. of Tokyo) ISHIZUKA, Takumi; XU, Yan; KOMIYAMA, Makoto
- 3D4-11\*<sup>†</sup>** Development of macrocyclic heptaoxazole as G-quadruplex binder and application to visualizing probe (Tokyo Univ of Agri and Tech (TUAT)) TERA, Masayuki; IIDA, Keisuke; TAKAGI, Motoki; SEIMIYA,

Hiroyuki; SHIN-YA, Kazuo; NAGASAWA, Kazuo

Chair: NAKATANI, Kazuhiko (11:10~12:00)

- \* 11:00-11:10: interval for laptop PC connection.(3D4-14, 3D4-16, 3D4-18)  
**3D4-14\*** Aptazyme-Based Biosensors Using a Eukaryotic Cell-Free Translation System (Ehime Univ.) OGAWA, Atsushi  
**3D4-16\*** Structural basis for the substrate recognition of ATP-binding ribonucleoprotein receptors (Kyoto Univ., Institute of Advanced Energy) NAKANO, Shun; FUKUDA, Masatora; MASHIMA, Tsukasa; KATAHIRA, Masato; MORII, Takashi  
**3D4-18\*** Selective recognition of catecholamines by fluorescent ribonucleoprotein complexes (Kyoto Univ., Institute of Advanced Energy) LIEW, Fong Fong; FUKUDA, Masatora; NAKANO, Shun; TAINAKA, Kazuki; MORII, Takashi

## Sunday, March 28, PM

## Nucleic Acids

Chair: TAINAKA, Kazuki (13:10~13:50)

- \* 13:00-13:10: interval for laptop PC connection.(3D4-26, 3D4-27, 3D4-28, 3D4-29)  
**3D4-26** Effect of molecular environments on the behaviors of biomolecules(14) Rational design of a new aptamer based on the TPPri bioswitch from *Aspergillus oryzae* (FIBER, Konan Univ.; Hakutsuru Sake Brewing Co., Ltd.; FIRST, Konan Univ.) TOKUI, Misato; YAMAUCHI, Takahiro; MIYOSHI, Daisuke; KAMIYA, Hisaya; MATSUNAGA, Masayoshi; SUGIMOTO, Naoki  
**3D4-27** Effect of molecular environments on the behaviors of biomolecules(15) Effect of molecular crowding on ligand binding of adenine riboswitch (FIRST, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) MURAKAMI, Kentaro; ENDOH, Tamaki; SUGIMOTO, Naoki  
**3D4-28** Effect of molecular environments on the behaviors of biomolecules (16) Construction of artificial riboswitch working in mammalian cells by using protein-RNA interaction (FIBER, Konan Univ.; FIRST, Konan Univ.) ENDOH, Tamaki; SUGIMOTO, Naoki  
**3D4-29** In vitro selection of enzyme-inhibiting DNA aptamers whose activity can be controlled by a target nucleotide. (Tokyo Univ. of Technol.) KOMATSU, Masayuki; KATO, Teru

Chair: KATO, Teru (14:00~14:40)

- \* 13:50-14:00: interval for laptop PC connection.(3D4-31, 3D4-32, 3D4-33, 3D4-34)  
**3D4-31** Selection of DNA aptamer against prostate specific antigen (Tokyo Univ. of Agric. & Technol.) Ikebukuro, Kazunori; SAVORY, Nasa; SODE, Koji  
**3D4-32** Screening of DNA aptamer against tumor marker (Tokyo Univ. of Agric. & Technol.) Ikebukuro, Kazunori; HAFUKA, Kenji; TSUKAKOSHI, Kaori  
**3D4-33** Selection of DNA aptamer inhibiting enzyme activity. (Fac. Eng., Kobe Univ.) MIYACHI, Yusuke; SHIMIZU, Nobuaki; OGINO, Chiaki; KONDO, Akihiko  
**3D4-34** Aptamer beacon for detection of a biologically active peptide (Gunma Univ., Graduate School of Engineering) Ozaki, Hiroaki; ASAKURA, Hiromi; KUWAHARA, Masayasu

Chair: WADA, Takehiko (17:00~18:10)

- \* 16:50-17:00: interval for laptop PC connection.(3D4-49, 3D4-51, 3D4-52, 3D4-53, 3D4-54, 3D4-55)  
**3D4-49\*** Synthesis and characterization of covalent-bonded DNA-Lipid complexes with reactive lipids possessing a four-membered ammonium moiety. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) YONAMINE, Yusuke; KAWASAKI, Takayoshi; OKAHATA, Yoshio  
**3D4-51** Synthesis and reaction characteristics of Biodegradable amphiphilic block copolymer bearing an oligodeoxynucleotides units as a hydrophilic function (Grad. Sch. Eng., Kyoto Univ.) ASADA, Takumi; TANABE, Kazuhito; NISHIMOTO, Sei-ichi  
**3D4-52** Nucleobase-selective metallization of unnatural base induced DNA polymer synthesized by enzyme (Graduate School of Science, Hokkaido Univ.; Research Institute for Electronic Science, Hokkaido Univ.) WATANABE, Yukie; TANAKA, Aya; MATSUO, Yasutaka; NIIKURA, Kenichi; IJIRO, Kuniharu  
**3D4-53** Permeation of molecular umbrella-DNA conjugate through liposomal membrane (Grad. School of Arts and Sciences, The Univ. of Tokyo) SHOUDA, Koh-ichiro; SUYAMA, Akira  
**3D4-54** Synthesis of novel DNA-PANI conjugate by the use of modified pyrimidine bases (Kanagawa Univ.) TODOROKI, Takehiko; MIYASHITA, Syunsuke; ONO, Akira; OKAMOTO, Itaru  
**3D4-55** The modified Dumbbell-shaped RNA with cell penetrating function for RNA interference (RIKEN; Waseda Univ.) UDA, Miwako; ABE, Hiroshi; ABE, Naoko; FURUKAWA, Kazuhiro; TSUNEDA, Satoshi; ITO, Yoshihiro

## Monday, March 29, AM

## Nucleic Acids

Chair: URA, Yasuyuki (9:40~10:20)

- \* 9:30-9:40: interval for laptop PC connection.(4D4-05, 4D4-06, 4D4-08)  
**4D4-05** Nanoarray preparation of gold nanoparticle on DNA scaffolds (RCAST, The Univ. of Tokyo) KOSHI, Naohiro; NUMAJIRI, Kentaro; KIMURA, Mayumi; KUZUYA, Akinori; KOMIYAMA, Makoto  
**4D4-06\*** Three-dimensional DNA nanostructures by folding of two-dimensional DNA origami structures (Kyoto Univ. iCeMS; Kyoto Univ. Dept. of Science) ENDO, Masayuki; HIDAKA, Kumi; SUGIYAMA, Hiroshi  
**4D4-08** Programmed-assembly system using DNA origami tiles (Kyoto Univ. iCeMS; Department of Science Kyoto Univ.) SUGITA, Tsutomu; ENDO, Masayuki; KATSUDA, Yousuke; HIDAKA, Kumi; SUGIYAMA, Hiroshi

Chair: DOHNO, Chikara (10:30~11:40)

- \* 10:20-10:30: interval for laptop PC connection.(4D4-10, 4D4-12, 4D4-13, 4D4-15)  
**4D4-10\*** Regulation of DNA modifying and repair enzymes in a nanostructure (Department of Chemistry, Graduate School of Science Kyoto Univ.) KATSUDA, Yousuke; ENDO, Masayuki; HIDAKA, Kumi; SUGIYAMA, Hiroshi  
**4D4-12** Single molecular observation of RNA polymerase in the DNA nanostructure (Kyoto Univ. Dept. of Science; Kyoto Univ. iCeMS) TERUSHIMA, Kousuke; ENDO, Masayuki; KATSUDA, Yousuke; HIDAKA, Kumi; SUGIYAMA, Hiroshi  
**4D4-13\*** Linear Relationship between deformability and melting temperature of 2'-O-modified RNA duplexes (Tokyo Institute of Technology) MASAKI, Yoshiaki; MIYASAKA, Ryuta; TSUNODA, Hirotsugu; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo  
**4D4-15\*** Analysis of stimuli-sensitive mRNAs by *in vitro* fluorescence imaging method (Kyoto Inst. Tech.) WAKI, Reiko; UEDA, Takako; YAMAYOSHI, Asako; KOBORI, Akio; MURAKAMI, Akira

Chair: ENDO, Masayuki (11:50~12:30)

- \* 11:40-11:50: interval for laptop PC connection.(4D4-18, 4D4-20)  
**4D4-18\*** Self-Assembling Sequence-Adaptive Peptide Nucleic Acids (The Scripps Research Institute) URA, Yasuyuki; BEIERLE, John M.; LEMAN, Luke J.; ORGEL, Leslie E.; GHADIRI, M. Reza  
**4D4-20\*** Construction of a box-shaped 3D DNA origami (RCAST, The Univ. of Tokyo) KUZUYA, Akinori; KOMIYAMA, Makoto

## Room E1

Bldg.33 33-301

## Physical Chemistry -Structure-

## Friday, March 26, AM

Chair: TEKI, Yoshio (9:50~10:50)

- \* 9:40-9:50: interval for laptop PC connection.(1E1-06, 1E1-07, 1E1-08, 1E1-09, 1E1-11)  
**1E1-06** Phase structures in vanadium deuterides using solid state NMR (AIST) SUZUKI, You; HAYASHI, Shigenobu  
**1E1-07** Effect of spin diffusion on spin-lattice relaxation time in the rotating frame (National Institute of Advanced Industrial Science and Technology (AIST); Chiba Institute of Technology) HAYASHI, Shigenobu; OMI, Hironori  
**1E1-08** Proton Motion in Hybrid Materials of CsHSO<sub>4</sub>-Silica Nanoparticle Prepared by Mechanical Milling Studied by NMR relaxation (AIST) JIMURA, Keiko; HAYASHI, Shigenobu  
**1E1-09\*** Bonding states of organic molecules modifying the surface of nanoparticles and structures of hybrid materials studied by solid-state NMR (AIST) SOUMA, Hiroyuki; CHIBA, Ryo; HAYASHI, Shigenobu  
**1E1-11** Correlation between the framework structure of zeolite and the amount of adsorbed dichloromethane determined by solid-state NMR (AIST) KOJIMA, Natsuko; HAYASHI, Shigenobu

Chair: HAYASHI, Shigenobu (11:00~12:00)

- \* 10:50-11:00: interval for laptop PC connection.(1E1-13, 1E1-14, 1E1-15, 1E1-16, 1E1-17, 1E1-18)  
**1E1-13** Photo-Excited Quartet State of Stable  $\pi$ -Radical Covalently Linked to Weak Electron Acceptor(II) (Osaka City Univ.) TAKEMOTO, Yohei; TEKI, Yoshio  
**1E1-14** Photo-excited high-spin state and spin density distribution of phenyl-substituted anthracene verdazyl radical (Osaka City Univ.) KAWAHARA, Yuichi; TAKEMOTO, Yohei; TEKI, Yoshio  
**1E1-15** An Electronic Structure of A Weakly Exchange-coupled Biradical as Studied by CW/Pulsed ESR Spectroscopy (Graduate School of Science, Osaka City Univ.; Graduate School of Science, Osaka Univ.; Graduate School



of Engineering Science, Osaka Univ.; JST-CREST) AYABE, Kazuki; SATO, Kazunobu; ISE, Tomoaki; SUGISAKI, Kenji; NAKAZAWA, Shigeaki; MORITA, Yasushi; TOYOTA, Kazuo; SHIOMI, Daisuke; KITAGAWA, Masahiro; TAKUI, Takeji

- 1E1-16** Weakly-coupled exchange interactions of a square arrayed tetranitroxide radical: A prototypical model for matter spin-qubits in 2D arrays utilizing metal-phthalocyanines. (Osaka City Univ.; Queensland Univ AIBN.; Queensland Univ CMR.; Osaka Univ.; CREST, JST) NOZAKI, Mikito; NAKAZAWA, Shigeaki; SUGISAKI, Kenji; SATO, Kazunobu; SHIOMI, Daisuke; TOYOTA, Kazuo; MICALLEF, Aaron,S; HANSON, Graeme, Richard; KITAGAWA, Masahiro; TAKUI, Takeji
- 1E1-17** Generation and Characterization of Bipartite Entanglements in a Molecular Spin-bus System (Osaka City Univ.; Kinki Univ.; Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.; CREST, JST) YOSHINO, Tomohiro; NISHIDA, Shinsuke; NAKAZAWA, Shigeaki; SATO, Kazunobu; RAHIMI, Robabeh; TOYOTA, Kazuo; SHIOMI, Daisuke; MORITA, Yasushi; KITAGAWA, Masahiro; TAKUI, Takeji
- 1E1-18** Molecular designs and syntheses of electron-spin matter qubit molecules: g- and A-Engineering of molecular spins for QC/QIP (Osaka City Univ.; Osaka Univ.; JST) ISE, Tomoaki; NAKAZAWA, Shigeaki; NISHIDA, Shinsuke; SATO, Kazunobu; SHIOMI, Daisuke; MORITA, Yasushi; KITAGAWA, Masahiro; TAKUI, Takeji

### Friday, March 26, PM

Chair: YAMAKATA, Akira (15:30~16:30)

- \* 15:20-15:30: interval for laptop PC connection.(1E1-40, 1E1-43, 1E1-44, 1E1-45)
- 1E1-40** Young Scholar Lectures of CSJ Atomic/molecular level observation and understanding of chemical processes at solid/gas and solid/liquid interfaces of practical interest (CRC, Hokkaido Univ.) TAKAKUSAGI, Satoru
- 1E1-43** AFM study of relative stabilities of crystal faces of calcite (CaCO<sub>3</sub>) by observing dissolution processes in aqueous ethanol solutions of acetic acid (Graduate School of Science and Engineering, Chuo Univ.) YAMAMURA, Ryohei; NIKI, Kaori; SHINDO, Hitoshi
- 1E1-44** Self-ordering of silicon polymer studied by X-ray absorption spectroscopy (Japan Atomic Energy Agency, High Energy Accelerator Research Organization) MANNAN, Md. Abdul; BABA, Yuji; SEKIGUCHI, Tetsuhiro; SHIMOYAMA, Iwao; HIRAO, Norie; NARITA, Ayumi; NNAGANO, Masamitsu; NOGUCHI, Hideyuki
- 1E1-45** Anomalous infrared absorption of alkanethiolate monolayer on copper mesh (Kyoto Univ.) ETO, Jyunji; INO, Daisuke; WATANABE, Kazuya; NAKAI, Ikuyo; FURUKAWA, Daisuke; MATSUMOTO, Yoshiyasu

Chair: MATSUMOTO, Yoshiyasu (16:40~17:50)

- \* 16:30-16:40: interval for laptop PC connection.(1E1-47, 1E1-49, 1E1-51, 1E1-53)
- 1E1-47\*** Time-resolved IR study of the destruction of the hydration shell of ions at the liquid/solid interface (Catalysis Research Center, Hokkaido Univ.) YAMAKATA, Akira; OSAWA, Masatoshi
- 1E1-49\*** Chemical state of organic molecules with silicon alkoxide on oxide surface (Japan Atomic Energy Agency) NARITA, Ayumi; BABA, Yuji; SEKIGUCHI, Tetsuhiro; SHIMOYAMA, Iwao; HIRAO, Norie; YAITA, Tsuyoshi
- 1E1-51\*** Structure of Adsorbed Perfluoro Sulfonated Polymer on Pt and Carbon Electrodes (Graduate School of Science, Hokkaido Univ.) MASUDA, Takuya; NAOHARA, Hideo; PANKAJ, Singh; UOSAKI, Kohei
- 1E1-53\*** AFM Study of Corrosion Process of Highly Oriented Pyrolytic Graphite (HOPG) Surface Induced by Adsorption of Perfluoro Sulfonated Polymer (Graduate School of Science, Hokkaido Univ.) SINGH, Pankaj R.; NAOHARA, Hideo; MASUDA, Takuya; UOSAKI, Kohei

### Saturday, March 27, AM

Chair: OKUYAMA, Hiroshi (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2E1-01, 2E1-02, 2E1-03, 2E1-04, 2E1-05, 2E1-06)
- 2E1-01** Adsorption states and ultraviolet induced reaction of propylene on vanadium oxide thin films (Kyoto Univ.; PRESTO-JST; IMS) HIRAI, Yasunobu; NAKAI, Ikuyo; NAMBU, Noriyuki; WATANABE, Kazuya; MATSUMOTO, Yoshiyasu
- 2E1-02** Controlling of the interface interaction between Pt and graphite by N<sub>2</sub><sup>+</sup> sputtering (Univ. of Tsukuba) SUZUKI, Tetsuya; KONDO, Takahiro; NAKAMURA, Junji
- 2E1-03** Reaction mechanism of saturated hydrocarbon oxidation in CaY zeolites studied with FT-IR absorption spectroscopy (Kyoto Univ.) SHIRAI, Kenji; NAKAI, Ikuyo; WATANABE, Kazuya; NISHIYAMA, Norikazu; MATSUMOTO, Yoshiyasu
- 2E1-04** Reactivity and the interface interaction of the Fe cluster on the graphite surface (Pure and Applied Sciences, Univ. of Tsukuba) ARAKAWA, Keitaro; HATAKE, Daigo; OH, June Pyo; KONDO, Takahiro; NAKAMURA, Junji
- 2E1-05** Carbon monoxide oxidation reaction on Pt(111) surface studied by

dispersive NEXAFS (High Energy Accelerator Research Organization Photon Factory) KOUASA, Yuka; ABE, Hitoshi; HARADA, Taiga; NAKAYA, Koichiro; NAKAMOTO, Syuichi; SUMII, Ryouhei; AMEMIYA, Kenta; KONDOH, Hiroshi

- 2E1-06** Spatial distribution of desorbing N<sub>2</sub> in thermal decomposition of N<sub>2</sub>O on stepped Pd(112) (Pure and Applied Sci., Univ. of Tsukuba) SAKURAI, Masataka; MATSUSHIMA, Tatsuo; KONDO, Takahiro; NAKAMURA, Junji

Chair: KONDOH, 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** Edge states propagating from vacancy of graphite detected by STS. (Univ. of Tsukuba) MACHIDA, Takahiro; HONMA, Yujiro; KONDOU, Takahiro; NAKAMURA, Junji
- 2E1-09** Aggregation and valence electronic state of potassium on benzene layer (The Univ. of Tokyo) AOKI, Masaru; SOGO, Mauo; SAKAMOTO, Yuichi; MASUDA, Shigeru
- 2E1-10** Adsorbed States and Electronic Structures of Naphthalene on HOPG (Graduate School of Science, Osaka Univ.) ISOBE, Mio; TAKANO, Yasuhiro; SHIBUTA, Masahiro; YAMADA, Takashi; MIYAKUBO, Keisuke; MUNAKATA, Toshiaki
- 2E1-11** The origin of multiple softened C-H stretching vibrational modes of cyclohexane on Rh(111) (The Institute for Solid State Physics, The Univ. of Tokyo) KOITAYA, Takanori; MUKAI, Kozo; YOSHIMOTO, Shinya; YOSHINOBU, Jun
- 2E1-12<sup>†</sup>** A theoretical study of the adsorption of oxygen atom/molecule on ZrC (100) and NbC(100) surfaces (Rikkyo Univ.) IMAMURA, Kenji; OZAWA, Kenichi; EDAMOTO, Kazuyuki
- 2E1-13** Vibrational phase relaxation of C-O stretching mode on Pt(111) under the condition of photo stimulated desorption. (Kyoto Univ.) INOUE, Ken-ichi; WATANABE, Kazuya; NAKAI, Ikuyo; MATSUMOTO, Yoshiyasu

Chair: NAKAI, Ikuyo (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(2E1-15, 2E1-16, 2E1-18, 2E1-19, 2E1-20)
- 2E1-15** AFM study of adsorption of pyrimidine derivatives at chiral HgS(10-10) surfaces (Graduate School of Science and Engineering, Chuo Univ.) SHIROTA, Yusuke; NIKI, Kaori; SHINDO, Hitoshi; KAWASAKI, Tsunecomi; SOAI, Kenso
- 2E1-16\*** Study of multiple proton transfer in a hydrogen-bonded complex assembled on Cu(110) (Kyoto Univ.; Tohoku Univ.; Osaka Univ.) OKUYAMA, Hiroshi; KUMAGAI, Takashi; HATTA, Shin-ichiro; ARUGA, Tetsuya; HAMADA, Ikutaro; MORIKAWA, Yoshitada
- 2E1-18** Molecule-Adsorption-Induced Metallization of Zinc Oxide Surfaces (Tokyo Inst. Tech.; KEK) OZAWA, Kenichi; MASE, Kazuhiko
- 2E1-19** Electronic excitation process on lead phthalocyanine thin films studied by resonant two-photon photoemission spectroscopy (Graduate School of Science, Osaka Univ.) SHIBUTA, Masahiro; YAMAMOTO, Kenta; YAMADA, Takashi; MIYAKUBO, Keisuke; MUNAKATA, Toshiaki
- 2E1-20** The surface electronic structure of a Ni<sub>2</sub>P(10-10)anisotropic surface (Rikkyo Univ.; Tokyo Institute of Technology) EDAMOTO, Kazuyuki; YASUNO, Nobuyuki; KAKEFUDA, Yohei; OZAWA, Ken-ichi

### Saturday, March 27, PM

Chair: FUYUKI, Masanori (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(2E1-28, 2E1-29, 2E1-30, 2E1-32, 2E1-33)
- 2E1-28** Surface-enhanced Raman scattering of optically trapped Escherichia coli (AIST) KITAHAMA, Yasutaka; ITOH, Tamitake; ISHIDOU, Tomomi; HIRANO, Ken; ISHIKAWA, Mitsuru
- 2E1-29** Surface-enhanced Raman scattering measurement of thiocyanine molecules by using optical trapping (Kwansei Gakuin Univ.; AIST) KASHIHARA, Masato; KITAHAMA, Yasutaka; TANAKA, Yuhei; ITOH, Tamitake; OZAKI, Yukihiko
- 2E1-30\*** Development of the hollow optical fiber SERS probe using gold nanoparticle and measurement of the biological samples (Kwansei Gakuin Univ.) SUZUKI, Toshiaki; SATO, Hidetoshi; KATAGIRI, Takashi; MATSUURA, Takashi; OZAKI, Yukihiko
- 2E1-32** *In-situ* SERS observation of the dynamics defining preferential orientation of a small number of molecule (Hokkaido Univ.) NAGASAWA, Fumika; TAKASE, Mai; YASUDA, Satoshi; NABIKA, Hideki; MURAKOSHI, Kei
- 2E1-33** Two-color sum-frequency generation study of PFO/PEDOT:PSS interfaces (AIST) MIYAMAE, Takayuki; TSUKAGOSHI, Kiyomi; MIZUTANI, Wataru

Chair: SAKAMOTO, Akira (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(2E1-35, 2E1-38, 2E1-39)
- 2E1-35** Young Scholar Lectures of CSJ Construction of an IR super-resolution microscope and its application to living cells (Chem. Res. Lab., Tokyo Tech) SAKAI, Makoto
- 2E1-38** Infrared and Raman spectroscopic analyses of a regenerating scale (Tokyo Med. Dent. Univ.; Osaka Univ.) NARA, Masayuki; HATTORI,

Atsuhiko; MATSUDA, Junichi

**2E1-39\*** Development of vibrational single-protein spectroscopy (Tokyo Tech) FUJIYOSHI, Satoru; FURUYA, Yo; ISEKI, Mineo; WATANABE, Masakatsu; MATSUSHITA, Michio

Chair: SAKAI, Makoto (15 : 50~16 : 40)

\* 15:40-15:50: interval for laptop PC connection.(2E1-42, 2E1-44, 2E1-46)

**2E1-42\*†** *In vivo* Raman measurements of cyanobacteria with 1064 nm excited Raman microspectroscopic system (The Univ. of Tokyo) ANDO, Masahiro; SUGIURA, Miwa; HAYASHI, Hidenori; HAMAGUCHI, Hiro-o

**2E1-44\*** Identification of the Fe-O<sub>2</sub> and the Fe=O Heme Species for Indoleamine 2,3-Dioxygenase during Catalytic Turnover (Univ. of Hyogo Picobiology Institute, RIKEN Spring-8 Center) YANAGISAWA, Sachiko; HORITANI, Masaki; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; APPELMAN, Evan H.; OGURA, Takashi

**2E1-46** Mechanism of the Infrared Intensity Enhancement of the Amide I Mode Induced by Halogen Bonding (Shizuoka Univ.) TORII, Hajime

Chair: WADA, Akihide (16 : 50~17 : 40)

\* 16:40-16:50: interval for laptop PC connection.(2E1-48, 2E1-49, 2E1-50, 2E1-51, 2E1-52)

**2E1-48†** Photolysis of aromatic alcohols (Tokyo Univ. of Agriculture and Technology; BASE) SEKINE, Masahiko; NAKATA, Munetaka

**2E1-49** Construct of a near-infrared excited Raman optical activity spectrometer (Saga Univ.) SHINGAE, Takahito; UNNO, Masashi

**2E1-50** Measurements and Analyses of Infrared Absorption Spectrum of Radical Cation of [3<sub>a</sub>](1,2,4,5)Cyclophane (Graduate School of Science and Engineering, Saitama Univ.; IMCE, Kyushu Univ.) TANAKA, Nobuki; SAKAMOTO, Akiara; SHINMYOZU, Teruo

**2E1-51** Freezing and Melting Behavior of Water in Aerosol OT Reversed Micelle monitored by Generalized Two-Dimensional Correlation Infrared Spectroscopy (Tokyo Univ. of Science) SUZUKI, Akira; KONNO, Kohzoh; KATO, Chigusa; YUI, Hiroharu

**2E1-52** Resonance Raman study on the ferryl-oxo iron porphyrins with various imidazole derivatives as axial ligand (Univ. of Hyogo) ISHIMARU, Hirohito; FUJII, Hiroshi; OGURA, Takashi

## Sunday, March 28, AM

Chair: ISHIIUCHI, Shun-Ichi (9 : 00 ~ 9 : 50)

\* 8:50-9:00: interval for laptop PC connection.(3E1-01, 3E1-02, 3E1-03, 3E1-04, 3E1-05)

**3E1-01** Matrix-isolation infrared spectroscopy of TFA hydrates (AIST) ITO, Fumiyuki

**3E1-02** Infrared Spectrum of Nitro(5,10,15,20-tetraphenylporphyrinato)(4-methylpyridine)cobalt(III) (part 4) YAMAMOTO, Kenichi

**3E1-03** Solvent effect about OH stretching vibration bands of Phenol and the derivatives in non-polar solvent (Kwansei Gakuin Univ., School of Science and Technology) GONJO, Takayuki; MORISAWA, Yuusuke; SUZUKI, Toshiaki; DOI, Atsushi; OZAKI, Yukihiko

**3E1-04** Neon matrix isolation FT-IR spectroscopy of the HOBr intermediate (Tokyo Institute of Technology) WAKAMATSU, Daisuke; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko

**3E1-05** Matrix-isolation IR spectroscopy of ionic liquids (Tokyo Institute of Technology) AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko

Chair: ITO, Fumiyuki (10 : 00~10 : 40)

\* 9:50-10:00: interval for laptop PC connection.(3E1-07, 3E1-08, 3E1-09)

**3E1-07** Electronic and vibrational spectra of jet-cooled Z-Pro-Leu-Gly-NH<sub>2</sub> obtained by laser desorption supersonic jet spectroscopy- Structural determination of stable conformers in gas-phase (Chemical Resources Laboratory, Tokyo Tech.) YAMADA, Kouhei; ASAKAWA, Toshiro; ISHIKAWA, Jun; ISHIIUCHI, Shun-ichi; TSUKIYAMA, Koichi; FUJII, Masaaki

**3E1-08** Time-resolved Fourier transform spectroscopy of laser ablated products (Graduate School of Okayama Univ.) KAWAGUCHI, Kentarou; IKEDA, Naomi; FUJIMORI, Ryuji

**3E1-09\*** Rovibronic interactions in the NO<sub>3</sub> radical (Grad. Univ. Adv. Studies; Hiroshima City Univ.; Okayama Univ.) HIROTA, Eizi; ISHIWATA, Takashi; KAWAGUCHI, Kentarou; SHIMIZU, Natsuko; FUJIMORI, Ryuji

Chair: FUKUSHIMA, Masaru (10 : 50~11 : 40)

\* 10:40-10:50: interval for laptop PC connection.(3E1-12, 3E1-14, 3E1-16)

**3E1-12\*** Ultrahigh-resolution Laser Spectroscopy of the B-X Transition of Nitrate Radical (Kobe Univ.; Kyoto Univ.; Hiroshima City Univ.; Grad. Univ. Adv. Studies) KASAHARA, Shunji; TADA, Kohei; BABA, Masaaki; ISHIWATA, Takashi; HIROTA, Eizi

**3E1-14\*** LC-UDFT study on the third-order nonlinear optical properties of open-shell singlet systems (Osaka Univ.) KISHI, Ryohei; YONEDA, Kyohei; TAKAHASHI, Hideaki; KAMADA, Kenji; OHTA, Koji; KUBO, Takashi; TSUNEDA, Takao; NAKANO, Masayoshi

**3E1-16** Room Temperature Phosphorescence and Triplet State Decay of Naphthalene Derivatives Included in Cyclodextrins (Iwate Univ.; Iwate Univ.) SUZUKI, Eiichi; KUDOU, Kenya; ENDO, Tatsuya; YASHIRO, Hitoshi; KAWATA, Hiroki

Chair: KASAHARA, Shunji (11 : 50~12 : 30)

\* 11:40-11:50: interval for laptop PC connection.(3E1-18, 3E1-19, 3E1-20)

**3E1-18** Jet Spectroscopy of Silicon Containing Free Radicals (Faculty of Information Sciences, Hiroshima City Univ.) FUKUSHIMA, Masaru; ISHIWATA, Takashi

**3E1-19** S<sub>1</sub>-S<sub>0</sub> Electronic Absorption Spectra on Vaporized Ionic Liquids Based on Imidazolium and Pyridinium Cations (Tokyo Inst. of Tech.) OGURA, Takahiro; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko

**3E1-20\*** Effect of hydrogen bonding in electronic state of acetone studied by using attenuated total reflection - far ultraviolet spectroscopy (Kwansei Gakuin Univ.; NFRI; KURABO INDUSTRIES LTD.) MORISAWA, Yusuke; IKEHATA, Akifumi; HIGASHI, Noboru; OZAKI, Yukihiko

## Sunday, March 28, PM

Chair: KASAHARA, Shunji (13 : 40~14 : 10)

\* 13:30-13:40: interval for laptop PC connection.(3E1-29, 3E1-30, 3E1-31)

**3E1-29** Fourier transform microwave spectrum of CO<sub>2</sub>-propylene oxide complex (Kanagawa Inst. Tech.; Grad. Univ. Adv. Studies) ORITA, Yukari; KAWASHIMA, Yoshiyuki; HIROTA, Eizi

**3E1-30** Fourier transform microwave spectrum of 1,4-pentadiene (Kanagawa Inst. Tech.; Grad. Univ. Adv. Studies) WATANABE, Ryo; KAWASHIMA, Yoshiyuki; HIROTA, Eizi

**3E1-31** Fourier transform microwave spectrum of 4-vinyl-1-cyclohexeneoxide complex (Kanagawa Inst. Tech.; NIST; Grad. Univ. Adv. Studies) NAKANISHI, Yuko; KAWASHIMA, Yoshiyuki; SUENRAM, Richard D.; LAVRICH, Richard J.; HIROTA, Eizi

Chair: YAMAKADO, Hideo (14 : 20~15 : 10)

\* 14:10-14:20: interval for laptop PC connection.(3E1-33, 3E1-35, 3E1-36, 3E1-37)

**3E1-33\*** Electronic and crystallographic characterization of a novel Na-bisazo complex pigment (Graduate School of Eng., Yokohama Natl. Univ.; Fujifilm Co.) MIZUGUCHI, Jin; SHIBATA, Hiroki; TATEISHI, Keiichi

**3E1-35** Crystal structure of a novel monoazo pigment (Graduate School of Eng., Yokohama Natl. Univ.) SHIBATA, Hiroki; MIZUGUCHI, Jin

**3E1-36** Crystal Structure Comparison of Tetracaine Hydrochloride Hydrates (Tokyo Inst. of Tech.) INA, Sayaka; SEKINE, Akiko; UEKUSA, Hidehiro; ITODA, Naoko; YONEMOCHI, Etsuo; TERADA, Katsuhide

**3E1-37** Crystal Structure of Cobaloxime Complex with salicylideneaminopyridine derivative as an axial base ligand (Tokyo Institute of Technology Department of Chemistry and Materials Science) SEKINE, Akiko; JOHIMOTO, Kohei; UEKUSA, Hidehiro

Chair: UEKUSA, Hidehiro (15 : 20~16 : 00)

\* 15:10-15:20: interval for laptop PC connection.(3E1-39, 3E1-40, 3E1-42)

**3E1-39** Hierarchical Construction and Guest-responsive properties of Fluorescent Porous Crystals composed of Supramolecular Clusters of Triphenylmethylammonium (Graduate School of Engineering, Osaka Univ.) YAMAMOTO, Atsushi; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji

**3E1-40\*** Development and Improvement of Portable Raman Imaging Spectrometers for Studying Cultural Properties (Graduate School of Science and Engineering, Saitama Univ.; S.T. Japan Inc.; National Museum of Japanese History) SAKAMOTO, Akira; OCHIAI, Shukichi; HIGASHIYAMA, Hisamitsu; MASUTANI, Koji; KIMURA, Jun-ichi; KOSETO-HORYU, Emi

**3E1-42** Prediction of crystal structures by using the SHS method (2) (Wakayama Univ.; Toyota Phys. & Chem. Research Institute.) YAMAKADO, Hideo; TOKOYAMA, Hiroaki; MAEDA, Satoshi; OHNO, Koichi

# Room E2

Bldg.33 33-302

## Physical Chemistry -Chemical Kinetics and Dynamics-

Friday, March 26, AM

Chair: KUMAZAKI, Shigeichi (9 : 30 ~ 10 : 00)

\* 9:20-9:30: interval for laptop PC connection.(1E2-04, 1E2-05, 1E2-06)

**1E2-04** Nonlinear electrical conduction in hybrid microbial-electrochemical system (RCAST, The Univ. of Tokyo) NAKANISHI, Shuji; LIU, Huan; MATSUDA, Shoichi; HASHIMOTO, Kazuhito

**1E2-05** Clarification of the key heme in cytochrome c<sub>3</sub> to the electron pool (Department of Bioengineering, Tokyo Institute of Technology) KOBAYASHI, Eisuke; OKURA, Ichiro; ASAKURA, Noriyuki

**1E2-06** Monitoring of the electron transfer between hemeI-oriented cytochrome c<sub>3</sub> electrode and hydrogenase (Department of Bioengineering, Tokyo Institute of Technology) TAGI, Masaki; TEZUKA, Takumi; MATSUMOTO, Hiromu; OKURA, Ichiro; ASAKURA, Noriyuki

Chair: ASAKURA, Noriyuki (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1E2-08, 1E2-09, 1E2-10, 1E2-11, 1E2-12)
- 1E2-08** Elucidation of elementary processes in MALDI: Proton transfer reaction between amino acids and matrix molecules (Niigata Univ. of Pharm. and Appl. Life Sci.) TSUGE, Masashi; HOSHINA, Kennosuke
- 1E2-09** Measurements of intracellular pH in a single cell using the fluorescence lifetime imaging of enhanced yellow fluorescent protein (EYFP) (RIES, Hokkaido Univ.; Fac. Adv. Life Sci., Hokkaido Univ.) OSHITA, Shugo; NAKABAYASHI, Takakazu; SUMIKAWA, Ryoya; KINJO, Masataka; OHTA, Nobuhiro
- 1E2-10** Photophysics of autofluorescent species in cells (2): Dependence on alcohol concentration of femto-nanosecond fluorescence dynamics of FAD (RIES, Hokkaido Univ.) NAKABAYASHI, Takakazu; OHTA, Nobuhiro
- 1E2-11** Temperature dependence of proton transfer reaction of protein ions (Yokohama City Univ.) YAMASHITA, Kazuki; OKAMURA, Takuya; YUKI, Chihiro; NONOSE, Shinji
- 1E2-12\*** Temperature dependence of reactions and structures for isolated protein ions (Yokohama City Univ.) NONOSE, Shinji; OKAMURA, Takuya; YAMASHITA, Kazuki

Chair: NONOSE, Shinji (11:20~12:10)

- \* 11:10-11:20: interval for laptop PC connection.(1E2-15, 1E2-16, 1E2-18)
- 1E2-15** Two-photon excitation fluorescence microspectroscopy aided by absorption microspectroscopy to determine fluorescence quantum yield and morphology of thylakoid membranes in single cells. (Kyoto Univ.) YABUTA, Mitsunori; HASEGAWA, Makoto; YOSHIDA, Takahiko; TERAZIMA, Masahide; IKEGAMI, Isamu; KUMAZAKI, Shigeichi
- 1E2-16\*** Photosystem-selective excitation inside plant chloroplasts observed by near-infrared laser-based fluorescence microspectroscopy (Grad. Sch. Sci., Kyoto Univ.) KUMAZAKI, Shigeichi; HASEGAWA, Makoto; TERAZIMA, Masahide; SHIINA, Takashi
- 1E2-18\*†** Crowding effect on reaction dynamics of blue light sensor protein TePixD (Grad. Sch. Sci., Kyoto Univ.) TOYOOKA, Tsuguyoshi; TANAKA, Keisuke; OKAJIMA, Koji; IKEUCHI, Masahiko; TOKUTOMI, Satoru; TERAZIMA, Masahide

## Friday, March 26, PM

Chair: SUENOBU, Tomoyoshi (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(1E2-34, 1E2-35, 1E2-36, 1E2-37, 1E2-38)
- 1E2-34** Hydrogen bonding effects on photo-induced electron transfer reactions: concerted pathway vs. stepwise pathway (Saitama Univ.) YAGO, Tomoaki; WAKASA, Masanobu
- 1E2-35** Photo-fuel cells using glucose-dispersing titania (Shinshu Univ.) ISOMURA, Kazuhiro; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo
- 1E2-36** Dye-sensitized photocurrent property of multiwalled carbon nanotubes through titania gel (Shinshu Univ.) OHTA, Takuma; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; ENDO, Morinobu; FUJII, Tsuneo
- 1E2-37** Photoelectric conversion using dye-titania compositionally graded materials (Shinshu Univ.) SETIAWAN, Rudi Agus; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo
- 1E2-38\*** Photo-Absorption and Charge-Transfer Processes of Phosphorous(V) porphyrin Derivatives with *N,N*-Dimethylaminophenyl Groups (RCST, The Univ. of Tokyo) FUJINUMA, Naohiro; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

Chair: ITO, Fuyuki (15:40~16:40)

- \* 15:30-15:40: interval for laptop PC connection.(1E2-41, 1E2-43, 1E2-45, 1E2-46)
- 1E2-41\*†** Construction and Photodynamics of Zinc Porphyrin Trimer-Gold Porphyrin Complex (Osaka Univ.; SORST/JST; Universite de Bourgogne) TAKAI, Atsuro; CHKOUNDA, Mohammed; GROS, Claude P.; BARBE, Jean-michel; FUKUZUMI, Shunichi
- 1E2-43\*†** Photoinduced electron transfer dynamics in metalloporphyrin-flavin dyads (Osaka Univ.; SORST(JST); Univ. of Tsukuba) NAKANISHI, Tatsuki; OHKUBO, Kei; KOJIMA, Takahiko; FUKUZUMI, Shunichi
- 1E2-45** Construction and photodynamics of novel conglomerates composed of Al(III)-porphyrins and electron acceptors (Graduate School of Engineering, Osaka Univ.; SORST(JST)) KANEMATSU, Masanori; KOJIMA, Takahiko; FUKUZUMI, Shunichi
- 1E2-46\*** Photophysical properties of newly synthesized ferrocene-appended pyrrolidine- and cyanoperyleneimides and control of photoinduced electron transfer by scandium ion (Osaka Univ., Ajou Univ.) SUPUR, Mustafa; EL-KHOULY, Mohamed E.; KAY, Kwang-yol; FUKUZUMI, Shunichi

Chair: NAKAZAKI, Jotaro (16:50~17:40)

- \* 16:40-16:50: interval for laptop PC connection.(1E2-48, 1E2-49, 1E2-51)
- 1E2-48** Construction and photoinduced electron transfer dynamics of saddle-distorted porphyrin dication supramolecules linked with electron donors by hydrogen bonding (Osaka Univ.; SORST(JST); Univ. of Tsukuba) HONDA, Tatsuhiko; NAKANISHI, Tatsuki; OHKUBO, Kei; KOJIMA, Takahiko; FUKUZUMI, Shunichi

- 1E2-49\*** Formation of Long-Lived Triplet Charge-Separated States of Aromatic Amine-Substituted Coumarin Derivatives and Application to Photo-responsive Dielectric Materials (Osaka Univ.; SORST, JST) MURAKAMI, Motonobu; OHKUBO, Kei; SAKAI, Heisuke; MURATA, Hideyuki; FUKUZUMI, Shunichi
- 1E2-51\*** Construction of Single-Walled Carbon Nanotube-Based Nanohybrids Wrapped with Redox-Active Coenzymes and Photoinduced Electron Transfer (Graduate School of Engineering, Osaka Univ.; SORST) OHTANI, Masataka; FUKUZUMI, Shunichi

## Saturday, March 27, AM

Chair: YAGO, Tomoaki (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2E2-01, 2E2-02, 2E2-03, 2E2-05)
- 2E2-01** Studies on Spacer Effects for Photo-induced Charge Separation of BODIPY-(Electron-donor)-Linked Platinum Complex System (Osaka City Univ., Graduate School of Science) IEKI, Nobuhiro; SUZUKI, Shuichi; SUGIMURA, Ryoji; NAITOH, Takahiro; KOZAKI, Masatoshi; KEYAKI, Kazutoshi; NOZAKI, Koichi; IKEDA, Noriaki; AKIYAMA, Kimio; OKADA, Keiji
- 2E2-02** Supramolecular Formation of Zinc Phthalocyanine with Imidazolyl-*p*-terylenebisimide and Photoinduced Electron Transfer (Osaka Univ.; SORST, JST; Univ. Miguel Hernandez) OHKUBO, Kei; SASTRE-SANTOS, Angela; FUKUZUMI, Shunichi
- 2E2-03\*** Electron transfer processes in supramolecular donor-acceptor dyads of Zn hemiporphyrine (ISIR, Osaka Univ.; Grad. Sch. Eng., Kyushu Univ.) FUJITSUKA, Mamoru; SHIMAKOSHI, Hisashi; MAEDA, Daisuke; TOJO, Sachiko; HISAEDA, Yoshio; MAJIMA, Tetsuro
- 2E2-05\*\*** Solvent-Polarity Dependence of Electron Transfer Kinetics in a CdSe/ZnS Quantum Dot-Pyromellitimide Conjugate (ISIR, Osaka Univ.) CUI, Shi-cong; TACHIKAWA, Takashi; FUJITSUKA, Mamoru; MAJIMA, Tetsuro

Chair: TERAZIMA, Masahide (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(2E2-08, 2E2-10, 2E2-11, 2E2-12)
- 2E2-08\*** Ultrafast Reactive Dynamics of a Diphenylmethane dye in Nano-Constrained Environments (Univ. of East Anglia) KONDO, Minako
- 2E2-10** Unexpected Enhancement of Vibrational Coherence by Femtosecond Degrade Four-Wave-Mixing (Osaka Univ.; Kyokugen) NAGASAWA, Yutaka; ITO, Shoichi; MIYASAKA, Hiroshi
- 2E2-11** Effect of ultrafast electron transfer in electron-donating solvents measured by 3 pulse photon echo method. (Graduate School of Engineering Science and Center for Quantum Materials Science under Extreme Conditions, Osaka Univ.) MURAMATSU, Masayasu; NAGASAWA, Yutaka; MIYASAKA, Hiroshi
- 2E2-12\*** Real-time spectroscopy of J-Aggregates with an ultrashort pulse (The Univ. of Electro-Communications; International Cooperative Research Project (ICORP); National Chiao Tung Univ.; Osaka Univ.) KOBAYASHI, Takayoshi; HANAMOTO, Tomohiro

Chair: MIYASAKA, Hiroshi (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(2E2-15, 2E2-17, 2E2-19)
- 2E2-15\*†** Elucidation of photoreaction dynamics of triiodide in room temperature ionic liquids (Kyoto Univ.) NISHIYAMA, Yoshio; TERAZIMA, Masahide; KIMURA, Yoshifumi
- 2E2-17\*†\*** Solvation and hindered recombination of electrons generated in aqueous micellar solution observed with femtosecond time-resolved near-infrared spectroscopy (Gakushuin Univ.; Univ. Tokyo) YE, Manping; TAKAYA, Tomohisa; IWATA, Koichi
- 2E2-19\*** A Time-Resolved Fluorescence Study on Acetylene-Linked Pyrene Dimers: Effect on Peripheral Substituents (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) ASANO, Motoko; KITABAYASHI, Masato; FUJINO, Tatsuya; KUDAKA, Mami; YAMASHITA, Ken-ichi; HADA, Masahiko; SUGIURA, Ken-ichi

## Saturday, March 27, PM

Chair: KUMAGAI, Jun (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(2E2-28, 2E2-29, 2E2-30, 2E2-31, 2E2-32)
- 2E2-28** Spin Dynamics of Photogenerated Biradical in Zinc Porphyrin-Viologen Linked Compounds in Various Ionic Liquids - Effect of Ionic Species - (Dept. Appl. Chem., Fac. Eng., Kyushu Univ.) TAHARA, Hironobu; YONEMURA, Hiroaki; HARADA, Satoko; YAMADA, Sunao
- 2E2-29** Magnetic Field Effects on the Decay Rates of Biradicals from Photoinduced Intramolecular Electron-Transfer Reactions in Phenothiazine- $C_{60}$  Linked Compounds: Effect of Semi-Rigid Spacers (Fac. Eng., Kyushu Univ.; Grad. Sch. Eng., Kyushu Univ.) YAMASHITA, Tetsuya; YONEMURA, Hiroaki; MORIBE, Shinya; YAMADA, Sunao
- 2E2-30** Magnetic Field Effects on Photochemistry reaction in a ruthenium-porphyrine-fullerene( $C_{60}$ ) ligand complex (Fac. Eng., Kyushu Univ.; Grad. Sch. Eng., Kyushu Univ.) YONEMURA, Hiroaki; MOTODA, Yuki; YAMADA, Sunao

**2E2-31** NMR characterization of photo-reaction products from polyyne and iodine molecules (Kinki Univ., Dept.Chem.) WADA, Yoriko; WAKABAYASHI, Tomonari; MINEMATSU, Toshie; KAI, Yasunori; KATO, Tatsuhisa

**2E2-32\*** High frequency CW/Pulse EPR Studies of the Primary Charge-Separation Process in the Reaction Center of Photosystem I (Tohoku Univ.; Argonne National Laboratory; Univ. of Freiburg) MATSUOKA, Hideto; NISHIYAMA, Kei; OHBA, Yasunori; YAMAUCHI, Hideto; POLUEKTOV, Oleg; UTSCHIG, Lisa; THURNAUER, Marion C.; KOTHE, Gerd

Chair: KATO, Tatsuhisa (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2E2-35, 2E2-37, 2E2-38, 2E2-39, 2E2-40)

**2E2-33\*** Effects of additives on large precession motion of  $H_6^+$  and  $H_4D_2^+$  in solid parahydrogen (Nagoya Univ.; JAEA) SHIMIZU, Yuta; INAGAKI, Makoto; KUMADA, Takayuki; KUMAGAI, Jun

**2E2-37** Pulsed microwave effects on the hydrogen abstraction of benzophenone in micellar solution (Graduate School of Science and Engineering, Saitama Univ.) IWAMI, Noriyuki; YAGO, Tomoaki; WAKASA, Masanobu

**2E2-38** Alkyl-chain length effect of ionic liquids as studied by the MFE probe (Graduate School of Science and Engineering, Saitama Univ.) OKADA, Tomohide; YAGO, Tomoaki; TAKAMASU, Tadashi; WAKASA, Masanobu

**2E2-39** Magnetic field effect on the photocatalytic reaction of 2-PROH with magnetic photocatalyst (Graduate School of Science and Engineering, Saitama Univ.) ABE, Toshiki; WAKASA, Masanobu

**2E2-40** Photocatalytic synthesis of perfume raw material in a microreactor (Tokyo Institute of Technology) SAKAI, Yu; MATSUSHITA, Yoshihisa; SUZUKI, Tadashi; ICHIMURA, Tejiro; SEKINE, Yoshiyuki

Chair: ICHIMURA, Tejiro (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(2E2-42, 2E2-43, 2E2-44, 2E2-45, 2E2-46)

**2E2-42** Study of phase transition and phase separation dynamics of poly(N-isopropylacrylamide) using temperature jump near field heterodyne transient grating method (Chuo Univ.) INOUE, Hayato; EITOKU, Takeshi; KATAYAMA, Kenji

**2E2-43** Photochemically-induced crystallization of protein enhanced by gold-nano structure (Department of Chemistry, Graduate School of Engineering, Gunma Univ.) HARUTA, Susumu; MISAWA, Hiroaki; UENO, Kousei; NISHII, Junji; YOKOTA, Yukie; OKUTSU, Tetsuo

**2E2-44** Photo-induced concentration of water in undersaturation atmosphere (Dept. of Chem, bio., Gunma Univ.) SAITOH, Masaki; YOSIHARA, Keitaro; KAZII, Yosizumi; HORIUTI, Hiroaki; HIRATSUKA, Hiroshi; OKUTSU, Tetsuo

**2E2-45** Probing Photocatalytic Active Sites of Single Titanosilicate Zeolite with Fluorescent Probe (ISIR, Osaka Univ.) YAMASHITA, Soichiro; TACHIKAWA, Takashi; MAJIMA, Tetsuro

**2E2-46\*** Evaluating Host-Guest Interactions in a Metal-Organic Framework Using a Fluorescent Probe (ISIR, Osaka Univ.) CHOI, Jun Rye; TACHIKAWA, Takashi; FUJITSUKA, Mamoru; MAJIMA, Tetsuro

Chair: OKUTSU, Tetsuo (17 : 00~17 : 40)

\* 16:50-17:00: interval for laptop PC connection.(2E2-49, 2E2-51, 2E2-52)

**2E2-49\*** Fluorescence properties of aggregated pyrene derivatives in polymer films and crystallization behavior (Fac. of Education, Shinshu Univ.; Fac. of Engineering, Kyushu Univ.) ITO, Fuyuki; KAKIUCHI, Toshifumi; NAGAMURA, Toshihiko

**2E2-51** Reaction dynamics in a photo-controlled chemical oscillator using benzoquinone (Yokohama Natl. Univ.) TAKAHASHI, Yoshiaki; WANG, Jichang; AMEMIYA, Takashi; ITOH, Kiminori

**2E2-52** Controlling of Liquid Motion by the Chromocapillary Effect (Ecole Normale Supérieure; Kyoto Univ.) DIGUET, Antoine; MAGOME, Nobuyuki; AGLADZE, Konstantin; YOSHIKAWA, Kenichi; BAIGL, Damien

## Sunday, March 28, AM

Chair: NEGISHI, Yuichi (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3E2-01, 3E2-02, 3E2-03, 3E2-04, 3E2-05)

**3E2-01** Separation and Purification of  $N@C_{60}$  (Kinki Univ.; Dept. Chem.) WAKABAYASHI, Tomonari; YOSHIKAWA, Airi; WADA, Yoriko

**3E2-02** Control of Orientation of Single-Walled Carbon Nanotubes using Magnetic Field (Fac. Eng., Kyushu Univ.; Grad. Sch. Eng., Kyushu Univ.) MATSUURA, Kakeru; YONEMURA, Hiroaki; SUYAMA, Junichi; YAMADA, Sunao

**3E2-03** Fabrication of biomacromolecule nanowires by Single Particle Nanofabrication Technique (Graduate School of Engineering, Osaka Univ.) ASANO, Atsushi; TSUKUDA, Satoshi; SUGIMOTO, Masaki; SEKI, Shu

**3E2-04** Consideration of cis-trans isomers of  $M(CO)_4(C_2H_4)_2$   $M = (Cr, Mo, W)$  by DFT calculation (Kyoto Institute of Technology) MIYASAKA, Shuichi; OKADA, Arifumi; ISHIKAWA, Yo-ichi

**3E2-05\*** Highly Emissive and Water Dispersible CdTe Quantum Dots: the Photo-physical Control by Capping Molecules (Saitama Univ.) EMIN,

Saim; NAKABAYASHI, Seichiro

Chair: WAKABAYASHI, Tomonari (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** Single particle spectroscopy of gold nanoparticles doped in a thin film of diarylethene-functionalized polystyrene (Dept. Appl. Phys., Osaka Univ.) ASAH, Tsuyoshi; SATAKE, Kazuyasu; KOBATAKE, Seiya; NISHI, Hiroyasu

**3E2-09** Quantitative evaluation of temperature elevation near gold nanoparticles under photo excitation (Graduate School of Engineering Science and Center for Quantum Material Science under Extreme Conditions) YAMAUCHI, Hiroaki; ITO, Syoji; Tsuboi, Yasuyuki; MIYASAKA, Hiroshi

**3E2-10** MALDI mass spectrometry on thiolate protected gold clusters prepared by ligand exchange reaction (Catalysis Research Center, Hokkaido Univ.) TSUNOYAMA, Risako; PANNOPARD, Panvika; TSUNOYAMA, Hironori; TSUKUDA, Tatsuya

**3E2-11** Observation of magic numbers in poly(vinylpyrrolidone) stabilized gold clusters and their catalytic property (Catalysis Research Center, Hokkaido Univ.) TSUNOYAMA, Hironori; TSUKUDA, Tatsuya

**3E2-12** Magic compositions of Ta-containing tri-metallic clusters and their element dependence (The Univ. of Tokyo, Graduate School of Arts and Science) HIMENO, Hidenori; YAMADA, Akira; YAMAMOTO, Hirota; MIYAJIMA, Ken; MAFUNE, Fumitaka

**3E2-13** Precise Synthesis and Structure of Thiolate-Protected  $Pd_2Au_{36}$  Clusters (Tokyo Univ. of Sci.; Institute for Molecular Science) IGARASHI, Kozue; IWASA, Takeshi; NOBUSADA, Katsuyuki; NEGISHI, Yuichi

Chair: MISAIZU, Fuminori (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(3E2-15)

**3E2-15** CSJ Award for Creative Works Precision Synthesis and Size-Specific Functions of Gold Clusters (CRC, Hokkaido Univ.) TSUKUDA, Tatsuya

## Sunday, March 28, PM

Chair: KOYASU, Kiichiro (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(3E2-28, 3E2-29, 3E2-30, 3E2-31, 3E2-33)

**3E2-28** Reactions of copper cluster ions with nitrous oxide: Oxidation and sequential  $N_2O$  adsorption (Genesis Res. Inst., Inc.) HIRABAYASHI, Shinichi; ICHIHASHI, Masahiko; KONDOW, Tamotsu

**3E2-29** Measurements of the unimolecular dissociation reactions and the relative stability of CsI cluster ions (RIIF, AIST) NAKANAGA, Taisuke; NAGAI, Hidekazu; SAITO, Naoaki; FUJIWARA, Yukio; NONAKA, Hidehiko

**3E2-30** Mass selection and trap of protein ions isolated from droplet beam (Genesis Research Institute, Inc.; Toyota Technological Institute) KOHNO, Jun-ya; KONDOW, Tamotsu

**3E2-31\*** Photoabsorption spectroscopy of silver and chromium dimer cations stored in a temperature-controlled linear ion trap (Genesis Research Institute, Inc., Tokyo Univ. of Science, Toyota Technological Institute) EGASHIRA, Kazuhiro; KASAI, Chiharu; ITO, Tomonori; BARTELS, Christof; TERASAKI, Akira; KONDOW, Tamotsu

**3E2-33** Reactivity of chromium cluster ions with oxygen molecules measured in an ion trap (Genesis Research Institute, Inc; Tokyo Univ. Sci; Toyota Tech) ITO, Tomonori; KASAI, Chiharu; EGASHIRA, Kazuhiro; TERASAKI, Akira; TSUKIYAMA, Koichi; KONDOW, Tamotsu

Chair: KOHNO, Jun-ya (14 : 40~15 : 30)

\* 14:30-14:40: interval for laptop PC connection.(3E2-35, 3E2-36, 3E2-38, 3E2-39)

**3E2-35** Infrared spectroscopies and ionization induced isomerization reaction dynamics of phenol-Ar cluster cation (Chemical Resources Laboratory, Tokyo Institute of Technology) TANAKA, Shinya; MIYAZAKI, Mitsuhiko; ISHIUCHI, Syunichi; SAKAI, Makoto; FUJII, Masaaki

**3E2-36\*** Investigation on the intrapeptide proton-transfer reaction using a hydrogen-bonded cluster as a precursor (Kobe Univ.) YABUGUCHI, Hiroki; ISHIKAWA, Haruki; FUJIHARA, Akimasa; FUKU, Kiyokazu

**3E2-38** Size dependence of ultraviolet photodissociation reaction of isomer-separated carbon cluster ions (Tohoku Univ.) OHTAKI, Tomohiro; KOYASU, Kiichiro; MISAIZU, Fuminori

**3E2-39** Low temperature effect on the separation of isomers of carbon cluster cations with ion mobility spectrometry (Tohoku Univ.) KOYASU, Kiichiro; OHTAKI, Tomohiro; MISAIZU, Fuminori

Chair: ISHIKAWA, Haruki (15 : 40~16 : 40)

\* 15:30-15:40: interval for laptop PC connection.(3E2-41, 3E2-42, 3E2-43, 3E2-45)

**3E2-41** Dissociation mechanisms of excited neutral species mono-halomethane  $CH_3X^*$  ( $X = Cl, Br, I$ ) in gas-phase (Osaka Pref. Univ.) TSUJINAKA, Taiga; ICHIMORI, Aya; MATSUBARA, Hiroshi; HAYAKAWA, Shigeo

**3E2-42** Doubly excited states of  $H_2O$  produced by photon and electron

- interactions (Tokyo Institute of Technology) TSUCHIDA, Toshinori; ODAGIRI, Takeshi; ISHIKAWA, Lisa; YACHI, Kazufumi; OONO, Naruhito; NAKANO, Motoyoshi; KITAJIMA, Masashi; KOUCHI, Noriyuki
- 3E2-43\*** Lifetime measurement of metastable oxygen molecular ion by using an electrostatic ion storage ring (Tokyo Metropolitan Univ.) MAJIMA, Takuya; KAWAGUCHI, Eiji; HANADA, Katsuhiko; GOTO, Motoshi; MATSUMOTO, Jun; SHIROMARU, Haruo; TANUMA, Hajime; AZUMA, Toshiyuki
- 3E2-45\*** Mobility measurement of chiral molecular ions (Tokyo Metropolitan Univ.; Rikkyo Univ.; RIKEN) TANUMA, Hajime; MATOBA, Siro; KOIZUMI, Tetsuo; KOJIMA, Takao; SHIROMARU, Haruo; SHIMIZU, Toshio

Chair: HAYAKAWA, Shigeo (16 : 50~17 : 40)

- \* 16:40-16:50: interval for laptop PC connection.(3E2-48, 3E2-49, 3E2-50, 3E2-51, 3E2-52)
- 3E2-48** Charging Polarity of Polymer Films by Electron Beam Irradiation (Graduate School of Engineering, Hokkaido Univ.) MORISHITA, Ryo; KOIZUMI, Hitoshi
- 3E2-49** Nanoimprint Lithography Using the Mold of Crosslinked PTFE Fabricated by Focused Ion Beam (RISE, Waseda Univ.) TAKAHASHI, Tomohiro; FUKUTAKE, Naoyuki; TAKASAWA, Yuya; GOWA, Tomoko; SASAKI, Takashi; MIURA, Takaharu; OSHIMA, Akihiro; TAGAWA, Seiichi; WASHIO, Masakazu
- 3E2-50** Microfabrication of Biodegradable Polymers Using Focused Ion Beam (Research Institute for Science and Engineering, Waseda Univ.) OKUBO, Satoshi; TAKAHASHI, Tomohiro; TAKASAWA, Yuya; GOWA, Tomoko; SASAKI, Takashi; NAGASAWA, Naotsugu; TAMADA, Masao; OSHIMA, Akihiro; TAGAWA, Seiichi; WASHIO, Masakazu
- 3E2-51** Study on Metal Reduction of Functionalized Perfluorinated-Polymers by Quantum Beam Irradiation (Research Institute for Science and Engineering, Waseda Univ.) TSUBOKURA, Hidehiro; TAKASAWA, Yuya; SHIRAKI, Fumiya; FUJITA, Hajime; GOWA, Tomoko; SASAKI, Takashi; YAMAMOTO, Hiroki; OSHIMA, Akihiro; TAGAWA, Seiichi; WASHIO, Masakazu
- 3E2-52** Non-contact Quantitative Microwave Detection of Radiation Induced Degradation of Polymers (2) (Fukui Univ. of Technology; Osaka Univ.) SUNAGAWA, Takeyoshi; TANAKA, Takeshi; SAEKI, Akinori; SEKI, Shu

## Monday, March 29, AM

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

- \* 8:50-9:00: interval for laptop PC connection.(4E2-01, 4E2-03, 4E2-04, 4E2-05, 4E2-06)
- 4E2-01\*** Self-propelled motion of pH-responsive droplet and dynamics of transient holes (Dept. of Chem. Eng. & Mat. Sci., Doshisha Univ.) BAN, Takahiko; FURUMICHI, Hiroki; HABA, Ryusuke; SHIOI, Akihisa
- 4E2-03\*** Construction of Nanoparticle Electrocatalysts from Multinuclear Complexes Adsorbed on a Gold(111) Surface (Hokkaido Univ.) ZHANG, Huaxin; OKAWA, Yukihisa; KATO, Masako; UOSAKI, Kohei
- 4E2-04** Preparation of Pt-Ru nano-alloy electrocatalysts from hetero-bimolecular complexes (Division of Chemistry, Graduate School of Science, Hokkaido Univ.) OKAWA, Yukihisa; SASAKI, Yoichi; UOSAKI, Kohei
- 4E2-05** Dynamics of Micrometer-Sized Oil Droplets Induced by Hydrolysis of Amphiphiles in Aqueous Dispersion (Chiba Univ.; The Univ. of Tokyo, Komaba; JST PRESTO) TOYOTA, Taro; SUGAWARA, Tadashi
- 4E2-06** Activation of oil/water interface-tension change by the blend ratio of nitrobenzene/chlorobenzene (Nihon Univ.) YOSHIDA, Kaori; SHIBUYA, Yohei; UNNO, Takuro; MATSUSHITA, Sachiko
- Chair: TOYOTA, Taro (10 : 10~11 : 10)
- \* 10:00-10:10: interval for laptop PC connection.(4E2-08, 4E2-09, 4E2-11, 4E2-13)
- 4E2-08** Gas sensing based on nonlinear response of a SnO<sub>2</sub> semiconductor gas sensor (Grad. Sch. Sci., Hiroshima Univ.) KASHIMA, Kenji; NAKATA, Satoshi
- 4E2-09\*** Blebbing droplet induced by generation/collapse of surfactant aggregate-correlation between the deformation and droplet size (The Univ. of Tokyo, Graduate School of Engineering) SUMINO, Yutaka; KITAHATA, Hiroyuki; SETO, Hideki; NAKATA, Satoshi; YOSHIKAWA, Kenichi
- 4E2-11\*** A group motion of self-driven camphor boats due to diffusion and sublimation of surface camphor molecules (Hiroshima Univ.) SUEMATSU, J. Nobuhiko; NAKATA, Satoshi; AWAZU, Akinori; NISHIMORI, Hiraku
- 4E2-13** Mode switching of an autonomous motor depending on the kind of surfactant (Graduate School of Science, Hiroshima Univ.) NAKATA, Satoshi; MURAKAMI, Mai

Chair: ASAKURA, Kouichi (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(4E2-15, 4E2-16, 4E2-17, 4E2-18)
- 4E2-15\*** Perturbation mechanism and the phase transition of surfactant aggregates in the Belousov-Zhabotinsky (BZ) reaction (AIST) JAHAN, Rumana Akther; SUZUKI, Kosuke; MAHARA, Hitoshi; YAMAGUCHI, Tomohiko
- 4E2-16** Analysis of Oxidation Reaction of the Hypochlorite Ion on Boron-

- doped Diamond Electrode (Grad. Sch. Eng., Utsunomiya Univ.) RAKUMA, Tsuyoshi; SAGAE, Takuya; YOSHIHARA, Sachio
- 4E2-17** Investigation of oxidation reaction of CO adsorbed on Pt(111) electrode in acidic and alkaline solution by in-situ EC-SFG measurements. (Division of Chemistry, Graduate School of Science, Hokkaido Univ.) ISHIMARU, Tsuyoshi; NOGUCHI, Hidenori; UOSAKI, Kohei
- 4E2-18\*** Adsorption process of nitrogen oxide on solid surfaces (Hiroshima Univ.) SUSA, Akio

Chair: SUSA, Akio (12 : 20~12 : 50)

- \* 12:10-12:20: interval for laptop PC connection.(4E2-21, 4E2-22, 4E2-23)
- 4E2-21** Patterning of Fullerene Microcrystals via Dewetting Process on a Solid Substrate (AIST) SUZUKI, Kosuke; YAMAGUCHI, Tomohiko
- 4E2-22** Stationary Spatially Periodic Pattern Formation by Belousov-Zhabotinsky Reaction on Polyacrylamide Gel (Keio Univ.) YAMADA, Takahiro; ASAKURA, Kouichi
- 4E2-23** Analysis of Mechanism of the Spontaneous Pattern Formation on Solvent Evaporation Process from Polymer Solution and Development of its Inhibition Method (Keio Univ.) TAKASO, Yuna; ASAKURA, Kouichi

## Room E3 Bldg.33 33-303

### Physical Chemistry -Chemical Kinetics and Dynamics- Friday, March 26, AM

Chair: YUI, Hiroharu (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(1E3-01, 1E3-03, 1E3-04, 1E3-05)
- 1E3-01\*** Pulse-radiolysis Study on Effect of Water-Silica Interface on Radiation-induced Reactions (The Univ. of Tokyo; Japan Atomic Energy Agency) KUMAGAI, Yuta; NAGAISHI, Ryuji; YAMADA, Reiji; MUROYA, Yusa; KATSUMURA, Yosuke
- 1E3-03** LET effect on radiation induced polymerization of maleimide (Tokyo Metropolitan Industrial Technology Research Institute; Japan Atomic Energy Agency) NAKAGAWA, Seiko; TAGUCHI, Mitsumasa; SEKIGUCHI, Masayuki; YUNOKI, Shunji; HIROTA, Kouichi
- 1E3-04** Magnetic Field Effect on the Hydrogen Abstraction Reaction in the Mesoporous Silica MCM-41 (Graduate School of Science and Engineering, Saitama Univ.) MATSUI, Hiroki; YAGO, Tomoaki; WAKASA, Masanobu
- 1E3-05** Re-examination of photo-Fries rearrangement reaction as studied by MFE probe (Graduate School of Science and Engineering, Saitama Univ.) GOHDO, Masao; TAKAMASU, Tadashi; WAKASA, Masanobu

Chair: NAKAGAWA, Seiko (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(1E3-07, 1E3-09, 1E3-11)
- 1E3-07\*** In situ XAFS analysis on molecular cluster batteries (Nagoya Univ.) YOSHIKAWA, Hirofumi; WANG, Heng; HAMANAKA, Shun; YOKOYAMA, Toshihiko; AWAGA, Kunio
- 1E3-09\*** A Pulse Radiolysis Study on the Temperature Dependent Absorption Spectra of Br<sub>2</sub><sup>-</sup> and Br<sub>3</sub><sup>-</sup> in Aqueous Solutions (ASRC/JAEA; Univ. Tokyo; Univ. Paris-Sud) LIN, Mingzhang; KATSUMURA, Yosuke; MUROYA, Yusa; FU, Haiying; YAN, Yu; YAMASHITA, Shinichi; MOSTAFAVI, Mehran
- 1E3-11\*** Reaction Behaviors of Radiolysis Products in Mixed Ionic Liquids Containing Thiocyanate Ion (Japan Atomic Energy Agency; ISIR, Osaka Univ.) NAGAISHI, Ryuji; AOYAGI, Noboru; TAGUCHI, Mitsumasa; KONDOH, Takafumi; YANG, Jinfeng; YOSHIDA, Yoichi

Chair: YOSHIKAWA, Hirofumi (11 : 10~12 : 10)

- \* 11:00-11:10: interval for laptop PC connection.(1E3-14, 1E3-16, 1E3-17, 1E3-19)
- 1E3-14\*** Spectroscopic Study of Solution Plasma: (1) Time-Resolved Emission Spectroscopy of Active Species (Tokyo Univ. of Science) SOMEYA, Yuu; KATO, Hisaya; KUSAMA, Yuta; YUI, Hiroharu
- 1E3-16** Spectroscopic Study of Solution Plasma: (2) Measurement of Spatial Distribution of Active Species with Microspectroscopy (Tokyo Univ. of Science) KUSAMA, Yuta; KATO, Hisaya; SOMEYA, Yuu; YUI, Hiroharu
- 1E3-17\*** Picosecond pulse radiolysis study on high temperature / supercritical water (School of Engineering, The Univ. of Tokyo) MUROYA, Yusa; LIN, Mingzhang; HAN, Zhenhui; YAMASHITA, Shinichi; UEDA, Toru; HATANO, Yoshihiko; MOSTAFAVI, Mehran; KATSUMURA, Yosuke
- 1E3-19\*** Pulse radiolysis study of liquid hydrocarbons: observation and determination of alkyl radicals (ASRC/JAEA; Univ. Tokyo) PENG, Jing; WAN, Like; LIN, Mingzhang; YAN, Yu; MUROYA, Yusa; KATSUMURA, Yosuke

## Friday, March 26, PM

Chair: ITAKURA, Ryuji (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(1E3-34, 1E3-35, 1E3-37, 1E3-38, 1E3-39)
- 1E3-34** Three-Dimensional Orientation of Carbon Nanotubes in Magnetic Microgravity (Hiroshima Univ.; Shinshu Univ.) TAKEUCHI, Haruka; KATSUKI, Akio; FUJIWARA, Yoshihisa; FUJIWARA, Masao
- 1E3-35\*** Swimming Behavior of Tropical Fish in Magnetically-Simulated Microgravity and Hypergravity (Graduate School of Science, Hiroshima Univ.) FUJIWARA, Yoshihisa
- 1E3-37** Interfacial Shape and Energy of Two-Phase Liquid Sphere in Microgravity Space under High Magnetic Fields (Hiroshima Univ.) UEMURA, Masafumi; FUJIWARA, Masao
- 1E3-38** Highly Charged Transition Metal Formation by Intense Femtosecond Laser Fields (Grad. Sch. Sci. Osaka City Univ.) YATSUHASHI, Tomoyuki; TANAKA, Michinori; NAKASHIMA, Nobuaki
- 1E3-39** Dissociative Ionization of small ethanol clusters induced by intense laser fields (Niigata Univ. of Pharm. and Appl. Life Sci.) HOSHINA, Kennosuke; TSUGE, Masashi

Chair: YATSUHASHI, Tomoyuki (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(1E3-41, 1E3-43, 1E3-45)
- 1E3-41\*** Dynamics in laser control of chemical reactions (RIES, Hokkaido Univ.) KAWAI, Shinnosuke; KOMATSUZAKI, Tamiki
- 1E3-43\*** Spectroscopic approach to correlated dynamics of rotational excitation and ionization of NO in intense laser fields (JAEA; IMS) ITAKURA, Ryuji; HASEGAWA, Hirokazu; KUROSAKI, Yuzuru; YOKOYAMA, Atsushi; OHSHIMA, Yasuhiro
- 1E3-45\*** Wavelength dependence of two-photon ionization of helium by intense XUV-FEL light (RIKEN SPring-8 Center) SATO, Takahiro; IWASAKI, Atsushi; ISHIBASHI, Kazuki; OKINO, Tomoya; YAMANOUCHI, Kaoru; ADACHI, Junichi; YAGISHITA, Akira; YAZAWA, Hiroki; KANNARI, Fumihiko; AOYAMA, Makoto; YAMAKAWA, Koichi; MIDORIKAWA, Katsumi; NAKANO, Hidetoshi; YABASHI, Makina; NAGASONO, Mitsuru; HIGASHIYA, Atsushi; TOGASHI, Tadashi; ISHIKAWA, Tetsuya

Chair: YATSUHASHI, Tomoyuki (16 : 50~17 : 50)

- \* 16:40-16:50: interval for laptop PC connection.(1E3-48, 1E3-50, 1E3-52)
- 1E3-48\*** Broadband ultraviolet light generated by a gas-filled hollow-core fiber for investigating ultrafast photochemical dynamics (The Univ. of Electro-Communications; International Cooperative Research Project (ICORP), National Chiao Tung Univ.; Osaka Univ.) KIDA, Yuichiro; LIU, Jun; TERAMOTO, Takahiro; KOBAYASHI, Takayoshi
- 1E3-50\*** Carrier Envelope Phase Stabilization of High repetition, High Power Femtosecond Laser System: For Real Time Observation of Hydrogen Migration in Intense Laser Fields (The Univ. of Tokyo) OKINO, Tomoya; YAMANOUCHI, Kaoru
- 1E3-52\*** Measurements of Hydrogen Migration Dynamics in Methanol by Pump-probe Coincidence Momentum Imaging (School of Science, The Univ. of Tokyo; Department of Physics, Laval Univ.) XU, Huailiang; MARCEAU, Claude; NAKAI, Katsunori; OKINO, Tomoya; CHIN, Seeleang; YAMANOUCHI, Kaoru

## Physical Organic Chemistry -Structures and Properties-

## Saturday, March 27, PM

Chair: YAMAMURA, Masaki (12 : 40~13 : 40)

- \* 12:30-12:40: interval for laptop PC connection.(2E3-23, 2E3-25, 2E3-27)
- 2E3-23\*** Molecular design and self-assembly of adamantane-based functional materials (Tokushima Bunri Univ.) TOMINAGA, Masahide; AZUMAYA, Isao
- 2E3-25\*** Control of Supramolecular Arrangements of Perylene Bisimides Using Complementary Hydrogen Bonds (Graduate School of Engineering, Chiba Univ.; PRESTO, JST) SEKI, Tomohiro; YAGAI, Shiki; KARATSU, Takashi; KITAMURA, Akihito
- 2E3-27\*** Structural Transition of Octahydro[12]annulene-based Supramolecular Gels Triggered by Ultrasound Irradiation (Graduate School of Engineering, Osaka Univ.) HISAKI, Ichiro; SHIGEMITSU, Hajime; TOHNAI, Norimitsu; MIYATA, Mikiji

Chair: HISAKI, Ichiro (13 : 50~14 : 50)

- \* 13:40-13:50: interval for laptop PC connection.(2E3-30, 2E3-32, 2E3-33, 2E3-34, 2E3-35)
- 2E3-30\*** Side-Chains Effect on Thermoresponsive Supramolecular Self-Assemblies in Aqueous Solution (Kyushu Univ.) HAYASHI, Hiroyuki; KARASAWA, Satoru; KOGA, Noboru
- 2E3-32** Self-assembly of Fluorescent Dyes Exhibiting Aggregate-Induced Enhanced Emission (AIEE) Behavior and the Analysis of Rate Constants (Grad. Sch. Eng., Kyushu Univ.) HIROSE, Takashi; MATSUDA, Kenji
- 2E3-33** Fluorescence Enhancement Behavior of the Spatially-Fixed Fluorescence Dyes (Grad. Sch. Eng., Kyoto Univ.) FUJIMORI, Yuya; HIROSE,

Takashi; MATSUDA, Kenji

- 2E3-34** Self-Assembly and Photoisomerization of Photoresponsive Macrocyclic Boronic Ester (Tokyo Institute of Technology) TAKAHAGI, Hiroki; IWASAWA, Nobuharu
- 2E3-35** Interspatial and orthogonal array of functional chromophors along polymer backbones (National Institute for Materials Science (NIMS)) OGI, Soichiro; SUGIYASU, Kazunori; TAKEUCHI, Masayuki

Chair: AZUMAYA, Isao (15 : 00~16 : 00)

- \* 14:50-15:00: interval for laptop PC connection.(2E3-37, 2E3-38, 2E3-39, 2E3-40, 2E3-41, 2E3-42)
- 2E3-37** Enhanced Allosteric Binding Ability in Hydrindacenehexamide Receptor (Dept. Chem., Fac. Sci., Hokkaido Univ.) KAWAI, Hidetoshi; ONO, Yuki; FUJIWARA, Kenshu; SUZUKI, Takanori
- 2E3-38** Construction of Cooperative Supramolecular Polymers based on Self-Assembly of Allosteric Receptor Derivatives with Various Linkers (Dept. Chem., Fac. Sci., Hokkaido Univ.) KAWAI, Hidetoshi; OBA, Fumi; SATO, Takako; KATOONO, Ryo; FUJIWARA, Kenshu; SUZUKI, Takanori
- 2E3-39** Synthesis and Anion Recognition of Receptor Based on Dipyridylbipyrimidine Ligand Bearing Thiourea Moieties (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) TOGAWA, Yui; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2E3-40** Anion receptors based on ribose (Gunma Univ.; Yamagata Univ.) KOBAYASHI, Yu; KONDO, Shin-ichi; UNNO, Masafumi
- 2E3-41** Anion Inclusion within a Hydrophobic Internal Space of the Water-Soluble Capsule Consisting of Gear-Shaped Amphiphiles (The Univ. of Tokyo) NAKAMURA, Takashi; HIRAOKA, Shuichi; SHIRO, Motoo; SHIONOYA, Mitsuhiko
- 2E3-42** Synthesis and Properties of Organic Hosts Having Two Pockets (Chemical Resources Laboratory, Tokyo Institute of Technology) OHKAWA, Ryota; YOSHIZAWA, Michito; AKITA, Munetaka

Chair: KAWAI, Hidetoshi (16 : 10~17 : 10)

- \* 16:00-16:10: interval for laptop PC connection.(2E3-44, 2E3-45, 2E3-46, 2E3-47, 2E3-48, 2E3-49)
- 2E3-44** Synthesis and Functions of ChiralPseudomacrocyclic Terpyridine Metallohost Bearing Diphenylphosphoryl Groups at Binaphthyl Skelton (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SATO, Futoshi; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2E3-45** Improvement of the solubility of 2,2'-binaphthalene-based receptors (Gunma Univ.) WATANABE, Naoya; KONDO, Shin-ichi; UNNO, Masafumi
- 2E3-46** Synthesis and evaluation of fluorescence receptors bearing 2,2'-bianthracene (Gunma Univ.; Yamagata Univ.) TAKAHASHI, Takuya; KONDO, Shin-ichi; UNNO, Masafumi
- 2E3-47** Synthesis and Optical Properties of Aluminum and Boron Complexes of N<sub>2</sub>O<sub>4</sub>-Type Dipyrrin Ligand (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) DAICHO, Manami; SAKAMOTO, Naoya; NABESHIMA, Tatsuya
- 2E3-48\*** Remarkable Mg<sup>2+</sup>-selective Emission of Azacrown Receptor Based on Ir(III) complex (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) BRANDEL, Jeremy; NABESHIMA, Tatsuya
- 2E3-49** Synthesis and Molecular Recognition of Molecular Cleft Assembled by Dipyridoacridine Platinum(II) Complexes (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) HASEGAWA, Yuki; TROKOWSKI, Robert; YAMAMURA, Masaki; NABESHIMA, Tatsuya

## Sunday, March 28, AM

Chair: SUGIMOTO, Hiroshi (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** Design of Blue-Shifting Hydrogen Bonds based on the theory of electron localization (Gifu Univ.) MURAI, Hiroki; INAGAKI, Satoshi
- 3E3-02** Experimental and Theoretical Investigation on Structures and Circular Dichroism of Neutral and Protonated Aza[6]helicenes (Graduate School of Engineering, Osaka Univ.) NAKAI, Yoshito; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; INOUE, Yoshihisa
- 3E3-03** Enantiomeric Excess Determination of Chiral Carboxylic Acids by Using ESIMS (OMTRI) SATO, Hirofumi; YAMANOI, Jun; KAWASAKI, Hideya; ARAKAWA, Ryuichi; SHIZUMA, Motohiro
- 3E3-04** Preparation of supramolecular CT host complex composed of binaphthol and methylbenzoquinone derivatives (Kinki Univ.; JST; The Univ. of Tokyo) UKEGAWA, Tatsuya; KINUTA, Takafumi; TAJIMA, Nobuo; SATO, Tomohiro; KURODA, Reiko; MATSUBARA, Yoshio; IMAI, Yoshitane
- 3E3-05** Preparation of chiral supramolecular organic fluorophore composed of *pai*-conjugated carboxylic acid and chiral amine molecules (Kinki Univ.; NAIST; JST; Univ. of Tsukuba; The Univ. of Tokyo) NISHIGUCHI, Noriaki; KINUTA, Takafumi; HARADA, Takunori; NAKANO, Yoko; TAJIMA, Nobuo; SATO, Tomohiro; FUJIKI, Michiya; KURODA, Reiko; MATSUBARA, Yoshio; IMAI, Yoshitane
- 3E3-06** Control of chiral optical properties of pyrenesulfonic acid/amine-chiral supramolecular organic fluorophore (Kinki Univ.; NAIST; JST; Univ. of Tsukuba; The Univ. of Tokyo) KINUTA, Takafumi; MURATA, Katsuzo;

NAKANO, Yoko; HARADA, Takunori; TAJIMA, Nobuo; SATO, Tomohiro; FUJIKI, Michiya; KURODA, Reiko; MATSUBARA, Yoshio; IMAI, Yoshitane

Chair: IMAI, Yoshitane (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3E3-08, 3E3-09, 3E3-11, 3E3-12, 3E3-13)

**3E3-08** Chiroptical response of dihydrophenanthroline derivatives upon complexation (Hokkaido Univ.) MIURA, Youhei; KAWAI, Hidetoshi; FUJIWARA, Kenshu; SUZUKI, Takunori

**3E3-09\*** Synthesis and Property of Cage-Shaped Borate Complexes Bearing Multiple Control Units (Osaka Univ.) NAKAJIMA, Hideto; TAKEDA, Ryosuke; YASUDA, Makoto; BABA, Akio

**3E3-11** Development of novel porphyrin derivatives based on steric properties of amide bond. (Ochanomizu Univ.) MATSUMURA, Mio; MURANAKA, Atsuya; UCHIYAMA, Masanobu; MASU, Hyuma; AZUMAYA, Isao; KAGECHIKA, Hiroyuki; TANATANI, Aya

**3E3-12** Molecular design and utilization of novel optically active isocyanurate [5] Synthesis of intramolecularly bridged isocyanurate with planar chirality (Faculty of Engineering, Tokyo Univ. of Science) SUDO, Masanao; KAWAMOTO, Keiko; GOTO, Hidetoshi; SUGIMOTO, Hiroshi

**3E3-13** Molecular design and utilization of novel optically active isocyanurate [6] Optical resolution and isomerization of intramolecularly bridged isocyanurate with planar chirality (Faculty of Engineering, Tokyo Univ. of Science) SUDO, Masanao; KAWAMOTO, Keiko; GOTO, Hidetoshi; SUGIMOTO, Hiroshi

Chair: MORI, Tadashi (11 : 20~12 : 10)

\* 11:10-11:20: interval for laptop PC connection.(3E3-15, 3E3-16, 3E3-17)

**3E3-15** Synthesis and characterization of *m*-calixamides having  $\pi$ -conjugated system (Department of Materials Science and Engineering, Nagoya Institute of Technology) YAMAKADO, Ryohei; SUGIMOTO, Shinri; MATSUOKA, Shimichi; SUZUKI, Masato; TAKAGI, Koji

**3E3-16** Enantioselective Rotational Isomerization of Palladium Cyclic Dinuclear Complexes Bearing Salicylaldimine Ligand (Graduate School of Engineering Science, Osaka Univ.) SATO, Atsushi; KOMIYA, Naruyoshi; NAOTA, Takeshi

**3E3-17** Young Scholar Lectures of CSJ Light-Triggered Transformation and Transmission of Mechanical Motions through Covalent and Non-Covalent Bonds (IMRAM, Tohoku Univ.) MURAOKA, Takahiro

## Sunday, March 28, PM

Chair: NISHINAGA, Tohru (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(3E3-28, 3E3-29, 3E3-30, 3E3-31, 3E3-33)

**3E3-28<sup>†</sup>**  $\text{Sr}_{1-x}\text{Ca}_x\text{FeO}_2$  : Negative Thermal Expansion in a distorted infinite layer with four coordinate iron oxide (Grad. Sch. Sci., Kyoto Univ.) TASSEL, Cedric; KAGEYAMA, Hiroshi; YOSHIMURA, Kazuyoshi

**3E3-29** Syntheses, crystal structures and DFT calculations of iodine substituted tetrathiafulvalenothioquinone(or quinone)-1,3-dithiolethide (Fac. of Eng., Shizuoka Univ.; Bruker AXS; Kyoto Univ.) UEDA, Kazumasa; SUZUKI, Kenta; YOZA, Kenji; ISHIDA, Toshimasa

**3E3-30** Intermolecular interactions of fully and partially fluorinated diketone complexes (Kitasato Univ.; JST PRESTO) HORI, Akiko; NAGANUMA, Kohei; MIZUTANI, Masaya

**3E3-31\*** Crystal structure of coordination polymer of sulfonamides with pyridyl group (Tokushima Bunri Univ.) KATAGIRI, Kosuke; IKEDA, Takashi; MASU, Hyuma; TOMINAGA, Masahide; AZUMAYA, Isao

**3E3-33** molecular structures and polymorphism of 21,23-dithia-5,10,15,20-tetraphenylporphyrin ( $\text{S}_2\text{TPP}$ ) (Fac. Sci., Kochi Univ.) NAKANO, Keiji; HOURI, Miho; CHUMAN, Maiko

Chair: HORI, Akiko (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3E3-35, 3E3-36, 3E3-37, 3E3-38, 3E3-39)

**3E3-35** Symmetry Carry-Over Crystallization of Dehydrobenzo[12]annulene Derivatives (Graduate School of Engineering, Osaka Univ.) SENGA, Hirofumi; HISAKI, Ichiro; TSUZUKI, Seiji; TOHNAI, Norimitsu; MIYATA, Mikiji

**3E3-36** Synthesis and Molecular Structures of 17,17-Dialkyl Tetrabenzo[a,c,g,i]fluorenes with Considerably High Fluorescent Quantum Yields (Graduate School of Engineering, Univ. of Hyogo; Graduate School of Engineering, Osaka Pref. Univ.) TANIGAWA, Yusuke; KITAMURA, Chitoshi; KAWASE, Takeshi; KOBAYASHI, Takashi; NAITO, Hiroyoshi

**3E3-37** Fluorescence spectroscopic properties of *o*-, *m*- and *p*-nitro-substituted diphenylhexatrienes in solution and in the crystalline state (National Institute of Advanced Industrial Science and Technology (Nanotechnology Research Institute, Research Institute of Computational Sciences, Technical Center), Graduate School of Engineering, Osaka Univ.) SONODA, Yoriko; TSUZUKI, Seiji; GOTO, Midori; TOHNAI, Norimitsu; YOSHIDA, Masaru

**3E3-38** Supramolecular architectures and solid-state fluorescence properties composed of organic salts between 9,10-bis(4-sulfophenyl)anthracene and various amines in crystalline state. (Graduate School of Engineering, Osaka Univ.) HIRUKAWA, Tomofumi; TOHNAI, Norimitsu; HISAKI, Ichiro;

MIYATA, Mikiji

**3E3-39\*** Solid State Photophysical Properties of Non-Planar  $\pi$  Conjugated Systems Composed of Dibenzocyclooctatetraene Units (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) NISHIUCHI, Tomohiko; TANAKA, Keita; KUWATANI, Yoshiyuki; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko

Chair: SONODA, Yoriko (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** External-stimuli Responsive Emission of 2,4-Di-trifluoromethylquinoline Derivatives in Crystalline State. (Grad. Sch. Pharm. Sci., Kyushu Univ.) ABE, Yuichiro; KARASAWA, Satoru; KOGA, Noboru

**3E3-43** Syntheses of Amidine Derivatives and Emission Properties for Their Metal Complexes (Grad. Sch. Pharm. Sci., Kyushu Univ.) KARASAWA, Satoru; KOGA, Noboru

**3E3-44** Photophysical Properties of Bis(arylamino)terephthalic Acid Derivatives (Grad. Sch. Eng., Kyoto Univ.) SHIMIZU, Masaki; ASAI, Yuiga; TAKEDA, Youhei; HIYAMA, Tamejiro

**3E3-45** Photophysical Properties of 1,4-Diamino-2,5-bis( $\beta$ -styryl)benzenes (Grad. Sch. Eng., Kyoto Univ.) SHIMIZU, Masaki; KAKI, Rina; TAKEDA, Youhei; HIYAMA, Tamejiro

**3E3-46** Synthesis and Properties of 1,1-Dimethyl-2,5-diphenylsilylacyclopentadiene-Based Liquid Crystals (Graduate School of Engineering, Gunma Univ.) SAITO, Yuta; KYUSHIN, Soichiro

**3E3-47** Mesomorphism of the mixtures of the fluorinated and non-fluorinated phenyl analogues of hexa(alkoxybenzoyloxy)triphenylenes (AIST NRI (Kansai); Ryukoku Univ.; Chisso Petroleum Chemicals) SHIMIZU, Yo; NISHIKAWA, Hiroya; SASADA, Yasuyuki

Chair: SHIMIZU, Yo (17 : 00~18 : 00)

\* 16:50-17:00: interval for laptop PC connection.(3E3-49, 3E3-51, 3E3-52, 3E3-54)

**3E3-49\*** Tripodal Ionic Liquid Crystals Having Photoluminescent Properties (The Univ. of Tokyo) TANABE, Kana; KATO, Takashi

**3E3-51<sup>#</sup>** Luminescent Decaaryl[60]fullerene Mesogens (The Univ. of Tokyo; ERATO, JST) LI, Chang-zhi; MATSUO, Yutaka; NAKAMURA, Eiichi

**3E3-52\*** Room-Temperature Bicontinuous Cubic Liquid Crystals Unveiled for Discotic Molecules (RIKEN Advanced Science Institute) FUKUSHIMA, Takunori; ALAM, Md. Akhtarul; MOTOYANAGI, Jin; YAMAMOTO, Yohei; SAEKI, Akinori; SEKI, Shu; AIDA, Takuzo

**3E3-54** Construction of Cyclic Dimmer-type Supramolecular Liquid Crystals Using Terminal Dicarboxylic Acids (Chiba Univ.) KOHMOTO, Shigeo; KURODA, Yu; KISHIKAWA, Keiki

## Monday, March 29, AM

Chair: KUBO, Yuji (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4E3-01, 4E3-02, 4E3-03, 4E3-04, 4E3-05, 4E3-06)

**4E3-01** High Sensitive Water Detection in Organic Solvents by Using Fluorescent Dye (Hiroshima Univ.) SUMOMOGI, Minako; OYAYAMA, Yusuke; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka

**4E3-02** Synthesis and Properties of Acyclic Anion Receptors Consisting of  $\beta$ -Substituted Pyrroles (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; SAKAMOTO, Shohei

**4E3-03** Tuning Properties of  $\pi$ -Conjugated Acyclic Anion Receptors by Modification at Boron Unit (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; TAKAYAMA, Maysumi

**4E3-04** Synthesis and Properties of Acyclic Anion Receptors with Orthogonally Arranged Aliphatic Moieties (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; DOI, Kota

**4E3-05** Twist-Induction of Giant Cyclic Oligopyrroles with DNA (Grad. Sch. Sci., Kobe Univ.) IE, Machiko; SEL, Yoshihisa; YAMAGUCHI, Kentaro; SETSUNE, Jun-ichiro; TSUDA, Akihiko

**4E3-06** Structure and Photoreactions of a  $\pi$ -Conjugated Acyclic Tetrapyrrole (Grad. Sch. Sci., Kobe Univ.) LIU, Guanfan; SETSUNE, Jun-ichiro; TSUDA, Akihiko

Chair: IMAE, Ichiro (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4E3-08, 4E3-09, 4E3-11, 4E3-13)

**4E3-08** Self-Assemblies and Dynamic Behaviors of Anion-Responsive  $\pi$ -Extended Acyclic Oligopyrroles (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) BANDO, Yuya; HAKETA, Yohei; MAEDA, Hiromitsu

**4E3-09\*** Chirality-sensing Polythiophenes with Tethered Optically Active Pendants for Molecular Recognition (Graduate School of Engineering, Osaka Univ.) FUKUHARA, Gaku; INOUE, Yoshihisa

**4E3-11\*** Supramolecular Stacking Assemblies Comprising Planar Charged Species (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) HAKETA, Yohei; MAEDA, Hiromitsu

**4E3-13** Formation of Cyclic and Helical Structures Derived from  $\pi$ -Conjugated Acyclic Anion Receptors (Institute of Science and Engineering,

Ritsumeikan Univ.; PRESTO, JST) HAKETA, Yohei; MAEDA, Hiromitsu

Chair: FUKUHARA, Gaku (11 : 20~12 : 10)

\* 11:10-11:20: interval for laptop PC connection.(4E3-15, 4E3-17, 4E3-18, 4E3-19)

**4E3-15\*** Synthesis of an Isothiouonium-attached Amphiphilic Polythiophene and Its Functional Exploitation (Tokyo Metropolitan Univ.) MINAMI, Tsuyoshi; NISHIYABU, Ryuhei; KUBO, Yuji

**4E3-17** Formation of Self-Complementary Dimers of  $\pi$ -Conjugated Acyclic Anion Receptors (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; KINOSHITA, Kota

**4E3-18** Ethynyl-Substituted  $\pi$ -Conjugated Acyclic Anion Receptors as Potential Building Subunits of Anion-Responsive Oligomers (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; KITAGUCHI, Kanako

**4E3-19** Formation of Supramolecular Assemblies Based on  $\pi$ -Conjugated Anion Receptors with Chiral Substituents (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; HANE, Wataru; HAKETA, Yohei

## Room E4

Bldg.33 33-304

### Physical Chemistry -Properties-

Saturday, March 27, AM

#### Liquid, Solution

Chair: SAITOW, Ken-Ichi (9 : 10 ~ 10 : 10)

\* 9:00-9:10: interval for laptop PC connection.(2E4-02, 2E4-03, 2E4-04, 2E4-06)

**2E4-02** Possibility of cyclic multimers of some alcohols having bulky substituents in liquid phase (Univ. of Tsukuba) NOBUHIRA, Megumi; YAMAMURA, Yasuhisa; YASUZUKA, Syuma; SAITO, Kazuya

**2E4-03** Solvation structure of NaI aqueous solution by liquid beam technique (The Univ. of Tokyo, Graduate School of Arts and Science) KANIWA, Keisuke; HIRANUMA, Yojiro; MIYAJIMA, Ken; MAFUNE, Fumitaka

**2E4-04\*** Temperature dependent vibrational dynamics of aqueous azide in deuterated water: A Nonlinear IR Spectroscopic Study (Grad. Sch. Sci., Kobe Univ.) TAYAMA, Junpei; ISHIHARA, Akane; OHTA, Kaoru; BANNO, Motohiro; TOMINAGA, Keisuke

**2E4-06\*†** Analysis of translational mobility of hydrated water in polyelectrolyte aqueous solutions. (Materials Processing Graduate School of Engineering, Tohoku Univ.) OGAWA, Tsubasa; MORIMOTO, Nobuyuki; SUZUKI, Makoto

Chair: KATO, Keisuke (10 : 20~11 : 00)

\* 10:10-10:20: interval for laptop PC connection.(2E4-09, 2E4-11, 2E4-12)

**2E4-09\*** Synthesis and reactivity of half-metalloanium ionic liquids (Kobe Univ.) INAGAKI, Takashi; MOCHIDA, Tomoyuki

**2E4-11** Synthesis of dendritic ionic liquids (Kyoto Univ.) ISHIGURO, Fumiyasu; TANAKA, Kazuo; CHUJO, Yoshiki

**2E4-12** Local Structure of Ionic Liquid Probed by Self-quenching of Thiobenzophenone (Graduate School of Science and Engineering, Saitama Univ.) TANAKA, Miyuki; WAKASA, Masanobu

Chair: WAKASA, Masanobu (11 : 10~11 : 50)

\* 11:00-11:10: interval for laptop PC connection.(2E4-14, 2E4-15, 2E4-16, 2E4-17)

**2E4-14** Synthesis and properties of ionic liquids based on bis(oxazoline) metal complexes (Kobe Univ.; Toho Univ.) MIURA, Yuji; MOCHIDA, Tomoyuki; MOTODATE, Satoshi; KATO, Keisuke

**2E4-15†** Alkyl Chain Length Dependence of the Interfaces of Molecular and Ionic Liquids (Nagoya Univ.) IWAHASHI, Takashi; SEKI, Kazuhiko; KIM, Doseok; OUCHI, Yukio

**2E4-16** Magnetic Field effects on Freezing Potential of Aqueous Solutions (Shinshu Univ.) OHARA, Yuuki; HAMASAKI, Atom; OZEKI, Sumio

**2E4-17** Four kinds of attractive intermolecular interactions in supercritical solution investigated by Raman spectroscopy and theoretical calculation (N-BARD, Hiroshima Univ.; Dept. Chem., Grad. Sch. Sci., Hiroshima Univ.) KAJIYA, Daisuke; SAITOW, Ken-ichi

Saturday, March 27, PM

#### Cluster, Nano-tube

Chair: OKAZAKI, Toshiya (13 : 10~14 : 00)

\* 13:00-13:10: interval for laptop PC connection.(2E4-26, 2E4-29, 2E4-30)

**2E4-26** Young Scholar Lectures of CSJ Photofunctionalization of Carbon Nanotube by Chemical Modification (Grad. Sch. Eng., Kyoto

Univ.) UMEYAMA, Tomokazu

**2E4-29†** Photoelectrochemical Properties of different-shaped [70]fullerene clusters (Kyoto Univ., Osaka Univ., JST PRESTO, iCeMS) TEZUKA, Noriyasu; UMEYAMA, Tomokazu; SEKI, Shu; MATANO, Yoshihiro; IMAHORI, Hiroshi

**2E4-30** Synthesis and Optical Properties of Chemically Converted Graphene Covalently Modified with Chromophores (Kyoto Univ., iCeMS) MIHARA, Junya; TEZUKA, Noriyasu; UMEYAMA, Tomokazu; MATANO, Yoshihiro; IMAHORI, Hiroshi

Chair: UMEYAMA, Tomokazu (14 : 10~15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(2E4-32, 2E4-34, 2E4-36)

**2E4-32\*†** Effect of C<sub>60</sub> encapsulation on Radial Breathing Mode of Metallic and Semiconducting Single-Wall Carbon Nanotubes (National Institute of Advanced Industrial Science and Technology (AIST)) JOUNG, Soon-kil; OKAZAKI, Toshiya; OKADA, Susumu; IJIMA, Sumio

**2E4-34\*** Transport properties and electronic structures of azafullerene encapsulated in single wall carbon nanotubes (AIST) IIZUMI, Yoko; OKAZAKI, Toshiya; OKADA, Susumu; LIU, Zheng; SUENAGA, Kazu; NAKANISHI, Takeshi; IJIMA, Sumio; TAGMATARCHIS, Nikos; KANEKO, Toshiro; LI, Yongfeng; HATAKEYAMA, Rikizo

**2E4-36\*** Synthesis and Characterization of a Carbene Derivative of Metal Carbide Endofullerene Sc<sub>2</sub>C<sub>2</sub>@C<sub>80</sub> (Univ. of Tsukuba; IMS) KURIHARA, Hiroki; YAMAZAKI, Yuko; NIKAWA, Hidefumi; MIZOROGI, Naomi; TSUCHIYA, Takahiro; AKASAKA, Takeshi; NAGASE, Shigeru

Chair: MATANO, Yoshihiro (15 : 20~16 : 00)

\* 15:10-15:20: interval for laptop PC connection.(2E4-39, 2E4-41, 2E4-42)

**2E4-39\*** Donor-Acceptor conjugates of lanthanum endohedral metallofullerene, La<sub>2</sub>@C<sub>80</sub>, and pi-extended tetrathiafulvalene (Univ. Tsukuba, TARA; Univ. Complutense; FAU Erlangen-Nuernberg) TAKANO, Yuta; HERRANZ, M. Angeles; MARTIN, Nazario; GULDI, Dirk M.; TSUCHIYA, Takahiro; AKASAKA, Takeshi

**2E4-41** Characterization of optical properties of an isolated single-walled carbon nanotube by surface-enhanced Raman scattering. (Hokkaido Univ.) KOMEDA, Keiichi; TAKASE, Mai; NAGASAWA, Fumika; YASUDA, Satoshi; NABIKI, Hideki; MURAKOSHI, Kei

**2E4-42** Photochemical reaction of an isolated single-walled carbon nanotube induced by the localized electromagnetic field. (Hokkaido Univ.) NARA, Masanobu; TAKASE, Mai; NAGASAWA, Fumika; YASUDA, Satoshi; NABIKI, Hideki; MURAKOSHI, Kei

Chair: NABIKI, Hideki (16 : 10~17 : 00)

\* 16:00-16:10: interval for laptop PC connection.(2E4-44, 2E4-45, 2E4-46, 2E4-47, 2E4-48)

**2E4-44** Effects of carbon nanotubes on polysaccharide rheology (Faculty of Engineering Yamagata Univ.) GODA, Takuro; MITSUMATA, Tetsu; SANO, Masahito

**2E4-45** Structure Control of Carbon Nanotubes by Friction Transfer Polymer Films (Yamagata Univ./Graduate School of Science and Engineering) INAGAKI, Kenichi; SANO, Masahito

**2E4-46** Effects of interactions between dispersants on carbon nanotubes (Faculty of Engineering Yamagata Univ.) KATAKURA, Shin; SANO, Masahito

**2E4-47** Clustering of diameter-selected Ag nanoparticles deposited on carbon nanotubes. (Faculty of Science and Engineering, Chuo Univ.) HORIUCHI, Mami; KOKUNO, Shou; MURAYAMA, Haruno; TANAKA, Hideki

**2E4-48** Cluster formation of Ag nanoparticles in nanodroplets composed of ionic liquid (Institute of Science and Engineering, Chuo Univ.) SEKIGUCHI, Yasumasa; MURAYAMA, Haruno; TANAKA, Hideki

Sunday, March 28, AM

#### Liquid crystal, Glass

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

\* 8:50-9:00: interval for laptop PC connection.(3E4-01, 3E4-02, 3E4-03, 3E4-04, 3E4-05, 3E4-06)

**3E4-01** Liquid Crystal Behavior of Rod-Like Materials with Hydroxy Terminal Groups (Oita Univ.) SUEMATSU, Hinako; TAKEBAYASHI, Hisae; MORIYAMA, Masaya; UJIE, Seiji

**3E4-02** Thermal Properties of Chiral Liquid Crystals with Hydrophilic Groups at Both Terminals of Mesogenic Unit (Oita Univ.) SHIMADA, Genichiro; NATA, Masanori; UJIE, Seiji

**3E4-03** Phase Transitions and Structural Formation of Thermotropic Liquid Crystals with Hydrophilic Terminal Groups (Oita Univ.) WU, Jinzhi; UJIE, Seiji

**3E4-04** Discotic Liquid Crystals of Organic Metal Complexes(100): Synthesis and Liquid Crystalline Properties of (m-C<sub>6</sub>H<sub>4</sub>O)PcCo Exhibiting a Short Stacking Distance (Shinshu Univ.) SATO, Hiroyuki; YAMA, Yoshitaka; OHTA, Kazuchika

**3E4-05** Discotic Liquid Crystals of Organic Metal Complexes (101): Synthesis of PcCu(II) Complexes Substituted by (p-RO)(m-C<sub>12</sub>O)PhO Groups and Influence of the Chain Length on their Mesomorphism (Shinshu Univ.) MEGUMI, Takashi; OHTA, Kazuchika



**3E4-06** Discotic Liquid Crystals of Organic Metal Complexes (102): Development of Phthalocyanine - C<sub>60</sub> Dyads Showing Homeotropic Alignment at r.t and Helical Structure of C<sub>60</sub> Moieties (Shinshu Univ.) Nguyen Tran, Huy Danh; TAUCHI, Risa; KAMEI, Tenpei; OHTA, Kazuchika

Chair: OHTA, Kazuchika (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3E4-08, 3E4-09, 3E4-11, 3E4-13)

**3E4-08** Raman Spectroscopy for 2,5-Dichlorothiophene (Graduate School of Integrated Basic Sciences, Nihon Univ.) TANIMOTO, Noboru; FUJIMORI, Hiroki; NAKAYAMA, Hideyuki; ISHII, Kikujiro

**3E4-09**\*<sup>†</sup> T<sub>1</sub> Measurements of <sup>13</sup>C NMR in Liquid-Crystalline Phases of CBOOA/HBAB Mixture (Graduate School of Integrated Basic Sciences, Nihon Univ.) HAGIWARA, Shoko; FUJIMORI, Hiroki

### Phase equilibrium, Phase transition

**3E4-11**\* Orientational Ordering of Partially Deuterated Methyl Groups in Solid Toluene (Osaka Univ.) SUZUKI, Hal; INABA, Akira

**3E4-13** Phase transition behavior of ionic liquid [C<sub>10</sub>mim][Tf<sub>2</sub>N] (Materials and Structures Laboratory, Tokyo Institute of Technology) ICHIKAWA, Marie; KAWAJI, Hitoshi

### Surface, Thin film, Nanoscale property

Chair: OGAWA, Takuji (11 : 20~12 : 10)

\* 11:10-11:20: interval for laptop PC connection.(3E4-15, 3E4-16, 3E4-17, 3E4-18)

**3E4-15** Microscopic heterogeneity and its dependence on polymerization degree in poly(2-hydroxyethyl acrylate) thin films studied by single molecule tracking (Graduate School of Engineering Science, Osaka Univ.; Center for Quantum Materials Science under Extreme Conditions, Osaka Univ.; PRESTO, JST; Electronic Materials Research Lab., Nissan Chemical Industries) MAEDA, Kentaro; TAKEI, Satoshi; ITO, Shoji; MIYASAKA, Hiroshi

**3E4-16** Physical properties and thin film fabrication of a charge transfer complex NT-TCNQ (Graduate School of Science, Nagoya Univ.) IWASE, Yoshiaki; NOMURA, Kenji; SUZU, Rie; YOSHIKAWA, Hirofumi; AWAGA, Kunio

**3E4-17** FET Characteristics of Tetrakis(thiadiazole)porphyrine Thin Films (Department of Chemistry and Research Center for Materials Science, Nagoya Univ.) MIYOSHI, Yasuhito; YOSHIKAWA, Hirofumi; MATSUSHITA, Michio; AWAGA, Kunio

**3E4-18**\* *In situ* infrared spectra of 1D metallic peanut-shaped C<sub>60</sub> polymer at low temperature (Tokyo Tech; Hokkaido Univ.) TAKASHIMA, Akitō; TODA, Yasunori; ONOE, Jun

### Sunday, March 28, PM

Chair: AWAGA, Kunio (13 : 20~14 : 30)

\* 13:10-13:20: interval for laptop PC connection.(3E4-27, 3E4-28, 3E4-29, 3E4-30, 3E4-31, 3E4-32, 3E4-33)

**3E4-27** Magnetic field effect on EL of metalloporphyrin devices (The Institute for Solid State Physics, The Univ. of Tokyo) ISOZAKI, Hikaru; TAJIMA, Hiroyuki

**3E4-28** Formation of Nanostripes of Bent Donor Salts on Phospholipid-Coated Silicon Wafer (Grad. School of Sci., Osaka Pref. Univ.; Fac. of Eng., Osaka Electro-comm. Univ.; AIST; France, CNRS, LCC) WATANABE, Keita; AONUMA, Shuji; SUGIMOTO, Toyonari; TANAKA, Hisashi; DU CARO, Dominique; VALADE, Lydie

**3E4-29** Measurement of Electronic Properties of Single/Small number of Molecules Using Gold Nano-rods (Graduate School of Science, Osaka Univ.) TOTOKI, Yuji; TANAKA, Hirofumi; HINO, Takami; OGAWA, Takuji

**3E4-30** Non-linear properties of organic molecular electronic devices using nano-gapped electrodes (Grad. Sch. Sci., Osaka Univ.) TAJIMA, Kotaro; TANAKA, Hirofumi; HINO, Takami; LEE, Junri; OGAWA, Takuji

**3E4-31** Morphology and electrical properties of phthalocyanine thin films on sapphire (Kyoto Univ.) MURDEY, Richard; SATO, Naoki

**3E4-32** Angle resolved X-ray photoemission spectroscopic study on the surface core level shift in organic solids (Kyoto Univ.) YOSHIDA, Hiroyuki; SATO, Naoki

**3E4-33** A study of charge injection barrier at organic-metal interface by use of blocking electrode (The Institute for Solid State Physics, The Univ. of Tokyo) YOSHIMATSU, Takeshi; HAYASHI, Yoshiyuki; SHIMIZU, Tomoko; TAJIMA, Hiroyuki

### Conductor

Chair: NISHIKAWA, Hiroyuki (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3E4-35, 3E4-36, 3E4-37, 3E4-38, 3E4-39, 3E4-40)

**3E4-35** Structure and physical properties of radical cation salts based on CP-TTP (Graduate School of Science and Engineering, Ehime Univ.) NISHIWAKI, Masataka; NAKAMURA, Kenichi; SHIRAHATA, Takashi;

MISAKI, Yohji

**3E4-36** Structure and properties of tetrathiapentalene with methoxy groups. (Graduate School of Science and Engineering, Ehime Univ.) ITO, Tetsuya; ASAMITSU, Naoya; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; KAWAMOTO, Tadashi; MORI, Takehiko; MISAKI, Yohji

**3E4-37** Syntheses and properties of diselenadithiapentalene (STP) donors with ethylenedioxy group (Graduate School of Science and Engineering, Ehime Univ.) WATANABE, Masaki; WADA, Hidenori; NAKAMURA, Kenichi; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yohji

**3E4-38** Structures and properties of an organic magnetic metal,  $\kappa$ - $\beta$ '-(ET)<sub>2</sub>(PO-CONHC<sub>2</sub>H<sub>4</sub>SO<sub>3</sub>) (2) (PO = 2,2,5,5-tetramethyl-3-pyrrolin-1-oxyl free radical) (Univ. of Hyogo) AKUTSU, Hiroki; YAMASHITA, Shinji; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi; HOSOKOSHI, Yuko

**3E4-39** Preparations, Crystal Structures, and Physical Properties of MCl<sub>4</sub> Salts (M = Fe, Ga) of *meso*-, racemic, and (S, S)-DMDH-TTP (Univ. of Hyogo) ICHIKAWA, Shun; SONG, Hua; MIURA, Kouki; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi

**3E4-40** Spin Dynamics of Photo-induced Functional Materials TTF-derivatives (Institute for Molecular Science; The Graduate Univ. for Advanced Studies; Osaka Pref. Univ.) FURUKAWA, Ko; SUGISHIMA, Yasuo; FUJIWARA, Hideki; NAKAMURA, Toshikazu

Chair: SHIGA, Takuya (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(3E4-42, 3E4-44, 3E4-45, 3E4-46)

**3E4-42**\* Competed Electronic Phases of TMTTF based salt (IMS, SOKENDAI) FURUKAWA, Ko; IWASE, Fumitatsu; SUGIURA, Koichi; NAKAMURA, Toshikazu

**3E4-44** Physical properties of TTF-linked metal complex under pressure (Univ. of Tsukuba) NISHIKAWA, Hiroyuki; OSHIMA, Hironori; OSHIO, Hiroki

**3E4-45** Crystal structures and properties of the protonated complexes composed of TTF derivatives substituted with heteroaromatic compound containing nitrogen atoms (ISSP, The Univ. of Tokyo) LEE, Sangchul; TAKAHASHI, Kazuyuki; MORI, Hatsumi

**3E4-46**\* An effect of a guest substitution on ionic conductivity of an oxalate-bridged coordination polymer (Kyoto Univ., Kyushu Univ., JST-CREST) SADAKIYO, Masaaki; YAMADA, Teppei; OKAWA, Hisashi; KITAGAWA, Hiroshi

Chair: MORI, Hatsumi (17 : 00~18 : 00)

\* 16:50-17:00: interval for laptop PC connection.(3E4-49, 3E4-51, 3E4-52, 3E4-53, 3E4-54)

**3E4-49**\* Synthesis and Electronic State of a 3-Legged MX-Triple-Strand Platinum Complex (Kyushu Univ.; Kyoto Univ.; JST-CREST) OTSUBO, Kazuya; KITAGAWA, Hiroshi

**3E4-51** Physical property of molecular conductor based on naphthalenediimide derivative and quasi-one-dimensional Br-bridged lead complex (Tohoku Univ.) IGUCHI, Hiroaki; TAKAISHI, Shinya; KUBO, Kazuya; MIYASAKA, Hitoshi; YAMASHITA, Masahiro

**3E4-52**<sup>†</sup> Hole Doping in Soluble Organic-Inorganic Hybrid Semiconductors (Graduate School of Science, Hokkaido Univ.) TAKAHASHI, Yukari; TAKAHASHI, Yukihiko; INABE, Tamotsu

**3E4-53** High pressure electrical properties of molecular conductor  $\beta$ '-Me<sub>3</sub>P[Pd(dmit)<sub>2</sub>]<sub>4</sub> by using a Diamond Anvil Cell (RIKEN) CUI, Hengbo; TAJIMA, Naoya; KATO, Reizo

**3E4-54**\* Isotope effect of charge-ordering phase transition of  $\alpha$ '-(BEDT-TTF)<sub>2</sub>IBr<sub>2</sub> (IMS; Hokkaido Univ.) YUE, Yue; YAMAMOTO, Kaoru; URUICHI, Mikio; YAKUSHI, Kyuya; KAWAMOTO, Atsushi

### Monday, March 29, AM

#### Conductor

Chair: MOCHIDA, Tomoyuki (9 : 10 ~ 10 : 00)

\* 9:00-9:10: interval for laptop PC connection.(4E4-02, 4E4-03, 4E4-05)

**4E4-02** Molecular Conductors Based on Chromium Phthalocyanine (Kumamoto Univ.) YOSHIMOTO, Ryu-suke; MATSUDA, Masaki

**4E4-03**\*<sup>†</sup> Development of experimental techniques for highly sensitive magnetic torque measurements and their application to the iron(III) phthalocyanine conductors (ISSP, The Univ. of Tokyo; Grad. School of Sci. and Tech., Kumamoto Univ.; Grad. School of Sci., Hokkaido Univ.; Grad. School of Natural Sci. and Tech., Okayama Univ.) INOUE, Munenori; TORIZUKA, Kiyoshi; TAJIMA, Hiroyuki; MATSUDA, Masaki; YU, D. E. C.; NAITO, Toshio; INABE, Tamotsu; HANASAKI, Noriaki

**4E4-05**\* Crystal Structures and Physical Properties of Phthalocyanine-based Conductors Bearing a Spin Crossover Cation (ISSP, The Univ. of Tokyo; Kumamoto Univ.; Keio Univ.; IMCE, Kyushu Univ.) TAKAHASHI, Kazuyuki; SATO, Tetsuya; MATSUDA, Masaki; MORI, Hatsumi; TAJIMA, Hiroyuki; EINAGA, Yasuaki; SATO, Osamu

Chair: MATSUDA, Masaki (10 : 10~11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(4E4-08, 4E4-09, 4E4-10, 4E4-12)

**4E4-08** Properties of silica nanoparticles coated with metal phthalocyanine

complexes prepared by milling technique. (Kobe Univ.) FUNABIKI, Akira; MOCHIDA, Tomoyuki; ICHIMURA, Kunihiro

- 4E4-09** Abnormal Magnetoresistance of a Ferromagnetic Semiconductor (EDT-TTFVO)  $_2$ FeBr $_4$  and an Antiferromagnetic Metal (EDT-DSDTFVS)  $_2$ FeBr $_4$  (Grad. School of sci., Osaka Pref. Univ.; Grad. School of Eng., Osaka Pref. Univ.; Nanomater. Lab., NIMS) SUGIMOTO, Toyonari; NOGUCHI, Satoru; SATUKAWA, Hidetaka; UJI, Shinya
- 4E4-10\*** Super periodicity and energy splits in Coulomb-diamond in a "double-dot single electron transistor" consists of molecular wires and gold nanoparticles (Chiba Univ.; PRESTO, JST; NICT; The Univ. of Tokyo; Nagoya Univ.) NOGUCHI, Yutaka; TERUI, Toshifumi; KATAYAMA, Takuya; MATSUSHITA, Michio M.; SUGAWARA, Tadashi
- 4E4-12<sup>†</sup>** Orbital views of conductance in polycyclic aromatic hydrocarbons with impurity defects (IMCE, Kyushu Univ.) LI, Xinqian; STAYKOV, Aleksandar; YOSHIZAWA, Kazunari

Chair: MATSUSHITA, Michio-M. (11:10~12:00)

\* 11:00-11:10: interval for laptop PC connection.(4E4-14, 4E4-16)

- 4E4-14\*** Conductance through Short DNA Molecules (IMCE, Kyushu Univ.) STAYKOV, Aleksandar; TSUJI, Yuta; YOSHIZAWA, Kazunari
- 4E4-16** Young Scholar Lectures of CSJ Creation of Nano Molecular Devices (ISIR, Osaka Univ.) TANIGUCHI, Masateru

Monday, March 29, PM

### Magnetic Property

Chair: TANIGUCHI, Masateru (13:20~14:10)

\* 13:10-13:20: interval for laptop PC connection.(4E4-27, 4E4-29, 4E4-30, 4E4-31)

- 4E4-27<sup>†</sup>** Magnetic Sponge of Co-Pd alloy nanoparticles bridged with alkane dithiols (TIT; NUS) ITO, Yoshikazu; MIYAZAKI, Akira; TAKAI, Kazuyuki; SIVAMURUGAN, Vajravelu; MAENO, Takashi; OGAWA, Yoshihiro; NAKAMURA, Naotake; VALIYAVEETIL, Suresh; ENOKI, Toshiaki
- 4E4-29** Theoretical studies on adsorption phenomenon of oxygen molecules as spin source into nano-pore and onto surface (Osaka Univ.) KAWAKAMI, Takashi; KINOSHITA, Keiji; KITAGAWA, Yasutaka; YAMAGUCHI, Kizashi; OKUMURA, Mitsutaka
- 4E4-30** The theoretical research of adsorption of oxygen molecule on the benzene. (Osaka Univ.) KINOSHITA, Keiji; KAWAKAMI, Takashi; KITAGAWA, Yasutaka; YAMAGUCHI, Kizashi; OKUMURA, Mitsutaka
- 4E4-31** Crystal Structure and Physical Property of [Ni(dmit) $_2$ ] Salts Containing Fluoroadamantylammonium - Crown Ethers Supramolecules (Research Institute for Electronic Science, Hokkaido Univ.) YAN, Yin-nan; AKUTAGAWA, Tomoyuki; NORO, Shin-ichiro; NAKAMURA, Takayoshi

Chair: NUIDA, Tomohiro (14:20~15:20)

\* 14:10-14:20: interval for laptop PC connection.(4E4-33, 4E4-34, 4E4-35, 4E4-36, 4E4-37, 4E4-38)

- 4E4-33** Magnetic Properties and Moessbauer Spectra of the Intermediate Spin State Complex with Alternative 1D Chain Structure, TEA $_2$ [Fe(dmdap) $_2$ ] $_2$  (Research Center for Materials Science and Graduate School of Science, Nagoya Univ., and Johannes Gutenberg Univ.) SUIZU, Rie; SHUKU, Yoshiaki; YOSHIKAWA, Hirofumi; AWAGA, Kunio; PUTZ, Anna-maria; RENTSCHLER, Eva
- 4E4-34** Synthesis and physical properties of Vanadyl tetrakis(thiadiazole) porphyrazine(VOTDPz) (Nagoya Univ.) TAKAHASHI, Kouji; YOSHIKAWA, Hirofumi; MATSUSHITA, Michio; AWAGA, Kunio
- 4E4-35** Ferromagnetic Phase Transition of Nitronyl Nitroxide Radical Crystals with Chiral Helicity of Molecular Packing (Osaka City Univ.; Osaka Univ.) OKADA, Sho; SHIOMI, Daisuke; KANZAKI, Yuki; MIYAZAKI, Yuji; INABA, Akira; TANAKA, Rika; SATO, Kazunobu; TAKUI, Takeji
- 4E4-36** Electron-spin quantum operations and decoherence in weakly exchange-coupled biradical qubits (Osaka City Univ.; Kinki Univ.; Osaka Univ.; Bruker Bospin Co.; JST) NAKAZAWA, Shigeaki; SATO, Kazunobu; YOSHINO, Tomohiro; ISE, Tomoaki; NISHIDA, Shinsuke; MORI, Nobuyuki; RAHIMI, Robabeh; MORITA, Yasushi; TOYOTA, Kazuo; SHIOMI, Daisuke; KITAGAWA, Masahiro; NAKASUJI, Kazuhiro; HARA, Hideyuki; CARL, Patrik; HOFER, Peter; TAKUI, Takeji
- 4E4-37** ESR Study of Dinuclear Co Complex Showing LIESST Phenomena (III) (Osaka City Univ.; Kyushu Univ.) TEKI, Yoshio; SHIROKOSI, Mugenn; KANAGAWA, Shinji; SATO, Osamu

### Optical Property

- 4E4-38** Photoexcited High Spin  $\pi$  Radical-based Electroluminescence(II) (Osaka City Univ.) HIDEKUMA, Takashi; YAMA, Tatsuya; TEKI, Yoshio

Chair: YOSHIZAWA, Kazunari (15:30~16:30)

\* 15:20-15:30: interval for laptop PC connection.(4E4-40, 4E4-41, 4E4-42, 4E4-43, 4E4-44, 4E4-45)

- 4E4-40** Effects of Temperature on Auger Recombination Dynamics of CdTe

Quantum Dots by Transient Absorption Spectroscopy (Kwansei Gakuin Univ.; School of Science and Technology.) UDAGAWA, Takeshi; KOBAYASHI, Yoichi; TAMAI, Naoto

- 4E4-41** Effects of Temperature on Multiexciton Dynamics of CdTe Quantum Dots by Time-resolved Luminescence Spectroscopy (Kwansei Gakuin Univ.; School of Science and Technology.) KOBAYASHI, Yoichi; UDAGAWA, Takeshi; TAMAI, Naoto
- 4E4-42** White emission in nanoparticle adsorbing N,N-dimethylaminopyrene derivatives with solvatochromic effect (School of Env. Sci. and Eng., Kochi Univ. of Tech.) SUMI, Katsuhiko; FURUE, Masaoki; MAEDA, Mika
- 4E4-43** Large magnetization-induced second harmonic generation in chiral ferromagnet (School of Science, The Univ. of Tokyo; UPMC) NUIDA, Tomohiro; TRAIN, Cyrille; OHKOSHI, Shin-ichi
- 4E4-44** High frequency millimeter wave absorption properties in  $\epsilon$ -Ga $_x$ Fe $_2$  $_3$ O $_3$  (The Univ. of Tokyo; Ehime Institute of Industrial Technology) NAMAI, Asuka; KURAHASHI, Shinji; HACHIYA, Hiroshi; TOMITA, Kohtarō; OHKOSHI, Shin-ichi
- 4E4-45** Structural Analysis and Time-resolved Spectroscopic Studies of Cds Nanowires (Kwansei Gakuin Univ.) HIGASHI, Shigeki; TAMAI, Naoto

## Room E5

Bldg.33 33-401

### Physical Organic Chemistry -Structures and Properties-

Friday, March 26, AM

Chair: FUKUSHIMA, Takanori (9:00~10:10)

\* 8:50-9:00: interval for laptop PC connection.(1E5-01, 1E5-03, 1E5-04, 1E5-05)

- 1E5-01\*** Two Dimensional Molecular Networks of Dehydrobenzo[12]annulenes at an organic solvent/Au(111) interface (Graduate School of Engineering Science, Osaka Univ.; K. U. Leuven) TAHARA, Kazukuni; BALANDINA, Tanya; ADISOEJOSO, Jinne; LEI, Shengbin; DE FEYTER, Steven; TOBE, Yoshito
- 1E5-03** Chirality Control in Two-Dimensional Molecular Networks Based on Precise Molecular Design (School of Engineering Science, Osaka Univ.) YAMAGA, Hiroyuki; TAHARA, Kazukuni; TOBE, Yoshito
- 1E5-04** Two-Dimensional Porous Networks of Dehydrobenzo[12]annulene Derivatives Containing Azobenzene Units: Effect of the Azobenzene Units on Guest Coadsorption (Graduate School of Engineering Science, Osaka Univ.; K. U. Leuven) INUKAI, Koji; TAHARA, Kazukuni; DE FEYTER, Steven; TOBE, Yoshito
- 1E5-05\*** Effect of multiple-interaction on supramolecular architectures of functionalized helicene (National Institute for Materials Science) KASEYAMA, Takahiro; FURUMI, Seiichi; TANAKA, Ken; TAKEUCHI, Masayuki

Chair: TSUDA, Akihiko (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(1E5-08, 1E5-10, 1E5-12)

- 1E5-08\*** Formation of Modular Molecular Networks of Butadiene-Bridged SquareMacrocycles (Graduate School of Engineering Science, Osaka Univ.; K. U. Leuven) GOTODA, Jun; TAHARA, Kazukuni; DE FEYTER, Steven; TOBE, Yoshito
- 1E5-10\*** Oligo(o-phenylene): New Dynamic Helical Molecules with an Extremely High Pi-Electron Density (RIKEN Advanced Science Institute; The Univ. of Tokyo) ANDO, Shinji; OHTA, Eisuke; KOSAKA, Atsuko; FUKUSHIMA, Takanori; HASHIZUME, Daisuke; MURAOKA, Azusa; USHIYAMA, Hiroshi; AIDA, Takuzo
- 1E5-12\*** Oligo(o-phenylene): Memory of Helical Chirality Induced by Spontaneous Symmetry Breaking in Crystallization (RIKEN Advanced Science Institute; JST ERATO-SORST Nanospace Pro.; Rigaku) OHTA, Eisuke; SATOH, Hiroyasu; KOSAKA, Atsuko; FUKUSHIMA, Takanori; HASHIZUME, Daisuke; YAMASAKI, Mikio; HASEGAWA, Kimiko; AIDA, Takuzo

Chair: TAKEUCHI, Masayuki (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(1E5-15, 1E5-17, 1E5-18, 1E5-19)

- 1E5-15\*** Oligo(o-phenylene): Formation of a Liquid Crystalline Phase from a Cylindrical Pi-Conjugated Helix and Its Macroscopic Alignment (RIKEN Advanced Science Institute) KAJITANI, Takashi; SUNA, Yuki; KOSAKA, Atsuko; FUJIKAWA, Shigenori; FUKUSHIMA, Takanori; AIDA, Takuzo
- 1E5-17** Synthesis of a Dyad Consisting of Tripod-shaped Triithiol and Benzocrown Ether and Preparation of Its Self-Assembled Monolayer on Au (111) (Grad. Sch. Eng., Mie Univ.) UMEMURA, Tatsuhiko; KITAGAWA, Toshikazu; OKAZAKI, Takao
- 1E5-18** Double-Activated Reactions with Self-Activated Supramolecular Complexes. (Grad. Sch. Sci., Kobe Univ.) KAWAKAMI, Kazumitsu; SEI, Yoshihisa; YAMAGUCHI, Kentaro; TSUDA, Akihiko

**1E5-19<sup>#</sup>** Metal Ion-Assisted Formation of Hexabenzocoronene Nanotubes with Radial and Linear Heterojunctions (The Univ. of Tokyo) ZHANG, Wei; JIN, Wusong; FUKUSHIMA, Takanori; ISHII, Noriyuki; AIDA, Takuzo

Friday, March 26, PM

Chair: YAGAI, Shiki (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(1E5-28, 1E5-29, 1E5-30, 1E5-31, 1E5-32, 1E5-33)

**1E5-28** Development of Amphiphilic Oligomers Adopting Higher-Order Structures (IMRAM, Tohoku Univ.) SHIMA, Tatsuya; MURAOKA, Takahiro; KINBARA, Kazushi

**1E5-29<sup>†</sup>** Swelling of the Schiff-base Macrocyclic with the Solvents (Department of Chemistry, Graduate School of Sciences, Institute for Materials Chemistry and Engineering, Kyushu Univ.) HARANO, Aya; NAKAGAKI, Takeshi; GOTO, Kenta; SHINMYOZU, Teruo

**1E5-30** Synthesis and self-assembly of tris(phenylisoxazolyl)benzene possessing perylenebisimide chromophore (Hiroshima Univ.) MASUDA, Tetsuya; ISHIBASHI, Masahiro; IKEDA, Toshiaki; HAINO, Takeharu

**1E5-31** Synthesis and Multicomponent Assembly of Diamidine Compound having Biphenylene Unit. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; IIZUKA, Wataru; HARADA, Toshiro

**1E5-32** Formation of Assembly by Using Amidinium-Carboxylate Salt Unit in A Polar Solvents (Kyoto Institute of Technology) KUSUKAWA, Takahiro; FUJITA, Tomoki; HARADA, Toshiro

**1E5-33** Recognition of Carboxylic Acids with amidines having anthracene units and its Fluorescent Properties. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; TOYAMA, Keisuke; HARADA, Toshiro

Chair: YAMANAKA, Masamichi (14 : 40~15 : 30)

\* 14:30-14:40: interval for laptop PC connection.(1E5-35, 1E5-36, 1E5-37, 1E5-38, 1E5-39)

**1E5-35** Emission Color Change Based on Aggregation of Benzothiadiazole Fluorescent Dyes (Kurume National College of Technology) ESAKI, Naoyuki; ISHII, Tsutomu

**1E5-36** Self-assembling of Two-photon Absorption Benzothiadiazole Dyes having Cholesterol Moieties (Kurume National College of Technology) NAKAMURA, Nozomi; ISHII, Tsutomu

**1E5-37** Effect of  $\pi$ -conjugation length on the self-aggregation of Barbituric Acid-Functionalized Oligothiophenes (Graduate School of Engineering, Chiba Univ.; PRESTO, JST) YAGAI, Shiki; NOGUCHI, Takuya; KARATSU, Takashi; KITAMURA, Akihide; KIKKAWA, Yoshihiro

**1E5-38** Supramolecular Self-Assemblies of Cyanuric Acid-Functionalized Oligothiophenes (Graduate School of Engineering, Chiba Univ.; PRESTO, JST; AIST) YAGAI, Shiki; GUSHIKEN, Marina; KARASTSU, Takashi; KITAMURA, Akihide; KIKKAWA, Yoshihiro

**1E5-39** One-dimensional self-assembling of n-type organic semiconductor hexaazatriphenylenes (Kurume National College of Technology) TESHIMA, Yuuki; HIRASHIMA, Ryoichi; ISHII, Tsutomu

Chair: KINBARA, Kazushi (15 : 40~16 : 30)

\* 15:30-15:40: interval for laptop PC connection.(1E5-41, 1E5-42, 1E5-43)

**1E5-41** Control of self-assembled architectures of cyanuric-acid functionalized perylene bisimides by complementary hydrogen-bonding modules (Graduate School of Engineering, Chiba Univ.; PRESTO, JST) YAGAI, Shiki; USUI, Mari; KARATSU, Takashi; KITAMURA, Akihide

**1E5-42** Construction of bisurea supramolecular polymers functionalized with perylene bisimide (Graduate School of Engineering, Chiba Univ.; PRESTO, JST; AIST) YAGAI, Shiki; HIRONO, Misaki; KARATSU, Takashi; KITAMURA, Akihide; KIKKAWA, Yoshihiro

**1E5-43 CSJ Award for Young Chemists** Development of Electroactive Nanomaterials by Self-Assembly (JST ERATO-SORST) YAMAMOTO, Yohei

Chair: MURAOKA, Takahiro (16 : 40~17 : 30)

\* 16:30-16:40: interval for laptop PC connection.(1E5-47, 1E5-48, 1E5-49, 1E5-50, 1E5-51)

**1E5-47** Effect of Conjugation Length on the Self-assembly of Oligo(*p*-phenylenevinylene)s Possessing Barbituric Acid Hydrogen-bonding Unit (Graduate School of Engineering, Chiba Univ.; PRESTO, JST) YAGAI, Shiki; GOTO, Yusaku; KARATSU, Takashi; KITAMURA, Akihide

**1E5-48** Synthesis of tris urea compounds and their gelation (Shizuoka Univ.) AMAKATSU, Mawo; AOYAMA, Ryohei; NAKAGAWA, Tomoe; YAMANAKA, Masamichi

**1E5-49** Gelation behavior of tris-urea compound with perfluoroalkyl group (Shizuoka Univ.) FUJII, Hiromitsu; YAMANAKA, Masamichi

**1E5-50** Development of Chemical Stimuli-Responsive supermolecular hydrogel (Shizuoka Univ.) HARAYA, Nana; YAMANAKA, Masamichi

**1E5-51<sup>†</sup>** Galation behavior and nanofibril structure of pyromellitic diimide-based macrocycle (Dept. Chem., Grad. Sch. Sci., Kyushu Univ.; Institute for Materials Chemistry and Engineering, Kyushu Univ.; Okayama Univ. of Sci.) NAKAGAKI, Takeshi; HARANO, Aya; IWANAGA, Tetsuo; GOTO, Kenta; SHINMYOZU, Teruo

Chair: SHINMYOZU, Teruo (17 : 40~18 : 30)

\* 17:30-17:40: interval for laptop PC connection.(1E5-53, 1E5-56, 1E5-57)

**1E5-53** Young Scholar Lectures of CSJ Construction of Functional Supramolecular Gel Using Tris-urea Compounds (Fac. Sci., Shizuoka Univ.) YAMANAKA, Masamichi

**1E5-56** Supramolecular self-assembly of xylylene-linked OPV dimers (Graduate School of Engineering, Chiba Univ.; PRESTO, JST) YAGAI, Shiki; HIMORI, Shougo; KARATSU, Takashi; KITAMURA, Akihide

**1E5-57** Supramolecular Chiral Assemblies of Xylylene-linked Oligo(*p*-phenylenevinylene) Dimers (Graduate School of Engineering, Chiba Univ.; PRESTO, JST) YAGAI, Shiki; TAZAWA, Tsuyoshi; KIKKAWA, Yoshihiro; KARATSU, Takashi; KITAMURA, Akihide

Saturday, March 27, PM

Chair: SATO, Sota (12 : 40~13 : 40)

\* 12:30-12:40: interval for laptop PC connection.(2E5-23, 2E5-24, 2E5-25, 2E5-26, 2E5-27, 2E5-28)

**2E5-23** Synthesis and characterization of Verkade's base @ hemicryptophane (Department of Engineering, Osaka Prefecture Univ.; Osaka Dental Univ.) FURUYOSHI, Kenta; MAKITA, Yoshimasa; FUJIWARA, Shin-ichi; OGAWA, Akiya

**2E5-24** Inclusion behavior of a zinc(II) @ hemicryptophane (Osaka Dental Univ.; Department of Engineering, Osaka Pref. Univ.) MAKITA, Yoshimasa; SUGIMOTO, Kazuya; FUJIWARA, Shin-ichi; OGAWA, Akiya

**2E5-25** Guest exchange in hybrid supramolecular capsule (Shizuoka Univ.) ADACHI, Hirofumi; TOYODA, Naoaki; KOBAYASHI, Kenji; YAMANAKA, Masamichi

**2E5-26** Formation of dimeric capsule via self-assembly of tripodal molecule and selective recognition of lithium ion (Shizuoka Univ.) MINODANI, Shoichi; YAMANAKA, Masamichi

**2E5-27** Self-assembled hybrid supramolecular capsule via hydrogen bonds and coordination bonds (Shizuoka Univ.) KAWAHARADA, Masashi; KOBAYASHI, Kenji; YAMANAKA, Masamichi

**2E5-28** Molecular Recognition Capability of a Fluorescent Diazaborole Cavitand (Tokyo Metropolitan Univ.; Molecular Analysis and Life Science Center, Saitama Univ.) TSURUZOE, Kazusa; OKUYAMA, Sachiko; NISHIYABU, Ryuhei; HUIHARA, Takashi; KUBO, Yuji

Chair: FUJITA, Makoto (13 : 50~14 : 40)

\* 13:40-13:50: interval for laptop PC connection.(2E5-30)

**2E5-30<sup>#</sup> Special Lecture** Adjustable Molecular Capsules (The Scripps Research Institute, USA) Dariush AJAMI

Chair: HIRAOKA, Shuichi (14 : 50~15 : 30)

\* 14:40-14:50: interval for laptop PC connection.(2E5-36, 2E5-37, 2E5-38, 2E5-39, 2E5-41)

**2E5-36** Extraordinary Stability of Hydrogen-Bonded Self-Assembled Hetero-Capsule by Encapsulation of 1,4-Bis(1-propynyl)benzene (Shizuoka Univ.; Bruker axis) TOGARI, Yuka; KIKUTA, Emi; KITAGAWA, Hitomi; YOZA, Kenji; YAMANAKA, Masamichi; KOBAYASHI, Kenji

**2E5-37** Self-Assembled Cavitand-Capsule by Dynamic Boronic Ester Formation: Investigation of Bis(catechol)-Linkers (Shizuoka Univ.) ISHIGAMI, Asumi; NISHIMURA, Naoki; KOBAYASHI, Kenji

**2E5-38** Photochemical Properties of 2,6-Diacetoxyanthracene Encapsulated in Self-Assembled Cavitand-Capsule (Shizuoka Univ.) NISHIMURA, Naoki; HIRUMI, Yohei; KOBAYASHI, Kenji

**2E5-39<sup>\*</sup>** Template synthesis of monodisperse nanoparticles with hollow coordination spheres (School of Engineering, The Univ. of Tokyo; CREST, JST) SUZUKI, Kosuke; SATO, Sota; FUJITA, Makoto

**2E5-41** Solubility of fluorine compounds within a hollow coordination sphere (School of Engineering, The Univ. of Tokyo; CREST, JST) TAKAO, Kiyotaka; SUZUKI, Kosuke; SATO, Sota; FUJITA, Makoto

Chair: KOBAYASHI, Kenji (16 : 00~17 : 00)

\* 15:50-16:00: interval for laptop PC connection.(2E5-43, 2E5-45, 2E5-47, 2E5-48)

**2E5-43<sup>\*</sup>** Structural Conversion from a Pd(II)-Ti(IV) Multinuclear Ring Complex to a Cage Complex Induced by a Dicationic Guest Molecule (The Univ. of Tokyo) SAKATA, Yoko; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiro

**2E5-45<sup>\*</sup>** One-Dimensional Self-Assembly of Septet Aromatic-Stacked Coordination Complexes (Grad. School of Engineering, The Univ. of Tokyo) YAMAUCHI, Yoshihiro; HANAOKA, Yuya; YOSHIZAWA, Michito; ICHIKAWA, Takahiro; YOSHIO, Masafumi; KATO, Takashi; FUJITA, Makoto

**2E5-47** Pair-selective Recognition and Dynamic Behaviors of Aromatic Guest Molecules within Self-Assembled Host Cages (Grad. School of Engineering, The Univ. of Tokyo; CREST, JST) OTSUKA, Kosuke; MURASE, Takashi; FUJITA, Makoto

**2E5-48** [m<sub>n</sub>x<sub>n</sub>] Matrix Synthesis of Gold Clusters within Organic-Pillared Coordination Cages (Grad. School of Engineering, The Univ. of Tokyo; CREST, JST) OSUGA, Takafumi; ONO, Kosuke; YAMAUCHI, Yoshihiro; MURASE, Takashi; FUJITA, Makoto

(The Univ. of Tokyo) FURUKAWA, Junichi; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiko

Sunday, March 28, AM

Chair: FURUSHO, Yoshio (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3E5-01, 3E5-02, 3E5-03, 3E5-04, 3E5-05, 3E5-06)
- 3E5-01** Solution Properties of Monodisperse Polycationic Organic Nanocapsules (The Univ. of Tokyo) ARAKANE, Ryo; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiko
- 3E5-02** Mechanism Elucidation of Site-Selective Ligand Exchange in Octahedron-Shaped Hexanuclear Capsule Complexes (The Univ. of Tokyo) HASHIDA, Shizuka; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiko
- 3E5-03** Selective ligand exchange in isostructures of octahedron-shaped hexanuclear capsule complexes bearing various metal ions on vertices (Grad. Sch. of Sci., The Univ. of Tokyo) ISHIDA, Junichi; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiko
- 3E5-04** Construction of a Water-soluble  $M_{12}L_{24}$  Spherical Complex with Sugar Coating (School of Engineering, The Univ. of Tokyo; CREST, JST) TAKAHASHI, Asana; FUJITA, Daishi; SATO, Sota; FUJITA, Makoto
- 3E5-05** Integration of bioactive oligosaccharides on the surface of an  $M_{12}L_{24}$  spherical complex (Sch. Eng., The Univ. of Tokyo; CREST, JST) FUJITA, Daishi; SATO, Sota; YAGI, Maho; YAMAGUCHI, Takumi; KATO, Koichi; FUJITA, Makoto
- 3E5-06** Analysis of Dynamic Behaviors of a Cage-Shaped Hexanuclear Pt(II) Host in Chiral Recognition (Grad. Sch. of Sci., The Univ. of Tokyo) MIYAKE, Shiho; HIRAOKA, Shuichi; MURANAKA, Atsuya; UCHIYAMA, Masanobu; SHIRO, Motoo; SHIONOYA, Mitsuhiko

Chair: HIRAOKA, Shuichi (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(3E5-08, 3E5-10, 3E5-11, 3E5-13)
- 3E5-08\*** Base Pairs Formation of Short Nucleotide Fragments within the Self-Assembled Hydrophobic Cavities (Grad. School of Engineering, The Univ. of Tokyo; CREST, JST) SAWADA, Tomohisa; YOSHIZAWA, Michito; SATO, Sota; FUJITA, Makoto
- 3E5-10** Folding of Oligopeptides into Helix via Enclathration in the Cavity of Self-Assembled Host (Grad. School of Engineering, The Univ. of Tokyo; CREST, JST) HATAKEYAMA, Yoshiyuki; SAWADA, Tomohisa; CHRISTEL, Dolain; FUJITA, Makoto
- 3E5-11\*** Metal-Ion Assembly in Novel Organic Modules with a Cyclic or Cage Structure (Univ. of Tsukuba; NIMS; IMS; JST-PREST) SHOMURA, Ryo; HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro; HIGUCHI, Masayoshi
- 3E5-13<sup>#</sup>** Self-assembly of a Giant Hollow Spherical  $M_{24}L_{48}$  Complex (Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Sci. Eng., Tokyo Tech; Tokushima Bunri Univ.; CREST, JST) SUN, Qing-fu; SATO, Sota; OZEKI, Tomoji; SEI, Yoshihisa; YAMAGUCHI, Kentaro; FUJITA, Makoto

Chair: HIGUCHI, Masayoshi (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(3E5-15, 3E5-16, 3E5-18, 3E5-19)
- 3E5-15** Emergent Self-Assembly of Spherical  $M_{12}L_{24}$  and  $M_{24}L_{48}$  Complexes: Unique Well-Defined Structures Self-Searched via Multicomponent Self-Assembly (Grad. School of Engineering, The Univ. of Tokyo; CREST, JST) IWASA, Junji; SATO, Sota; FUJITA, Makoto
- 3E5-16\*** Artificial Replicating System through the Formation of Complementary Double Helix (Graduate School of Engineering, Nagoya Univ.; Yashima Super-Structured Helix Project, ERATO, JST) YAMADA, Hidekazu; ITO, Hiroshi; FURUSHO, Yoshio; YASHIMA, Eiji
- 3E5-18** synthesis of Catenanes Utilizing Amidinium-Carboxylate Salt Bridge Formation and Acid/Base Control of Their Catenane Structure (Graduate School of Engineering, Nagoya Univ.) NAKATANI, Yuji; FURUSHO, Yoshio; YASHIMA, Eiji
- 3E5-19\*** Structural Transformation of Double-Stranded Boron Helicates Consisting of Oligophenol Strands (Graduate School of Engineering, Nagoya Univ.) MIWA, Kazuhiro; FURUSHO, Yoshio; YASHIMA, Eiji

Sunday, March 28, PM

Chair: YOSHIZAWA, Michito (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(3E5-28, 3E5-30, 3E5-31, 3E5-33)
- 3E5-28\*** Syntheses and Optical Resolution of Triple-stranded Helical Metal Complexes of Oligo(imidazole)s (Graduate School of Science, Osaka Univ.) YAKIYAMA, Yumi; MURATA, Tsuyoshi; MATSUI, Yumiko; HASHIZUME, Daisuke; ISE, Tomoaki; NAKAZAWA, Shigeaki; SHIOMI, Daisuke; SATO, Kazunobu; NAKASUJI, Kazuhiro; TAKUI, Takeji; MORITA, Yasushi
- 3E5-30** Complex Formation of TTF-introduced Quaterimidazole with Metal Ions (Graduate School of Science, Osaka Univ.) MATSUI, Yumiko; YAKIYAMA, Yumi; MURATA, Tsuyoshi; NAKASUJI, Kazuhiro; MORITA, Yasushi
- 3E5-31\*** Synthesis and functions of porous coordination polymers having photo-reactive modules (JST-ERATO Kitagawa Project; Kyoto Univ.) SATO, Hiroshi; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 3E5-33** Precise arrangement of Ag(I) and Cu(I) ions on disk-shaped ligands

Chair: MATSUDA, Ryotaro (14:40~15:30)

- \* 14:30-14:40: interval for laptop PC connection.(3E5-35, 3E5-36, 3E5-37, 3E5-38, 3E5-39)
- 3E5-35\*** Synthesis and Structure of Ti(IV) Complex of Noncyclic Compounds having Catechol Moiety (Utsunomiya Univ.; AIST) KUWAR, Anil S.; HIRATANI, Kazuhisa; GOTOU, Midori; KANESATO, Masatoshi; NAGAWA, Yoshinobu; HAO, Jie
- 3E5-36** Metal Coordination of 2,2'-Biimidazole and Benzoimidazole Derivatives Bearing Aryl Group on Nitrogen Atom (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; ZHAO, Yu; AKAZOME, Motohiro
- 3E5-37**  $\pi$ - $\pi$  Interaction between 3,6-Disubstituted Carbazole Derivatives Induced by Complex Formation with Zinc Ions (Nara Inst. Sci. Tech.) INUKAI, Norie; YUASA, Junpei; KAWAI, Tsuyoshi
- 3E5-38** Synthesis of [5]catenane via ring-closing metathesis reaction of pseudorotaxane composed of [2]catenane and secondary-ammonium salt (Hiroshima Univ.; Niigata Univ.) TAFUKU, Shinzi; IWAMOTO, Hajime; HAINO, Takeharu
- 3E5-39** Towards Thiophene [3]Rotaxane composed of electron-acceptor cyclophane. (National Institute for Materials Science and Technology) IKEDA, Taichi; HIGUCHI, Masayoshi

Chair: HAINO, Takeharu (15:40~16:30)

- \* 15:30-15:40: interval for laptop PC connection.(3E5-41, 3E5-42, 3E5-43, 3E5-44, 3E5-45)
- 3E5-41** Syntheses of Neutral Rotaxanes through the Formation of Pentacoordinated Carboxysilanes (Tokyo Institute of Technology) DOMOTO, Yuya; SASE, Shohei; GOTO, Kei
- 3E5-42** Transformation of Axle Terminal Reactive Rotaxane by Nucleophilic Substitution and Its Functionalization (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) NAKAZONO, Kazuko; HASEGAWA, Toshihide; SUZUKI, Sakiko; TAKATA, Toshikazu
- 3E5-43** Formation and decomposition of rotaxane utilizing dynamic covalent chemistry of disulfide (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) YOSHII, Takahiro; KOHSAKA, Yasuhiro; KOYAMA, Yasuhiro; TAKATA, Toshikazu
- 3E5-44** Dynamic Rotaxane System Utilizing Boronate Ester Bonds (Tokyo Institute of Technology; Department of Organic and Polymeric Materials.) SUZUKI, Yudai; NAKAZONO, Kazuko; KOYAMA, Yasuhiro; TAKATA, Toshikazu
- 3E5-45**  $\alpha$ -Cyclodextrin Rotaxanes Using Deoxyribonucleotides as a Stopper (RCAST, The Univ. of Tokyo) YAMAZAKI, Takahiro; OHNISHI, Toshiyuki; KUZUYA, Akinori; KOMIYAMA, Makoto

Chair: GOTO, Kei (16:40~17:30)

- \* 16:30-16:40: interval for laptop PC connection.(3E5-47, 3E5-48, 3E5-49, 3E5-50, 3E5-51)
- 3E5-47** Construction of [n]rotaxanes with imine-bridging stations and their hydrolytic equilibrium (Dept. Chem., Fac. Sci., Hokkaido Univ.) SUGINO, Hiroyoshi; KAWAI, Hidetoshi; UMEHARA, Takeshi; FUJIWARA, Kenshu; SUZUKI, Takanori
- 3E5-48** Control of the dynamic properties of the cyclophanes by formation of the rotaxane structure (Department of Applied Chemistry, Kyushu Institute of Technology) NAKAMURA, Katsuji; MORIGUCHI, Tetsuji; ARAKI, Kouji; TSUGE, Akihiko
- 3E5-49** Construction of pH-driven molecular motor system exploiting isoxazole skeleton in rotaxane (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) KOYAMA, Yasuhiro; MATSUMURA, Tooru; TAKATA, Toshikazu
- 3E5-50** Synthesis and Application of tert-amine/ammonium salt type Rotaxane Switch (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) SUZUKI, Sakiko; NAKAZONO, Kazuko; TAKATA, Toshikazu
- 3E5-51** Inducement of one-handed helix on polyacetylene by using the unique chirality on rotaxane (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) ISHIWARI, Fumitaka; KOYAMA, Yasuhiro; NAKAZONO, Kazuko; TAKATA, Toshikazu

Chair: KOYAMA, Yasuhiro (17:40~18:10)

- \* 17:30-17:40: interval for laptop PC connection.(3E5-53, 3E5-54, 3E5-55)
- 3E5-53** A [2]rotaxane Containing Two Different Amine Centers. Synthesis, Translational Isomerism, and Specific *N*-Acylation (Department of Materials Science and Engineering, Faculty of Engineering, Univ. of Fukui.) KAWABATA, Masanori; TOKUNAGA, Yuji; HARADA, Naoki
- 3E5-54** Molecular shuttling of a rotaxane in response to redox stimulus. (Department of Materials Science and Engineering, Faculty of Engineering, Univ. of Fukui.) IWAMOTO, Takuya; TOKUNAGA, Yuji; SHOJI, Eiichi
- 3E5-55<sup>†</sup>** Synthesis of a molecular crank mechanism toward intramolecular transformation between rotation and translation (The Univ. of Tokyo) OKUNO, Erika; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiko

## Monday, March 29, AM

Chair: ABE, Hajime (9:00 ~ 10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4E5-01, 4E5-02, 4E5-03, 4E5-04, 4E5-05, 4E5-06)
- 4E5-01** Synthesis of p-tert-Butylazacalix[4]arene with Hydroxy Groups (Graduate School of Human and Environmental Studies, Kyoto Univ.) TSUE, Hirohito; MIYATA, Kazuyuki; ISHIBASHI, Koichi; ONO, Kohei; TAMURA, Rui
- 4E5-02** Regioselective halogenation of aromatic compounds by using thiacalix [4]arene titanium complexes as catalysts (Graduate School of Environmental Studies, Tohoku Univ.) SATO, Noriaki; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 4E5-03** Synthesis of 25,27-bis(diphenylphosphino)calix[4]arene and its complexation properties toward metal ions (Graduate School of Environmental Studies, Tohoku Univ.) KOBAYASHI, Takahiro; TANAKA, Shinya; AKAHIRA, Yuki; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 4E5-04** Inclusion properties of thiacalix[4]arenes toward carboxylic acids (Graduate School of Environmental Studies, Tohoku Univ.) NAKAYAMA, Hiroko; NOJI, Shintaro; TANAKA, Shinya; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 4E5-05** Synthesis and evaluation of thiacalix[4]arene derivatives bearing two different metal ion recognition units (Faculty of Science and Engineering, Saga Univ.) TOMIYASU, Hirotsugu; YAMATO, Takehiko
- 4E5-06<sup>#</sup>** Synthesis and Evaluation of a Novel Pyrenyl-Appended Triazole-Based Thiacalix[4]arene as a Fluorescent Sensor (Faculty of Science and Engineering, Saga Univ.) NI, Xin-long; TOMIYASU, Hirotsugu; YAMATO, Takehiko

Chair: TSUE, Hirohito (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4E5-08, 4E5-09, 4E5-10, 4E5-11, 4E5-12, 4E5-13)
- 4E5-08** Synthesis of the bisporphyrin host molecules based on the calixarene skeleton and their recognition properties (Department of Applied Chemistry, Kyushu Institute of Technology) IKEDA, Yutaka; MORIGUCHI, Tetsuji; ARAKI, Kouji; TSUGE, Akihiko
- 4E5-09** Preparation and Properties of New Organic Superbase; Azacalix[3]pyridine (Univ. of Tsukuba; TOSOH CORP.) UCHIDA, Natsuko; TAKETOSHI, Ayako; YAMAMOTO, Toshihide; INOUE, Yoshiaki; WATANABE, Yu; KANBARA, Takaki
- 4E5-10** Synthesis and metal affinity properties of new thiacalix[6]arene derivatives (Akita Univ.) OOTASHIRO, Yuji; KONDO, Yoshihiko; HAMADA, Fumio
- 4E5-11** Formation Behavior of Inclusion Complexes between Skeleton-Modified Cyclodextrins and Stereoregular Poly(methacrylic acid)s. (Osaka Univ.) MIURA, Takashi; KIDA, Toshiyuki; AKASHI, Mitsuru
- 4E5-12** Synthesis and saccharide recognition of macrocyclic ethynylpyridine hexamers with amphiphilic side chains (Grad. Sch. Pharm. Sci., Univ. of Toyama) CHIDA, Yusuke; ABE, Hajime; INOUE, Masahiko
- 4E5-13** Optical Resolution of C<sub>2</sub>-symmetric 18-Crown-6 Diol by Lipase-Catalyzed Reaction and Chiral Discrimination Ability of the Derivative (Osaka Institute of Technology) NAKAMURA, Misako; MURAOKA, Masahiro; NAKATSUJI, Yohji

Chair: ARAKI, Koji (11:20~12:30)

- \* 11:10-11:20: interval for laptop PC connection.(4E5-15, 4E5-16, 4E5-17, 4E5-18, 4E5-19, 4E5-20, 4E5-21)
- 4E5-15** Higher-Order Structures and Molecular Recognition of Water-Soluble Ethynylpyridine Foldamers with Chiral Side Chains (Grad. Sch. Pharm. Sci., Univ. of Toyama) OKADA, Kotaro; ABE, Hajime; INOUE, Masahiko
- 4E5-16** Synthesis of Ethynylpyridines with Cyclodextrin Side Chains (Grad. Sch. Pharm. Sci., Univ. of Toyama) TAKASHIMA, Shunsuke; ABE, Hajime; INOUE, Masahiko
- 4E5-17** Development of "molecular nut" with a chiral hollow (Grad. Sch. Pharm. Sci., Univ. of Toyama) KAYAMORI, Fumihiko; ABE, Hajime; INOUE, Masahiko
- 4E5-18** Evaluation of molecular recognition ability of dimeric cyclofructan derivatives toward alkylene diammonium ions (Osaka Municipal Tech. Res. Inst.; Osaka Institute of Technology) SHIZUMA, Motohiro; FUJINO, Yuki; SATO, Daisuke; SATO, Hirofumi; ONO, Daisuke; SHIMOMURA, Osamu; NOMURA, Ryouki; NAKAMURA, Masaki
- 4E5-19** Formation of the Macrocyclic Boronic Ester Using 1,5-Naphthalenedi(boronic acid) and its Ability for Binding Guest Molecules. (Tokyo Institute of Technology) KIKUCHI, Yuji; TAKAHAGI, Hiroki; IWASAWA, Nobuharu
- 4E5-20** Chiral recognition of carboxylic acid derivatives by using chiral Schiff-base macrocycles (Kansai Univ.) NAKAI, Yuki; TANAKA, Koichi
- 4E5-21** Guest inclusion properties of novel macrocyclic hosts derived from salicylic acid. (Kansai Univ.) TSUYUHARA, Shinya; TANAKA, Koichi

## Room E6

Bldg.33 33-402

## Physical Organic Chemistry -Reaction Mechanism-

## Friday, March 26, AM

Chair: ABE, Manabu (9:30 ~ 10:30)

- \* 9:20-9:30: interval for laptop PC connection.(1E6-04, 1E6-05, 1E6-06, 1E6-07, 1E6-08, 1E6-09)
- 1E6-04** Regio- and Stereo-selective Formation of  $\delta$ -Lactone by using Optically Active Hypervalent Iodine (Univ. of Hyogo) YOSHIDA, Yasushi; FUJITA, Morifumi; SUGIMURA, Takashi
- 1E6-05** Stereoselective Oxidation via an Optically Active Dioxolanyl Cation (Univ. of Hyogo) WAKITA, Mikimasa; FUJITA, Morifumi; SUGIMURA, Takashi
- 1E6-06** Gas Phase Unimolecular Dissociation for N-(Indan-2-carbonyl)-1-azacycloalkane-2-thione Derivatives during Metastable Time Window (Osaka Pref. Univ.; Univ. of Fukui) FUJII, Kazuo; ISA, Kimio; NAKATA, Ryuji; FUJIMOTO, Takayuki; YAMAOKA, Hiroshi
- 1E6-07** An Analysis of the Reaction Pathway of Phenacyl Chloride with Methoxide Ion (Dept. Chem., Rikkyo Univ.) SASAGAWA, Keita; YAMATAKA, Hiroshi
- 1E6-08** Analysis of Proton Transfer Pathway of Substituted Phenylnitro-methanes (Rikkyo Univ., College of Science, Department of Chemistry) ANDO, Kenichi; YAMATAKA, Hiroshi
- 1E6-09** Experimental study on the reaction pathway of Beckmann rearrangement and fragmentation of substituted 3-methyl-3-phenyl-2-butanoneoxime (Rikkyo Univ., Department of Chemistry) YAMAMOTO, Yutaro; HASEGAWA, Hiroto; YAMATAKA, Hiroshi

Chair: FUJITA, Morifumi (10:40~11:40)

- \* 10:30-10:40: interval for laptop PC connection.(1E6-11, 1E6-13, 1E6-14, 1E6-15, 1E6-16)
- 1E6-11<sup>\*†</sup>** A Theoretical study of dynamics effect on E1cb/E2 borderline reaction. Unimolecular elimination of 2-aryl-3-chloro-2-R-propanols (Rikkyo Univ.) ITOH, Shuhei; YAMATAKA, Hiroshi
- 1E6-13** DFT Study on Radical Addition Reaction of Imidoyl and Thioacyl Radicals with Imine (Osaka Pref. Univ.; The Univ. of Melbourne) MATSUBARA, Hiroshi; SCHIESSER, Carl H.
- 1E6-14** Substituent Effects on the Gas Phase Stabilities of N-Substituted Phenylamino Anions (Hosei Univ.; Kyushu Univ.; Osaka City Univ.) NAKATA, Kazuhide; FUJIO, Mizue; NISHIMOTO, Kichisuke; TSUNO, Yuhio
- 1E6-15** Reaction mechanism of [2,3]-Wittig rearrangement in asymmetric 1,1,2-trifluoroallylic ether (Dept. Chem. Biotechnol., Grad. Sch. Eng., Tottori Univ.) HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki
- 1E6-16** Search for reaction paths of formation of carbonic acid. (Nara Univ. of Educ.) KAWAGISHI, Nao; YAMABE, Shinichi

Chair: YAMATAKA, Hiroshi (11:50~12:30)

- \* 11:40-11:50: interval for laptop PC connection.(1E6-18, 1E6-19, 1E6-20, 1E6-21)
- 1E6-18** Mechanistic Investigation for Synthesis of Dimethyl Carbonate from Dimethyltin Dimethoxide and Carbon Dioxide (Okayama Univ. of Science) WAKAMATSU, Kan; ORITA, Akihiro; OTERA, Junzo
- 1E6-19** Electronic Structures of Carbocations Derived from Benzonaphthofurans in Superacid (Mie Univ.) NAKAGAWA, Madoka; OKAZAKI, Takao; KITAGAWA, Toshikazu
- 1E6-20** DFT Studies of Substituent Effects on Divergent Reaction Pathways of Methylene-cyclobutane Radical Cations (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.; Grad. Sch. of Sci., Tohoku Univ.) KANO, Yusuke; IKEDA, Hiroshi; TANAKA, Futoshi; MIZUNO, Kazuhiko
- 1E6-21** Theoretical Study on [3+2]Photocycloaddition Reactions of Naphthalene-1,4-Dinitrile Compounds with Alkenes. (Shimane Univ.) SHIRATORI, Hideo; KUBO, Yasuo

## Friday, March 26, PM

Chair: KAWAI, Kiyohiko (13:40~14:40)

- \* 13:30-13:40: interval for laptop PC connection.(1E6-29, 1E6-31, 1E6-33)
- 1E6-29<sup>\*</sup>** Mechanism of C3-Selective Allylation of Indoles, Based on Chemical Stability and Stereoselectivity of Indolenine Intermediates. (NAIST; Chiba Univ.) KAGAWA, Natsuko
- 1E6-31<sup>\*†</sup>** Kinetic Evidence for Dihapto ( $\eta^2$ )  $\pi$ -Aryl Participation in Acid-Catalyzed Ring-Opening of Diarylhomobenzoquinone Epoxides (Graduate School of Engineering, Osaka Univ.) ASAHARA, Haruyasu; IKUMA, Naohiko; OSHIMA, Takumi
- 1E6-33<sup>\*</sup>** Photoinduced DNA Cleavage and Formation of Superoxide with a

Neurotransmitter and Aromatic Amino Acids (Osaka Univ.; SORST, JST)  
KAWASHIMA, Tomonori; OHKUBO, Kei; FUKUZUMI, Shunichi

Chair: OHKUBO, Kei (14:50~15:50)

- \* 14:40-14:50: interval for laptop PC connection.(1E6-36, 1E6-39, 1E6-40, 1E6-41)
- 1E6-36** Young Scholar Lectures of CSJ Direct observation of the molecular vibration changes in the transition state using an ultrashort pulse (PRESTO, JST) IWAKURA, Izumi
- 1E6-39** Long-range charge transfer through DNA by replacing adenine with deazaadenine (The Institute of Scientific and Industrial Research, Osaka Univ.) KAWAI, Kiyohiko; KODERA, Haruka; MAJIMA, Tetsuro
- 1E6-40** Weakly sequence dependent long range charge transfer through DNA (The Institute of Scientific and Industrial Research, Osaka Univ.) KODERA, Haruka; KAWAI, Kiyohiko; MAJIMA, Tetsuro
- 1E6-41** Time-resolved infrared spectroscopic study of photo-oxidation of triarylphosphines (Tezukayama Univ.; IMCE, Kyushu Univ.) YASUI, Shinro; RAHMAN, Badal Md. M.; MISHIMA, Masaaki
- Chair: KITAGAWA, Toshikazu (16:00~17:00)
- \* 15:50-16:00: interval for laptop PC connection.(1E6-43, 1E6-44, 1E6-45, 1E6-46, 1E6-47)
- 1E6-43** Substituent Effect at C7 on the Stereoselectivity in the Denitrogenation Reaction of DBH Derivatives (Hiroshima Univ.) YAGI, Shingo; ABE, Manabu
- 1E6-44** Alkoxy-group Effect on the Lifetime of Singlet 2,2-dialkoxycyclopentane-1,3-diyls (Hiroshima Univ.) NAKAGAKI, Tomoyuki; FUJIWARA, Yoshihisa; ABE, Manabu
- 1E6-45** Spin-Alignment of Tetraradical, based on the ground state spin-multiplicity of localized 1,3-Cyclopentenediyl Diradicals (Hiroshima Univ.) MAEDA, Satoshi; NAKAMURA, Takeshi; FURUKAWA, Ko; KATO, Tatsuhisa; ABE, Manabu
- 1E6-46** Formation of Long-Lived Electron-Transfer States in Donor-Acceptor Linked Cations Incorporated into Nano-sized Mesoporous Silica with Spherical Shape and the Photocatalytic Function (Graduate School of Engineering, Osaka Univ.; SORST (JST)) DOI, Kaoru; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi
- 1E6-47\*** Supramolecular Formation of Cyclo[8]pyrrole with Pyrene Butyrate Salt and Photoinduced Charge Separation (Graduate School of Engineering, Osaka Univ.; SORST; Univ. Texas Austin; Univ. Houston) OHKUBO, Kei; KARNAS, Elizabeth; SESSLER, Jonathan; KADISH, Karl; FUKUZUMI, Shunichi

Chair: IWAKURA, Izumi (17:10~18:10)

- \* 17:00-17:10: interval for laptop PC connection.(1E6-50, 1E6-51, 1E6-52, 1E6-53, 1E6-54, 1E6-55)
- 1E6-50** Photocatalytic Oxygenation and Halogenation of Toluene Derivatives with Molecular Oxygen Using Electron Donor-Substituted Acridinium Ion as Photoinduced Electron-Transfer Catalysts (Osaka Univ.; SORST, JST) MIZUSHIMA, Kentaro; OHKUBO, Kei; FUKUZUMI, Shunichi
- 1E6-51** Photooxygenation of Benzene to Phenol Using 3-Cyano-1-methylquinolinium Ion as a Photocatalyst (Osaka Univ.; SORST, JST) KOBAYASHI, Takaki; OHKUBO, Kei; FUKUZUMI, Shunichi
- 1E6-52\*** Study on Intermediates in Reaction of Phenylketene with Amines. Amide Enols or Zwitterions? (IMCE, Kyushu Univ.) Badal Md., Mizanur Rahman; MISHIMA, Masaaki
- 1E6-53** Cyclization by Dediazonation of Aromatic Diazonium Ions with Substituents at 2-Position in Imidazolium-based Ionic Liquids (Mie Univ.) YAMAMOTO, Hiroyuki; OKAZAKI, Takao; KITAGAWA, Toshikazu
- 1E6-54** Substituent Effect on Reduction of Nitrobenzene by Using Photo-induced Electron Transfer Reaction from Ru(bpy)<sub>3</sub><sup>2+</sup> Complex (Fac. Sci. Niigata Univ.; Grad. Sch. Sci. and Tech. Niigata Univ.) USUI, Satoshi; SASAKI, Kunihiko; ENDD, Masahiro
- 1E6-55** Reaction mechanism of photodimerisation of maleic anhydride studied by time-resolved laser spectroscopy. (Tokyo Institute of Technology; MCPT; Wako Pure Chemical Industries, Ltd.) HORIE, Tomoaki; KURAMOCHI, Hikaru; SUZUKI, Tadashi; MATSUSHITA, Yoshihisa; TANAKA, Takumi; ICHIMURA, Teiji

## Physical Organic Chemistry -Structures and Properties-

Saturday, March 27, PM

Chair: FURUTA, Hiroyuki (12:40~13:40)

- \* 12:30-12:40: interval for laptop PC connection.(2E6-23, 2E6-26, 2E6-27, 2E6-28)
- 2E6-23** Young Scholar Lectures of CSJ Construction of Discrete Giant Porphyrin Arrays (Grad. Sch. Sci., Kyoto Univ.; PRESTO, JST) ARATANI, Naoki
- 2E6-26** Synthesis and structure of propeller-like phthalocyanine dimers connected via a biphenyl unit. (Graduate School of Science, Tohoku Univ.) TAKAISHI, Shiori; FUKUDA, Takamitsu; KOBAYASHI, Nagao
- 2E6-27** Synthesis and Properties of Carbaphthalocyanines (Department of Chemistry, Graduate School of Science, Tohoku Univ.) SUGITA, Ipei;

FUKUDA, Takamitsu; KOBAYASHI, Nagao

- 2E6-28** Synthesis and Properties of a Novel Subphthalocyanine Analogue Bearing an Azaphenylene Moiety (Graduate School of Science, Tohoku Univ.) ZHU, Hua; SHIMIZU, Soji; KOBAYASHI, Nagao

Chair: HASOBE, Taku (13:50~14:50)

- \* 13:40-13:50: interval for laptop PC connection.(2E6-30, 2E6-32, 2E6-33, 2E6-34, 2E6-35)
- 2E6-30\*** Synthesis and Metal Coordination of Multiply N-confused Hexaphyrins (Grad. Sch. Eng., Kyushu Univ.) SABAPATHI, Gokulnath; YAMAGUCHI, Keisuke; FURUTA, Hiroyuki
- 2E6-32** Synthesis and metal coordination of a novel expanded N-confused hexacorrole (Grad. Sch. Eng., Kyushu Univ.) ISAKARI, Koji; TOGANOH, Motoki; FURUTA, Hiroyuki
- 2E6-33** Near-IR fluorescence property of water-soluble doubly N-confused hexaphyrin (Grad. Sch. Eng., Kyushu Univ.) TAKEDA, Mari; IKAWA, Yoshiya; FURUTA, Hiroyuki
- 2E6-34** Design of highly soluble aryl substituents suitable for the syntheses and STM-observation of large porphyrin cyclic oligomers (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; AKITA, Yasuhiro; ASANO, Motoko; TANAKA, Hiroyuki; KAWAI, Tomoji; SUGIURA, Ken-ichi
- 2E6-35** Synthesis and properties of porphyrin-substituted *m*-diethynylbenzene cyclic oligomers (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; URAJI, Renon; AKITA, Yasuhiro; ASANO, Motoko; SUGIURA, Ken-ichi

Chair: YAMASHITA, Ken-ichi (15:00~16:00)

- \* 14:50-15:00: interval for laptop PC connection.(2E6-37, 2E6-39, 2E6-40, 2E6-41, 2E6-42)
- 2E6-37\*** Study on rotation of pyrrole rings and electronic structures in porphyrinoids (Grad. Sch. Eng., Kyushu Univ.) TOGANOH, Motoki; FURUTA, Hiroyuki
- 2E6-39** Substituent effect on aromatic ring trimer interaction (Grad. Sch. Eng., Kyushu Univ.) AOKI, Hideki; WASHIZU, Yukinori; FURUTA, Hiroyuki
- 2E6-40** Syntheses and physical properties of chlorophyll derivatives possessing a nitrogen-containing heterocycle at the C3 position (Ritsumeikan Univ.) TAMIaki, Hitoshi; MIZUTANI, Keisuke; KUNIEDA, Michio; SASAKI, Shin-ichi
- 2E6-41** Synthesis and optical properties of Au(I) ethynyl complexes conjugated directly with chlorophyll derivatives at the C3 position (Ritsumeikan Univ.) YAMAMOTO, Youhei; MIZUTANI, Keisuke; SASAKI, Shin-ichi; TAMIaki, Hitoshi
- 2E6-42** Synthesis of  $\beta$ -diketonated chlorophyll derivatives and their coordination compounds (Ritsumeikan Univ.) TAMIaki, Hitoshi; KINOSHITA, Yuusuke; KUNIEDA, Michio; YAMAMOTO, Youhei

Chair: KOBAYASHI, Nagao (16:10~17:20)

- \* 16:00-16:10: interval for laptop PC connection.(2E6-44, 2E6-46, 2E6-47, 2E6-48, 2E6-49)
- 2E6-44\*** *meso*-Di-*p*-anisylaminoporphyrin: Photo- and Electroproperties and Photosynthetic Special Pair Model (The Univ. of Tokyo; Tokyo Univ. of Science) SAKAMOTO, Ryota; SASAKI, Taishiro; HONDA, Norikazu; YAMAMURA, Takeshi; NISHIKAWA, Michihiro; KUME, Shoko; NISHIHARA, Hiroshi
- 2E6-46** Synthesis and properties of 5,15-disubstituted benzoporphyrins (Fac. Eng., Utsunomiya Univ.) ITO, Takahiro; ITO, Satoshi; OBA, Toru; HIRATANI, Kazuhisa
- 2E6-47** Synthesis and properties of *meso*-halgenobenzoporphyrins (Fac. Eng., Utsunomiya Univ.) KOMATSU, Takuya; SEINO, Koumei; ITO, Satoshi; OBA, Toru; HIRATANI, Kazuhisa
- 2E6-48** Synthesis of porphyrin dyes bearing 2,4-diamino-1,3,5-triazine unit with different substituents and their role in supramolecular assemblies (JAIST, School of Materials Science) SAKAI, Hayato; HASOBE, Taku
- 2E6-49\*** Induced chirality due to axial binding of the chiral ligands to Zn porphyrin hexamer with triphenylene core and its dynamic behaviour (IMRAM, Tohoku Univ.; JAIST) ARAKI, Yasuyuki; ATULA, Sandanayaka; RABBANI, Mohammad; HASOBE, Taku; MURAKAMI, Makoto; SAKAMOTO, Seiji; WADA, Takehiko

Sunday, March 28, AM

Chair: NAKANO, Koji (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3E6-01, 3E6-02, 3E6-03, 3E6-05, 3E6-06)
- 3E6-01** Creation of New Extended  $\pi$ -Electronic Organic Semiconducting Materials with Long Wave-length Absorption (The Univ. of Tokyo) SUZUKI, Tsuyoshi; OKAMOTO, Toshihiro; MATSUO, Yutaka
- 3E6-02** Structural Control and Photophysical Properties of Charge Transporting Fused  $\pi$ -Electronic Materials Using Aryl-Perfluoroaryl Interactions (School of Science, The Univ. of Tokyo) NAKAHARA, Katsumasa; OKAMOTO, Toshihiro; SAEKI, Akinori; SEKI, Shuhei; MATSUO, Yutaka
- 3E6-03\*** Carrier transport properties in BTBT derivatives of liquid crystalline organic-semiconductor (Tokyo Inst. of Tech.; JST-CREST) IINO, Hiroaki;

KOBORI, Takeo; HANNA, Jun-ichi

- 3E6-05** Synthesis and properties of novel thienoquinoid derivatives with ethanediyliiden group (Hiroshima Univ.) SHIMAWAKI, Masafumi; SUZUKI, Yuki; OSAKA, Itaru; MIYAZAKI, Eigo; TAKIMIYA, Kazuo
- 3E6-06** Synthesis and properties of  $\alpha, \alpha'$ -dimethylene- $\alpha, \alpha'$ -dihydro-oligothiophene derivatives (Hiroshima Univ.) SUZUKI, Yuki; OSAKA, Itaru; MIYAZAKI, Eigo; TAKIMIYA, Kazuo

Chair: MIYAZAKI, Eigo (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3E6-08, 3E6-09, 3E6-10, 3E6-11, 3E6-12, 3E6-13)
- 3E6-08** Synthesis of dibenzo[*d,d'*]benzo[1,2-*b:4,5-b'*]difuran derivatives and their application to organic semiconductor (The Univ. of Tokyo) CHAYAMA, Natsuko; NAKANO, Koji; NOZAKI, Kyoko
- 3E6-09** Synthesis and Properties of Diazaborole Derivatives with Quinone Units (Interdisciplinary Grad. School of Sci. Tokyo Institute of Technology) FUJITA, Tomohiro; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 3E6-10** Synthesis, properties and FET characteristics of thiophene derivatives with a benzo-1,3-dithiol-2-ylidene group (Interdisciplinary Grad. School of Sci. Tokyo Institute of Technology) OMATA, Keiko; MAMADA, Masashi; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 3E6-11** Synthesis of 2,7-Di(4-pyridyl)anthracene and Its Self-Assembly Based on Metal-Coordination (Shizuoka Univ.; Bruker axis) OZAWA, Ryota; MINAGAWA, Yu; TANAKA, Kenro; YOZA, Kenji; KOBAYASHI, Kenji
- 3E6-12** Synthesis of Soluble 2,8- and 2,9-Bis(3,4,5-trialkoxyphenyl)tetracenes and Their OFET Properties (Shizuoka Univ.; Mitsubishi Chemical Group STR Center) SERIZAWA, Koretaka; TANAKA, Kenrou; SUZUKI, Yuki; ONO, Yuuki; SAKAI, Yoshimasa; OONO, Akira; KOBAYASHI, Kenji
- 3E6-13** Synthesis of Soluble 2,8- and 2,9-Bis[(3,4,5-trialkoxyphenyl)ethenyl] tetracenes and Their OFET Properties (Shizuoka Univ.; Mitsubishi Chemical Group STR Center) TANAKA, Kenro; SUZUKI, Yuki; ONO, Yuuki; SAKAI, Yoshimasa; OHNO, Akira; KOBAYASHI, Kenji

Chair: NISHIDA, Jun-ichi (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3E6-15, 3E6-16, 3E6-17, 3E6-18, 3E6-19, 3E6-20)
- 3E6-15** Development of electronegative oligomer having cyclopentene-annulated thiophenes containing dicyanomethylene Groups (The Institute of Scientific and Industrial Research, Osaka Univ.) NISHIDA, Kazufumi; IE, Yutaka; ASO, Yoshio
- 3E6-16** Development of Oligomers Containing Carbonyl-bridged Bithiazole as solution-processible n-type OFET materials (The Institute of Scientific and Industrial Research, Osaka Univ.) NITANI, Masashi; IE, Yutaka; ASO, Yoshio
- 3E6-17** Synthesis and Properties of novel  $\pi$ -conjugated Molecule Containing Carbonyl bridge and Thiazole rings (The Institute of Scientific and Industrial Research, Osaka Univ.) UETA, Masashi; IE, Yutaka; ASO, Yoshio
- 3E6-18** Preparation and Electroconductivities of Novel Highly Strained Polynuclear Heteroaromatics (Graduate School of Engineering, Kyushu Institute of Technology) MORIGUCHI, Tetsuji; TAZAKI, Matsuri; NAGASE, Toshiya; TSUGE, Akihiko; NAGAMATSU, Shuichi; TAKASHIMA, Wataru; OKAUCHI, Tatsuo; MIZOGUCHI, Katsuhiko; HAYASE, Shuji; KANETO, Keiichi
- 3E6-19**† Synthesis and Evaluation of n-Type Organic Thin-Film Transistors with Cyano-Substituted Distyrylbenzene Derivative (Kyushu Institute of Technology Department of Applied Chemistry) KURAMOTO, Kouji; OKAUCHI, Tatsuo; MORIGUCHI, Tetsuji; NAGAMATSU, Shuichi; TAKASHIMA, Wataru; MIZOGUCHI, Katsuhiko; HAYASE, Shuji; KANETO, Keiichi
- 3E6-20** Synthesis of Fluorinated Tetrazine Derivatives and Their Application for n-Type OFET (Sagami Chemical Research Center; Tokai Univ.) AIHARA, Hidenori; YOSHIDA, Ken; KUNUGI, Yoshihito

## Sunday, March 28, PM

Chair: MURATA, Yasujiro (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3E6-28, 3E6-31, 3E6-32, 3E6-33)
- 3E6-28** Young Scholar Lectures of CSJ Development of Synthetic Strategy for  $C_3$  Symmetric Buckybowls in Solution-Phase (IMS) HIGASHIBAYASHI, Shuhei
- 3E6-31** Derivatization of Sumanene via Coupling Reaction (Osaka Univ.) AMAYA, Toru; KOBAYASHI, Kenji; HIRAO, Toshikazu
- 3E6-32** Synthesis of Bowl-shaped Expanded  $\pi$ -Conjugated Molecules based on Sumanene (Osaka Univ.) AMAYA, Toru; SHIMIZU, Yasutomo; HIFUMI, Maiko; MORIUCHI, Toshiyuki; ASANO, Atsushi; SEKI, Shu; SEGAWA, Kouji; ANDO, Youichi; HIRAO, Toshikazu
- 3E6-33** Synthesis of Nonplanar Metallocenes with Sumanene (Osaka Univ.) AMAYA, Toru; HIFUMI, Maiko; SAKANE, Hiroyuki; HIRAO, Toshikazu

Chair: MORIUCHI, Toshiyuki (14 : 40~15 : 30)

- \* 14:30-14:40: interval for laptop PC connection.(3E6-35, 3E6-37, 3E6-38, 3E6-39)
- 3E6-35**\* Systematic Synthesis of Novel Heterasumanenes and their Structures

(Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.; Department of Theoretical and Computational Molecular Science, Institute for Molecular Science) TANIKAWA, Tomoharu; SAITO, Masaichi; GUO, Jing-dong; NAGASE, Shigeru

- 3E6-37**† Optical resolution of chiral buckybowls by chiral HPLC and measurement of bowl-to-bowl inversion barrier by CD spectra (Institute for Molecular Science) TSURUOKA, Ryoji; HIGASHIBAYASHI, Shuhei; ISHIKAWA, Takeharu; TOYOTA, Sinji; SAKURAI, Hidehiro
- 3E6-38** Syntheses and properties of novel  $\pi$ -conjugated macrocycles consisted of aromatic and ethynyl moieties (Fac. Sci., Fukuoka Univ.) NAGAHORA, Noriyoshi; MOTOMATSU, Daiki; SHIOJI, Kosei; OKUMA, Kentaro
- 3E6-39** Synthesis of Cyclines via Reductive Aromatization and Their Complexation with Fullerene (Grad. Sch. Eng., Kyoto Univ.) INOUE, Yuki; MIKI, Koji; OHE, Kouichi

Chair: KITAMURA, Chitoshi (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(3E6-41, 3E6-42, 3E6-43, 3E6-44, 3E6-45)
- 3E6-41** Structures and Enantiomeric Resolution of Chiral Belt-Shaped Anthracene-Acetylene Macrocyclic Oligomers (Okayama Univ. of Science) ISHIKAWA, Takeharu; IWANAGA, Tetsuo; TOYOTA, Shinji
- 3E6-42** Synthesis and Self-Association Behavior of Arylene-Ethynylene Macrocyclic Oligomers Incorporated with 9,10-Anthrylene Units (Okayama Univ. of Science) MIYAMOTO, Kazuaki; IWANAGA, Tetsuo; TOYOTA, Shinji
- 3E6-43** Intramolecular Tandem Cyclization and Subsequent Anomalous Dimerization of Dehydrobenzo[14]annulene Derivatives (Department of Material Engineering Science, Graduate School of Engineering Science, Osaka Univ.) NOBUSUE, Shunpei; TAHARA, Kazukuni; TOBE, Yoshito
- 3E6-44** Preparation of Dehydroaza[18]annulenes (Wakayama Univ.) KIZU, Kengo; OKUNO, Tsunehisa
- 3E6-45** Synthesis of Star-Shaped Tetrakisdehydrobenzo[12]annulene by Alkyne Metathesis Reaction (Graduate School of Engineering Science, Osaka Univ.; Department of Chemistry, Univ. of Illinois) YAMAMOTO, Yuki; GAO, Yuan; GROSS, Dustin; TAHARA, Kazukuni; MOORE, Jeffrey S.; TOBE, Yoshito

Chair: IWANAGA, Tetsuo (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(3E6-47, 3E6-48, 3E6-49, 3E6-50, 3E6-51)
- 3E6-47** Chemical Properties of Anthracene Oligomers Linked by Pyridine Spacers (Chemical Resources Laboratory, Tokyo Institute of Technology) IJIMA, Takayuki; YOSHIZAWA, Michito; AKITA, Munetaka
- 3E6-48** Synthesis of Nanotube Structures Consisting of Anthracene Rings (Chemical Resources Laboratory, Tokyo Institute of Technology) MIKI, Nahomi; HAGIWARA, Keita; YOSHIZAWA, Michito; AKITA, Munetaka
- 3E6-49** Syntheses and properties of polycyclic aromatic hydrocarbons with zigzag edges (Graduate School of Science, Osaka Univ.) KONISHI, Akihito; SHIMIZU, Akihiro; HIRAO, Yasukazu; KURATA, Hiroyuki; MATSUMOTO, Kouzou; KUBO, Takashi; NAKANO, Masamayoshi; CHAMPAGNE, Benoit
- 3E6-50** Synthesis and Properties of Soluble Extended  $\pi$ -Conjugated Aromatics with Multiple Anthracene Moieties (Shizuoka Univ.) MINAGAWA, Yu; KOBAYASHI, Kenji
- 3E6-51** Synthesis and Properties of Strap-Protected Anthracene (Shizuoka Univ.; Bruker axis) OHNUMA, Daiki; YOZA, Kenji; KOBAYASHI, Kenji

Chair: KUBO, Takashi (17 : 40~18 : 30)

- \* 17:30-17:40: interval for laptop PC connection.(3E6-53, 3E6-54, 3E6-55, 3E6-57)
- 3E6-53** A New Synthesis of Indenone Derivatives and Application to Dibenzopentalene Synthesis (Graduate School of Engineering, Univ. of Hyogo) KATSUMOTO, Kenta; KITAMURA, Chitoshi; KAWASE, Takeshi
- 3E6-54**† Regioselective Unsymmetrical Tetraallylation of  $C_{60}$  through Pd Catalysis (Dept. Chem., Nagoya Univ.) NAMBO, Masakazu; WAKAMIYA, Atsushi; YAMAGUCHI, Shigehiro; ITAMI, Kenichiro
- 3E6-55**\*† Synthetic Studies of Cycloparaphenylenes (1) (Dept. Chem., Nagoya Univ.) MIYAMOTO, Shinpei; OMACHI, Haruka; TAKABA, Hiroko; SEKIZAWA, Hiromi; ITAMI, Kenichiro
- 3E6-57** Synthetic Studies of Cycloparaphenylenes (2) (Dept. Chem., Nagoya Univ.) OMACHI, Haruka; MATSUURA, Sanae; MIYAMOTO, Shinpei; ITAMI, Kenichiro

## Monday, March 29, AM

Chair: SUZUKI, Takanori (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4E6-01, 4E6-02, 4E6-03, 4E6-04, 4E6-05, 4E6-06)
- 4E6-01**† Synthesis and electrochemical properties of new TTF oligomer (Graduate School of Science and Engineering, Ehime Univ.) NAKAMURA, Kenichi; HASHIMOTO, Tomomi; SHIBA, Ryouta; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; HASEGAWA, Masashi; MASAKI, Yasuhiro; MISAKI, Yohji
- 4E6-02** Synthesis and properties of trimeric TTF vinyllogues with a benzene

# Room E7

## Bldg.33 33-406

### Physical Organic Chemistry -Structures and Properties-

Friday, March 26, AM

Chair: ASO, Yoshio (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1E7-01, 1E7-02, 1E7-03, 1E7-04, 1E7-05)

**1E7-01** Synthetic Studies of Cage-Shaped Oligothiophene Based on Tri(3-alkyl-2-thienyl)methane (Graduate School of Science, Osaka Univ.) ADACHI, Kazuhiko; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi

**1E7-02** Studies on the Synthesis of Dendrimer Molecule Based on Tetrakis(2-thienyl)methane Framework (Graduate School of Science, Osaka Univ.) KUGO, Sota; MATSUMOTO, Kouzou; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

**1E7-03** Self-Threaded Bithiophene (1): Synthesis and Characterization (NIMS) SUGIYASU, Kazunori; HARRISON, Ryan; SATO, Akira; TAKEUCHI, Masayuki

**1E7-04** Self-Threaded Bithiophene (2): Tuning of the optical property (NIMS) OUCHI, Yuki; SUGIYASU, Kazunori; OGI, Souichirou; TAKEUCHI, Masayuki

**1E7-05\*** Self-Threaded Bithiophene (3): Polymerization (NIMS) SUGIYASU, Kazunori; TAKEUCHI, Masayuki

Chair: MATSUMOTO, Kouzou (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1E7-08, 1E7-09, 1E7-10, 1E7-11, 1E7-12, 1E7-13)

**1E7-08** Synthesis of Electron Acceptors Bearing Fluorous Pony-tails (Osaka Pref. Univ.) MAEGAWA, Takahiko; MATSUBARA, Hiroshi

**1E7-09** Development and Evaluation of Oligothiophenes Having Fullerene and Perfluoroalkyl Groups (The Institute of Scientific and Industrial Research, Osaka Univ.) NOZAWA, Takahiro; IE, Yutaka; NAGAI, Takabumi; ASO, Yoshio

**1E7-10** Synthesis of asymmetric fluoro-functionalized acenes containing sulphur (Graduate School of Science and Engineering Yamagata Univ.) YAMAMOTO, Kazuhiro; HASHIGAYA, Hiroshi; KATAGIRI, Hiroshi; OHBA, Yoshihiro

**1E7-11** Synthesis, Structure and Properties of Oligothiophenes Having Bulky Rind Groups on the 3-Positions (RIKEN) OTANI, Takashi; HASHIZUME, Daisuke; MATSUO, Tsukasa; TAMAO, Kohei

**1E7-12** Synthesis and property of Benzotrithiophene oligomer (Hiroshima Univ.) KOUHARA, Masahiro; KASHIKI, Tomoya; OSAKA, Itaru; MIYAZAKI, Eigo; TAKIMIYA, Kazuo

**1E7-13** Synthesis and structure-property relationship of naphthodithiophene derivatives (Graduate School of Engineering, Hiroshima Univ.) SHINAMURA, Shoji; MIYAZAKI, Eigo; OSAKA, Itaru; TAKIMIYA, Kazuo

Chair: OSAKA, Itaru (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(1E7-15, 1E7-17, 1E7-19, 1E7-20)

**1E7-15\*** Development of High Generation Carbazole Dendrimers with Potential Gradient (Keio Univ.) ALBRECHT, Ken; YAMAMOTO, Kimihisa

**1E7-17\*** Rectification of electron transfer along the redox gradient of a dendrimer (Keio Univ.) IMAOKA, Takane; YAMAMOTO, Kimihisa

**1E7-19** Photophysical Properties of Novel Schiff Bases Containing Carbazole Chromophore (Osaka Kyoiku Univ.) HORI, Kazushige; YAMANAKA, Yujii; TANI, Keita

**1E7-20** Synthesis and Photocurrent Responses of Carbazole Trimer with a N-Vinyl Group. (RIKEN) FUKASAWA, Masako; TAKAISHI, Kazuto; AOYAMA, Tetsuya; YAMASHITA, Takashi

Friday, March 26, PM

Chair: ONO, Katsuhiko (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(1E7-28, 1E7-29, 1E7-30, 1E7-31, 1E7-32, 1E7-33)

**1E7-28** Synthesis and Phosphorescence Properties of Dithienobismole (Graduate School of Engineering, Hiroshima Univ.) MATSUI, Shigenori; YAMAMOTO, Roh; MIZUMO, Tomonobu; KURAMOTI, Yusuke; OHSHITA, Joji; HIGASHIMURA, Hideyuki

**1E7-29** Substituent effect on the electronic and the luminescence properties of diketopyrrolopyrroles (Univ. of Tsukuba TIMS) YAMAGATA, Takuya; KUWABARA, Junpei; KANBARA, Takaki

**1E7-30** Preparation and properties of Dithienofuranobenzene (Grad. Sch. Eng., Kyoto Univ.) NAGAO, Ikuhiro; SHIMIZU, Masaki; HIYAMA,

spacer (Graduate School of Science and Engineering, Ehime Univ.) MISAKI, Youji; INOUE, Takuma; NISIWAKI, Masataka; SIRAHATA, Takasi; MIYAMOTO, Hisakazu

**4E6-03** Synthesis and Properties of Radially Arranged Pyrrole-fused Tetrafulvalene Derivatives (Tokyo Metropolitan Univ.) YOSHIDA, Naofumi; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko

**4E6-04<sup>T</sup>** Improved Synthesis of Tetrakis(4-pyridyl)methane and Crystal Structure of Its Protonated Ions (Graduate School of Science, Osaka Univ.) INOKUCHI, Daisuke; MATSUMOTO, Kouzou; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

**4E6-05** Synthesis of the Novel Ligands Based on Tetrakis(2-pyridyl)methane-Framework (Graduate School of Science, Osaka Univ.) KAWASHITA, Kazuaki; MATSUMOTO, Kouzou; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

**4E6-06** Synthesis and chiroptical properties of phenyl-(pyrazinyl)-(2-pyridyl)-(2-pyrimidinyl)methane (Graduate School of Science, Osaka Univ.; Graduate School of Integrated Arts and Science, Hiroshima Univ.; Department of Chemistry, Univ. of Pisa) MIKI, Kaori; MATSUMOTO, Kouzou; NEHIRA, Tatsuo; PESCIATELLI, Gennaro; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

Chair: TAKASE, Masayoshi (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4E6-08, 4E6-09, 4E6-10, 4E6-11, 4E6-12, 4E6-13)

**4E6-08** Design and Utilization of Photoresponsive Nitrogen-Containing Aromatic Compounds [1] Synthesis and Photoisomerization of Azobenzene Derivatives Having Imino Group (Faculty of Engineering, Tokyo Univ. of Science) SAWADA, Tsutomu; ARAI, Rie; GOTO, Hidetoshi; SUGIMOTO, Hiroshi

**4E6-09** Synthesis of Dithienopentafulvalenes based on Intramolecular Photochemical Double Cyclization and Their Properties (Graduate School of Science, Nagoya Univ.; Institute of Advanced Research, Nagoya Univ.) KARASAWA, Takashi; FUKAZAWA, Aiko; ZHANG, Hongyu; WANG, Jian; IRLE, Stephan; YAMAGUCHI, Shigehiro

**4E6-10** Electrofluorochromism of *p*-Terphenylquinone Derivatives Extended by Acenes (Graduate School of Science, Osaka Univ.) SAKAI, Kanae; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi

**4E6-11** Mechanochromism of 2,2'-Bis(spirodienone)-Bridged-3,3'-Bithiophene Derivatives (Graduate School of Science, Osaka Univ.; Graduate School of Education, Hiroshima Univ.) ATSUI, Yumiko; KURATA, Hiroyuki; FUJIMOTO, Takahisa; HIRAO, Yasukazu; MATSUMOTO, Kouzou; AMIMOTO, Kiichi; KUBO, Takashi

**4E6-12** Asymmetric Induction of Dynamic Redox Systems with a Function of Chiral Memory (Hokkaido Univ.) SUZUKI, Takanori; WADA, Kazuhisa; YOSHIMOTO, Yasuyo; KAWAI, Hidetoshi; FUJIWARA, Kenshu

**4E6-13** Creation of Expanded Conjugated System of Biaryl Compounds Effected by Through Space Interaction with Oxygen (Osaka Univ.) YASUDA, Makoto; TOYOSHIMA, Naomi; NAKAJIMA, Hideto; BABA, Akio

Chair: MISAKI, Youji (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(4E6-15, 4E6-16, 4E6-17, 4E6-18, 4E6-19, 4E6-20)

**4E6-15** Synthesis and Properties of 8,8-Dicyano-3-(4'-*N,N*-dimethylamino)phenylheptafulvene Extended with Thiophene Ring (Faculty of Education and Human Sciences, Yokohama Natl. Univ.) MINAMISHIMA, Takuya; OTANI, Hiroyuki

**4E6-16** Solid State Optical Properties of 5-pyrenylethynyl-2-aminotropones (Faculty of Education and Human Sciences, Yokohama Natl. Univ.) KUDO, Rena; HASEGAWA, Masashi; MAZAKI, Yasuhiro; OTANI, Hiroyuki

**4E6-17** Crystal structure and physical properties of phthalocyanine-based partially oxidized salts including EtOH (Grad. School of Sci., Hokkaido Univ.) TANAKA, Yasuhiro; TAKAHASHI, Yukihiko; NAITO, Toshio; INABE, Tamotsu

**4E6-18** Electroconductivities and morphologies of TTF-diamides having long alkylthio chains. (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) ISIMOTO, Shohei; ENOZAWA, Hideo; KOBAYASHI, Yusuke; HASEGAWA, Masashi; TAKASE, Masayoshi; NISHINAGA, Tooru; IYODA, Masahiko

**4E6-19** Synthesis and Properties of 5,6-Azulenocyanine (RIKEN) YONEHARA, Mitsuhiro; MURANAKA, Atsuya; UCHIYAMA, Masanobu

**4E6-20** Electronic Structure of Triazolehemiporphyrazines (RIKEN) MURANAKA, Atsuya; HIRAYAMA, Machiko; MORI, Yukie; UCHIYAMA, Masanobu



Tamejiri

- 1E7-31** Design, Synthesis, and Property of Novel  $\pi$ -Bridged 2,6-Diaryl Substituted Pyridine Derivatives (Graduate School of Sciences, Kyusyu Univ.; Institute for Materials Chemistry and Engineering (IMCE), Kyushu Univ.) HATAKEYAMA, Akihiko; ONITSUKA, Satoaki; FURUNO, Hiroshi; INANAGA, Junji
- 1E7-32** Redox Behavior of Quinonediimine Derivatives Bearing Amino Acid Moieties (Osaka Univ.) OHMURA, Satoshi; MORIUCHI, Toshiyuki; HIRAO, Toshikazu
- 1E7-33<sup>†</sup>** Synthesis of Acyclic Dipyrrin Oligomers Bearing *p*-Phenylene Spacer (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SAKAMOTO, Naoya; NABESHIMA, Tatsuya

Chair: TSUJI, Hayato (14 : 40~15 : 30)

- \* 14:30-14:40: interval for laptop PC connection.(1E7-35, 1E7-36, 1E7-37, 1E7-38, 1E7-39)
- 1E7-35** Synthesis and Properties of Phosphola[7]helicenes (The Univ. of Tokyo) NAKASAKO, Satoshi; NAKANO, Koji; NOZAKI, Kyoko
- 1E7-36** Synthesis and Properties of Fused-aromatic Compounds with Phospholo[3,2-*b*]furan Framework (The Univ. of Tokyo) TAKAHASHI, Motonobu; NAKANO, Koji; NOZAKI, Kyoko
- 1E7-37<sup>†</sup>** Synthesis of the Ladder-Type Phosphole by Applying the Intramolecular Radical Cyclization and Investigation of its Property (The Univ. of Tokyo) FURUKAWA, Shunsuke; HAGA, Shunsuke; KOBAYASHI, Junji; KAWASHIMA, Takayuki
- 1E7-38** Syntheses and Comparison of Two Regioisomers of BODIPY Derivatives Bearing an Acridinium Moiety (The Univ. of Tokyo) KUSHIDA, Tomokatsu; KOBAYASHI, Junji; KAWASHIMA, Takayuki
- 1E7-39** Synthesis and Optical Property of the Third Generation Azaborine Dendrimer (The Univ. of Tokyo; Kyoto Univ. Pioneering Research Unit for Next Generation) KOJIMA, Tatsuo; AGOU, Tomohiro; KOBAYASHI, Junji; KAWASHIMA, Takayuki

Chair: WAKAMIYA, Atsushi (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(1E7-41, 1E7-42, 1E7-43, 1E7-44, 1E7-45)
- 1E7-41** Development and applications of direct regioselective borylation of perylene bisimide (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) TERAOKA, Takuro; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 1E7-42<sup>†</sup>** Magnetic Circular Dichroism of 1,2-Dihydro-1,2-Azaborine (Graduate School of Science, Tohoku Univ.) KIKUKAWA, Yuu; FUKUDA, Takamitsu; MARWITZ, Adam; LIU, Shih-yuan; KOBAYASHI, Nagao
- 1E7-43** Optical properties of pai conjugated benzo[1,3,2]-oxazaborinone dyes (Tokyo Metropolitan Univ.; Mitsubishi Chemical Group Science and Technology Research Center) MINOWA, Yu; TAKESHITA, Kimiya; NISHIYABU, Ryuei; KUBO, Yuji
- 1E7-44** Synthesis and Properties of Oligothiophenes with 1,3-Diketone Boron Complexes (Nagoya Institute of Technology; Institute for Molecular Science; Tokyo Institute of Technology) NAKASHIMA, Akihiro; ONO, Katsuhiko; TOMURA, Masaaki; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 1E7-45** Synthesis and Properties of Quinacridonequinone Derivatives Modified by BF<sub>2</sub> Chelation (Nagoya Institute of Technology) HASHIZUME, Junko; ONO, Katsuhiko

Chair: KOBAYASHI, Junji (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(1E7-47, 1E7-48, 1E7-49, 1E7-50, 1E7-51)
- 1E7-47** Synthesis and Properties of Novel Photosensitizers with a 1,3-Diketone BF<sub>2</sub> Complex (Nagoya Institute of Technology) YAMAGUCHI, Tomoya; YAMAOKA, Yasuaki; ONO, Katsuhiko
- 1E7-48** Synthesis and Properties of Novel Photosensitizers with a Dipyrrin-Iridium Complex (Nagoya Institute of Technology; Institute for Molecular Science) NAKAYAMA, Takashi; TOMURA, Masaaki; ONO, Katsuhiko
- 1E7-49** Photophysical Properties of *N*-Boryl-2,5-Diarylprrroles (Graduate School of Science, Nagoya Univ.; Institute for Advanced Research, Nagoya Univ.) TANIGUCHI, Takuhiro; WANG, Jian; IRLE, Stephan; YAMAGUCHI, Shigehiro
- 1E7-50** Tailor-Made Synthesis of Unsymmetrical Diarylboryl-Substituted  $\pi$ -Conjugated Compounds and the Substituent Effects on their Fluorescence Properties (Nagoya Univ.) ITO, Emi; YAMAGUCHI, Shigehiro
- 1E7-51** Synthesis and Properties of *B,B*-Dimethyl-Dithieno-1,2-Dyhydro-1,2-Diborin Derivatives (Dept. Chem., Grad. Sch. Sci., Nagoya Univ.) ARAKI, Takafumi; WAKAMIYA, Atsushi; YAMAGUCHI, Shigehiro

Chair: YAMASHITA, Yoshiro (17 : 40~18 : 30)

- \* 17:30-17:40: interval for laptop PC connection.(1E7-53, 1E7-55, 1E7-57)
- 1E7-53<sup>\*</sup>** Preparation and Electrochromism of Novel Redox Systems Based on the 2,5-Bis(diarylethynyl)thiophene Framework (Hokkaido Univ.) ISHIGAKI, Yusuke; HIGUCHI, Hiroki; KAWAI, Hidetoshi; FUJIWARA, Kenshu; SUZUKI, Takanori
- 1E7-55<sup>††</sup>** Synthesis and properties of benzodifuran structural isomers and their application for host material in phosphorescent OLED devices (Department of Chemistry, School of Science, The Univ. of Tokyo) MITSUI, Chikahiko;

TSUJI, Hayato; SATO, Yoshiharu; NAKAMURA, Eiichi

- 1E7-57** Photoinduced electron transfer in indenothiophene derivatives bearing spirofluorene moieties (Grad. Sch. Eng., Kyoto Univ.) FUJINAGA, Hiroki; KOWADA, Toshiyuki; OHE, Kouichi

## Saturday, March 27, PM

Chair: KARASAWA, Satoru (12 : 40~13 : 40)

- \* 12:30-12:40: interval for laptop PC connection.(2E7-23, 2E7-24, 2E7-25, 2E7-26, 2E7-27, 2E7-28)
- 2E7-23** Synthesis and magnetic properties of bis-nitronyl nitroxides in head-to-head configuration (Aoyama Gakuin Univ.) KATO, Daisuke; MATSUBARA, Yukihiro; IWAHORI, Fumiyasu; ABE, Jiro
- 2E7-24** Charge-discharge Behavior of Secondary Organic Radical Battery Using Nitronyl Nitroxides as Cathode Active Material (Kobe City College of Tech.; Murata Manufacturing Co. Ltd.) OHFUJI, Haruki; KOZUMI, Takuya; MIURA, Yozo; SHIGEMATSU, Satoshi; AKUTAGAWA, Nao; SATOH, Masaharu; WATANABE, Koichi
- 2E7-25** Charge-discharge Behavior of Secondary Organic Battery Using Phenazine Derivatives as Cathode Active Material (Kobe City College of Tech.; Murata Manufacturing Co. Ltd.) KOZUMI, Takuya; OHFUJI, Haruki; ABE, Konami; MIURA, Yozo; SHIGEMATSU, Satoshi; SATOH, Masaharu; WATANABE, Koichi
- 2E7-26** Spin Frustrated Behavior on Tris(nitronyl nitroxide phenyl)amine (Chiba Univ.) KIMURA, Yutaka; TAKAHASHI, Masahiro; KISHIKAWA, Keiki; KOHMOTO, Shigeo
- 2E7-27** Structure and Magnetic Properties of a High-spin Stable Diradical Directly-Linked Nitronyl Nitroxide and Nitroxide Moieties (Departments of Chemistry and Materials Science, Graduate School of Science, Osaka City Univ.) FURUI, Takanori; KURATSU, Masato; SUZUKI, Shuichi; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; OKADA, Keiji
- 2E7-28** Structure and Magnetic Properties of Nitronyl Nitroxide Diradical Directly Linked with Phenyl nitroxide Moiety (Osaka City Univ., Graduate School of Science) KUMAGAI, Tasuku; SUZUKI, Shuichi; KURATSU, Masato; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; OKADA, Keiji

Chair: ISHIDA, Takayuki (13 : 50~14 : 50)

- \* 13:40-13:50: interval for laptop PC connection.(2E7-30, 2E7-31, 2E7-32, 2E7-33, 2E7-34, 2E7-35)
- 2E7-30** Synthesis and Properties of Oligomers of P-Heterocyclic Singlet Biradicals Bearing Biphenyl Spacer (Graduate School of Science and Engineering, Tokyo Institute of Technology) KOBAYASHI, Makoto; MIURA, Joji; MIKAMI, Koichi; ITO, Shigekazu
- 2E7-31** Studies of a Phenalenyl-Based Molecule with Triradical Character (Graduate School of Science, Osaka Univ.) AOBA, Mitsuya; SHIMIZU, Akihiro; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 2E7-32** Synthesis and properties of a neutral hydrocarbon radical enhanced delocalization of an unpaired electron (Graduate School of Science, Osaka Univ.) KATADA, Yoshiki; SHIMIZU, Akihiro; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 2E7-33** Dynamic Electronic-spin Properties of Trioxotriangulene Neutral Radical in Crystalline State (Osaka Univ.; Osaka City Univ.; Fukui Univ. of Technology) UEDA, Akira; MORIGUCHI, Miki; FUKUI, Kozo; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; NAKASUJI, Kazuhiro; MORITA, Yasushi
- 2E7-34** Substituent Effect on Trioxotriangulene Neutral Radical: Synthesis and Physical Properties of Halogenated Derivatives (Osaka Univ.; Osaka City Univ.) MURATA, Tsuyoshi; UEDA, Akira; KARIYAZONO, Kazuki; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; MORITA, Yasushi
- 2E7-35** Substituent Effect on Trioxotriangulene Neutral Radical : Synthesis and Physical Properties of a *n*-Butoxy Derivative (Osaka Univ.; Osaka City Univ.) KARIYAZONO, Kazuki; UEDA, Akira; MURATA, Tsuyoshi; SATO, Kazunobu; TAKUI, Takeji; MORITA, Yasushi

Chair: OKADA, Keiji (15 : 00~16 : 00)

- \* 14:50-15:00: interval for laptop PC connection.(2E7-37, 2E7-38, 2E7-39, 2E7-40, 2E7-42)
- 2E7-37** Pressure Effect of Transport Properties of an Ion-radical Salt of TSF-based Spin-polarized Donor (The Univ. of Tokyo; Nagoya Univ.) KOMATSU, Hideji; KONDO, Ryusuke; SUZUKI, Kentaro; SUGAWARA, Tadashi; MATSUSHITA, Michio M.
- 2E7-38** Structures and magnetic properties of radical-substituted amino acid derivatives and their complexes (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) OSADA, Sayaka; ISHIDA, Takayuki; IGARASHI, Kazuki
- 2E7-39** Structure and magnetic properties of terpyridine-bridged nitroxide biradical and its host-guest compounds (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) KOIDE, Kazuya; ISHIDA, Takayuki
- 2E7-40<sup>\*</sup>** The Study of Magnetic Interactions and Its Anisotropy in the Liquid Crystalline State of All Organic Radical Compounds. (Kyoto Univ.) SUZUKI, Katsuki; UCHIDA, Yoshiaki; HINO, Kenjiro; TAMURA, Rui;

YAMAUCHI, Jun

- 2E7-42** Structure and characteristic properties of the radical scavenging products formed by stable nitroxyl radicals and reactive radical species. (Graduate School of Engineering, Yokohama Natl. Univ.) TSUDA, Shigetō; FUJISHIMA, Yusuke; SAKAKIBARA, Kazuhisa

Chair: MORITA, Yasushi (16:10~17:10)

- \* 16:00-16:10: interval for laptop PC connection.(2E7-44, 2E7-46, 2E7-47, 2E7-48, 2E7-49)
- 2E7-44\*** Comparison of Structures and Magnetic Properties in Photoresponsive Heterospin Dinuclear Complexes Having Different Cyclic Structure. (Grad. Sch. Pharm. Sci., Kyushu Univ.) YOSHIHARA, Daisuke; KARASAWA, Satoru; KOGA, Noboru
- 2E7-46** Preparation and Properties of Naphthalenediimide Derivatives with Aryl and TEMPO Substituent (Univ. of Hyogo) AOKI, Kazunori; AKUTSU, Hiroki; YAMADA, Junichi; NAKATSUJI, Shinichi
- 2E7-47** Properties of the cationic species of 3,4-dioxathiophene oligomers (Tokyo Metropolitan Univ.) LIN, Chuanwen; NISHINAGA, Tohru; ENDO, Takanori; TAKASE, Masayoshi; IYODA, Masahiko
- 2E7-48** Biradical Characters of Two-Electrons Oxidized Species of Thiophene-Pyrrole Mixed Oligomers (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) TATENO, Masaki; FUJII, Mika; NISHINAGA, Tohru; TAKASE, Masayoshi; IYODA, Masahiko
- 2E7-49** Synthesis and property of metal complexes of bis(pyridylethynyl) tetrathiafulvalenes and their cation radical salts (Tokyo Metropolitan Univ.) ISOMURA, Eigo; TOKUYAMA, Ken-ichi; HASEGAWA, Masashi; NISHINAGA, Tohru; IYODA, Masahiko

## Sunday, March 28, AM

Chair: KOKUBO, Ken (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3E7-01, 3E7-02, 3E7-03, 3E7-04, 3E7-06)
- 3E7-01** Addition of Dimethyl Sulfoxide to [60]Fullerene through C-H Bond Activation Mediated by Thienyl Grignard Reagent (The Univ. of Tokyo; ERATO, JST) OYAMA, Hiromi; MATSUO, Yutaka; NAKAMURA, Eiichi
- 3E7-02<sup>#</sup>** Synthesis of [70]Fullerene-Benzodifuranone and -Perylene Dyads via a Bromide Abstraction Reaction (The Univ. of Tokyo; ERATO, JST) ULMANN, Pirmin; XIAO, Zuo; MATSUO, Yutaka; NAKAMURA, Eiichi
- 3E7-03** Synthesis of Imino[60]fullerenes Using Nitriles and Trimethylsilylmethyl Triflate (The Univ. of Tokyo; ERATO, JST) MATSUO, Keiko; MATSUO, Yutaka; NAKAMURA, Eiichi
- 3E7-04\*** Organic Synthesis of Fullerene C<sub>60</sub> Encapsulating a Water Molecule (Institute for Chemical Research, Kyoto Univ.) KUROTOBI, Kei; MURATA, Yasujiro
- 3E7-06** Synthesis of Novel Open-cage Fullerene with Extended  $\pi$ -System Having Thienyl Groups (Institute for Chemical Research, Kyoto Univ.) YASUI, Hideo; KUROTOBI, Kei; MURATA, Yasujiro

Chair: MATSUO, Yutaka (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(3E7-08, 3E7-09, 3E7-10, 3E7-11, 3E7-12, 3E7-13)
- 3E7-08** Kinetic study on oxidation of fulleroids (Graduate School of Engineering, Osaka Univ.) SUMIOKA, Satoko; IKUMA, Nohiko; KOKUBO, Ken; OSHIMA, Takumi
- 3E7-09** Kinetic study in Diels-Alder reactions of fulleroid, methanofullerene and azafulleroid with 1,3-dienes (Graduate School of Engineering, Osaka Univ.) TANAKA, Nobuhide; IKUMA, Naohiko; KOKUBO, Ken; MINAKATA, Satoshi; OSHIMA, Takumi
- 3E7-10** Selective Synthesis of Azafulleroids from C<sub>60</sub> and Amides Using *N*-Iodosuccinimide (Osaka Univ.) MINAKATA, Satoshi; NAGAMACHI, Toshiki
- 3E7-11** Reaction of Cage-Opened Fullerene C<sub>60</sub> Derivative with Grignard Reagents (Institute for Chemical Research, Kyoto Univ.; Faculty of Engineering, Fukui Univ. of Technology) MORINAKA, Yuta; MURATA, Michihisa; KUROTOBI, Kei; KOMATSU, Koichi; MURATA, Yasujiro
- 3E7-12** Generation and Internal Magnetic Fields of Dianions of Fullerene C<sub>70</sub> (Institute for Chemical Research, Kyoto Univ.; Faculty of Engineering, Fukui Univ. of Technology) NOBORI, Masahiro; MURATA, Michihisa; KOMATSU, Koichi; MURATA, Yasujiro
- 3E7-13** Synthesis and Properties of Azafullerene Derivatives Directly Connected to a Pyrrole Ring (Institute for Chemical Research, Kyoto Univ.) KATSUYA, Satoshi; MURATA, Michihisa; MURATA, Yasujiro

Chair: MURATA, Michihisa (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(3E7-15, 3E7-16, 3E7-17, 3E7-18, 3E7-19, 3E7-20)
- 3E7-15<sup>#</sup>** Effects of Alkyl Chain Length on Photocurrent Generation Properties of Self-assembled Monolayers Using Penta(organo)[60]fullerene Alkyl Thiols (The Univ. of Tokyo; ERATO, JST) LACHER, Sebastian; MATSUO, Yutaka; MATSUO, Keiko; SAKAMOTO, Aiko; NAKAMURA, Eiichi
- 3E7-16** Control of Electronic Communication between Multiple Metal Atoms on [70]Fullerene with Redox-Active Functional Group (The Univ. of Tokyo; ERATO, JST) FUJITA, Takeshi; MATSUO, Yutaka; NAKAMURA, Eiichi
- 3E7-17** Electric Properties of Fullerene Derivatives having Two C<sub>60</sub> Moieties

(Sendai Nat. Coll. of Tech. (Natori); Research and Analytical Center for Giant Molecules, Graduate School of Science, Tohoku Univ.) ENDO, Tomoaki; YOSHIDA, Shin-ichiro; MOMMA, Hiroyuki; KONDO, Takeyoshi; KWON, Eunsang

- 3E7-18<sup>#</sup>** Thienyl-substituted methanofullerenes for organic solar cells (Osaka Univ.; SORST(JST); Korea Institute of Science and Technology) CHOI, Jung Hei; SON, Kyung-in; KIM, Taehee; KIM, Kyungkon; OHKUBO, Kei; FUKUZUMI, Shunichi
- 3E7-19** Synthesis and Thermal Property of Silylmethyl[60]fullerene Derivatives as New Acceptor Materials for Organic Photovoltaics (ERATO, JST) ABE, Yoko; MATSUO, Yutaka; SOGA, Iwao; TANAKA, Hideyuki; SATO, Yoshiharu; NAKAMURA, Eiichi
- 3E7-20** Photocurrent Generating Systems of Fullerene-bisporphyrins with Supramolecular Interaction (The Univ. of Tokyo; ERATO, JST) ICHIKI, Takahiko; MATSUO, Yutaka; NAKAMURA, Eiichi

## Sunday, March 28, PM

Chair: OHKUBO, Kei (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(3E7-28, 3E7-29, 3E7-30, 3E7-31, 3E7-32, 3E7-33)
- 3E7-28<sup>†</sup>** Water-solubilization and assembly control of single-walled carbon nanotubes by transition metal complex (Nara Inst. Sci. and Technol.) NOBUSAWA, Kazuyuki; IKEDA, Atsushi; KIKUCHI, Jun-ichi
- 3E7-29** Substituent Effect in reductive alkylation of single-walled carbon nanotubes. (Tokyo Gakugei Univ.; JST PRESTO; The Univ. of Electro-Communications; Univ. of Tsukuba) KATO, Takaaki; OKUI, Yumi; MAEDA, Yutaka; HASEGAWA, Tadashi; KAKO, Masahiro; AKASAKA, Takeshi
- 3E7-30** Synthesis and Properties of a New Fullerodendron Consisting of 1,4-adduct of C<sub>60</sub> (Graduate School of Environmental Science, Okayama Univ.) FUKUDOME, Ryo-hei; TAJIMA, Tomoyuki; FUJII, Keita; TAKAHASHI, Nobuhiro; TAKAGUCHI, Yutaka
- 3E7-31** Formation of Zwitterionic Fullerodendron Using DBN-focal Dendron Having Pyrene Groups at the Terminals (Graduate School of Environmental Science, Okayama Univ.) TAKENAKA, Kei; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka
- 3E7-32** Synthesis and Properties of a Novel Fullerodendron via Diels-Alder Reaction of C<sub>60</sub> with Pentacene Having Dendritic Substituents at 2,3,9,10-Positions (Graduate School of Environmental Science, Okayama Univ.) FUKUDA, Keitaro; TAJIMA, Tomoyuki; YAMAKAWA, Akio; TAKAGUCHI, Yutaka
- 3E7-33** Coordination Polymer of Porphyrin Bearing Two Oligoaniline Chains with Terminal Pyridyl Groups (Osaka Univ.) AMAYA, Toru; UEDA, Taiki; HIRAO, Toshikazu

Chair: TOGANO, Motoki (14:40~15:30)

- \* 14:30-14:40: interval for laptop PC connection.(3E7-35, 3E7-36, 3E7-37, 3E7-38)
- 3E7-35** Synthesis and Properties of Soluble Phthalocyanine Analogues (Hiroshima Univ.) MIYAZAKI, Eigo; IWATANI, Masahito; MORI, Hiroki; TAKIMIYA, Kazuo
- 3E7-36** Synthesis and Properties of 16  $\pi$  Tetraphenyltetraazaporphyrin Copper Complexes (Hiroshima Univ.) SUGAWARA, Shun; HIRATA, Yusuke; MIYAZAKI, Eigo; TAKIMIYA, Kazuo; HASHIZUME, Daisuke; KOBAYASHI, Nagao; MURANAKA, Atsuya; YAMAMOTO, Yohsuke
- 3E7-37** Synthesis of doubly dipyrin-bridged porphyrin dimers (Grad. Sch. Sci., Kyoto Univ.) OSAWA, Kenta; SONG, Jianxin; ARATANI, Naoki; OSUKA, Atsuhiko
- 3E7-38\*** Synthesis and characterization of triply-linked porphyrin-hexaphyrin dyad (Kyoto Univ.) TANAKA, Takayuki; ARATANI, Naoki; OSUKA, Atsuhiko

Chair: SUGIURA, Ken-Ichi (15:40~16:30)

- \* 15:30-15:40: interval for laptop PC connection.(3E7-41, 3E7-42, 3E7-44, 3E7-45)
- 3E7-41** Expanded Isophlorin-type Octaphyrin(1.1.1.1.1.1.1) Phosphorus Complexes (Grad. Sch. Sci., Kyoto Univ.) HIGASHINO, Tomohiro; MIURA, Takahiro; SAITO, Shohei; OSUKA, Atsuhiko
- 3E7-42\*** Fully conjugated helices from oxidative cleavage of expanded porphyrins (Kyoto Univ.) SAITO, Shohei; FURUKAWA, Ko; OSUKA, Atsuhiko
- 3E7-44** Synthesis and properties of a porphyrin array with an excitation energy gradient (Graduate School of Science, Osaka City Univ.) UETOMO, Atsuhiko; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji
- 3E7-45** Control of Binding Ability of Zn porphyrin to Axial Ligands by adjacent alkyl chain conformational changes induced by metal complexation (Graduate School of Science, Osaka City Univ.) KATO, Mutsumi; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji

Chair: AMAYA, Toru (16:40~17:30)

- \* 16:30-16:40: interval for laptop PC connection.(3E7-47, 3E7-48, 3E7-49, 3E7-50)
- 3E7-47** Synthesis and properties of novel corrole isomers containing *N*-linked bipyrrrole unit (Grad. Sch. Eng., Kyushu Univ.) KAWABE, Yasunori;

TOGANO, Motoki; FURUTA, Hiroyuki

- 3E7-48** Synthesis and properties of ethynyl-linked N-confused porphyrin dimer (Grad. Sch. Eng., Kyushu Univ.) TAKAYAMA, Takumi; TOGANO, Motoki; FURUTA, Hiroyuki
- 3E7-49** Synthesis and Characterization of Doubly  $\beta$ - $\beta$  1,3-Butadiyne-Bridged BODIPY Dimer (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) SAKIDA, Takafumi; YAMAGUCHI, Sigeru; SHINOKUBO, Hiroshi
- 3E7-50\*** Supramolecular Structures and Photoelectronic Properties of Cyclic Porphyrin Dimers Including Fullerene Derivatives (Grad. Sch. Sci., Kyushu Univ.; Inst. for Materials Chem. and Eng., Kyushu Univ.; Coll. Sci., Ibaraki Univ.; Grad. Sch. Sci. Eng., Ehime Univ.; Grad. Sch. Eng., Osaka Univ.; SORST, JST; Dept. Chem., Unive. of Tsukuba; PRESTO, JST) NOBUKUNI, Hirofumi; TANI, Fumito; SHIMAZAKI, Yuichi; NARUTA, Yoshinori; UNO, Hidemitsu; OHKUBO, Kei; NAKANISHI, Tatsuaki; KOJIMA, Takahiko; FUKUZUMI, Shunichi; SEKI, Shu

Chair: SHOJI, Osami (17:40~18:30)

\* 17:30-17:40: interval for laptop PC connection.(3E7-53, 3E7-55, 3E7-56)

- 3E7-53\*** Synthesis of meso-substituted porphycenes (Graduate School of Science and Engineering, Ehime Univ.; PRESTO, JST) KUZUHARA, Daiki; YANO, Keiko; OKUJIMA, Tetsuo; YAMADA, Hiroko; UNO, Hidemitsu
- 3E7-55** Synthesis and properties of bicyclo[2.2.2]octadiene-fused porphyrinoid. (Graduate School of Science and Engineering, Ehime Univ.) TAHARA, Hiroyuki; UOYAMA, Hiroki; MORI, Shigeki; OKUJIMA, Tetsuo; YAMADA, Hiroko; UNO, Hidemitsu
- 3E7-56\*** Protonation-induced Formation of a Stable Singlet Biradical Derived from Novel Modified Sapphyrin Analogue (Graduates School of Sciences, Kyushu Univ.; Institute for Materials Chemistry and Engineering, Kyushu Univ.) ISHIDA, Masatoshi; NARUTA, Yoshinori; TANI, Fumito

## Monday, March 29, AM

Chair: YAMADA, Hiroko (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(4E7-01, 4E7-02, 4E7-03, 4E7-04, 4E7-05)

- 4E7-01** Rearrangement from hexaphyrin(1.1.1.1.1.1) into hexaphyrin (2.1.1.0.1.1) (Kyoto Univ.) MORIYA, Kohei; SAITO, Shohei; OSUKA, Atsuhiko
- 4E7-02** synthesis and Properties of *meso*-Alkylsubporphyrins (Grad. Sch. Sci., Kyoto Univ.) HAYASHI, Shinya; INOKUMA, Yasuhide; OSUKA, Atsuhiko
- 4E7-03** Palladium-Catalyzed Unexpected Homo-Coupling of *meso*-Bromoporphyrin (Grad. Sch. Sci., Kyoto Univ.) TOKUJI, Sumito; YURINO, Taiga; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko
- 4E7-04** Synthesis and characterization of  $\beta, \beta'$ -bisimidazolyl porphyrin pincer complexes (Grad. Sch. Sci., Kyoto Univ.) YAMAMOTO, Jun; SHIMIZU, Tomohiro; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko
- 4E7-05\*** Biradical Character of meso-Free Hexaphyrin Derivatives (Graduate School of Science, Kyoto Univ., Institute for Molecular Science) KOIDE, Taro; FURUKAWA, Ko; OSUKA, Atsuhiko

Chair: FUNABIKI, Kazumasa (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4E7-08, 4E7-09, 4E7-10, 4E7-11, 4E7-12, 4E7-13)

- 4E7-08** Synthesis and Properties of Novel Platinum Complexes Having a phenylsulfonyl group (Tokyo Institute of Technology) ICHIMURA, Akihiro; NISHIDA, Jyn-ichi; YAMASHITA, Yoshirou
- 4E7-09** Effects of the substitution position of naphthyl group on thermoluminescence of methylenecyclopropane: An approach from radicalcation precursors (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.; Grad. Sch. of Sci., Tohoku Univ.) IKEDA, Hiroshi; SERA, Toshiki; NAMAI, Hayato; MIZUNO, Kazuhiko
- 4E7-10** Thermochromism of Spiropyrans in Aqueous Media and Its Application to Colorimetric Molecular Thermometer (Osaka Univ.) ITOH, Masataka; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 4E7-11** Assemblies of Water-soluble Mn(III)Tetraphenylporphyrins Possessing Oligo(ethylene glycol) Chains and Their Relaxivities (Kyushu Univ.) OHKUBO, Kengo; HAYASHI, Hiroyuki; KARASAWA, Satoru; KOGA, Noboru
- 4E7-12\*** Synthesis and Crystal Structure of Perfluoroarene-disubstituted Alkynylporphyrins (Sch. Sci., Kitasato Univ.) OGU, Kenichi; MARUSHIMA, Yuta; HORI, Akiko
- 4E7-13** Two-photon absorption properties and nanostructures of star-shaped oligothiophenes (Tokyo Metropolitan Univ.) NARITA, Tomoyuki; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko; KAMADA, Kenji; OHTA, Koji

Chair: IKEDA, Hiroshi (11:20~12:10)

\* 11:10-11:20: interval for laptop PC connection.(4E7-15, 4E7-16, 4E7-17, 4E7-18, 4E7-19)

- 4E7-15** Solid-state Fluorescence Intensity of Squarylium dyes (Gifu Univ.) FUKUSHIMA, Masato; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui

- 4E7-16** Improvement of Solid-state fluorescence of naphthooxazine dyes (Gifu Univ.) TOKURA, Osamu; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui
- 4E7-17** Synthesis and Fluorescence Properties of a Novel Pyridomethene BF<sub>2</sub> Complex (Fac. Eng., Gifu Univ.) KUBOTA, Yasuhiro; TSUZUKI, Toshihiro; FUNABIKI, Kazumasa; MATSUI, Masaki
- 4E7-18** Fluorescence Properties of 1,2-Dihydro-3-carboxyquinoline Derivatives (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; MORI, Takahiro; AKAZOME, Motohiro
- 4E7-19<sup>†</sup>** Fabrication and properties of nanocrystallized oligosilanes including aromatic compounds: the first observation of exciplex emission of oligosilanes with aromatic compounds (Shizuoka Univ.) MORITA, Yuki; SHIBATA, Yuji; SAKAMOTO, Kenkichi

## Room F1

Bldg.17 17-102

Organic Chemistry -Reaction and Synthesis-  
Metallo-organic Chemistry

Friday, March 26, AM

Ni

Chair: MITSUDO, Koichi (9:00~10:10)

\* 8:50-9:00: interval for laptop PC connection.(1F1-01, 1F1-02, 1F1-03, 1F1-04, 1F1-05, 1F1-06)

- 1F1-01** Reductive coupling reaction of polyhydroxyhemiacetal and conjugated diene (Grad. Sch. Sci. Technol., Nagasaki Univ.; Fac. Eng., Nagasaki Univ.) HIROKAWA, Shingo; KIMURA, Masanari
- 1F1-02** Stereoselective coupling reaction of allylating agents, alkynes, and organozinc reagents via oxanickelacycles. (Nagasaki Univ.) MORI, Takamichi; TOGAWA, Mariko; KIMURA, Masanari
- 1F1-03** Zinc promoted three-component coupling reaction of alkyl halide, conjugated diene, and carbonyls (Grad. Sch. Sci. Technol., Nagasaki Univ.) MATSUFUJI, Kimoko; KIMURA, Masanari
- 1F1-04** Nickel-catalyzed [4+2] cycloaddition of enones and allens (Grad. Sch. Eng., Kyoto Univ.) SAKO, Saori; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 1F1-05** Synthesis of vinyl substituted chromones via nickel-catalyzed cycloaddition and C-H bond activation (Grad. Sch. Eng., Kyoto Univ.) NAKAI, Kennichi; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 1F1-06** Synthesis of heterocyclic compounds via nickel-catalyzed cycloaddition of heterodienes and alkyne (Grad. Sch. Eng., Kyoto Univ.) OZAWA, Takuya; KURAHASHI, Takuya; MATSUBARA, Seijiro

Chair: KIMURA, Masanari (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(1F1-08, 1F1-09, 1F1-10, 1F1-11, 1F1-12, 1F1-13)

- 1F1-08** Use of allylmalonate as allyl cation equivalent by nickel-catalyzed C-C bond cleavage (Grad. Sch. Eng., Kyoto Univ.) SUMIDA, Yuto; YORIMITSU, Hideki; OSHIMA, Koichiro
- 1F1-09** Ni(0)-catalyzed Tishchenko reaction via hetero-nickelacycle (Faculty of Engineering, Osaka Univ.) HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
- 1F1-10** Nickel Catalyzed Addition of Phthalic Anhydrides to Allenes (Grad. Sch. Eng., Kyoto Univ.) OCHI, Yosuke; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 1F1-11** Nickel Catalyzed Cycloaddition of Phthalic Anhydrides to Dienes via Decarbonylation (Grad. Sch. Eng., Kyoto Univ.) FUJIWARA, Kyohei; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 1F1-12** Nickel Catalyzed Cycloaddition of Thiophthalic Anhydrides to Alkynes (Grad. Sch. Eng., Kyoto Univ.) INAMI, Tasuku; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 1F1-13** Cationic Ni-Pincer-Catalyzed Aza-Michael Addition (Graduate School of Natural Science and Technology, Okayama Univ.) YAMAGUCHI, Takashi; IMURA, Tatsuhiko; MITSUDO, Koichi; TANAKA, Hideo

Chair: HIRANO, Koji (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(1F1-15, 1F1-17, 1F1-18, 1F1-19)

- 1F1-15\*** Nickel-Catalyzed Denitrogenative Annulation of 1,2,3-Benzotriazin-4(3H)-ones with Unsaturated Compounds (Grad. Sch. Eng., Kyoto Univ.) YAMAUCHI, Motoshi; MORIMOTO, Masao; MIURA, Tomoya; MURAKAMI, Masahiro
- 1F1-17** Nickel-Catalyzed Denitrogenative Allene Insertion of 1,2,3,4-Benzothiaziazin-1,1(2H)-dioxides (Grad. Sch. Eng., Kyoto Univ.) KOSAKA, Akira; YAMAUCHI, Motoshi; MIURA, Tomoya; MURAKAMI, Masahiro
- 1F1-18** Modular Synthesis of Chiral N-Heterocyclic Carbene Ligands and Their Application to Catalytic Asymmetric Reaction (Chiba Univ.)

TAKEICHI, Tomoko; HORIUCHI, Shinngo; YOSHIDA, Kazuhiro; IMAMOTO, Tsuneo; YANAGISAWA, Akira

**1F1-19\*** Selective Synthesis of Trienes and Dienes via Nickel-Catalyzed Intermolecular Cotrimerization of Acrylates and Alkynes (Grad. Sch. Eng., Kyoto Univ.) HORIE, Hiroaki; KURAHASHI, Takuya; MATSUBARA, Seijiro

## Friday, March 26, PM

### Ni

Chair: YOSHIDA, Kazuhiro (13 : 30~14 : 40)

- \* 13:20-13:30: interval for laptop PC connection.(1F1-28, 1F1-29, 1F1-30, 1F1-31, 1F1-32)
- 1F1-28** Enantioselective [2+2+2] Cycloaddition of Allenes and Isocyanates Catalyzed by Nickel (Grad. Sch. Eng., Kyoto Univ.) MORIMOTO, Masao; MIURA, Tomoya; MURAKAMI, Masahiro
- 1F1-29** Nickel/Lewis acid-catalyzed Dehydrogenative [4+2] Cycloaddition Reaction of Formamides with Alkynes (Grad. Sch. Eng., Kyoto Univ.) MORITA, Eiji; IDEI, Hiroaki; NAKAO, Yoshiaki; HIYAMA, Tamejiro
- 1F1-30** Ni(0)-catalyzed [2+2+2] Cycloaddition of Enone and Alkyne: Selective Synthesis of Cyclohexene Derivatives (Graduate School of Engineering, Osaka Univ.) NISHIMURA, Akira; OHASHI, Masato; OGOSHI, Sensuke
- 1F1-31** Nickel-catalyzed [3+2] cycloaddition reaction of cyclopropyl ketones with alkynes (Faculty of Engineering, Osaka Univ.) TAMAKI, Takashi; OGOSHI, Sensuke; OHASHI, Masato
- 1F1-32** Young Scholar Lectures of CSJ Synthesis of heterocyclic compounds from heterocyclic compound (Grad. Sch. Eng., Kyoto Univ.) KURAHASHI, Takuya

### Cu

Chair: TAKAYA, Jun (14 : 50~16 : 00)

- \* 14:40-14:50: interval for laptop PC connection.(1F1-36, 1F1-37, 1F1-38, 1F1-39, 1F1-40, 1F1-41, 1F1-42)
- 1F1-36<sup>#</sup>** Allylic Substitution of Gamma-aryl Substituted Allylic Picolines with Alkynylcopper Reagents (Department of Biomolecular Engineering; Tokyo Institute of Technology) WANG, Qian; KOBAYASHI, Yuichi
- 1F1-37** Construction of a Quarternary Carbon by Anti S<sub>N</sub>2' Allylic Substitution of Allylic Picolines (Department of Biomolecular Engineering, Tokyo Institute of Technology) NAKASAKA, Dai; KANEKO, Yuki; KOBAYASHI, Yuichi
- 1F1-38** Construction of a Quarternary Carbon on Cyclic Hydrocarbons by using Allylic Substitution (Department of Biomolecular Engineering; Tokyo Institute of Technology) KANEKO, Yuki; KIYOTSUKA, Yohei; KOBAYASHI, Yuichi
- 1F1-39** Copper-Catalyzed  $\gamma$ -Selective and Stereospecific Allyl-Aryl Coupling between Allylic Phosphates and Arylboronates (Dept. Chem., Fac. Sci., Hokkaido Univ.) YOKOKAWA, Natsumi; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 1F1-40** Copper-Catalyzed  $\gamma$ -Selective Allyl-Alkyl Coupling between Allylic Phosphates and Alkylboranes (Dept. Chem., Fac. Sci., Hokkaido Univ.) YOKOBORI, Umi; MAKIDA, Yusuke; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 1F1-41** Selective hydrosilylation of strically congested ketones in the presence of aldehydes using copper catalysts bearing Bowl-Shaped Phosphines (Grad. Sch. Eng., Kyoto Univ.) SEMBA, Kazuhiko; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi
- 1F1-42** Synthesis of pyridine ligands bearing *m*-terphenyl moieties and their unique complexation behavior with copper (Grad. Sch. Eng., Kyoto Univ.) HORIMOTO, Yuichiro; XU, Tinghua; SEMBA, Kazuhiko; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi

Chair: SATOH, Tetsuya (16 : 10~17 : 20)

- \* 16:00-16:10: interval for laptop PC connection.(1F1-44, 1F1-45, 1F1-46, 1F1-47, 1F1-48, 1F1-49, 1F1-50)
- 1F1-44<sup>#</sup>** Copper-catalyzed reductive coupling of alkynes and Carbon dioxide (Grad. Sch. Eng., Kyoto Univ.) XU, Tinghua; SEMBA, Kazuhiko; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi
- 1F1-45** One-pot Protocol for Carboxylation of Arenes via their Boronic Esters (Tokyo Institute of Technology) TADAMI, Satoshi; UKAI, Kazutoshi; TAKAYA, Jun; IWASAWA, Nobuharu
- 1F1-46** Copper catalyzed carboxylation of alkylboron compounds (RIKEN) OHISHI, Takeshi; NISHIURA, Masayoshi; HOU, Zhaomin
- 1F1-47** Synthesis of N-Heterocycles by Copper-Catalyzed Intramolecular Cyclization of Isocyanides (Faculty of Engineering, Osaka Univ.) KOH, Keika; FUJIHARA, Hirokazu; TOBISU, Mamoru; CHATANI, Naoto
- 1F1-48** Copper-catalyzed allenylation of imines via retro-allenylation of 2,3-butadien-1-ol derivatives and its application to synthesis of pyrrolines (Grad. Sch. Eng., Kyoto Univ.) SAI, Masahiro; YORIMITSU, Hideki; OSHIMA, Koichiro
- 1F1-49** Copper-catalyzed aldol-type reaction of carbonyl compounds with acetals (Doshisha Univ.) NISHIKAWA, Ryo; OE, Yohei; OHTA, Tetsuo
- 1F1-50** Copper-Catalyzed Diborylation of Alkynes (Graduate School of

Engineering, Hiroshima Univ.) YOSHIDA, Hiroto; KAWASHIMA, Shota; OHSHITA, Joji

Chair: FUKUYAMA, Takahide (17 : 30~18 : 40)

- \* 17:20-17:30: interval for laptop PC connection.(1F1-52, 1F1-53, 1F1-54, 1F1-55, 1F1-56, 1F1-57, 1F1-58)
- 1F1-52** Copper-Catalyzed Coupling of Thiols with Amines (Fukushima Medical Univ.) TANIGUCHI, Nobukazu
- 1F1-53** Effect of silver carbonate in the Cu-catalyzed C-H N-H coupling of heteroaromatic compounds. (Kobe Univ.) FUJIWARA, Taiki; MONGUCHI, Daiki; MORI, Atsunori
- 1F1-54** Cu/Ag-catalyzed C-H homocoupling of imidazole derivatives (Kobe Univ.) MONGUCHI, Daiki; YAMAMURA, Akira; FUJIWARA, Taiki; SOMETE, Takashi; MORI, Atsunori
- 1F1-55** Copper-Mediated Direct Cross-Coupling of 1,3,4-Oxadiazoles and Oxazoles with Terminal Alkynes (Faculty of Engineering, Osaka Univ.) KITAHARA, Masanori; HIRANO, Koji; TSURUGI, Hayato; SATOH, Tetsuya; MIURA, Masahiro
- 1F1-56** Regioselective Synthesis of  $\beta$ -Lactam Derivatives via Copper-Catalyzed Skeletal Rearrangement of *O*-Propargyl Oximes. (Graduate School of Science, Tohoku Univ.) ARAKI, Toshiharu; NAKAMURA, Itaru; TERADA, Masahiro
- 1F1-57** Copper-Catalyzed Skeletal Rearrangement via N-N Bond Cleavage of Hydrazones (Graduate School of Science, Tohoku Univ.) SHIRAIWA, Naozumi; NAKAMURA, Itaru; TERADA, Masahiro
- 1F1-58** Construction of 3-Azetidinones by Copper-Catalyzed Skeletal Rearrangement (Graduate School of Science, Tohoku Univ.) IWATA, Tomoki; NAKAMURA, Itaru; TERADA, Masahiro

## Saturday, March 27, AM

### Co

Chair: NAKAMURA, Masaharu (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2F1-01, 2F1-02, 2F1-03, 2F1-04, 2F1-05, 2F1-06)
- 2F1-01<sup>#</sup>** Cobalt-Catalyzed Direct Alkylation of Benzamide and 2-Arylpyridine Derivatives (The Univ. of Tokyo) CHEN, Quan; ILIES, Laurean; YOSHIKAI, Naohiko; NAKAMURA, Eiichi
- 2F1-02** Cobalt-Catalyzed Benzylzincation of Alkynes (Grad. Sch. Eng., Kyoto Univ.) MURAKAMI, Kei; YORIMITSU, Hideki; OSHIMA, Koichiro

### Fe

- 2F1-03** Iron-Catalyzed Direct Arylation of 2-Phenylpyridine Congeners With Aryl Bromide and Metallic Magnesium (The Univ. of Tokyo) KOBAYASHI, Motoaki; MATSUMOTO, Arimasa; ILIES, Laurean; YOSHIKAI, Naohiko; NAKAMURA, Eiichi
- 2F1-04<sup>#</sup>** Iron-Catalyzed Selective sp<sup>3</sup> C-H Bond Arylation of (2-Iodobenzyl) amines (The Univ. of Tokyo) MIECZKOWSKI, Adam; MATSUMOTO, Arimasa; ILIES, Laurean; YOSHIKAI, Naohiko; NAKAMURA, Eiichi
- 2F1-05** Cationic Iron-Catalyzed Intramolecular Hydroarylation of Alkynes (Grad. Sch. Eng., Hiroshima Univ.) KOMEYAMA, Kimihiro; WAKAMIYA, Tomozi; TAKAKI, Ken
- 2F1-06** The Application of Iron- / Cobalt-Catalysts in Asymmetric Hydro-silylation (Nagoya Univ.) INAGAKI, Tomohiko; Le Thanh, Phong; ITO, Jun-ichi; NISHIYAMA, Hisao

Chair: ILIES, Laurean (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2F1-08, 2F1-09, 2F1-10, 2F1-11, 2F1-12, 2F1-13)
- 2F1-08** Iron-Catalyzed Cross-Coupling Reactions of Alkyl Halides with Alkenylboron Compounds (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) HASHIMOTO, Toru; SEIKE, Hirofumi; HATAKEYAMA, Takuji; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 2F1-09** Iron-Catalyzed Cross-Coupling Reactions of Halohydrins (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) KAWAMURA, Shintaro; ISHIZUKA, Kentaro; NAKAMURA, Masaharu
- 2F1-10** Iron-Catalyzed Cross-Coupling Reactions with Alkynyl Grignard Reagents (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) OKADA, Yoshihiro; YOSHIMOTO, Yuya; HATAKEYAMA, Takuji; NAKAMURA, Masaharu
- 2F1-11** Hydromagnesiation of Alkenes Catalyzed Cooperatively by Iron and Copper Complexes (Grad. Sch. Sci., Kyoto Univ.) SHIRAKAWA, Eiji; YOSHIDA, Masatoshi; MASUI, Seiji; IKEDA, Daiji; HAYASHI, Tamio
- 2F1-12<sup>†</sup>** Iron-Catalyzed Aryl- and Alkenyllithiation of Alkynes (Grad. Sch. Sci., Kyoto Univ.) SHIRAKAWA, Eiji; NARUI, Rintaro; IKEDA, Daiji; HAYASHI, Tamio
- 2F1-13** Transition-Metal-Catalyzed Selective Cleavage of Carbon-Phosphorus Bond of Phosphonium Salts (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) NAKAGAWA, Naohisa; YOSHIMOTO, Yuya; HATAKEYAMA, Takuji; NAKAMURA,

Masaharu

Chair: KOMEYAMA, Kimihiro (11:20~12:10)

\* 11:10-11:20: interval for laptop PC connection.(2F1-15, 2F1-16, 2F1-17, 2F1-18, 2F1-19)

- 2F1-15** Iron-Catalyzed Oxidative Coupling of Alkylamides with Carbon Nucleophiles through Oxidation of Alkylamides Followed by Nucleophilic Substitution (Grad. Sch. Sci., Kyoto Univ.) SHIRAKAWA, Eiji; UCHIYAMA, Nanase; HAYASHI, Tamio
- 2F1-16** Iron-Catalyzed Oxidative Coupling of Alkylamines (Grad. Sch. Sci., Kyoto Univ.) SHIRAKAWA, Eiji; YONEDA, Tomoki; MORIYA, Kohei; UCHIYAMA, Nanase; HAYASHI, Tamio
- 2F1-17** Iron-Catalyzed Cleavage of Carbon-Nitrogen Bond of *N,N*-Dimethylanilines Using Diazoacetates (Okayama Univ.) NISHI, Mitsumi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 2F1-18** BF<sub>3</sub>-mediated reaction of (1-alkynyl)dicarbonylcyclopentadienylirons with imines (Grad. Sch. Eng., Kyoto Univ.) NAKAYA, Ryotaro; YASUDA, Shigeo; YORIMITSU, Hideki; OSHIMA, Koichiro
- 2F1-19** Reactions of aryldicarbonylcyclopentadienyliron with styrenes (Grad. Sch. Eng., Kyoto Univ.) YASUDA, Shigeo; YORIMITSU, Hideki; OSHIMA, Koichiro

## Saturday, March 27, PM

Chair: SHIRAKAWA, Eiji (14:30~15:10)

\* 14:20-14:30: interval for laptop PC connection.(2F1-34, 2F1-35)

- 2F1-34** Iron-Catalyzed Decarbonylation of Aliphatic Carboxylic Acids (Graduate School of Science, Osaka Prefecture Univ.; Kao Corporation) FUKUYAMA, Takahide; MAETANI, Shinji; RYU, Ilhyong; TAHARA, Hideo; SUZUKI, Nobuyoshi; ISHIHARA, Daisuke
- 2F1-35** Young Scholar Lectures of CSJ Functionalizations of Carbon-Carbon Multiple Bonds Catalyzed by Borderline Metal Complexes (Grad. Sch. Eng., Hiroshima Univ.) KOMEYAMA, Kimihiro

## Pd

Chair: KUWANO, Ryoichi (15:20~16:30)

\* 15:10-15:20: interval for laptop PC connection.(2F1-39, 2F1-40, 2F1-41, 2F1-42, 2F1-43, 2F1-44)

- 2F1-39** Synthesis of Multisubstituted Carbazole Derivatives by Palladium-Catalyzed Oxidative Coupling of Indoles with Alkynes (Faculty of Engineering, Osaka Univ.) YAMASHITA, Mana; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 2F1-40** Synthesis of 2,3-Diarylbenzo[b]thiophenes via Decarboxylative Arylation under Palladium Catalysis (Faculty of Engineering, Osaka Univ.) MIYASAKA, Mitsuru; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 2F1-41** Oxidative coupling reaction of aminobenzenes with olefins catalyzed by Pd(OAc)<sub>2</sub>/HPMoV/O<sub>2</sub> system (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; ORDIST, Kansai Univ.) MIZUTA, Yohei; SHIMIZU, Yosuke; OBORA, Yasushi; ISHII, Yasutaka
- 2F1-42**  $\beta$ -Selective C-H Bond Arylation of Thiophenes (Dept. Chem., Nagoya Univ.) UEDA, Kirika; YANAGISAWA, Shuichi; SEGAWA, Yasutomo; ITAMI, Kenichiro
- 2F1-43** Indole/Azine C-H Coupling for Natural Product Synthesis (Dept. Chem., Nagoya Univ.) YAMAGUCHI, Junichiro; MANDAL, Debashis; YAMAGUCHI, Atsushi; UEDA, Kirika; ITAMI, Kenichiro
- 2F1-44\*** Room Temperature aromatic C-H activation reactions catalyzed by cationic Pd(II) (Univ. of California, Santa Barbara) NISHIKATA, Takashi; ABELA, A.R.; LIPSHUTZ, B.H.

Chair: SATOH, Tetsuya (16:40~17:40)

\* 16:30-16:40: interval for laptop PC connection.(2F1-47, 2F1-49, 2F1-50, 2F1-51, 2F1-52)

- 2F1-47\*** Regioselective Functionalization of Aromatic Carbon-Hydrogen Bonds via Dual Activation by Palladium Catalysts and Electrochemical Oxidation (Keio Univ.) KOCHI, Takuya; MUTSUTANI, Hitoshi; AISO, Hiroko; KOBAYASHI, Noboru; TANABE, Takamasa; NISHIYAMA, Shigeru; KAKIUCHI, Fumitoshi
- 2F1-49** Palladium-Catalyzed C-H Arylation of Isoindoles: One-pot Synthesis of 1,3-Diarylisoindoles via Dehydrogenation of Isoindolines (Kyoto Univ.) OHMURA, Toshimichi; KIJIMA, Akihito; SUGINOME, Michinori
- 2F1-50** Palladium-catalyzed coupling reaction of aryl chlorides and bromides with thiophene derivatives. (Kobe Univ.) TANBA, Shunsuke; OHKUBO, Youhei; MONGUCHI, Daiki; MORI, Atsunori
- 2F1-51** Synthesis of Polythiophene Derivatives Based on Direct Arylation (Institute for Chemical Research, Kyoto Univ.) TAKITA, Ryo; WANG, Qifeng; KIKUZAKI, Yuuta; NAKAMURA, Yuki; OZAWA, Fumiyouki
- 2F1-52** Hydrocarboxylation of 1,3-Dienes with CO<sub>2</sub> Catalyzed by PSIP Pincer-Type Palladium Complex (Tokyo Institute of Technology) SASANO, Kota; TAKAYA, Jun; IWASAWA, Nobuharu

## Sunday, March 28, AM

## Rh

Chair: SHIGENO, Masanori (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(3F1-01, 3F1-02, 3F1-03, 3F1-04, 3F1-05, 3F1-06)

- 3F1-01** Sodium Tetraaryborates as Effective Nucleophiles in Rhodium/Diene-Catalyzed 1,4-Addition to  $\beta,\beta$ -Disubstituted  $\alpha,\beta$ -Unsaturated Ketones (Kyoto Univ.) SHINTANI, Ryo; TSUTSUMI, Yosuke; NAGAOSA, Makoto; NISHIMURA, Takahiro; HAYASHI, Tamio
- 3F1-02** Rhodium/Chiral Diene-Catalyzed Asymmetric 1,4-Addition of Arylboroxines to  $\beta,\beta$ -Disubstituted  $\alpha,\beta$ -Unsaturated Ketones (Grad. Sch. Sci., Kyoto Univ.) SHINTANI, Ryo; TAKEDA, Momotaro; NISHIMURA, Takahiro; HAYASHI, Tamio
- 3F1-03** Rhodium/Chiral Diene-Catalyzed Asymmetric Synthesis of Spirocarbocycles (Grad. Sch. Sci., Kyoto Univ.) SHINTANI, Ryo; ISOBE, Shingo; TAKEDA, Momotaro; HAYASHI, Tamio
- 3F1-04** Rh-catalyzed Asymmetric 1,4-addition to Coumarin by using Chiral Electron-poor Diphosphine (Okayama Univ.) KORENAGA, Toshinobu; MAENISHI, Ryota; AKAKI, Yusuke; EMA, Tadashi; SAKAI, Takashi
- 3F1-05** Asymmetric  $\beta$ -boration of  $\alpha,\beta$ -unsaturated carbonyl compounds catalyzed by chiral Rh(Phebox) complex (Nagoya Univ.) TORIBATAKE, Kenji; ZHOU, Li; ADACHI, Takahiro; NISHIYAMA, Hisao
- 3F1-06** Rhodium-Catalyzed Carbonylative Arylation of Alkynes with Arylboronic Acids Using Formaldehyde (Nara Institute of Science and Technology) MORIMOTO, Tsumoru; KANESHIRO, Hiroyuki; KAKIUCHI, Kiyomi; Artok, Levent

Chair: KORENAGA, Toshinobu (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(3F1-08, 3F1-09, 3F1-10, 3F1-11, 3F1-12, 3F1-13)

- 3F1-08** Asymmetric Synthesis of Trisubstituted Allenes by Rhodium-Catalyzed Asymmetric Addition of Arylboronic Acids to Conjugate Enynes (Grad. Sch. Sci., Kyoto Univ.) NISHIMURA, Takahiro; MAKINO, Hiroki; NAGAOSA, Makoto; HAYASHI, Tamio
- 3F1-09<sup>†</sup>** Synthesis of Polyacetylenes through Rhodium/Chiral Diene-Catalyzed Asymmetric Polymerization of 1,8-Dienes (Grad. Sch. Sci., Kyoto Univ.) NISHIMURA, Takahiro; ICHIKAWA, Yoshitaka; HAYASHI, Tamio
- 3F1-10** Asymmetric Cyclopropanation of Styrenes with Dimethyl Diazomalonate Catalyzed by Rhodium Complexes Coordinated with Chiral Tetrafluorobenzobarrelene Ligands (Grad. Sch. Sci., Kyoto Univ.) NISHIMURA, Takahiro; MAEDA, Yuko; HAYASHI, Tamio
- 3F1-11** Rhodium-Catalyzed Asymmetric Intermolecular Hydroacylation of Disubstituted Alkenes with Aldehydes (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) SHIBATA, Yu; TANAKA, Ken
- 3F1-12** Asymmetric Cyclization of 5-Alkynyls by Rhodium-Catalyzed Intermolecular Hydroacylation (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) TANAKA, Ken; TANAKA, Ken
- 3F1-13** Rh(I)-Catalyzed Cyclocarbonylation Reaction of Enynes with Alcohols (Nara Institute of Science and Technology) MORIMOTO, Tsumoru; YOSHIDA, Karin; TSUMAGARI, Takayuki; IKEDA, Keiichi; KAKIUCHI, Kiyomi

Chair: MORIMOTO, Tsumoru (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(3F1-15, 3F1-16, 3F1-17, 3F1-18, 3F1-19, 3F1-20)

- 3F1-15** Rhodium-Catalyzed Asymmetric Addition to 1-Alkenylboronic Acid Derivatives (Grad. Sch. Sci., Kyoto Univ.) SASAKI, Keigo; HAYASHI, Tamio
- 3F1-16** Rhodium-Catalyzed Asymmetric Addition of Arylboronic Acids toward the Synthesis of  $\beta$ -Amino Acids (Graduate School of Science, Kyoto Univ.; The Hong Kong Polytechnic Univ.) NISHIMURA, Takahiro; WANG, Jun; NAGAOSA, Makoto; OKAMOTO, Kazuhiko; SHINTANI, Ryo; CHAN, Albert S. C.; HAYASHI, Tamio
- 3F1-17** Rhodium-Catalyzed Asymmetric Alkynylation of Isatins (Grad. Sch. Sci., Kyoto Univ.) NISHIMURA, Takahiro; SAWANO, Takahiro; HAYASHI, Tamio
- 3F1-18** Rhodium-Catalyzed Intermolecular [2+2+2] Cycloaddition of Aryl Ethynyl Ethers with Alkynes and Nitriles (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) KOMINE, Yoshiyuki; TANAKA, Ken
- 3F1-19** Synthesis of Tetrahydronaphthalene Derivatives by Rhodium-Catalyzed [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) SAWADA, Yayoi; AIDA, Yusuke; THAMMATHEVO, Maliny; TANAKA, Ken; KOMINE, Yoshiyuki; SAGAE, Hiromi; OTAKE, Yosuke; TANAKA, Ken
- 3F1-20** Construction of Three Consecutive Chiral Centers by Intramolecular [2+2+2] Cycloaddition of Dienynes (Waseda Univ.) OTOMO, Mayumi; ENDO, Kohei; SHIBATA, Takanori

## Sunday, March 28, PM

Chair: NISHIMURA, Takahiro (13 : 30~14 : 40)

- \* 13:20-13:30: interval for laptop PC connection.(3F1-28, 3F1-29, 3F1-30, 3F1-31, 3F1-32, 3F1-33, 3F1-34)
- 3F1-28** Construction of Chiral Tetraphenylene Structure by Catalytic and Enantioselective [2+2+2] Cycloaddition (Waseda Univ.) CHIBA, Tatsuya; HIRASHIMA, Hiroyuki; ENDO, Kohei; SHIBATA, Takanori
- 3F1-29** Intramolecular [2+2+2] Cycloaddition of Branched Triynes for the Enantioselective Synthesis of Chiral Tripodal Cage Compounds (Waseda Univ.) UCHIYAMA, Toshifumi; ENDO, Kohei; SHIBATA, Takanori
- 3F1-30** Multi-Cascade Reaction Involving Cationic Rhodium(I) Complex-Catalyzed Intramolecular Carboformylation (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) OKAZAKI, Eri; TANAKA, Ken
- 3F1-31** Construction of Chiral Multicyclic Skeletons by Cationic Rhodium(I) Complexes-Catalyzed Asymmetric Cycloaddition Cascade (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) KOBAYASHI, Masayuki; IMASE, Hidetomo; SUDA, Takeshi; TAKAHASHI, Maho; TANAKA, Ken

## Ir

- 3F1-32** Iridium complex catalyzed Guerbet reaction of  $\alpha, \omega$ -diols (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; ORDIST, Kansai Univ.) ANNO, Yuka; OBORA, Yasushi; ISHII, Yasutaka
- 3F1-33** Iridium complex-catalyzed  $\alpha$ -alkylation of acetonitrile with alcohols (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; KU-HRC) SAWAGUCHI, Takuya; OBORA, Yasushi
- 3F1-34** Iridium-catalyzed intramolecular cyclization of 4-arylbutanols (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; KU-HRC) ISHIBASHI, Yu; OBORA, Yasushi

Chair: ONODERA, Gen (14 : 50~16 : 00)

- \* 14:40-14:50: interval for laptop PC connection.(3F1-36, 3F1-37, 3F1-38, 3F1-39, 3F1-40, 3F1-41, 3F1-42)
- 3F1-36** Regioselective Borylation of Heteroarenes Catalyzed by a Silica-Supported Phosphine-Iridium Complex (Dept. Chem., Fac. Sci., Hokkaido Univ.) KAWAMORITA, Soichiro; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 3F1-37** *Ortho*-Borylation of Phenol Derivatives Catalyzed by a Silica-Supported Phosphine-Iridium Complex (Dept. Chem., Fac. Sci., Hokkaido Univ.) YAMAZAKI, Kenji; KAWAMORITA, Soichiro; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 3F1-38** Iridium complex-catalyzed reaction of primary alcohols with methanol to methyl esters (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; ORDIST, Kansai Univ.) YAMAMOTO, Nobuyuki; OBORA, Yasushi; ISHII, Yasutaka
- 3F1-39** Iridium complex-catalyzed reaction of primary alcohols with methanol to methyl esters (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; KU-HRC) YOSHIDA, Hiroshi; HATANAKA, Shintaro; OBORA, Yasushi
- 3F1-40** N-Alkylation of Sulfonamides with Alcohols Catalyzed by a Cp\*Ir Complex and Mechanistic Study (Kyoto Univ.) ZHU, Mingwen; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 3F1-41** Environmentally Benign Synthesis of Amines in Water Catalyzed by Water-Soluble Cp\* Iridium Complexes (Kyoto Univ.) KAWAHARA, Ryoko; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 3F1-42** Dehydrogenative Oxidation of Primary Alcohols Catalyzed by Cp\*Ir-Complexes Having Functional Chelate Ligands (Kyoto Univ.) YOSHIDA, Tetsuya; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei

Chair: SUZUKI, Takeyuki (16 : 10~17 : 20)

- \* 16:00-16:10: interval for laptop PC connection.(3F1-44, 3F1-45, 3F1-47, 3F1-49, 3F1-50)
- 3F1-44** Iridium-Catalyzed Asymmetric 1,6-Addition of Arylboronic Acids to  $\alpha, \beta, \gamma, \delta$ -Unsaturated Carbonyl Compounds (Grad. Sch. Sci., Kyoto Univ.) NISHIMURA, Takahiro; YASUHARA, Yuichi; HAYASHI, Tamio
- 3F1-45\*** Development of Carbon-Hydrogen Bond Functionalization Using Cationic Iridium Catalysts (Waseda Univ.) TSUCHIKAMA, Kyoji; KASAGAWA, Mitsugu; HASHIMOTO, Yu-ki; ENDO, Kohei; SHIBATA, Takanori
- 3F1-47\*** Iridium-Catalyzed Synthesis of 2-Quinolones from Carbamoyl Chlorides and Internal Alkynes (Grad. Sch. Eng., Kyoto Univ.) IWAI, Tomohiro; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi
- 3F1-49** Iridium-Catalyzed Cycloaddition of Dienes with Isocyanates (Aoyama Gakuin Univ.) ONODERA, Gen; SUTO, Mari; SHIMIZU, Yoshihisa; TAKEUCHI, Ryo
- 3F1-50** Cationic Iridium Complex-Catalyzed Mannich Reaction (Aoyama Gakuin Univ.) ONODERA, Gen; TODA, Nou-no; TOEDA, Takayuki; TAKEUCHI, Ryo

Chair: TERAO, Jun (17 : 30~18 : 30)

- \* 17:20-17:30: interval for laptop PC connection.(3F1-52, 3F1-54, 3F1-56,

3F1-57)

- 3F1-52\*\*** Oxidative Desymmetrization of Diols Catalyzed by Chiral Iridium Complex (ISIR, Osaka Univ.) GHOZATI, Kazem; TAKATANI, Shuhei; KATO, Tadashi; SUZUKI, Takeyuki; SASAI, Hiroaki
- 3F1-54\*** Mechanistic investigation for hydrogenation of carbon dioxide catalyzed by Ir-PNP complexes (The Univ. of Tokyo) TANAKA, Ryo; YAMASHITA, Makoto; NOZAKI, Kyoko
- 3F1-56** Bifunctional pyrazolatoiridium catalyst-promoted intramolecular hydroamination of aminoalkenes bearing polar functional groups (Graduate School of Science and Engineering, Tokyo Institute of Technology) KASHIWAME, Yohei; KUWATA, Shigeki; IKARIYA, Takao
- 3F1-57** Asymmetric Hydrogenation of Aromatic Heterocyclic Ketones Catalyzed by the MsDPEN-Cp\*Ir(III) Complex (Hokkaido Univ.; Kanto Chemical Co., Inc.) OHKUMA, Takeshi; UTSUMI, Noriyuki; TSUTSUMI, Kunihiko; WATANABE, Masahito; MURATA, Kunihiko; ARAI, Noriyoshi; KURONO, Nobuhito

## Monday, March 29, AM

## Pd

Chair: OGASAWARA, Masamichi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4F1-01, 4F1-02, 4F1-03, 4F1-04, 4F1-05, 4F1-06)
- 4F1-01**  $\beta$ -Arylation of  $\alpha, \beta$ -Unsaturated Esters with Aryltrimethylsilanes Catalyzed by Palladium Complexes (Tohoku Univ.) NAKAMURA, Shunsuke; SATO, Tetsuo; OI, Shuichi
- 4F1-02** Stereo-Complementary Synthesis of  $\beta$ -Boryllallylsilanes via Palladium-Catalyzed Stereoselective Double Bond Migration (Kyoto Univ.) OHMURA, Toshimichi; OSHIMA, Kazuyuki; SUGINOME, Michinori
- 4F1-03** Palladium-Catalyzed Reaction of (Aminosilyl)boronic Esters with Dienyl Phosphates: Insertion of Silylene into Carbon-Oxygen Bond (Kyoto Univ.) OHMURA, Toshimichi; TAKASE, Ichiro; MASUDA, Kohei; SUGINOME, Michinori
- 4F1-04<sup>†</sup>** Palladium-Catalyzed Reaction of (Aminosilyl)boronic Esters with Alkenylindoles (Kyoto Univ.) OHMURA, Toshimichi; MASUDA, Kohei; SUGINOME, Michinori
- 4F1-05** Palladium-Catalyzed Allylation Reaction of Aryl Halides with Homoallyl Alcohols (Grad. Sch. Eng., Kyoto Univ.) WAKABAYASHI, Ryota; FUJINO, Daishi; HAYASHI, Sayuri; YORIMITSU, Hideki; OSHIMA, Koichiro
- 4F1-06** Palladium-Catalyzed Intramolecular Carboacetoxylation of 4-Pentenyl-Substituted Malonate Esters (Grad. Sch. Eng., Kyoto Univ.) FUJINO, Daishi; YORIMITSU, Hideki; OSHIMA, Koichiro

Chair: FUJIHARA, Tetsuaki (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4F1-08, 4F1-09, 4F1-10, 4F1-11, 4F1-13)
- 4F1-08** Palladium-Catalyzed [4+2] Cycloaddition of *o*-(Silylmethyl)benzyl Esters with Ketones (Kyushu Univ.) OHTSUBO, Masakazu; UENO, Satoshi; KUWANO, Ryoichi
- 4F1-09** Synthesis of 3,3-Disubstituted Oxindoles Using Palladium-Catalyzed [1,3] Rearrangement (Faculty of Engineering, Kyoto Univ.) MIKANO, Yusuke; TOYOSHIMA, Takeharu; MIURA, Tomoya; MURAKAMI, Masahiro
- 4F1-10<sup>†</sup>** Pd-catalyzed Novel Three-Component [3+2] Cycloaddition of Propargyl Trifluoroacetates, Ethylidene Malonitrile, and Allyltributylstannane (Graduate School of Science, Tohoku Univ.) LU, Shirong; JIN, Tianan; YAMAMOTO, Yoshinori
- 4F1-11\*** Synthesis of C<sub>3</sub> Symmetric *syn*-Tris(norborneno)benzenes through Palladium-Catalyzed Cyclotrimerization Reaction (Institute for Molecular Science) HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro
- 4F1-13** Synthesis of cyclic allenes and allenophanes by palladium-catalyzed cyclization (Catalysis Research Center, Hokkaido Univ.) OGASAWARA, Masamichi; ICHIO, Hiroaki; TAKAHASHI, Tamotsu

Chair: OHMURA, Toshimichi (11 : 20~12 : 30)

- \* 11:10-11:20: interval for laptop PC connection.(4F1-15, 4F1-16, 4F1-17, 4F1-18, 4F1-19, 4F1-20, 4F1-21)
- 4F1-15** Palladium-Catalyzed Decarboxylative [4 + 3] Cyclization of  $\gamma$ -Methylidene- $\delta$ -valerolactones with 1,1-Dicyanocyclopropanes (Kyoto Univ.) SHINTANI, Ryo; MURAKAMI, Masataka; TSUJI, Takaoki; TANNO, Hideyuki; HAYASHI, Tamio
- 4F1-16\*** Palladium-Catalyzed Decarboxylative Hydrogenolysis of Propargylic Formates: Ligand-Controlled Selective Synthesis of Allenes and Alkynes (Dept. Chem., Fac. Sci., Hokkaido Univ.) YANG, Mingyu; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 4F1-17** Dimerization of ( $\alpha$ -(trimethylsilyl)- $\pi$ -allyl)palladium species (Univ. of Toyama) HORINO, Yoshikazu; MURATA, Yasuno; NAKASHIMA, Yuichi; KURODA, Shigeyasu
- 4F1-18** Pd catalyzed Addition of Carboxylic Acids to Butadiene Monooxide (Dept. of Chemistry, Kyushu Univ.) MARUTA, Shuhei; HAMASAKI, Akiyuki; NAKAMURA, Aki; TOKUNAGA, Makoto
- 4F1-19** Pd catalyzed Oxidation of Alcohols using Nitrite esters as an oxidant (Dept. of Chemistry, Kyushu Univ.) KUWADA, Hideyuki; HAMASAKI,

Akiyuki; TOKUNAGA, Makoto

- 4F1-20** Surfactant-free synthesis of sub-nanometer-sized platinum and palladium nanoclusters and their use in catalysis (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) HYOTANISHI, Megumi; NISHINO, Junichi; YAMAMOTO, Hiroko; KAWASAKI, Hideya; OBORA, Yasushi
- 4F1-21** Lewis acid catalyzed synthesis of multi-substituted aromatic compounds from acetals (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; ORDIST, Kansai Univ.) HORIKAWA, Norihide; MAEDA, Sayuki; OBORA, Yasushi; ISHII, Yasutaka

## Room F2

Bldg.17 17-103

### Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

Friday, March 26, AM

Ru

Chair: YAMAMOTO, Yasunori (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(1F2-01, 1F2-02, 1F2-03, 1F2-04, 1F2-05, 1F2-06)
- 1F2-01** Asymmetric Cyanosilylation of  $\alpha$ -Keto Esters Catalyzed by the [Ru(phgly)<sub>2</sub>(binap)]-C<sub>6</sub>H<sub>5</sub>OLi system (Hokkaido Univ.) KURONO, Nobuhito; UEMURA, Masato; OHKUMA, Takeshi
- 1F2-02** Hydrogenative DKR of Racemic Esters with Chiral Bifunctional Cp\**Ru*(amine) Catalysts (Graduate School of Sci. and Eng., Tokyo Inst. of Tech.; IMCE, Kyushu Univ.) WATARI, Ryo; OTSUKA, Takashi; ITO, Masato; IKARIYA, Takao
- 1F2-03** Regioselective Asymmetric Allylation Catalyzed by a Planar-Chiral Cyclopentadienyl-Ruthenium Complex (Graduate School of Science, Osaka Univ.) KANBAYASHI, Naoya; TAKII, Kouichirou; ONITSUKA, Kiyotaka
- 1F2-04** Practical Asymmetric Hydrogenation of 3-Quinuclidinone Catalyzed by the XylSkewphos/PICA-Ruthenium(II) Complex (Hokkaido Univ.; Kanto Chemical Co., Inc.) OHKUMA, Takeshi; TSUTSUMI, Kunihiko; KATAYAMA, Takeaki; UTSUMI, Noriyuki; MURATA, Kunihiko; ARAI, Noriyoshi; KURONO, Nobuhito
- 1F2-05** The Effect of Chiral Alcohol on Chiral (Phebox)*Ru*-catalyzed Hydrogenation of Ketones. (Nagoya Univ.) TESHIMA, Tomoki; ITO, Jun-ichi; NISHIYAMA, Hisao
- 1F2-06** BINAN-Py-PPh<sub>2</sub>, A NNP-type Tridentate Ligand-DMSO Effect on Asymmetric Hydrogenation by Use of Ru Catalyst- (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) NAKATSUKA, Hiroshi; TANAKA, Shinji; KITAMURA, Masato

Chair: ONITSUKA, Kiyotaka (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1F2-08, 1F2-09, 1F2-10, 1F2-11, 1F2-12, 1F2-13)
- 1F2-08** Asymmetric Addition of Arylboronic Acids to  $\alpha$ -Ketoesters Catalyzed by Ruthenium/Me-BIPAM Complex (Graduate School of Engineering, Hokkaido Univ.) SHIRAI, Tomohiko; KURIHARA, Kazunori; YAMAMOTO, Yasunori; MIYAURA, Norio
- 1F2-09** Synthesis of Late Transition Metal Complexes of Phenylloxazolines and their Applications to Catalytic Asymmetric Carbene Transfer Reactions (Toyoohashi Univ. of Technology) SENZAKI, Tatsuya; PHOMKEONA, Kesiny; SHIBATOMI, Kazutaka; IWASA, Seiji
- 1F2-10** Catalytic Asymmetric Dehydrative Cyclization of  $\omega$ -Hydroxy Allyl Alcohols (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) SEKI, Tomoaki; TANAKA, Shinji; KITAMURA, Masato
- 1F2-11** Intramolecular [3+2] cycloaddition of terminal dienes using Grubbs reagent (Dept. Chem., Grad. Sch., Hiroshima Univ.) YAMAMOTO, Koumei; TAKAGI, Ryukichi; ABE, Manabu
- 1F2-12** *Ru*-catalyzed S<sub>N</sub>Ar Reaction of Nonactivated Fluoroarenes with Amines (Waseda Univ.) OTSUKA, Maiko; ENDO, Kohei; SHIBATA, Takanori
- 1F2-13** A High-Yielding Tandem Hydroformylation/Hydrogenation of Terminal Olefin to Produce Linear Alcohol Using Rh/Ru Dual Catalyst System (The Univ. of Tokyo, Graduate School of Engineering) TAKAHASHI, Kohei; YAMASHITA, Makoto; ICHIHARA, Takeo; NAKANO, Kouji; NOZAKI, Kyouko

Chair: KAMBE, Nobuaki (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(1F2-15)
- 1F2-15** CSJ Award for Creative Works Development of Precision Radical Reactions Exploiting Reactivities of Heteroatom Compounds (Inst. Chem. Res., Kyoto Univ.) YAMAGO, Shigeru

Friday, March 26, PM

Pd

Chair: ITAMI, Kenichiro (13:30~14:40)

- \* 13:20-13:30: interval for laptop PC connection.(1F2-28, 1F2-29, 1F2-30, 1F2-31, 1F2-32, 1F2-34)
- 1F2-28** Pd-Catalyzed allylic alkylation of indoles with conjugated dienes promoted by triethylborane (Nagasaki Univ.) KUWAHARA, Hikari; KOHNO, Tomohiko; KIMURA, Masanari
- 1F2-29** Synthesis of lactone and lactam by Pd-Catalyzed nucleophilic allylation of vinylcyclopropane (Grad. Sch. Sci. Technol., Nagasaki Univ.) YAMAGUCHI, Yumi; HUCHIGAMI, Akemi; KIMURA, Masanari
- 1F2-30** Pd-Catalyzed reductive coupling reaction of conjugated dienes and aldehydes promoted by triethylborane (Nagasaki Univ.) FUKUSHIMA, Masahiro; TOHYAMA, Katsumi; KIMURA, Masanari
- 1F2-31** Palladium-catalyzed addition of silyl-substituted haloalkynes to terminal alkynes (Grad. Sch. Eng., Kyoto Univ.) WADA, Tatsuya; KONDOH, Azusa; YORIMITSU, Hideki; OSHIMA, Koichiro
- 1F2-32\*** Synthesis of 2-indolylphosphines by palladium-catalyzed reactions of 1-alkynylphosphine sulfides with 2-iodoanilines (Grad. Sch. Eng., Kyoto Univ.) KONDOH, Azusa; YORIMITSU, Hideki; OSHIMA, Koichiro
- 1F2-34** Synthesis of conjugated diene by decarboxylation of 3-hydroxy-4-pentenoic acid (Nagasaki Univ.) KOHNO, Tomohiko; KIMURA, Masanari

Chair: KIMURA, Masanari (14:50~16:00)

- \* 14:40-14:50: interval for laptop PC connection.(1F2-36, 1F2-38, 1F2-39, 1F2-40, 1F2-41, 1F2-42)
- 1F2-36\*** Palladium-Bidentate Phosphine-Phosphinic acid-Catalyzed High Selective Addition Reaction to Alkynes with Alkylphosphine Oxide. (Chemical Resources Laboratory, Tokyo Institute of Technology) KANADA, Jun; TANAKA, Masato
- 1F2-38** Pd-Complex-Catalyzed Addition Reactions of Thiophosphinate to Terminal Alkynes (Chemical Resources Laboratory, Tokyo Institute of Technology) HOSHI, Nobutaka; KASHIWABARA, Taigo; TANAKA, Masato
- 1F2-39** Asymmetric Hydrosilylation Using a Chiral Polymer Ligand: Switch of Enantioselection by the Reversible Helix Inversion (Kyoto Univ.) YAMAMOTO, Takeshi; SUGINOME, Michinori
- 1F2-40** Synthesis of Novel Chiral Ligands Based on Spirobilactam (ISIR, Osaka Univ.) SUGIMOTO, Keisuke; TAKENAKA, Kazuhiro; SASAI, Hiroaki
- 1F2-41** Chlorinative Cyclization by Enantioselective Pd(II)/Pd(IV) Catalysis (ISIR, Osaka Univ.) HASHIMOTO, Shintaro; CHENNAN, Ramalingan; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 1F2-42** Enantioselective Synthesis of  $\gamma$ -Lactones via Intramolecular Wacker-type Cyclization Catalyzed by Pd-SPRIX (ISIR, Osaka Univ.) AKITA, Mitsutoshi; TANIGAKI, Yugo; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki

Chair: AIKAWA, Kohsuke (16:10~17:20)

- \* 16:00-16:10: interval for laptop PC connection.(1F2-44, 1F2-46, 1F2-47, 1F2-48, 1F2-49, 1F2-50)
- 1F2-44\*** Enantioselective Wacker-type Cyclization of  $\alpha$ -Alkenyl- $\beta$ -Diketones Catalyzed by Palladium-Spiro Bis(isoxazoline) Complex (ISIR, Osaka Univ.) MOHANTA, Suman Chandra; PATIL, Mahesh L.; RAO, Cilamkoti Venkat Laxman; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SUZUKI, Takeyuki; SASAI, Hiroaki
- 1F2-46** Active and Storable Palladium(II) Precatalyst Based on Di-cyclohexylruthenocenylophosphine (CyR-Phos) and its Application to Suzuki-Miyaura Reaction (Faculty of Eng., Niigata Univ.; Grad. School of Sci. and Tech., Niigata Univ.) HOSHI, Takashi; HONMA, Tomonobu; MORI, Ayako; SUZUKI, Toshio; HAGIWARA, Hisahiro
- 1F2-47** Palladium-catalyzed asymmetric synthesis of axially chiral unfunctionalized alkylallenes (Catalysis Research Center, Hokkaido Univ.) OGASAWARA, Masamichi; MURAKAMI, Hidetoshi; TAKAHASHI, Tamotsu
- 1F2-48** Palladium/Josiphos Complex Catalyzed Asymmetric Arylation of Silyl Ketene Acetals (Graduate School of Engineering, Hokkaido Univ.) KOBAYASHI, Kenya; YAMAMOTO, Yasunori; MIYAURA, Norio
- 1F2-49** Rapid Screening for Asymmetric Catalysts: Efficient Connection of Two Different Catalytic Asymmetric Reactions. (Chiba Univ.) AKASHI, Naohisa; TOYOSHIMA, Takeharu; YOSHIDA, Kazuhiro; IMAMOTO, Tsuneo; YANAGISAWA, Akira
- 1F2-50** Regioselective synthesis of optically active fluorinated allylic amines via Palladium-catalyzed allylic amination (Tottori Univ.) HIRAKAWA, Takuya; IKEDA, Kazunori; KAWATSURA, Motoi; ITOH, Toshiyuki

Chair: TAKIZAWA, Shinobu (17:30~18:40)

- \* 17:20-17:30: interval for laptop PC connection.(1F2-52, 1F2-53, 1F2-54, 1F2-55, 1F2-56, 1F2-57)
- 1F2-52<sup>†</sup>** Asymmetric Allylic Alkylation Reaction Catalyzed by Chiral Bidentate NHC-Pd Complexes Having *o*-Xylylene Framework (Yokohama Natl. Univ.) ANEZAKI, Satoshi; YAMAGUCHI, Yoshitaka; ASAMI, Masatoshi

- 1F2-53** Synthesis of C-N Axial Chiral Adamantylamine and Its Application to Palladium-Catalyzed Asymmetric Alkylation (Chiba Univ.) MINO, Takashi; YAMADA, Haruka; KASAI, Mizuki; INOUE, Chihiro; SAKAMOTO, Masami; FUJITA, Tsutomu
- 1F2-54** The rational design of chiral ligand based on the theoretical calculation: application to the Pd-catalyzed asymmetric allylic alkylation of the cyclic substrate. (Rikkyo Univ.) YANAGISAWA, Sayoko; YAMANAKA, Masahiro
- 1F2-55** Chirality Control of Metal Complexes bearing BIPHEP Derivatives and its Substituent Effect on Asymmetric Catalysis (Graduate School of Science and Engineering, Tokyo Institute of Technology) MIYAZAKI, Yoshitaka; AIKAWA, Kohsuke; MIKAMI, Koichi
- 1F2-56** Asymmetric Arylation and Alkenylation by Chiral Cationic Pd Catalysts (Graduate School of Science and Engineering, Tokyo Institute of Technology) HIOKI, Yuta; AIKAWA, Kohsuke; MIKAMI, Koichi
- 1F2-57\*** Direct synthesis of poly functionalized heteroaromatics by using cationic Pd complex (Dept. Chem., Fac. Eng., Gifu Univ.) YAMAGUCHI, Eiji; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

## Saturday, March 27, AM

## Rh

Chair: HIRANO, Koji (9:00 ~ 10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2F2-01, 2F2-02, 2F2-03, 2F2-04, 2F2-05, 2F2-06)
- 2F2-01** Rhodium-Catalyzed Arylzincation of Terminal Allenes (Grad. Sch. Eng., Kyoto Univ.) YOSHIDA, Yuji; MURAKAMI, Kei; YORIMITSU, Hideki; OSHIMA, Koichiro
- 2F2-02** Rhodium-Catalyzed Cross-Coupling of Vinyl Ethers with Organozinc Reagents or Grignard Reagents (Graduate School of Engineering, Osaka Univ.) MIYATA, Yoshinori; FUJII, Yuuki; IWASAKI, Takanori; KUNYASU, Hitoshi; KAMBE, Nobuaki
- 2F2-03** Rhodium-Catalyzed Cine-Selective Cross-Coupling of Alkenyl Acetates with Organoboron Compounds (Kyushu Univ.) YU, Jung-yi; KUWANO, Ryoichi
- 2F2-04** Metal-Catalyzed phosphinyl ester forming reaction of alcohols with diphosphine disulfides (Tohoku Univ.) ARISAWA, Mieko; YAMAGUCHI, Masahiko
- 2F2-05** The substituent effect of thioalkynes on the single bond metathesis reaction of thioalkyne C-S bond and diphosphine P-P bond (Tohoku Univ.) ARISAWA, Mieko; WATANABE, Takuya; YAMAGUCHI, Masahiko
- 2F2-06** Generation of Thienylcarbene Complexes and Catalytic Carbene Transfer Reactions (Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto Univ.) TSUNEISHI, Asuka; OKAMOTO, Kazuhiro; OHE, Kouichi

Chair: MIKI, Koji (10:10 ~ 11:10)

- \* 10:00-10:10: interval for laptop PC connection.(2F2-08, 2F2-09, 2F2-10, 2F2-11, 2F2-12, 2F2-13)
- 2F2-08** Study of the Effect of the Substituents in the Rhodium(I)-Catalyzed Reaction for the Synthesis of Benzosiloles via C-Si Bond Cleavage (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; ONOE, Masahiro; BABA, Katsuaki; CHATANI, Naoto
- 2F2-09** Catalytic Synthesis of 9-Silafluorenes via Cleavage of Unactivated Bonds (Okayama Univ.) URESHINO, Tomonari; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 2F2-10** Silole Formation from Disilanes and Alkynes Catalyzed by a Rhodium Complex (Tokyo Univ. of Science) FUJISAKI, Yosuke; SUDA, Yuya; MATSUDA, Takanori
- 2F2-11** Rhodium-Catalyzed Oxidative Coupling of Acrylic Acids with Unsaturated Compounds (Faculty of Engineering, Osaka Univ.) MOCHIDA, Satoshi; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 2F2-12** Synthesis of Highly Substituted Naphthalene and Anthracene Derivatives by Rhodium-Catalyzed Oxidative Coupling of Arylboronic Acids with Alkynes (Faculty of Engineering, Osaka Univ.) FUKUTANI, Tatsuya; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 2F2-13** Rhodium-Catalyzed Oxidative Coupling of 2-Phenylindoles with Internal Alkynes (Faculty of Engineering, Osaka Univ.) MORIMOTO, Keisuke; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

Chair: MURAKAMI, Masahiro (11:20 ~ 12:10)

- \* 11:10-11:20: interval for laptop PC connection.(2F2-15, 2F2-16, 2F2-17)
- 2F2-15** Rhodium-Catalyzed Intramolecular Hydrosilylation of Unsaturated Silyl Ethers Derived from Tertiary Allylic Alcohols (Kyoto Univ.) OHMURA, Toshimichi; KUCHIDA, Kenta; SUGINOME, Michinori
- 2F2-16** Rhodium-Catalyzed Coupling between Propargylic Carbonates and a Silylboronate: Synthesis of Optically Active Allenylsilanes (Dept. Chem., Fac. Sci., Hokkaido Univ.) ITO, Hideto; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 2F2-17** CSJ Award for Young Chemists Development of Catalytic Substitution Reactions through Carbon-Oxygen, Carbon, or Silicon Bond Cleavage (Grad. Sch. Eng., Osaka Univ.) TOBISU, Mamoru

## Saturday, March 27, PM

## Cu

Chair: ITO, Hajime (14:30 ~ 15:30)

- \* 14:20-14:30: interval for laptop PC connection.(2F2-34, 2F2-35, 2F2-36, 2F2-37, 2F2-38, 2F2-39)
- 2F2-34** Copper-Catalyzed Asymmetric Addition of Arylboronates to Isatins (Grad. Sch. Sci., Kyoto Univ.) SHINTANI, Ryo; TAKATSU, Keishi; HAYASHI, Tamio
- 2F2-35** Metal-linked Ligand for Highly Efficient Cu-catalyzed Asymmetric Conjugate Addition Reaction of Organoaluminum Reagents (Waseda Univ.) OGAWA, Mika; ENDO, Kohei; SHIBATA, Takanori
- 2F2-36** A New Approach to Inversion of Stereoselectivity with Metal-Linked Ligand in Cu-Catalyzed Asymmetric Conjugate Addition of Organozinc Reagents (Waseda Univ.) HAMADA, Daisuke; OGAWA, Mika; ENDO, Kohei; SHIBATA, Takanori
- 2F2-37** Asymmetric conjugate addition of organozinc species by NHC-Cu catalyst derived from  $\alpha$ -amino acids (Kansai Univ.) SHIBATA, Naoatsu; OKAMOTO, Masaki; SAKAGUCHI, Satoshi
- 2F2-38** Copper-catalyzed Enantioselective Conjugate Addition of Enones with Trimethylaluminum (Fukuoka Univ. of Education) ITO, Katsuji; NAKAYAMA, Yuki; SUETO, Chieko
- 2F2-39** Synthesis of Optically Active Imidazolium and Pyridinium Salts by using Allylic Substitution of Allylic Pivalates with Organocoppers (Department of Biomolecular Engineering; Tokyo Institute of Technology) KIYOTSUKA, Yohei; KOBAYASHI, Yuichi

Chair: ENDOU, Kouhei (15:40 ~ 16:40)

- \* 15:30-15:40: interval for laptop PC connection.(2F2-41, 2F2-43, 2F2-44, 2F2-46)
- 2F2-41\*** Development of  $\alpha$ - and  $\gamma$ -selective propargylic substitution by using arylcopper reagents. (Department of Biomolecular Engineering; Tokyo Institute of Technology) TAKASHIMA, Yuji; KOBAYASHI, Yuichi
- 2F2-43** Synthesis of (S)-Nyasol by Using  $\alpha$  Selective  $S_N2$  Substitution Reaction of Propargylic Alcohol Derivative (Department of Biomolecular Engineering; Tokyo Institute of Technology) HIROTSU, Takayuki; TAKASHIMA, Yuji; KOBAYASHI, Yuichi
- 2F2-44\*\*†** Monoborylation of 1,3-Dienes with Chiral Cu(I) Catalyst: Selective Synthesis of Optically Active Homoallyl- and Allylboronates (Dept. Chem., Fac. Sci., Hokkaido Univ.; PREST, JST) SASAKI, Yusuke; ITO, Hajime; SAWAMURA, Masaya
- 2F2-46** Cu(I)-catalyzed Regioselective Monoborylation of Unsaturated Compounds (Dept. Chem., Fac. Sci., Hokkaido Univ.; PREST, JST) HORITA, Yuko; SASAKI, Yusuke; ITO, Hajime; SAWAMURA, Masaya

Chair: SHINTANI, Ryo (16:50 ~ 17:20)

- \* 16:40-16:50: interval for laptop PC connection.(2F2-48, 2F2-49, 2F2-50)
- 2F2-48†** Copper-Catalyzed Diastereo- and Enantioselective Sequential Reactions of Propargylic Acetates with (*E*)-2,4-Pentadienylamine (School of Engineering, The Univ. of Tokyo) HATTORI, Gaku; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 2F2-49** Collaborative Asymmetric Synthesis Using Organocatalysts and Transition Metal Catalysts: Organo- and Copper-Catalyzed Enantioselective Propargylic Substitution Reactions (School of Engineering, The Univ. of Tokyo) YOSHIDA, Akiko; IKEDA, Masahiro; HATTORI, Gaku; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 2F2-50** Synthesis of Hydroxylated Pyrrolidine and Piperidine Derivatives by Copper(I)-Catalyzed Intramolecular Hydroamination of Alkenes (Dept. Chem., Fac. Sci., Hokkaido Univ.) YOSHIDA, Mika; OHMIYA, Hirohisa; SAWAMURA, Masaya

## Sunday, March 28, AM

## Ni

Chair: NAKAO, Yoshiaki (9:00 ~ 10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3F2-01, 3F2-02, 3F2-03, 3F2-04, 3F2-05, 3F2-06)
- 3F2-01** Nickel-Catalyzed Reductive Cleavage of Carbon-Oxygen Bond of Anisoles (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; YAMAKAWA, Ken; SHIMASAKI, Toshiaki; CHATANI, Naoto
- 3F2-02** Nickel-Catalyzed Amination of Phenyl Pivalates via Carbon-Oxygen Bond Cleavage (Faculty of Engineering, Osaka Univ.) SHIMASAKI, Toshiaki; TOBISU, Mamoru; CHATANI, Naoto
- 3F2-03** Nickel-Catalyzed Three-Component Reaction between Two Molecules of Terminal Silylacetylene and Norbornene Derivative (Faculty of Science and Engineering, Chuo Univ.) ATSUIIMI, Yuka; SUGASAWA, Jun; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 3F2-04** Nickel-Catalyzed Three-Component Reaction between Two Distinct Alkynes and Norbornene (Faculty of Science and Engineering, Chuo Univ.) OGATA, Kenichi; SUGASAWA, Jun; ATSUIIMI, Yuka; FUKUZAWA, Shin-ichi
- 3F2-05** Nickel-Catalyzed Direct Arylation and Alkenylation of Azoles with



Organosilicon Reagents (Faculty of Engineering, Osaka Univ.) HACHIYA, Hitoshi; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro  
**3F2-06** Nickel-Catalyzed Direct Alkynylation of Azoles with Alkynyl Bromides (Faculty of Engineering, Osaka Univ.) MATSUYAMA, Naoto; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

Chair: TOBISU, Mamoru (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3F2-08, 3F2-09, 3F2-11, 3F2-12, 3F2-13)  
**3F2-08** Synthesis of Monocyclic Compounds by the Nickel-Catalyzed [4+3+2] Cycloaddition (Faculty of Science, Tokyo Univ. of Science) KATO, Korehito; YAMASAKI, Ryu; SAITO, Shinichi  
**3F2-09\*** Ni-Catalyzed [4+3+2] cocyclization between dienyne and methylenecyclopropane; importance of structure of dienyne (Tokyo Univ. of Sci.) YAMASAKI, Ryu; MAEDA, Kyotaro; KITAMURA, Takuya; NAKAGAWA, Minami; KATO, Korehito; MASU, Hyuma; AZUMAYA, Isao; SAITO, Shiichi  
**3F2-11** Ni(0)-catalyzed selective [3+3] Cyclodimerization of methylenecyclopropane derivatives (Faculty of Engineering, Osaka Univ.) TANIGUCHI, Tomoaki; OHASHI, Masato; SAITO, Shinichi; OGOSHI, Sensuke  
**3F2-12** Ni(0)-catalyzed Cyclocondensation of Alkyne, Aldehyde and Al-Me<sub>3</sub> (Faculty of Engineering, Osaka Univ.) SAIJO, Hiroki; ARAI, Tomoya; OHASHI, Masato; OGOSHI, Sensuke  
**3F2-13** Coupling Reactions of Tetrafluoroethylene involving C-F bond activation. (Graduate School of Engineering, Osaka Univ.) KAMBARA, Tadashi; OHASHI, Masato; OGOSHI, Sensuke

Chair: KURAHASHI, Takuya (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3F2-15, 3F2-16, 3F2-18, 3F2-19)  
**3F2-15** Nickel/Lewis acid-catalyzed Hydroarylation of Vinylarenes (Grad. Sch. Eng., Kyoto Univ.) NAKAO, Yoshiaki; KASHIHARA, Natsuko; KANYIVA, Kyalo S.; HIYAMA, Tamejiro  
**3F2-16\*** Nickel-Catalyzed Regioselective Direct Arylation Reaction of N-Heteroarematocs Using Rrylzinc Reagents (Osaka Univ.) TOBISU, Mamoru; HYODO, Isao; CHATANI, Naoto  
**3F2-18** Ni-Catalyzed Defluoroalkylative Cyclization of Difluoroenyne (Faculty of Engineering, Osaka Univ.) TAKACHI, Manabu; CHATANI, Naoto  
**3F2-19\*** Nickel-Catalyzed Enantioselective Hydroalkynylation of 1,3-Dienes (Kyoto Univ.) SUGINOME, Michinori; SHIRAKURA, Masamichi

## Sunday, March 28, PM

### Pd

Chair: SAWAMURA, Masaya (13 : 30~14 : 40)

- \* 13:20-13:30: interval for laptop PC connection.(3F2-28, 3F2-29, 3F2-30, 3F2-31, 3F2-32)  
**3F2-28** Palladium-catalyzed hydroesterification of alkynes with formates (Grad. Sch. Eng., Kyoto Univ.) KATAFUCHI, Yuko; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi  
**3F2-29** Palladium-catalyzed Oxidative Coupling Reaction of Silylacetylenes and Alkylacetylenes (Shizuoka Univ.) SATO, Shunsuke; TSUKADA, Naofumi  
**3F2-30** Oxidative Aryl Coupling Reaction of Heteroarenes with Arylsilicon Reagents Catalyzed by Palladium Complexes (Tohoku Univ.) FUNAKI, Kenji; KAWAI, Hiroshi; SATO, Tetsuo; OI, Shuichi  
**3F2-31** Palladium-Catalyzed Oxidative Functionalization at the  $\beta$ -Position of Alkyl Ketones (Kyushu Univ.) UENO, Satoshi; MAEDA, Ryohei; KUWANO, Ryoichi  
**3F2-32** Young Scholar Lectures of CSJ Development of Highly Active Homogeneous Catalysts by New Modification Methods (Grad. Sch. Eng., Kyoto Univ.) FUJIHARA, Tetsuaki

Chair: UENO, Satoshi (14 : 50~16 : 00)

- \* 14:40-14:50: interval for laptop PC connection.(3F2-36, 3F2-37, 3F2-38, 3F2-39, 3F2-40, 3F2-41, 3F2-42)  
**3F2-36** Mechanistic Studies on Palladium-Catalyzed  $\gamma$ -Selective Allyl-Aryl Coupling between Allylic Acetates and Arylboronic Acids (Dept. Chem., Fac. Sci., Hokkaido Univ.) MAKIDA, Yusuke; OHMIYA, Hirohisa; SAWAMURA, Masaya  
**3F2-37\*** Synthesis of *gem*-Diaryllalkanes by Palladium-Catalyzed  $\gamma$ -Selective and Stereospecific Allyl-Aryl Coupling (Dept. Chem., Fac. Sci., Hokkaido Univ.) LI, Dong; OHMIYA, Hirohisa; SAWAMURA, Masaya  
**3F2-38** Pd/ClickFerrophos Complexes for Suzuki-Miyaura Cross-Coupling Reactions (Faculty of Science and Engineering, Chuo Univ.) HAGA, Masatake; OGATA, Ken-ichi; FUKUZAWA, Shin-ichi  
**3F2-39** Synthesis of Novel Abnormal NHC-Palladium complexes and Its Application to Suzuki-Miyaura Cross Coupling Reaction (Faculty of Science and Engineering, Chuo Univ.) NAKAMURA, Tatsuhiro; OGATA, Kenichi; FUKUZAWA, Shin-ichi  
**3F2-40** Development of N-heterocyclic carbene ligands bearing ethylene glycol chains and effects of chain length in Suzuki-Miyaura coupling reaction (Grad. Sch. Eng., Kyoto Univ.) YOSHIKAWA, Takahiro; YOSHIDA, Shohei;

- OHTA, Hidetoshi; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi  
**3F2-41** Transformation of organic molecules on the gold nanoparticles by cross-coupling reactions (Kobe Univ.) KUMAZAWA, Kenta; HATTA, Tomomi; SUGIE, Atsushi; KANIE, Kiyoshi; MURAMATSU, Atsushi; MORI, Atsunori  
**3F2-42\*** An Efficient Approach for the Synthesis of ortho-Tetra-substituted Biaryls using Aryltriolborates. (Graduate School of Engineering, Hokkaido Univ.) LI, Gao-qiang; YAMAMOTO, Yasunori; MIYAUURA, Norio

Chair: OHMIYA, Hirohisa (16 : 10~17 : 20)

- \* 16:00-16:10: interval for laptop PC connection.(3F2-44, 3F2-45, 3F2-46, 3F2-47, 3F2-48, 3F2-49, 3F2-50)  
**3F2-44** Transformation of Benzyl Benzoates into Diarylmethanes through Palladium-Catalyzed Decarboxylation (Kyushu Univ.) MATSUMOTO, Yasuhiro; KUWANO, Ryoichi  
**3F2-45** C-C bond formation catalyzed by heterogeneous Palladium-containing perovskite (2) Fujiwara-type coupling (Faculty of Engineering, Okayama Univ. of Science) MORIKAWA, Hiroyuki; YAMASAKI, Takuya; YAMADA, Mitsuhiro; KANEKO, Kimiyoshi; NOKAMI, Junzo; MURAHASHI, Shun-ichi  
**3F2-46** Palladium Catalyzed Alkylation Reaction of Alkynylborates Having 9-BBD Framework (Grad. Sch. Eng., Kyoto Univ.) SAWANO, Shota; ISHIDA, Naoki; MURAKAMI, Masahiro  
**3F2-47** Rapid and Concise Synthesis of Oligo(phenylene vinylene)s Having Tetrasubstituted Olefin Moieties. (Grad. Sch. Eng., Kyoto Univ.) SHIMAMOTO, Yasuhiro; ISHIDA, Naoki; MURAKAMI, Masahiro  
**3F2-48** Synthesis of Pyridine-N-oxide-Borane Complexes by Palladium-Catalyzed Reaction of Alkynyltriarylborates with 2-Bromopyridine-N-oxides (Grad. Sch. Eng., Kyoto Univ.) IKEMOTO, Wataru; NARUMI, Mizuna; ISHIDA, Naoki; MURAKAMI, Masahiro  
**3F2-49** Cu-free Sonogashira Reaction Using Rigid Bidentate Ligand with Thiophene Rings (Osaka Pref. Univ.) ATOBE, Shingo; SONODA, Motohiro; YAMAMOTO, Takuya; OGAWA, Akiya  
**3F2-50** Catalytic Oxidative Dimerization of Terminal Alkynes Using Rigid Bidentate Ligand with Hetero-aromatic Rings (Osaka Pref. Univ.) YAMAMOTO, Takuya; SONODA, Motohiro; ATOBE, Shingo; SUZUKI, Yuki; OGAWA, Akiya

Chair: ISHIDA, Naoki (17 : 30~18 : 40)

- \* 17:20-17:30: interval for laptop PC connection.(3F2-52, 3F2-53, 3F2-54, 3F2-55, 3F2-56, 3F2-57, 3F2-58)  
**3F2-52** Iterative Suzuki-Miyaura Coupling of Divalent Oligoarenes as AB-type Monomers Bearing a Masked Boronyl Group (Kyoto Univ.) SUGINOME, Michinori; TAKAHASHI, Hikaru  
**3F2-53** Selective Synthesis of Multiply Substituted Aromatic Compounds via Iterative Cross-Coupling Using a Masked Arylboronic Acids Bearing Intramolecular Activating Group (Kyoto Univ.) SHOMIZU, Katsuya; SHIODA, Takayuki; SUGINOME, Michinori  
**3F2-54** Ruthenium-Catalyzed Ortho-C-H Silylation of Arylboronic Acid Using Anthranilamide as an Easily Detachable and Attachable Directing Agent (Kyoto Univ.) KOYANAGI, Masashi; IHARA, Hideki; SUGINOME, Michinori  
**3F2-55** Palladium-catalyzed Suzuki-Miyaura Cross-Coupling Reaction Using Flow Microreactor Systems (Kyoto Univ.) TAKABAYASHI, Naofumi; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi  
**3F2-56** Catalytic Activation of Boron-Chlorine Bond : Palladium-Catalyzed Cyclizative Carboboration Using Alkenes as the Source of Organic Groups (Kyoto Univ.) NAKADA, Kanayo; SUGINOME, Michinori  
**3F2-57** Differentially Protected Diboron for Regioselective Catalytic Diboration of Alkynes (Kyoto Univ.) SUGINOME, Michinori; IWADATE, Noriyuki  
**3F2-58<sup>†</sup>** Highly Stereo-Retentive Suzuki-Miyaura Coupling of Optically Active ( $\alpha$ -Amide)benzylboronic Esters with Aryl Halides (Kyoto Univ.) OHMURA, Toshimichi; AWANO, Tomotsugu; SUGINOME, Michinori

## Monday, March 29, AM

### Rh

Chair: OKAMOTO, Kazuhiro (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4F2-01, 4F2-02, 4F2-03, 4F2-04, 4F2-05, 4F2-06)  
**4F2-01<sup>†</sup>** Rhodium-Catalyzed Enantioselective Intramolecular [2 + 2 + 2] Cycloaddition of 1,3-Dicarbonyl Compounds with 1,6-Enynes (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) SUDA, Takeshi; TANAKA, Ken  
**4F2-02** Synthesis of Axially Chiral Biaryl Bisphosphine Ligand by Rhodium-Catalyzed Intramolecular Double [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) MORI, Fumiya; FUKAWA, Naohiro; TANAKA, Ken  
**4F2-03** Synthesis of Axially Chiral 1-Arylisoquinoline Derivatives by Rhodium-Catalyzed [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) SAKIYAMA, Norifumi; HOJO, Daiki; TANAKA, Ken

- 4F2-04** Rhodium-catalyzed esterification reaction of acid fluorides under base-free conditions (Tohoku Univ.) ARISAWA, Mieko; BANDO, Kentaro; YAMAGUCHI, Masahiko
- 4F2-05** Rhodium-catalyzed benzofuran cyclization reaction of ketones and *o*-difluorobenzenes (Tohoku Univ.) ARISAWA, Mieko; NAKANE, Soichiro; YAMAGUCHI, Masahiko
- 4F2-06** Rhodium-Catalyzed Amination Reaction of Fluorobenzenes (Tohoku Univ.) ARISAWA, Mieko; KOIZUMI, Yasuhiro; YAMAGUCHI, Masahiko

Chair: KASHIWABARA, Taigo (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4F2-08, 4F2-09, 4F2-10, 4F2-11, 4F2-12, 4F2-13)
- 4F2-08** Rhodium(I)-catalyzed preparation of  $\gamma$ -pyrones utilizing consecutive redox-aldol reaction of allylic alcohols with  $\alpha,\beta$ -unsaturated aldehydes (Tokyo Institute of Technology) MIZUNO, Akio; KUSAMA, Hiroyuki; IWASAWA, Nobuharu
- 4F2-09<sup>†</sup>** Rhodium-catalyzed cleavage of aromatic methyl ethers (Tohoku Univ.) ARISAWA, Mieko; SUZUKI, Takaaki; YAMAGUCHI, Masahiko
- 4F2-10** Use of RhH(dppBz)<sub>2</sub> complex and fluoride trapping reagent in the rhodium-catalyzed substitution reaction of aryl fluorides (Tohoku Univ.) ARISAWA, Mieko; ICHIKAWA, Takuya; SUZUKI, Takaaki; YAMAGUCHI, Masahiko
- 4F2-11** Rhodium-catalyzed enol ester formation reaction of phosphinoesters (Tohoku Univ.) ARISAWA, Mieko; YAMADA, Toru; YAMAGUCHI, Masahiko
- 4F2-12** Cationic Rhodium(I) Complex-Catalyzed Cycloaddition of Propargyl Esters with Electron-Deficient Unsaturated Compounds (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) SHIBATA, Yu; TANAKA, Ken
- 4F2-13<sup>†</sup>** Rhodium-Catalyzed [4+2] Cycloaddition of 4-Alkynals with Carbo-dimides (Tokyo Univ. of Agriculture and Technology) MIMURA, Marina; HOJO, Daiki; TANAKA, Ken

Chair: ENDOU, Kouhei (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4F2-15, 4F2-16, 4F2-17, 4F2-18, 4F2-19, 4F2-20)
- 4F2-15** Rhodium-Catalyzed  $\alpha$ -Methylthiolation Reaction of Ketones (Tohoku Univ.) ARISAWA, Mieko; TORIYAMA, Fumihiko; YAMAGUCHI, Masahiko
- 4F2-16<sup>†</sup>** Rhodium catalyzed metathesis reaction of benzyl ketones and thioesters (Tohoku Univ.) ARISAWA, Mieko; KUWAJIMA, Manabu; TORIYAMA, Fumihiko; YAMAGUCHI, Masahiko
- 4F2-17** Rhodium-Catalyzed Carbothiolation Reaction of Terminal Alkynes and Thioesters (Tohoku Univ.) ARISAWA, Mieko; IGARASHI, Yui; YAMAGUCHI, Masahiko
- 4F2-18** Rhodium-Complex-Catalyzed Chlorinative Dimerization of Terminal Alkynes (Chemical Resources Laboratory, Tokyo Institute of Technology) KASHIWABARA, Taigo; FUSE, Koichiro; MURAMATSU, Takeshi; TANAKA, Masato
- 4F2-19** Development of Rhodium-Catalyzed anti-Markovnikov Type Inter-molecular Hydroalkoxylation of Phenylacetylene Derivatives (Keio Univ.) KONDO, Masataka; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 4F2-20** Catalytic hydroamination of phenylacetylene derivatives by 8-quinololato rhodium complexes and the effect of nucleobase moieties on the ligands (Keio Univ.) SAKAI, Kazunori; KOCHI, Takuya; KAKIUCHI, Fumitoshi

## Room F3

Bldg.17 17-104

### Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

Friday, March 26, AM

Si

Chair: YOSHIDA, Hiroto (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(1F3-01, 1F3-02, 1F3-03, 1F3-04, 1F3-05, 1F3-06)
- 1F3-01** Palladium-Catalyzed and Cu(I)-Mediated Cross-Coupling Reactions of Alkynylsilanes with Aryl Bromides (Graduate School of Natural Science and Technology, Okayama Univ.) NISHIHARA, Yasushi; INOUE, Eiji; TAKAGI, Kentaro
- 1F3-02** Copper(I)-Catalyzed Cross-Coupling Reactions of Alkynylsilanes with Aryl Iodides (Graduate School of Natural Science and Technology, Okayama Univ.) NISHIHARA, Yasushi; NOYORI, Shintaro; INOUE, Eiji; TAKAGI, Kentaro
- 1F3-03** Cross-coupling Reaction through Intramolecular Activation of sec-Alkylsilane Reagents (Grad. Sch. Eng., Kyoto Univ.) TAKEDA, Masahide;

- NAKAO, Yoshiaki; HIYAMA, Tamejiro
- 1F3-04** Improvement of Efficiency in the Iridium-Catalyzed Aromatic C-H Silylation of Heteroarenes with Fluorodisilanes (Hokkaido Univ.) IWAGUCHI, Yusuke; ISHIYAMA, Tatsu; MIYAUURA, Norio
- 1F3-05** Nucleophilic Addition of  $\alpha$ -(Dimethylsilyl)nitrite to Aldehydes and Ketones (Univ. of Tsukuba; Saitama Univ.) ARAKAWA, Mitsuru; KINOSHITA, Hidenori; ICHIKAWA, Junji; MIURA, Katsukiyo
- 1F3-06** Highly Selective Reaction of Hetero-Substituted Allylic Stannanes with Carbonyl Compounds (Osaka Univ.) YASUDA, Makoto; YUNOKI, Hiroshi; BABA, Akio

Sn

Chair: NISHIHARA, Yasushi (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1F3-08, 1F3-10, 1F3-11, 1F3-12)
- 1F3-08<sup>\*</sup>** Synthesis of Novel Chiral Tin Catalysts and Their Application to Asymmetric Reactions. (Graduate School of Science, Chiba Univ.) IZUMISEKI, Atsuto; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 1F3-10** Asymmetric Aldol Reaction/Cyclization Using Chiral Tin Catalysts (Graduate School of Science, Chiba Univ.) KUSHIHARA, Naoyuki; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 1F3-11** Chiral Tin-Catalyzed Asymmetric Nitroso Aldol Reaction (Graduate School of Science, Chiba Univ.) FUJINAMI, Takeo; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 1F3-12<sup>\*</sup>** Cyclopropylmethylation of Organic Halides Using Cyclopropylmethylstannane Mediated by Indium or Gallium Halide (Osaka Univ.) KIYOKAWA, Kensuke; YASUDA, Makoto; BABA, Akio

In

Chair: NAKAO, Yoshiaki (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(1F3-15, 1F3-16, 1F3-17, 1F3-18, 1F3-19, 1F3-20)
- 1F3-15**  $\alpha$ -Alkylation of Carbonyl Compounds by Direct Addition of Alcohols with Enol Acetates (Osaka Univ.) NISHIMOTO, Yoshihiro; ONISHI, Yoshiharu; YASUDA, Makoto; BABA, Akio
- 1F3-16** Catalytic Direct Carbon-Carbon Bond Formation of Alcohols with  $\alpha$ -Hydroxy or Alkoxy Ketones (Osaka Univ.) YASUDA, Makoto; NAGAOKA, Yasunori; NISHIMOTO, Yoshihiro; BABA, Akio
- 1F3-17** Indium-Catalyzed Synthesis of Keto Esters from Cyclic 1,3-Diketones and Alcohols (Okayama Univ.) YAMAMOTO, Syunichi; MATSUKI, Takashi; NOBORIO, Taihei; KAWATA, Athushi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 1F3-18** Indium-Catalyzed Annulation of Indoles with *o*-Ethynyl Benzyl Ethers: Synthesis of Aryl-Annulated[*b*]carbazoles (School of Science and Technology, Meiji Univ.) TSUCHIMOTO, Teruhisa; NAGASE, Yuta; MIYAMURA, Takuhiro
- 1F3-19** Deoxygenative Hydroallylation of Esters with Indium Catalyst (Osaka Univ.) NISHIMOTO, Yoshihiro; INAMOTO, Yoshihiro; YASUDA, Makoto; BABA, Akio
- 1F3-20** Carboindation of Alkynes Using Indium Tribromide and Ketene Silyl Acetals (Osaka Univ.) NISHIMOTO, Yoshihiro; YASUDA, Makoto; BABA, Akio

Friday, March 26, PM

Zn

Chair: NAKAMURA, Itaru (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(1F3-28, 1F3-29, 1F3-30, 1F3-31, 1F3-32, 1F3-33)
- 1F3-28** Zinc-Catalyzed Dehydrogenative Silylation of Terminal Alkynes with Hydrosilanes (Department of Applied Chemistry, Meiji Univ.) TSUCHIMOTO, Teruhisa; FUJII, Masakazu
- 1F3-29** Zinc-Catalyzed Dehydrogenative *N*-Silylation of Indoles with Hydrosilanes (Department of Applied Chemistry, Meiji Univ.) TSUCHIMOTO, Teruhisa; IKETANI, Yoshihiko
- 1F3-30<sup>†</sup>** Withdrawn
- 1F3-31<sup>†</sup>** Zinc Reagent-mediated Perfluoroalkylation Reaction (RIKEN ASI; Tokyo Medical & Dental Univ.) WANG, Xuan; LIU, Ching-yuan; MURANAKA, Atsuya; UCHIYAMA, Masanobu
- 1F3-32** Seven-membered 1,3-Diketone Formation via Nucleophilic Cyclopropanation and Cope Rearrangement (Kyoto Univ.) TAKADA, Yoshiaki; NOMURA, Kenichi; MATSUBARA, Seiji
- 1F3-33** Development of a Novel Tandem Reaction of  $\gamma$ -Acylxyenone with gem-Dizinc Reagent (Kyoto Univ.) SADA, Mutsumi; MATSUBARA, Seiji

Chair: TSUCHIMOTO, Teruhisa (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(1F3-35, 1F3-36, 1F3-37, 1F3-38, 1F3-39, 1F3-40)
- 1F3-35** Stabilization and Reaction of Perfluoroalkyl-Metal Reagents (Tokyo Institute of Technology) FUJII, Motohiro; ITO, Shigekazu; MIKAMI, Koichi

- 1F3-36** Theoretical/computational study for methylenation by the using dazine compound (RIKEN; Kyoto Univ.) KOMAGAWA, Shinsuke; UCHIYAMA, Masanobu; SADA, Mutsumi; MATSUBARA, Sejiro
- 1F3-37** Bismuth-Catalyzed Tandem Ene/Hydroamination (Grad. Sch. Eng., Hiroshima Univ.) KOMEYAMA, Kimihiro; KOUYA, Yusuke; TAKAKI, Ken
- 1F3-38** Construction of Tricyclic 2-Pyridone Frameworks by Cationic Gold(I) Complex-Catalyzed Cycloisomerization (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) IMASE, Hidetomo; TANAKA, Ken
- 1F3-39** Synthesis of 4-Aryl-2-quinolinone Derivatives by Cationic Transition-Metal Complex-Catalyzed Intramolecular Hydroarylation (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) SHIBUYA, Tetsuro; SHIBATA, Yu; TANAKA, Ken
- 1F3-40** Gold-Catalyzed Cyclization-1,3-Alkylidene Migration Cascade of *O*-Propioloxy Oximes (Graduate School of Science, Tohoku Univ.) OKAMOTO, Masashi; NAKAMURA, Itaru; TERADA, Masahiro

## Au

Chair: TANAKA, Ken (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(1F3-42, 1F3-44, 1F3-46, 1F3-47)
- 1F3-42\*** Development of Enantioselective Reactions Catalyzed by Gold Complexes Bearing Tropos Ligands (Tokyo Institute of Technology) KOJIMA, Masafumi; AIKAWA, Kohsuke; MIKAMI, Koichi
- 1F3-44\*\*** Syntheses and Catalytic Activity of Chitosan-Stabilized Metal Nanoclusters (Institute for Molecular Science) ARUMUGAM, Murugadoss; SAKURAI, Hidehiro
- 1F3-46** Gold-catalyzed Cycloisomerization of 2-(Alkynyl)pyridine *N*-Oxides Leading to 3-Oxycarbonyl-2-indolizones (Grad. Sch. Eng., Kyoto Univ.) KITABATA, Sachie; MURAI, Masahito; OHE, Kouichi
- 1F3-47** Cycloisomerization of 1,6-enynes catalyzed by a 1,3-diphosphopropene-digold(I) complex (Graduate School of Science and Engineering, Tokyo Institute of Technology) ZHAI, Lili; MIKAMI, Koichi; ITO, Shigekazu

## Ag

Chair: ITO, Shigekazu (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(1F3-49, 1F3-50, 1F3-51, 1F3-52, 1F3-53, 1F3-54)
- 1F3-49** Silver-catalyzed cross-coupling reaction of alkyl halides with allylic or benzylic zinc reagents (Grad. Sch. Eng., Kyoto Univ.) MITAMURA, Yukihiko; ASADA, Yoshihiro; MURAKAMI, Kei; SOMEYA, Hidenori; YORIMITSU, Hideki; OSHIMA, Koichiro
- 1F3-50<sup>†</sup>** Silver-catalyzed coupling reactions of secondary and tertiary alkyl halides with benzylic lithium reagents (Grad. Sch. Eng., Kyoto Univ.) SOMEYA, Hidenori; YORIMITSU, Hideki; OSHIMA, Koichiro
- 1F3-51** Highly Enantioselective 1,3-Dipolar Cycloaddition of Azomethine Ylides with  $\alpha, \beta$ -Unsaturated Esters Catalyzed by AgOAc/ThioClickFerrophos Complex. (Faculty of Science and Engineering, Chuo Univ.) SHIMIZU, Kenta; OURA, Ichiro; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 1F3-52** Highly Enantioselective 1,3-Dipolar Cycloaddition of Azomethine Ylide with  $\alpha, \beta$ -Unsaturated Catalyzed by a AgOAc/ThioClickFerrophos Complex (Faculty of Science and Engineering, Chuo Univ.) OURA, Ichiro; SHIMIZU, Kenta; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 1F3-53** Silver-Catalyzed Carbomagnesiation of Alkynes using Grignard Reagent and Alkyl Halides (Graduate School of Engineering, Osaka Univ.) MORIWAKI, Yuusuke; FUJII, Yuuki; KAMBE, Nobuaki
- 1F3-54** Tin Metoxide and QuinoxP<sup>+</sup>-Ag(I)Complex-Catalyzed Asymmetric Nitroso Aldol Reaction (Graduate School of Science, Chiba Univ.) TAKESHITA, Satoshi; YOSHIDA, Kazuhiro; YANAGISAWA, Akira

## Saturday, March 27, AM

## Li, B, In, Ba, La, Ga

Chair: YAMASHITA, Makoto (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2F3-01, 2F3-02, 2F3-03, 2F3-04, 2F3-05, 2F3-06)
- 2F3-01<sup>†</sup>** Enantioselective Synthesis of Planar-chiral Paracyclophanes via Asymmetric ortho-Lithiation (Waseda Univ.) KANDA, Kazumasa; ENDO, Kohei; SHIBATA, Takanori
- 2F3-02** Generation and Reactions of Lithium Alkylidene Carbenoids by Deprotonation Using Flow Microreactor Systems (Kyoto Univ.) MATSUO, Chika; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 2F3-03** Generations and Reactions of Aryllithiums Bearing Alkoxy carbonyl Group Using Flow Microreactor Systems (Kyoto Univ.) NAGAKI, Aiichiro; KIM, Heejin; MORIWAKI, Yuya; YOSHIDA, Jun-ichi
- 2F3-04** Selective Synthesis of Propargylic Amines with Reactive Barium (Graduate School of Science, Chiba Univ.) KOIDE, Takanori; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 2F3-05** Transformation of 1,1-Dihaloalkenes into Alkynes by Reductive Dehalogenation with Lanthanum Metal (Faculty of Chemistry, Materials

and Bioengineering, Kansai Univ.) ANAHARA, Namika; UASA, Takumi; UMEDA, Rui; NISHIYAMA, Yutaka

- 2F3-06** Reductive sulfidation of carboxylic acids using indium (Tokyo Univ. of Science) SAKAI, Norio; SAKAMOTO, Tomohiro; FUJII, Kohji; IKEDA, Reiko; KONAKAHARA, Takeo

Chair: KUNINOBU, Yoichiro (10 : 10~11 : 00)

- \* 10:00-10:10: interval for laptop PC connection.(2F3-08, 2F3-09, 2F3-10, 2F3-11, 2F3-12)
- 2F3-08** Stereoselective synthesis of multi-substituted alkenylboronates via 1,1-organodiboronates (Waseda Univ.) HIROKAMI, Munenao; ENDO, Kohei; SHIBATA, Takanori
- 2F3-09<sup>†</sup>** Carboboration by a Reaction of Borylcuprate with Alkyne and Carbon Electrophile (The Univ. of Tokyo, Graduate School of Engineering) OKUNO, Yuri; YAMASHITA, Makoto; NOZAKI, Kyoko
- 2F3-10** Facile Synthesis of Polycyclic Aromatic Hydrocarbons Based on Double Cross-coupling Reaction of Bromo(2-bromoethenyl)arenes with *vic*-Diborylated Olefins. (Grad. Sch. Eng., Kyoto Univ.) SHIMIZU, Masaki; TOMIOKA, Yosuke; NAGAO, Ikuhiro; HIYAMA, Tamejiro
- 2F3-11** Indium-catalyzed furan synthesis via cycloisomerization of  $\alpha$ -propargylketone (Graduate School of Science, The Univ. of Tokyo) YAMAGATA, Ken-ichi; TSUJI, Hayato; NAKAMURA, Eiichi
- 2F3-12** Gallium-catalyzed Bromocyanation Reactions of Alkynes. (Grad. Sch. Eng., Kyoto Univ.) HATANNO, Ryo; MURAI, Masahito; OHE, Kouichi

## Re, Mn

Chair: SHIBATA, Takanori (11 : 10~12 : 10)

- \* 11:00-11:10: interval for laptop PC connection.(2F3-14, 2F3-15, 2F3-16, 2F3-17, 2F3-18, 2F3-19)
- 2F3-14<sup>†</sup>** Rhenium-Catalyzed Insertion of Allenes into a C-H bond (Okayama Univ.) YU, Peng; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 2F3-15** Rhenium-Catalyzed Synthesis of Indenones by Dehydrative Trimerization of Aromatic Aldehydes (Okayama Univ.) MATSUKI, Takashi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 2F3-16** Rhenium-Catalyzed Benzannulation of *o*-Alkynylbenzaldehyde with Alkyne (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) KAIBA, Kenta; UMEDA, Rui; NISHIYAMA, Yutaka
- 2F3-17** Rhenium-Catalyzed Synthesis of Phenol Derivatives from 1,3-Diesters and Terminal Alkynes (Okayama Univ.) IWANAGA, Takashi; NISHI, Mitsumi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 2F3-18** Formal Cross Coupling Reactions between C(sp<sup>2</sup>)-H and C(sp<sup>3</sup>)-H Bonds (Okayama Univ.) ASANOMA, Daisuke; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 2F3-19** Manganese-Catalyzed Synthesis of Amides via Cleavage of a C-C Single Bond of Ketones (Okayama Univ.) UESUGI, Tadamasu; KAWATA, Atsushi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko

## Saturday, March 27, PM

## Sc, Ti, Zr

Chair: KANNO, Ken-Ichiro (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(2F3-34, 2F3-35, 2F3-36, 2F3-37, 2F3-38)
- 2F3-34** Lewis Acid-Catalyzed Highly Regioselective Iodination (Nara National College of Technology; CREST, JST) SHIBAGUCHI, Hiroshi; KAMEI, Toshiyuki; SAKO, Makoto; SHIMADA, Toyoshi
- 2F3-35** Sc-catalyzed ortho-C-H bond silylation of anisoles (RIKEN) OYAMADA, Juro; HOU, Zhaomin
- 2F3-36** Reaction of Titanocene Alkylidenes with Allenes (Tokyo Univ. of Agric. and Tech.) OISHI, Shigeki; INOUE, Takafumi; TANIMORI, Hideyuki; TSUBOUCHI, Akira; TAKEDA, Takeshi
- 2F3-37** Titanocene(II)-promoted Reaction of (*Z*)-Alkenyl Sulfones with Allenes (Tokyo Univ. of Agric. and Tech.) OISHI, Shigeki; INOUE, Takafumi; TSUBOUCHI, Akira; TAKEDA, Takeshi
- 2F3-38** Dimensional Design of Bis-Biphenol Ligand and its Application for Pinacol Coupling Reaction (Osaka Univ.) AMAYA, Toru; MIYASAKA, Akihiro; HIRAO, Toshikazu

Chair: AMAYA, Toru (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(2F3-40, 2F3-41, 2F3-42, 2F3-43, 2F3-44, 2F3-45)
- 2F3-40** Diastereoselective Addition of Allyltitanocenes to Cyclic Enones (Tokyo Univ. of Agric. and Tech.) TAKEDA, Takeshi; NISHIMURA, Takuya; SAIKI, Fumiya; TSUBOUCHI, Akira
- 2F3-41** Stereochemistry of the Reaction of Chiral Allyltitanocenes with Ketones (Tokyo Univ. of Agric. and Tech.) TAKEDA, Takeshi; NISHIMURA, Takuya; YATSUMONJI, Yasutaka; TSUBOUCHI, Akira
- 2F3-42** Selective Protonation/Iodination of Unsymmetrical Zirconacyclopentadienes for Synthesis of Monoiodobutadienes (Catalysis Research Center, Hokkaido Univ.) IGARASHI, Eri; REN, Shenyong; KANNO, Ken-ichiro; TAKAHASHI, Tamotsu
- 2F3-43** Synthesis of Cyclic Alkenylboronates via Zirconacycle Formation/Ring-Closing Metathesis Sequences (Graduate School of Natural Science and

Technology, Okayama Univ.) NISHIHARA, Yasushi; SAITO, Daisuke; TAKAGI, Kentaro

**2F3-44** Highly Regio- and Stereoselective Synthesis of All Alkyl-substituted Olefins from Alkynylboronates and a Zirconocene Complex (Graduate School of Natural Science and Technology, Okayama Univ.) NISHIHARA, Yasushi; OKADA, Yoshiaki; TAKAGI, Kentaro

**2F3-45** Mechanistic Insights into Regioselectivity in Formation of Zirconacycles from Reactions of Alkynylboronates with a Zirconocene Complex (Graduate School of Natural Science and Technology, Okayama Univ.; College of Science, Ibaraki Univ.) NISHIHARA, Yasushi; ISHIGURO, Yuya; OCHIAI, Jun; MORI, Seiji; TAKAGI, Kentaro

Sunday, March 28, AM

Ru

Chair: KINOSHITA, Hidenori (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(3F3-01, 3F3-02, 3F3-03, 3F3-04, 3F3-05, 3F3-06)

**3F3-01** Ligand Effect on Michael Reaction of Nitriles Catalyzed by Ruthenium Cyanocarbanion Complexes (Graduate School of Engineering Science, Osaka Univ.) HIRAKO, Kenjiro; KOMIYA, Naruyoshi; NAOTA, Takeshi

**3F3-02** Ruthenium-Catalyzed Coupling of Alkylethers Bearing Pyridyl Group with Arylboron Reagents (Keio Univ.) OGIWARA, Yohei; KOCHI, Takuya; KAKIUCHI, Fumitoshi

**3F3-03** Cycloisomerization of Enynes Catalyzed by Diruthenium Complex Activated by Molecular Oxygen. (Faculty of Engineering, Osaka Univ.) NAKAE, Takahiro; YASUNAGA, Tomohiko; TYATANI, Naoto

**3F3-04** A Novel Intramolecular Cyclization of 2-Hydroxyphenethyl Alcohols to 2-Coumaranones Catalyzed by Ruthenium Complexes (Kyoto Univ.) KONDO, Teruyuki; OKAMOTO, Yuuki; YAMAMOTO, Keisuke; KIMURA, Yu; TOSHIMITSU, Akio

**3F3-05** Synthesis of a ruthenium-metathesis catalyst having tetraphenylphenyl moieties and steric effects on the catalytic activity (Grad. Sch. Eng., Kyoto Univ.) TOMIKE, Yoshikazu; FUJIHARA, Tetsuaki; TERAOKA, Jun; TSUJI, Yasushi

**3F3-06<sup>†</sup>** Ruthenium-Catalyzed Coupling of Alkenyl Triflates with Heteroatom Nucleophiles (Grad. Sch. Sci., Kyoto Univ.) SHIRAKAWA, Eiji; IMAZAKI, Yusuke; HAYASHI, Tamio

Chair: KOCHI, Takuya (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(3F3-08, 3F3-09, 3F3-10, 3F3-11, 3F3-12, 3F3-13)

**3F3-08<sup>†</sup>** Withdrawn

Pt

**3F3-09** Platinum-Catalyzed Allylation of Aminals with Vinylsilanes (Saitama Univ.; Univ. of Tsukuba) HORIKOSHI, Masahiro; FUJIMOTO, Masayuki; KINOSHITA, Hidenori; ICHIKAWA, Junji; MIURA, Katsukiyo

**3F3-10** Platinum-Catalyzed One-Pot Vinylation of Aldehydes Using Alkynes and Hydrosilanes (Saitama Univ.) UEMURA, Ryosuke; KINOSHITA, Hidenori; MIURA, Katsukiyo

**3F3-11** Synthesis and Chirality Control of Novel Diphosphine Ligand bearing Biazulene Backbone. (Tokyo Institute of Technology) HIRAGURI, Natsuru; KOJIMA, Masafumi; AIKAWA, Kohsuke; MIKAMI, Koichi

**3F3-12<sup>†</sup>** Enantioselective [3+2]-Cycloaddition Reaction of Platinum-Containing Carbonyl Ylides with Vinyl Ethers (Tokyo Institute of Technology) ISHIDA, Kento; KUSAMA, Hiroyuki; IWASAWA, Nobuharu

**3F3-13** Platinum(II)-catalyzed Generation and [3+2]-Cycloaddition Reaction of  $\alpha, \beta$ -Unsaturated Carbene Complex Intermediates: A Highly Efficient Synthesis of Tricyclic Indoles. (Tokyo Institute of Technology) SAITO, Kodai; KUSAMA, Hiroyuki; IWASAWA, Nobuharu

V, Nb, Cr

Chair: KONDO, Teruyuki (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(3F3-15, 3F3-17, 3F3-18, 3F3-19, 3F3-20)

**3F3-15<sup>\*†</sup>** Oxidative Bromination Induced by Vanadium Catalyst/Bromide Salt/Acid/ Molecular Oxygen (Osaka Univ.) KIKUSHIMA, Kotaro; MORIUCHI, Toshiyuki; KAJIKAWA, Tomomi; HIRAO, Toshikazu

**3F3-17** Development of an Effective Oxidation Method of Amines Using Atmospheric Molecular Oxygen Catalyzed by Oxovanadium Complex (Osaka Pref. Univ.) KODAMA, Shintaro; YOSHIDA, Jun; NOMOTO, Akihiro; UESHIMA, Michio; OGAWA, Akiya

**3F3-18** Development of Alcohol Oxidation with Molecular Oxygen in Water Using Vanadium Catalysts (Osaka Pref. Univ.) HASHIDATE, Suguru; KODAMA, Shintaro; NOMOTO, Akihiro; UESHIMA, Michio; OGAWA, Akiya

**3F3-19** NbCl<sub>5</sub>-catalyzed [2+2+2] three-component cycloaddition reactions of terminal alkynes, internal alkynes, and alkenes leading to tetrasubstituted-1,3-cyclohexadienes (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; KU-HRC) SATO, Yasushi; OBORA, Yasushi

**3F3-20** Stereoselective induction of axially chiral N-C bond by planar chirality transfer (Department of Chemistry, Graduate School of Science, Osaka Prefecture Univ.) KAMIKAWA, Ken; MORI, Akiyoshi

**Room F4**  
Bldg.17 17-105

Organic Chemistry -Reaction and Synthesis-  
Organic Photochemistry

Friday, March 26, PM

Chair: SAKAMOTO, Masami (13:00~13:50)

\* 12:50-13:00: interval for laptop PC connection.(1F4-25, 1F4-26, 1F4-27, 1F4-28)

**1F4-25** Binding and enantiodifferentiating photocyclodimerization behavior of 2-anthracenecarboxylate with various mammalian serum albumins (CASI, Osaka Univ.; Grad. Sch. Eng., Osaka Univ.) NISHIJIMA, Masaki; GOTO, Masato; MORI, Tadashi; WADA, Takehiko; INOUE, Yoshihisa

**1F4-26** Catalytic enantiodifferentiating photocyclodimerization of 2-anthracenecarboxylate through the reuse of bovine and human serum albumins (Graduate School of Engineering, Osaka Univ.) KATO, Hanako; NISHIJIMA, Masaki; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa

**1F4-27** Photoisomerization and fluorescence properties of stilbene derivatives in bovine serum albumin (Univ. of Tsukuba) SHIMAOKA, Yumiko; KANNA, Yoko; ARAI, Tatsuo

**1F4-28<sup>\*</sup>** Bio-Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Mediated by Molecular Chaperone Prefoldin and its Subunits (Graduate School of Engineering, Osaka Univ.) BANDO, Kazuki; ZAKO, Tamotsu; SAKONO, Masafumi; MAEDA, Mizuo; WADA, Takehiko; NISHIJIMA, Masaki; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa

Chair: MOMOTAKE, Atsuya (14:00~14:50)

\* 13:50-14:00: interval for laptop PC connection.(1F4-31, 1F4-32, 1F4-33, 1F4-34, 1F4-35)

**1F4-31** Intermolecular [2+2] photocycloaddition reaction of chromone derivatives with alkenes (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; YOSHIWARA, Kazuya; YAGISHITA, Fumitoshi; MINO, Takashi; FUJITA, Tsutomu

**1F4-32** Generation of Chirality in the Photodimerization of Chromone-2-carboxylic Acid Ester in Fluid Media (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; YAGISHITA, Fumitoshi; KANEHIRO, Masayuki; MINO, Takashi; FUJITA, Tsutomu

**1F4-33** Control of Photocyclization versus Photorearrangement of Phenylbutenes Confined in Polymer Matrices (Graduate School of Engineering, Osaka Univ.) ITO, Tadashi; NISHIUCHI, Emi; MORI, Tadashi; FUKUHARA, Gaku; YANG, Cheng; INOUE, Yoshihisa

**1F4-34** Intramolecular Photoreaction of 9-Cyanophenanthrene with Arylcyclopropanes (Kanazawa Univ.) SAKURAI, Hisashi; MAEDA, Hajime; SEGI, Masahito

**1F4-35** An accurate theoretical prediction of the anisotropy factors of cyclic pentanones for asymmetric photolysis with the circularly polarized light (Graduate School of Engineering, Osaka Univ.) MORI, Tadashi; INOUE, Yoshihisa

Chair: MORI, Tadashi (15:00~16:00)

\* 14:50-15:00: interval for laptop PC connection.(1F4-37, 1F4-38, 1F4-39, 1F4-40, 1F4-41)

**1F4-37** Regioselectivity in the Paterno-Buchi reaction of geraniol derivatives (Hiroshima Univ.) HISAMOTO, Ken; HIRAGA, Yoshikazu; ABE, Manabu

**1F4-38** Intramolecular Photocycloaddition of 1-Cyanonaphthalene Derivatives Bearing Cinnamyl Group at 2- or 4- Position and Substituent Effect on Phenyl Group (Grad. Sch. of Eng., Osaka Pref. Univ.) ENYA, Kouhei; MAEDA, Hajime; MIZUNO, Kazuhiko

**1F4-39** Deuterium exchange reaction by photochemical decarboxylation of free carboxylic acids (Coll. Life Sci., Ritsumeikan Univ.; Grad. Sch. Eng., Univ. of Fukui) KOBAYASHI, Kousuke; YOSHIMI, Yasuharu; HATANAKA, Minoru

**1F4-40** Addition of Radical to Imine via Photochemical Decarboxylation (Univ. of Fukui) KOBAYASHI, Kousuke; YOSHIMI, Yasuharu; HATANAKA, Minoru; ITOU, Tatsuya; OKADA, Yutaka

**1F4-41<sup>\*</sup>** Contrasting Intermolecular and Intramolecular Exciplex Formation of a 1,4-Dicyano-2-Methylnaphthalene-*N,N*-Dimethyl-*p*-Toluidine Dyad (Grad. Sch. of Eng., Osaka Pref. Univ.; Wakayama Seika Kogyo Co., Ltd.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) IMOTO, Mitsutaka; IKEDA, Hiroshi; OHASHI, Maki; FUJII, Takayuki; KANO, Yusuke; TANIGUCHI, Hisaji; TAMAKI, Akihiro; TAKEDA, Motonori; MIZUNO, Kazuhiko

Chair: MAEDA, Hajime (16:10~17:10)

- \* 16:00-16:10: interval for laptop PC connection.(1F4-44, 1F4-45, 1F4-46, 1F4-47, 1F4-48, 1F4-49)
- 1F4-44** Enantiodifferentiating Photocyclodimerization of 2-Hydroxyanthracene Mediated by Chiral Supramolecular Hosts (Graduate School of Engineering, Osaka Univ.) UMEHARA, Hiroaki; YANG, Cheng; NISHIJIMA, Masaki; FUKUHARA, Gaku; MORI, Tadashi; INOUE, Yoshihisa
- 1F4-45** Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylic Acid with (S)-Prolinol As A Chiral Hydrogen-Bonding Template. (Graduate School of Engineering, Osaka Univ.) KATSUMATA, Shinya; KAWANAMI, Yuko; FUKUHARA, Gaku; NISHIJIMA, Masaki; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa
- 1F4-46** Supramolecular Enantiodifferentiating Photocyclodimerization of 2,6-Anthracenedicarboxylic Acid with Modified  $\gamma$ -Cyclodextrins and Other Chiral Hosts (Graduate School of Engineering, Osaka Univ.) WAKAI, Ayako; FUKASAWA, Hiroki; NISHIJIMA, Masaki; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa
- 1F4-47** Acceleration of Photodecompositions of *N*-Tosyloxy Aromatic Imides, Photoacid Generators, by Addition of Alkylbenzenes (Faculty of Science and Engineering, Shimane Univ.) KANATSU, Masaki; SHIRATORI, Hideo; KUBO, Yasuo
- 1F4-48** Diastereodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Tethered to Amylose Scaffold (Graduate School of Engineering, Osaka Univ.) NAKAMURA, Tomohiro; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa
- 1F4-49** Enantiodifferentiating Anti-Markovnikov Photoaddition of Water to 1,1-Diphenylpropene Included and Sensitized by Naphthoyl-Curdlan (Graduate School of Engineering, Osaka Univ.) IMAI, Mamii; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa

### Saturday, March 27, AM

Chair: YOSHIMI, Yasuharu (9:40~10:30)

- \* 9:30-9:40: interval for laptop PC connection.(2F4-05, 2F4-06, 2F4-07, 2F4-08, 2F4-09)
- 2F4-05** Photochemistry of ester terminated poly(benzyl ether) stilbene dendrimers (Univ. of Tsukuba) TAKIZAWA, Tsutomu; SHINOHARA, Yoshihiro; ARAI, Tatsuo
- 2F4-06** Synthesis and photochemical behavior of peptide dendrimer with stilbene core (Univ. of Tsukuba) IKEDA, Megumi; MOMOTAKE, Atsuya; ARAI, Tatsuo
- 2F4-07** Properties of fluorescent difluoro[amidopyrazinato-*O,N*]boron compounds in solid state. (The Univ. of Electro-Communications; RIKEN; Grad. Sch. of Eng., Osaka Pref. Univ.) HACHIYA, Sojiro; HASHIZUME, Daisuke; IKEDA, Hiroshi; MIZUNO, Kazuhiko; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 2F4-08** Synthesis of new pi-conjugation-extended imidazopyrazinones for chemiluminescence detection of superoxide anion (The Univ. of Electro-Communications) ISSHIKI, Takashi; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 2F4-09** Study on the reaction mechanism of the imidazopyrazinone bio- and chemiluminescence: a theoretical approach for the chemiexcitation process (The Univ. of Electro-Communications) HIRANO, Takashi; MAKI, Shojiro; NIWA, Haruki

Chair: HIRANO, Takashi (10:40~11:30)

- \* 10:30-10:40: interval for laptop PC connection.(2F4-11, 2F4-12, 2F4-13, 2F4-14, 2F4-15)
- 2F4-11** Synthesis and photochemistry of new fluorene-based hemicyanine dye. (Univ. of Tsukuba) KIMURA, Yuta; MOMOTAKE, Atsuya; NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 2F4-12** Photochemical behavior and substituent effects of 2'-hydroxychalcone analogues having two intramolecular hydrogen bondings (Univ. of Tsukuba) TASAKI, Satomi; SHINOHARA, Yoshihiro; ARAI, Tatsuo
- 2F4-13** Photochromism of dinitrobenzyl pyridine derivatives (Coll. Med. Pharm. Heal. Sci., Kanazawa Univ.) FUKUYOSHI, Shuichi; MITSUE, Akihiro; TOKUMURA, Kunihiko; NAKAGAKI, Ryoichi
- 2F4-14** Development of multichromophoric dendrimers exhibiting cascade light-harvesting functionality (Shizuoka Univ.) TAKAHASHI, Masaki; YAMAMOTO, Ayato; SENGOKU, Tetsuya; YODA, Hidemi
- 2F4-15** Solid-state fluorescence properties of diarylmethanato-boron difluorides (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) IKEDA, Hiroshi; YOSHIMOTO, Yuichi; MIZUNO, Kazuhiko

### Saturday, March 27, PM

Chair: SHIMAKOSHI, Hisashi (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(2F4-34, 2F4-36, 2F4-37, 2F4-38, 2F4-39)
- 2F4-34\*** Photooxygenation Using Iridium Complexes as Sensitizers (The Univ. of Tokyo) TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2F4-36** Photoinduced intramolecular cyclization of furan and non-activated alkene (Grad. Sch. Of Eng., Hokkaido Univ.) ARAI, Noriyoshi; TANAKA,

Koichiro; OHKUMA, Takeshi

- 2F4-37** Observation of 1,4-diphenylbicyclo[2.2.0]hexane-type Radical Cations Containing 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.) IKEDA, Hiroshi; ASADA, Naoya; OSHIMA, Mitsuhiro; MIZUNO, Kazuhiko
- 2F4-38** [2+2] Intramolecular Photocycloaddition of Phenanthrene Derivatives Bearing Cinnamyl Group (Grad. Sch. of Eng., Osaka Pref. Univ.) NISHIGUCHI, Satoshi; IKEDA, Hiroshi; MIZUNO, Kazuhiko
- 2F4-39** [3+2]-Photocycloadditions of 6-Methyl-1,4-dicyanonaphthalene and Phenylacetylene Derivatives (Faculty of Science and Engineering, Shimane Univ.) MORIWAKI, Tadasuke; SHIRATORI, Hideo; KUBO, Yasuo

Chair: IKEDA, Hiroshi (15:40~16:40)

- \* 15:30-15:40: interval for laptop PC connection.(2F4-41, 2F4-42, 2F4-43, 2F4-44, 2F4-45, 2F4-46)
- 2F4-41** Reversible Control of Axial Chirality of Aromatic Carboxamides by Photo- and thermal-reactions (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; YASUIKE, Nobuo; SUNAOSHI, Kazushi; MINO, Takashi; FUJITA, Tsutomu
- 2F4-42** Generation and Characterization of a Dendrimer-type Septet Triscarbene-Bearing Acridine *N*-oxide Units and its Cu-complex. (Mie Univ.; Aichi Inst. of Tech.; Nagoya Ind. Sci. Res. Inst.) YAMADA, Hiroto; HIRAI, Katsuyuki; KITAGAWA, Toshikazu; TOMIOKA, Hideo
- 2F4-43** Reaction Control of Triplet Diphenylcarbene Protected by Bulky Substituents at the Para Positions - Effect of Triptycyl Substituents (Mie Univ.; Aichi Inst. of Tech.; Nagoya Ind. Sci. Res. Inst.) HATANAKA, Keiji; HIRAI, Katsuyuki; KITAGAWA, Toshikazu; TOMIOKA, Hideo
- 2F4-44** Photo-induced radical cyclization using a microreactor (Osaka Pref. Univ.; YMC Co.,Ltd.) YONAMINE, Yuuka; RASHID, Muhammad Abid; FUKUYAMA, Takahide; RYU, Ilhyong
- 2F4-45** The effect of the substitution on the hemiporphycene and its photosensitizing properties (Kyushu Univ.) TAKADA, Satona; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio
- 2F4-46** Synthesis and photochemistry of porphyrin derivatives with tweezer-like bridges (Graduate Univ. for Advanced Studies; Inst. for Mol. Sci.) MIURA, Takahiro; NAGATA, Toshi

### Asian International Symposium -Photo Chemistry

#### Sunday, March 28, AM

Chair: UBUKATA, Takashi and WANG, Shu (10:00~12:00)

- 3F4-07\*** Opening remarks (Osaka Pref Univ.) MIZUNO, Kazuhiko (10:00~10:30)
- 3F4-10\* Keynote Lecture** Optical and electric properties of Si-based organic materials and the application to deep blue PHOLEDs (Korea Univ.) KWON, Soonnam (10:30~11:00)
- 3F4-13\* Invited Lecture** Unique Photoreactions of Dye Molecules in the Mesoporous Silica Nano-cavities (Tokyo Tech; Nagoya Univ.) YUI, Tatsuto (11:00~11:20)
- 3F4-15\* Invited Lecture** Development of Metal Nanostructures for Organic Photoelectric Conversion Devices (Kyushu Univ.) AKIYAMA, Tsuyoshi (11:20~11:40)
- 3F4-17\* Invited Lecture** Investigation on the mechanism for the photo-induced wettability changes on TiO<sub>2</sub> surfaces by near-infrared spectroscopy (Osaka Pref Univ.; Univ. of Torino) TAKEUCHI, Masato; MARTRA, Gianmario; COLUCCIA, Salvatore; ANPO, Masakazu (11:40~12:00)

#### Sunday, March 28, PM

Chair: MAEDA, Hiromitsu and LI, Hung-Wen (13:30~15:00)

- 3F4-28\* Keynote Lecture** Conjugated polymers for biomacromolecule sensing and cell imaging (Chinese Academy of Sciences) WANG, Shu (13:30~14:00)
- 3F4-31\* Invited Lecture** Surface relief formation induced by spatial photoisomerization (Yokohama National Univ.) UBUKATA, Takashi (14:00~14:20)
- 3F4-33\* Invited Lecture** Synthesis of polycyclic compounds using intramolecular photocycloaddition to aromatic rings (Kanazawa Univ.; Osaka Pref Univ.) MAEDA, Hajime (14:20~14:40)
- 3F4-35\* Invited Lecture** Development of caged neurotransmitters with new photolabile protecting groups (Univ. of Tsukuba) MOMOTAKE, Atsuya (14:40~15:00)

Chair: AKIYAMA, Tsuyoshi and KWON, Soonnam (15:10~17:00)

- 3F4-38\* Keynote Lecture** Using Single-Molecule Optical and Fluorescence Microscopy to study DNA Repair Enzymes (Taiwan National Univ.) LI, Hung-Wen (15:10~15:40)
- 3F4-41\* Invited Lecture** Photophysical properties of alkynylpyrenes and their possibilities for bioprobes and light-emitting materials (Univ. of Toyama) FUJIMOTO, Kazuhisa (15:40~16:00)
- 3F4-43\* Invited Lecture** Structure and Function of Self-Assembled Functional Dyes by Hydrogen Bonding (Chiba Univ.) YAGAI, Shiki (16:00~16:20)

- 3F4-45<sup>#</sup>** Invited Lecture Emissive Supramolecular Assemblies Based on Charge-by-Charge Interactions (Ritsumeikan Univ.; PRESTO, JST) HAKETA, Yohei; OMAEDA, Hiromitsu (16:20~16:40)  
**3F4-47<sup>#</sup>** Closing remarks (Korea Univ.) PAC, Chyongjin (16:40~17:00)

## Room F5

Bldg.17 17-201

### Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Friday, March 26, AM

Chair: ISHIKAWA, Hayato (9:40~10:50)

- \* 9:30-9:40: interval for laptop PC connection.(1F5-05, 1F5-06, 1F5-08, 1F5-09, 1F5-10, 1F5-11)  
**1F5-05** Construction of contiguous tetrasubstituted chiral carbon centers via direct catalytic asymmetric aldol reaction of  $\alpha$ -isothiocyanato esters to ketones (Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo) YOSHINO, Tatsuhiko; MORIMOTO, Hiroyuki; MATSUNAGA, Shigeki; SHIBASAKI, Masakatsu  
**1F5-06\*** Stereocontrolled Synthesis of Spiro[n.2]alkenes by Unusual Ring Contraction (Kyoto Univ.) TAKASU, Kiyosei; NAGAMOTO, Yuuki; HATA, Kenji; TAKEMOTO, Yoshiji  
**1F5-08** Kinetic resolution of alcohols using enantioselective acylation catalyzed by *N*-heterocyclic carbenes (Graduate School of Engineering, Nagoya Univ.) IWAHANA, Soichiro; IIDA, Hiroki; YASHIMA, Eiji  
**1F5-09** NHC-Catalyzed Intramolecular Crossed Benzoin Reactions: Stereoselective Synthesis of Tertiary Alcohols Bearing Consecutive Quaternary Stereocenters (Okayama Univ.) EMA, Tadashi; AKIHARA, Kumiko; OUE, Yoshitaka; MIYAZAKI, Yuki; KORENAGA, Toshinobu; SAKAI, Takashi  
**1F5-10** Highly enantioselective conjugate addition using organocatalyst (Department of Chemistry and Materials Technology, Kyoto Institute of Technology) IWASA, Tomoya; KONNO, Tsutomu; ISHIHARA, Takashi  
**1F5-11** Direct asymmetric aldol reaction of trifluoroacetaldehydeethyl hemiacetal with methyl ketones using asymmetric organocatalyst (Gifu Univ.) FUNABIKI, Kazumasa; ITO, Yuya; KUBOTA, Yasuhiro; MATSUI, Masaki

Chair: MARUOKA, Keiji (11:00~12:00)

- \* 10:50-11:00: interval for laptop PC connection.(1F5-13)  
**1F5-13** CSJ Award for Creative Works Chiral Bronsted Acid-catalyzed Asymmetric Reactions (Fac. Sci., Gakushuin Univ.) AKIYAMA, Takahiko

Friday, March 26, PM

Chair: KONNO, Tsutomu (13:10~14:10)

- \* 13:00-13:10: interval for laptop PC connection.(1F5-26, 1F5-27, 1F5-29, 1F5-30, 1F5-31)  
**1F5-26** Diphenylprolinol Silyl Ether as a Catalyst in an Asymmetric, Catalytic, and Direct Michael Reaction of Nitroethanol with  $\alpha, \beta$ -Unsaturated Aldehydes. (Faculty of Engineering, Tokyo Univ. of Science) GOTOH, Hiroaki; OKAMURA, Daichi; ISHIKAWA, Hayato; HAYASHI, Yujiro  
**1F5-27\*** Asymmetric Aldol Reaction of Acetaldehyde and Isatin Derivatives for the Total Syntheses of *ent*-Convolutamydin E, CPC-1 and a Half Fragment of Madindoline A and B (Faculty of Engineering, Tokyo Univ. of Science) ITOH, Takahiko; ISHIKAWA, Hayato; HAYASHI, Yujiro  
**1F5-29** Organocatalytic Enantioselective Synthesis of Nitrogen-Substituted Dihydropyran-2-ones, a Key Synthetic Intermediate of 1  $\beta$ -Methylcarbapenems (Graduate School of Science, Osaka Prefecture Univ.; Mitsubishi Chemical Group Science and Technology Research Center; API Corporation) KOBAYASHI, Shoji; KINOSHITA, Tatsuhiro; UEHARA, Hisatoshi; SUDO, Tomoko; RYU, Ilhyong  
**1F5-30** Catalytic Asymmetric Borane Reduction of Prochiral Ketones by Using (*S*)-2-(Anilindiphenylmethyl)pyrrolidine (Yokohama Natl. Univ.) TAKANO, Miki; HOSODA, Naoya; ASAMI, Masatoshi  
**1F5-31** Catalytic enantioselective reduction of enones using chiral lactam alcohol (Faculty of Agriculture, Kagawa Univ.) KIGUCHI, Kazuya; KAWANAMI, Yasuhiro

Chair: HAYASHI, Masahiko (14:20~15:20)

- \* 14:10-14:20: interval for laptop PC connection.(1F5-33, 1F5-34, 1F5-35, 1F5-36, 1F5-37, 1F5-38)  
**1F5-33** Prolinol Derivatives-catalyzed Asymmetric Ring-opening Reaction of *meso*-Aziridines with Thiols (College of Science, Ibaraki Univ.) SATO, Hisayuki; NAGASHIMA, Fumiaki; ORIYAMA, Takeshi  
**1F5-34** Kinetic Resolution of  $\beta$ -Hydroxy Sulfides by Catalytic Asymmetric Acylation (College of Science, Ibaraki Univ.) KAWAMATA, Yoshiyuki; ORIYAMA, Takeshi  
**1F5-35** Chiral Diamine-catalyzed Asymmetric Robinson Annulation (Kochi Univ.) INOKOISHI, Yogo; KOTSUKI, Hiyooshizo

- 1F5-36** Chiral Diamine-catalyzed Asymmetric Robinson Annulation: Application to the Enantioselective Synthesis of (+)-SporochnolA (Kochi Univ.) SASAKURA, Niiha; INOKOISHI, Yogo; KOTSUKI, Hiyooshizo  
**1F5-37** Development of Direct Asymmetric Bromination Reaction Catalyzed by a Binaphthyl-based Amine (Grad. Sch. Sci., Kyoto Univ.) SHIROZU, Fumitaka; KANO, Taichi; MARUOKA, Keiji  
**1F5-38** Development of Direct Asymmetric Aminoxylation Reaction Catalyzed by a Binaphthyl-based Amine (Department of Chemistry, Graduate School of Science, Kyoto Univ.) MII, Haruka; KANO, Taichi; MRUOKA, Keiji

Chair: HAYASHI, Yujiro (15:30~16:30)

- \* 15:20-15:30: interval for laptop PC connection.(1F5-40, 1F5-41, 1F5-42, 1F5-43, 1F5-44, 1F5-45)  
**1F5-40** Asymmetric allylation of aromatic aldehydes using asymmetric Lewis base catalysts derived from cyclohexanediamine (Department of Chemistry, National Defense Academy) ISHIMARU, Kaori; TANIMURA, Yuya  
**1F5-41** Enantioselective Robinson-type Annulation Reaction Catalyzed by Chiral Phosphoric Acid utilizing of the Kinetic Resolution (Faculty of Science, Gakushuin Univ.) ICHIKAWA, Shinya; KATO, Takuya; MORI, Keiji; AKIYAMA, Takahiko  
**1F5-42** Theoretical Study on Chiral Phosphoric Acid-Catalyzed Asymmetric Synthesis of Chiral Cyclohexenones via Kinetic Resolution (Rikkyo Univ.; Gakushuin Univ.) HOSHINO, Masaya; YAMANAKA, Masahiro; MORI, Keiji; AKIYAMA, Takahiko  
**1F5-43** Asymmetric Synthesis of Chiral Cyclohexenones via Chiral Phosphoric Acid-Catalyzed Desymmetrization. (Faculty of Science, Gakushuin Univ.) MORI, Keiji; KATOH, Takuya; NOJI, Takuya; YAMANAKA, Masahiro; AKIYAMA, Takahiko  
**1F5-44** Application of Chiral Arylaminophosphonium Borates as a Cationic Bronsted Acid Catalyst to Asymmetric Conjugate Addition of Thiophenol Derivatives (Nagoya Univ.) NAKASHIMA, Daisuke; URAGUCHI, Daisuke; OOI, Takashi  
**1F5-45** Enantioselective Protonation Catalyzed by Arylaminophosphonium Borates (Nagoya Univ.) KINOSHITA, Natsuko; URAGUCHI, Daisuke; OOI, Takashi

Chair: KANO, Taichi (16:40~17:40)

- \* 16:30-16:40: interval for laptop PC connection.(1F5-47, 1F5-48, 1F5-49, 1F5-50, 1F5-51)  
**1F5-47** Diastereo- and Enantioselective Hosomi-Sakurai Allylation Reaction of Imines Catalyzed by Chiral Bronsted Acid (Graduate School of Science, Tohoku Univ.) NISHIMOTO, Hayato; MOMIYAMA, Norie; TERADA, Masahiro  
**1F5-48** Synthesis of 2,4-Substituted Homoallylamines via 1,3-Rearrangement Catalyzed by Bronsted Acid (Graduate School of Science, Tohoku Univ.) SANO, Asuka; MOMIYAMA, Norie; TERADA, Masahiro  
**1F5-49** Catalytic Asymmetric Henry Reaction of Ynals by Using Chiral Tetraaminophosphonium Salts. (Nagoya Univ.) NAKAMURA, Shinji; URAGUCHI, Daisuke; OOI, Takashi  
**1F5-50** Catalytic Enantioselective Hydrophosphonylation of Ynones (Nagoya Univ.) ITO, Takaki; URAGUCHI, Daisuke; OOI, Takashi  
**1F5-51\*** Enantioselective Conjugate Addition of Acyl Anion Equivalent Catalyzed by Chiral Phosphonium Salt Possessing a Functional Organic Anion (Nagoya Univ.) UEKI, Yusuke; URAGUCHI, Daisuke; OOI, Takashi

Chair: OOI, Takashi (17:50~18:30)

- \* 17:40-17:50: interval for laptop PC connection.(1F5-54, 1F5-56, 1F5-57)  
**1F5-54\*** Chiral Phosphoric Acid-Catalyzed Asymmetric Mannich-Type Reaction via Boron Enolates (Doshisha Univ.) TOKIZANE, Masashi; YANAGI, Hiroyuki; TOMONO, Yuki; YAMAMOTO, Takayuki; OE, Yohei; OHTA, Tetsuo  
**1F5-56** Chiral Bronsted Acid Catalyzed Asymmetric Hetero Diels-Alder Reaction of Glyoxylate with Dienes (Graduate School of Science, Tohoku Univ.) TABUSE, Hideaki; MOMIYAMA, Norie; TERADA, Masahiro  
**1F5-57** Development of Chiral Bis-phosphoric Acid and its Application to Cyclization of  $\alpha, \beta$ -Unsaturated Aldehyde (Graduate School of Science, Tohoku Univ.) KONNO, Tohru; MOMIYAMA, Norie; FURIYA, Yuichi; IWAMOTO, Takeaki; TERADA, Masahiro

Saturday, March 27, AM

Chair: NAKAMURA, Shuichi (9:00~9:50)

- \* 8:50-9:00: interval for laptop PC connection.(2F5-01, 2F5-02, 2F5-03, 2F5-04, 2F5-05)  
**2F5-01** Asymmetric Trisubstituted Aziridination using *N*- $\alpha$ -Diazocetyl Camphorsultam (Department of Chemistry, Graduate School of Science, Kyoto Univ.) NAKATSU, Hiroki; WATANABE, Shogo; HASHIMOTO, Takuya; MARUOKA, Keiji  
**2F5-02** Stereoselective Synthesis of Chiral Cyclic  $\beta$ -Keto Carbonyl Compounds Having an  $\alpha$ -Hydrogen by Ring Expansion (Department of Chemistry, Graduate School of Science, Kyoto Univ.) NAGANAWA, Yuki; HASHIMOTO, Takuya; MARUOKA, Keiji  
**2F5-03** Relay Catalysis by a Metal-complex/Chiral Bronsted Acid Binary

System in a Tandem Isomerization/Asymmetric Pictet-Spengler Reaction (Graduate School of Science, Tohoku Univ.) TODA, Yasunori; TERADA, Masahiro

**2F5-04** Phase-transfer Catalyzed Asymmetric Synthesis of 1,4-Enynes Having an All-carbon Quaternary Center (Grad. Sch. Sci., Kyoto Univ.) SAKATA, Kazuki; HASHIMOTO, Takuya; MARUOKA, Keiji

**2F5-05** Phase Transfer Catalyzed Enantioselective Alkylation of Allene 1,3-Dicarboxylates (Department of Chemistry, Graduate School of Science, Kyoto Univ.) ANABUKI, Shoma; HASHIMOTO, Takuya; MARUOKA, Keiji

Chair: KOTSUKI, Hiyoshizo (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(2F5-07, 2F5-08, 2F5-09, 2F5-11, 2F5-12)

**2F5-07<sup>†</sup>** Chiral Bronsted Acid-Catalyzed Asymmetric Synthesis of Tryptophan Derivatives via Vinylogous Iminium Intermediate (Graduate School of Science, Tohoku Univ.) MORIYA, Ken-ichi; SORIMACHI, Keiichi; TERADA, Masahiro

**2F5-08** Highly Enantioselective Trifluoromethylation of Azomethine Imines and Its Application to the Synthesis of Optically Active Trifluoromethyl Amines. (Nagoya Institute of Technology, Graduated School of Engineering) KAWAI, Hiroyuki; KUSUDA, Akihiro; TOKUNAGA, Etsuko; NAKAMURA, Shuichi; SHIBATA, Norio

**2F5-09\*** Development of Novel Base-Free Phase-Transfer Reaction System (Department of Chemistry, Graduate School of Science, Kyoto Univ.) SHIRAKAWA, Seiji; HE, Rongjun; WANG, Lijia; MARUOKA, Keiji

**2F5-11** Oxazaborolidinone-Catalyzed Asymmetric Friedel-Crafts Alkylation of Electron-Rich Heteroaromatics: Advance in Reaction Scope (Kyoto Institute of Technology) WATANABE, Kazuya; ADACHI, Shinya; WATADA, Atsushi; HARADA, Toshiro

**2F5-12** Oxazaborolidinone-Catalyzed Asymmetric Friedel-Crafts Alkylation of Electron-Rich Heteroaromatics: Effect of Amine Additive (Kyoto Institute of Technology) ADACHI, Shinya; HARADA, Toshiro

Chair: NAKAI, Takeshi (11 : 10~12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(2F5-14)

**2F5-14** The Chemical Record Lecture Rapid synthesis of polyketides and some natural product syntheses (Univ. of Chicago) YAMAMOTO, Hisashi

## Saturday, March 27, PM

Chair: NAKATA, Kenya (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(2F5-34, 2F5-35, 2F5-36, 2F5-37, 2F5-38)

**2F5-34** Development of New Aminohydroxyacetone Synthons: Application to Organocatalytic Asymmetric Aldol Reactions (Kochi Univ.) KOMATSU, Yoshiyuki; IKISHIMA, Hideaki; KOTSUKI, Hiyoshizo

**2F5-35** Development of New Aminohydroxyacetone Synthons: Application to Organocatalytic Asymmetric Mannich Reactions (Fac. Sci., Kochi Univ.) KOMATSU, Yoshiyuki; KAWAKAMI, Yoshihide; IKISHIMA, Hideaki; KOTSUKI, Hiyoshizo

**2F5-36** Enantiodivergent catalytic Mannich-type reaction with guanidine/thiourea organocatalyst (Department of Biotechnology and Life Science, Faculty of Technology, Tokyo Univ. of Agriculture and Technology) TANAKA, Shinji; TAKADA, Keisuke; SOHTOME, Yoshihiro; NAGASAWA, Kazuo

**2F5-37** Mechanistic Analysis of Guanidine/Thiourea-catalyzed Enantiodivergent Mannich-type reaction (Department of Biotechnology and Life, Faculty of Technology, Tokyo Univ. of Agriculture and Technology) SOHTOME, Yoshihiro; TANAKA, Shinji; TAKADA, Keisuke; NAGASAWA, Kazuo

**2F5-38<sup>††</sup>** Catalytic asymmetric 1,4-additions of nitroolefins with guanidine/thiourea organocatalysts having conformationally flexible chiral spacer (Department of Biotechnology and Life, Faculty of Technology, Tokyo Univ. of Agriculture and Technology) SHIN, Bongki; HORITSUGI, Natsuko; TAKAGI, Rika; SOHTOME, Yoshihiro; NAGASAWA, Kazuo

Chair: OHMATSU, Kohsuke (15 : 40~16 : 30)

\* 15:30-15:40: interval for laptop PC connection.(2F5-41, 2F5-42, 2F5-43, 2F5-44, 2F5-45)

**2F5-41** Asymmetric Esterification of Bulky Carboxylic Acids with Racemic Heteroaromatized Benzylic Alcohols Using MA-BTM Combined System (Tokyo Univ. of Science) NAKATA, Kenya; ONO, Keisuke; GOTOH, Kouya; SHIINA, Isamu

**2F5-42** Asymmetric Esterification of Racemic 1,2-Diols with Bulky Carboxylic Acids Using MA-BTM Combined System (Tokyo Univ. of Science) NAKATA, Kenya; KATAOKA, Jun; SHIINA, Isamu

**2F5-43** Application of Homoproline Derivative Bearing a Phosphonic Acid Monoester Moiety as an Organocatalyst in The Asymmetric Michael Addition Reaction (Dept. Chem., Grad. Sch. Sci., Hiroshima Univ.) TRIANA, Widiandi; HIRAGA, Yoshikazu; KOJIMA, Satoshi; ABE, Manabu

**2F5-44** Synthesis of the homoproline methyl ester derivatives and their catalytic abilities in the asymmetric aldol reactions (Dept. Chem., Grad. Sch. Sci., Hiroshima Univ.) KUNISHI, Tsuyoki; TRIANA, Widiandi; HIRAGA, Yoshikazu; ABE, Manabu

**2F5-45** Synthesis and reactions of the optically active  $\beta$ -aminoguanidines (Dept. Chem., Grad. Sch. Sci., Hiroshima Univ.; Center of Quantum Life Sciences, Hiroshima Univ.) KOSAKA, Ami; KOJIMA, Satoshi; ABE, Manabu

Chair: ISHIHARA, Kazuaki (16 : 40~17 : 20)

\* 16:30-16:40: interval for laptop PC connection.(2F5-47, 2F5-49)

**2F5-47\*** Rationalization of the Catalytic Asymmetric Esterification Using MA-BTM Combined System (Tokyo Univ. of Science) SHIINA, Isamu

**2F5-49\*** An Effective Asymmetric Esterification of Racemic Carboxylic Acids with Achiral Diarylmethanols Using Pivalic Anhydride and a New BTM Catalyst (Tokyo Univ. of Science) NAKATA, Kenya; ONO, Keisuke; SHIINA, Isamu

## Sunday, March 28, AM

Chair: SASAI, Hiroaki (9 : 00~9 : 50)

\* 8:50-9:00: interval for laptop PC connection.(3F5-01, 3F5-02, 3F5-03, 3F5-04)

**3F5-01** Kinetic Resolution of Racemic 2-Hydroxyalkanoate by Asymmetric Esterification of Bulky Carboxylic Acids Using MA-BTM Combined System (Tokyo Univ. of Science) NAKATA, Kenya; ONO, Keisuke; SEKIGUCHI, Akihiro; SHIINA, Isamu

**3F5-02** Kinetic Resolution of Racemic Propargylalcohols by Asymmetric Esterification of Bulky Carboxylic Acids Using MA-BTM Combined System (Tokyo Univ. of Science) SHIINA, Isamu; UMEZAKI, Yuma; NAKATA, Kenya

**3F5-03** Development of Chiral Onium-Phosphine Hybrid Ligands for Efficient Asymmetric Palladium Catalysis (Nagoya Univ.) OHKUBO, Masashi; OHMATSU, Kohsuke; OOI, Takashi

**3F5-04\*** Ammonium Betaine as an Ionic Nucleophilic Catalyst (Nagoya Univ.) KOSHIMOTO, Kyohei; URAGUCHI, Daisuke; OOI, Takashi

Chair: YOSHIDA, Masanori (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(3F5-07, 3F5-08, 3F5-09, 3F5-10, 3F5-12)

**3F5-07** Chiral Hypervalent Iodine(III)-Catalyzed Enantioselective Oxidative Dearomatization of 1-Naphthol Derivatives to Spirolactones (Nagoya Univ.) YASUI, Takeshi; UYANIK, Muhammet; ISHIHARA, Kazuaki

**3F5-08** Chiral Hypervalent Iodine-Catalyzed Enantioselective Intramolecular Oxidative Etherification to 2,3-Dihydrobenzofuran-2-Carbonyl Derivatives (Nagoya Univ.) OKAMOTO, Hiroaki; YASUI, Takeshi; UYANIK, Muhammet; ISHIHARA, Kazuaki

**3F5-09** Hypervalent Iodine-Catalyzed Oxidative Intermolecular Coupling of Carbonyl Compounds and Carboxylic Acids (Nagoya Univ.) SUZUKI, Daisuke; UYANIK, Muhammet; ISHIHARA, Kazuaki

**3F5-10<sup>††</sup>** Enantioselective Domino Processes Based on aza-Morita-Baylis-Hillman Reaction (ISIR, Osaka Univ.) INOUE, Naohito; TAKIZAWA, Shinobu; SASAI, Hiroaki

**3F5-12** Highly Enantioselective aza-Morita-Baylis-Hillman Reaction with a Bisphenol-based Bifunctional Organocatalyst (2) (Fukuoka Univ. of Education) ITO, Katsuji; HATA, Tomohisa; KUSAMIDZU, Yuya

Chair: HAYASHI, Tamio (11 : 10~12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(3F5-14)

**3F5-14<sup>#</sup>** Special Lecture Designing Chiral Auxiliaries for Asymmetric Synthesis (The Univ. of Oxford, UK) Stephen G. Davies

## Sunday, March 28, PM

Chair: TAKIZAWA, Shinobu (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(3F5-26, 3F5-27, 3F5-28, 3F5-29, 3F5-30, 3F5-31)

**3F5-26** Design of Chiral Lithium(I) Binaphtholate Salts for *syn*- or *anti*-Selective and Enantioselective Direct Mannich-type Reaction (Nagoya Univ.; CREST, JST) HORIBE, Takahiro; HATANNO, Manabu; ISHIHARA, Kazuaki

**3F5-27** Enantioselective Aza-Friedel-Crafts Reaction Catalyzed by Chiral Ammonium 1,1'-Binaphthyl-2,2'-disulfonates (Nagoya Univ.; CREST, JST) SUGIURA, Yoshihiro; HATANNO, Manabu; ISHIHARA, Kazuaki

**3F5-28** Asymmetric Michael addition of malonates to enones using *O*-silylated serine lithium salt (Graduate School of Engineering, Hokkaido Univ.) NARITA, Mao; YOSHIDA, Masanori; HARA, Shoji

**3F5-29** Development of Enantioselective Bromocyclization of Polypropenoids Catalyzed by Chiral Phosphoramidites (Nagoya Univ.; CREST, JST) UKAI, Atsushi; SAKAKURA, Akira; ISHIHARA, Kazuaki

**3F5-30** Chiral Lewis Base-Assisted Bronsted Acid(LBBA) Catalyzed Enantioselective Polyene Cyclization (Nagoya Univ.; CREST, JST) SAKUMA, Masayuki; SAKAKURA, Akira; ISHIHARA, Kazuaki

**3F5-31** Highly stereoselective [4+2] Type Cycloaddition of Azlactones to  $\beta$ ,  $\gamma$ -Unsaturated  $\alpha$ -Ketoesters Catalyzed by Axially Chiral Guanidine Bases (Graduate School of Science, Tohoku Univ.) NII, Hiroyuki; NAKANO, Megumi; TERADA, Masahiro

Chair: HASHIMOTO, Takuya (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\***† Desymmetrization of 2-O-Pyroc-Glycerol Derivatives through a Catalytic Asymmetric Acylation (Nagoya Univ.; CREST, JST) UMEMURA, Shuhei; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 3F5-35** Development of Selective Dehydrative Ester Condensation Catalyzed by Bulky *N,N*-Diarylammonium Sulfates in Water (Nagoya Univ.; CREST, JST) KOSHIKARI, Yoshiki; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 3F5-36** Asymmetric Michael Type Addition of 5H-oxazole-4-one to Methyl Propiolates Catalyzed by Novel Chiral Guanidines (Univ. of Hyogo) KAWANO, Kei; MISAKI, Tomonori; SUGIMURA, Takashi
- 3F5-37** Synthesis of Novel Thiourea Derivatives bearing Bornane-type Chiral Auxiliaries and Their Synthetic use as Chiral Organocatalysts (Faculty of Engineering, Iwate Univ.) SHIMADA, Kazuaki; SAWAGUCHI, Koji; OGAWA, Satoshi
- 3F5-38** Catalytic Enantioselective Hydrophosphonylation of Ketimines Using Cinchona Alkaloids and Base (Nagoya Institute of Technology) HAYASHI, Masashi; HIRAMATSU, Yuichi; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi

Chair: SUGIMURA, Takashi (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(3F5-40, 3F5-41, 3F5-42, 3F5-43, 3F5-44, 3F5-45)
- 3F5-40\***† Chemoenzymatic synthesis of enantiomerically pure cyclitol derivative (Faculty of Pharmacy, Keio Univ.) HAMADA, Manabu; INAMI, Yoshikazu; HIGASHI, Toshinori; SHOJI, Mitsuru; UMEZWA, Kazuo; SUGAI, Takeshi
- 3F5-41** Remote asymmetrical recognition based primary hydroxyl group by enzyme II: Synthetic study on Pregabalin synthetic intermediate. (The Univ. of Shiga Pref.) NAKASHIMA, Masaki; MATSUMOTO, Takatoshi; TAKESHITA, Mitsuhiro; WATANABE, Masataka; KUMAGAI, Tsutomu; INOUE, Yoshinori
- 3F5-42** Remotely Asymmetrical Recognition Based on a Primary Hydroxyl Group by Enzyme I : Synthetic Study of (R)- and (S)-2-isopropyl-3-phenylpropanol (The Univ. of Shiga Pref.) SHIKI, Motoki; MATSUMOTO, Takatoshi; TAKESHITA, Mitsuhiro; WATANABE, Masataka; KUMAGAI, Tsutomu; INOUE, Yoshinori
- 3F5-43\***† Facile Construction of Highly Functionalized Anthraquinone Derivatives, Part 1: [3+2] Cycloaddition of Stable Nitrile Oxides with Quinone Monoacetals (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) HIKITA, Katsuyoshi; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 3F5-44** Facile Construction of Highly Functionalized Anthraquinone Derivatives, Part 2: [3+2] Cycloaddition of Stable Nitrile Oxides with Functionalized Cyclohexenones (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) YOSHINAGA, Yuki; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 3F5-45** Synthesis of novel donor/acceptor conjugated dienes and their reactivity (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) MOCHIZUKI, Yuta; YOSHINARI, Tomohiro; OHMORI, Ken; SUZUKI, Keisuke

Chair: YAMASHITA, Yasuhiro (16 : 40~17 : 40)

- \* 16:30-16:40: interval for laptop PC connection.(3F5-47, 3F5-48, 3F5-49, 3F5-50, 3F5-51, 3F5-52)
- 3F5-47** Stereoselective Addition Reaction of  $\alpha$ -Boryl- $\beta,\gamma$ -Unsaturated Nitrile Derivative with Aldehydes (Hokkaido Univ.) SAKURAI, Kentaro; DOTA, Kouichirou; TANINO, Keiji
- 3F5-48** Stereoselective Construction of Quaternary Carbon Atom by Using Hydroboration Reaction of Conjugated Dienes (Hokkaido Univ.) SAKOH, Ryusuke; DOTA, Kouichirou; KON, Ayako; NAKAGAWA, Daisuke; TANINO, Keiji
- 3F5-49** The Peterson Reaction and the Darzens Reaction of  $\alpha,\beta$ -Unsaturated Nitrile Derivatives at the  $\gamma$ -Carbon Atom (Hokkaido Univ.) MIYAMOTO, Keisuke; FUKUDA, Koichiro; TANINO, Keiji
- 3F5-50** Claisen Rearrangement of  $\alpha$ -Imino Allyl Esters via Umpolung Reaction (Mie Univ.) MIZOTA, Isao; SHIMIZU, Makoto
- 3F5-51** Synthesis of 2,2-Disubstituted Indoline-3-one via *N*-Alkylation to  $\alpha$ -Imino Esters, Followed by Intramolecular Cyclization (Mie Univ.) MIZOTA, Isao; TAKAO, Yuki; SHIMIZU, Makoto
- 3F5-52** *N*-Alkylation of  $\beta,\gamma$ -Alkynyl- $\alpha$ -iminoester Followed by Electrophilic Addition with Various Electrophiles (Mie Univ.) MATSUDA, Yuri; SHIMIZU, Makoto

Chair: TANINO, Keiji (17 : 50~18 : 30)

- \* 17:40-17:50: interval for laptop PC connection.(3F5-54, 3F5-55, 3F5-56, 3F5-57)
- 3F5-54** Carboidination of benzyne by using alkynyl lithium as a nucleophile (Department of Chemistry, School of Science and Technology, Kwasei Gakuin Univ., PRESTO) NAKATSUJI, Yuya; CHUDA, Yu; SUZUKI, Keisuke; HAMURA, Toshiyuki
- 3F5-55** Alkynyl lithium catalyzed nucleophilic addition to benzyne (Department of Chemistry, School of Science and Technology, Kwasei Gakuin Univ., PRESTO) CHUDA, Yu; NAKATSUJI, Yuya; SUZUKI,

Keisuke; HAMURA, Toshiyuki

- 3F5-56** Stereoselective Mannich Reaction Using an Umpolung of  $\alpha$ -Imino Esters (Mie Univ.) KURITA, Daizi; SHIMIZU, Makoto
- 3F5-57** Double Nucleophilic Addition Reaction Using an Umpolung of  $\beta,\gamma$ -Alkynyl- $\alpha$ -iminoester (Mie Univ.) MATSUDA, Yuri; KAMIMURA, Satoshi; SHIMIZU, Makoto

## Monday, March 29, AM

Chair: IGAWA, Kazunobu (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(4F5-01, 4F5-02, 4F5-03, 4F5-04, 4F5-05)
- 4F5-01** Synthesis of Optically Active Bicyclic Dipeptide Containing Twisted Amide Bond (Tokyo Univ. of Agriculture and Technology) YAMAGUCHI, Keita; OIKE, Hideaki
- 4F5-02** Catalytic enantioselective reduction of trifluoromethyl ketones using chiral lactam alcohol (Faculty of Agriculture, Kagawa Univ.) TSUNOI, Wataru; KAWANAMI, Yasuhiro
- 4F5-03** Convenient synthesis of highly optically active homoallyl alcohols by Allyl-Transfer reaction (Okayama Univ. of Science; Faculty of Engineering) KAGA, Hiroyuki; NAKANISHI, Yutaka; MAEDA, Reina; KUNITADA, Takahiro; NOKAMI, Junzo
- 4F5-04** Study on the Asymmetric Synthesis of 2,6-trans-Disubstituted Piperidine Catalyst (Kumamoto Univ.) MUKAEDA, Yuri; HAMAMATSU, Mayu; IRIE, Ryo
- 4F5-05\***† Synthesis of Enantiopure 7-Azanorbornan-2-on Derivative (The Graduate Univ. for Advanced Studies; Institute for Molecular Science) ONOGI, Satoru; HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro

Chair: TOBISU, Mamoru (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(4F5-07, 4F5-08, 4F5-09, 4F5-10, 4F5-12)
- 4F5-07** Synthesis and Stereochemical Behavior of A Novel Zinc Complex Having Planar Chiral Diamine Ligand (Tokyo Inst. of Technology; Inst. for Materials Chemistry and Engineering, Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) MIYAKE, Yuuki; HATAYAMA, Yusuke; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 4F5-08** Synthesis of Planar Chiral Dipeptide (Tokyo Inst. of Technology; Interdisciplinary Graduate School of Engineering Sciences, Inst. for Materials Chemistry and Engineering, Kyushu Univ.) KAWABATA, Takeshi; OGI, Yoshinobu; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 4F5-09** Novel ring expansion of benzocyclobutenes bearing heteroaromatics to heterospiro[4.5]decane derivatives (Tokyo Institute of Technology; SORST, JST) HAYASHI, Taiki; FUKUI, Nobuaki; OHMORI, Ken; SUZUKI, Keisuke
- 4F5-10\***† Novel thermal ring expansion of cyclopropylbenzocyclobutenes to highly functionalized benzocycloheptenes (Tokyo Institute of Technology; SORST) FUKUI, Nobuaki; OHMORI, Ken; SUZUKI, Keisuke
- 4F5-12** Synthetic study on optically active  $C_2$ -symmetric cyclophanes (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) TAKIGUCHI, Hiromu; HOMMA, Sunao; YAMADA, Akio; MORI, Keizi; OHMORI, Ken; SUZUKI, Keisuke

Chair: HAMURA, Toshiyuki (11 : 10~12 : 00)

- \* 11:00-11:10: interval for laptop PC connection.(4F5-14, 4F5-15, 4F5-16, 4F5-17, 4F5-18)
- 4F5-14** Regio- and Stereoselective Iodoamidation of Olefins with  $I_2$  and Chloramine Salts in Water (Osaka Univ.) MINAKATA, Satoshi; HAYAKAWA, Junpei; SASAKI, Itsuro; MITANI, Yuki
- 4F5-15\***† Development of stereoselective carbon-carbon bond forming reactions using aminoalkanes bearing fluorenylidene group (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) CHEN, Yi-jing; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 4F5-16** Development of highly stereoselective addition of  $\alpha$ -aminoacetonitriles bearing fluorenylidene group to imines (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) MATSUMOTO, Masatoshi; CHEN, Yi-jing; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 4F5-17** Free Radical-Mediated Bromoallylation of Terminal Alkynes (Graduate School of Science, Osaka Prefecture Univ.) KIPPO, Takashi; FUKUYAMA, Takahide; RYU, Ilhyong
- 4F5-18** One-pot synthesis of cyanohydrine using alkyl halide as starting material. (Graduate School of Science, Osaka Prefecture Univ.) OKAI, Hiroyuki; FUKUYAMA, Takahide; FUSANO, Akira; RYU, Ilhyong

## Monday, March 29, PM

Chair: MINAKATA, Satoshi (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(4F5-26, 4F5-27, 4F5-28, 4F5-29, 4F5-30, 4F5-31)
- 4F5-26** New Synthesis of Lactam Rings by Three-component Coupling of Alkynes, Amidines, and CO (Graduate School of Science, Osaka Prefecture Univ.) NAKASHIMA, Nao; FUKUYAMA, Takahide; RYU, Ilhyong
- 4F5-27** Radical carbonylation reaction at  $sp^3C-H$  in the presence of



tetrabutylammonium decatungstate (TBADT) as a photocatalyst. (Graduate School of Science, Osaka Prefecture Univ.) TANI, Akihiro; FUKUYAMA, Takahide; FAGNONI, Maurizio; RYU, Ilhyong

**4F5-28** Stereocontrol in the radical reaction of  $\gamma$ -substituted- $\alpha$ -methylene- $\gamma$ -lactams (Ochanomizu Univ.) YOSHIDA, Eriko; YAJIMA, Tomoko; NAGANO, Hajime

**4F5-29** Efficient Synthesis of Polycyclic Aromatic Compounds via Successive Cycloaddition of Functionalized Isobenzofurans (Department of Chemistry, School of Science and Technology, Kwansei Gakuin Univ., PRESTO) NAKATSUJI, Yuya; SUZUKI, Keisuke; HAMURA, Toshiyuki

**4F5-30** Study on the reaction mechanism of thermal isomerization of tricyclobutenes into hexaradialenes. (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) SHINOZAKI, Shinya; HAMURA, Toshiyuki; SUZUKI, Keisuke

**4F5-31** Stereoselective Synthesis of Bicyclic Ethers by Oxy-Favorskii Rearrangement (Graduate School of Science, Osaka Prefecture Univ.) KINOSHITA, Tatsuhiro; KOBAYASHI, Shoji; KAWAMOTO, Takuji; RYU, Ilhyong

## Room F6

Bldg.17 17-202

### Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Friday, March 26, AM

Chair: NAKATA, Kenya (9 : 20 ~ 10 : 00)

\* 9:10-9:20: interval for laptop PC connection.(1F6-03, 1F6-05, 1F6-06)

**1F6-03\*** Development of Catalytic Asymmetric Reactions Using Alkaline Earth Metal Catalysts (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) TSUBOGO, Tetsu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

**1F6-05** Development of a synthetic method of nonnatural chiral glutamic acid derivatives using chiral calcium catalysts (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) KANO, Yuichiro; TSUBOGO, Tetsu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

**1F6-06<sup>#</sup>** 1,4 Addition - asymmetric protonation sequence catalyzed by a chiral calcium complex (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) POISSON, Thomas; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

Chair: NAKAMURA, Shuichi (10 : 10 ~ 11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(1F6-08, 1F6-09, 1F6-10, 1F6-11, 1F6-12)

**1F6-08** Development of Titanium Lewis Acid-catalyzed Enantioselective 1,3-Dipolar Cycloaddition of C,N-Cyclic Azomethine Imines (Department of Chemistry, Graduate School of Science, Kyoto Univ.) HASHIMOTO, Takuya; MARUOKA, Keiji

**1F6-09<sup>†</sup>** Inverse-Electron Demand 1,3-Dipolar Cycloaddition of C,N-Cyclic Azomethine Imines Catalyzed by Axially Chiral Dicarboxylic Acid (Department of Chemistry, Graduate School of Science, Kyoto Univ.) OMOTE, Masato; HASHIMOTO, Takuya; MARUOKA, Keiji

**1F6-10** Enantioselective Vinylogous Imino Aza-enamine Reaction Catalyzed by Axially Chiral Dicarboxylic Acid (Grad. Sch. Sci., Kyoto Univ.) KIMURA, Hidenori; HASHIMOTO, Takuya; MARUOKA, Keiji

**1F6-11<sup>#</sup>** Chiral Silver Amide Catalyzed Asymmetric [3+2] Cycloaddition of  $\alpha$ -Aminophosphonates (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) GUO, Xun-xiang; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

**1F6-12** Development of enantioselective [3+2] cycloaddition reactions of glycine Schiff bases using a chiral silver amide (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) YAMASHITA, Yasuhiro; IMAIZUMI, Takaji; KOBAYASHI, Shu

Chair: SHIBATOMI, Kazutaka (11 : 10 ~ 12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(1F6-14, 1F6-16, 1F6-17, 1F6-18)

**1F6-14\*** Enantioselective Intra- and Intermolecular C-H Insertion Using Iridium-salen Complexes as Catalyst (Kyushu Univ.) SUEMATSU, Hidehiro; KATSUKI, Tsutomu

**1F6-16** Enantioselective Intramolecular C-H Amination with Azides (Kyushu Univ.) ICHINOSE, Masami; SUEMATSU, Hidehiro; KATSUKI, Tsutomu

**1F6-17** Synthesis of Cyclopropene Derivatives Containing a Chiral Quaternary Carbon Center (Kyushu Univ.) UEHARA, Misaki; SUEMATSU, Hidehiro; KATSUKI, Tsutomu

**1F6-18** Chiral Amplification in Enantioselective Fluorinations Using DBFOX-Ph (Nagoya Institute of Technology) SUZUKI, Satoru; REDDY,

Dhanda Sudhakar; TOKUNAGA, Etsuko; NAKAMURA, Shuichi; SHIBATA, Norio

Friday, March 26, PM

Chair: TOMOOKA, Katsuhiko (13 : 10 ~ 14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(1F6-26, 1F6-29)

**1F6-26** Young Scholar Lectures of CSJ Asymmetric Epoxidation Using Aqueous Hydrogen Peroxide (Dept. Chem., Fac. Sci., Grad. Sch., Kyushu Univ.) MATSUMOTO, Kazuhiro

**1F6-29** CSJ Award for Young Chemists Asymmetric Induction by the Carbon Isotope Chirality and Highly Sensitive Chiral Discrimination (Tokyo Univ. of Sci.) KAWASAKI, Tsuneomi

Chair: ARAI, Takayoshi (14 : 20 ~ 15 : 10)

\* 14:10-14:20: interval for laptop PC connection.(1F6-33, 1F6-34, 1F6-35, 1F6-36, 1F6-37)

**1F6-33** Indium(III) hexamethyldisilazide: A novel catalyst for selective ketone allylation and crotylation (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) YAMAGUCHI, Miyuki; SCHNEIDER, Uwe; KOBAYASHI, Shu

**1F6-34<sup>#</sup>** Indium-catalyzed asymmetric allylation and crotylation of ketones (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) HUANG, Yiyong; YAMAGUCHI, Miyuki; SCHNEIDER, Uwe; KOBAYASHI, Shu

**1F6-35** Indium-catalyzed carbon-carbon bond formations between aldehydes and allyl boronates displaying  $\alpha$ -selectivity (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) MORITA, Naohide; SCHNEIDER, Uwe; KOBAYASHI, Shu

**1F6-36** Catalytic Asymmetric Arylation of Aldehydes by Using Organolithium Reagents (Kyoto Institute of Technology) NAKAGAWA, Yuya; HARADA, Toshiro

**1F6-37** Catalytic Asymmetric Alkenylation of Aldehydes by Using Alkenyl-boron Reagents (Kyoto Institute of Technology) SHONO, Takashi; HARADA, Toshiro

Chair: NISHIBAYASHI, Yoshiaki (15 : 20 ~ 16 : 10)

\* 15:10-15:20: interval for laptop PC connection.(1F6-39, 1F6-40, 1F6-41, 1F6-42, 1F6-43)

**1F6-39** Scale-Up Synthesis of Camptothecin Intermediate Using Polymer-Incarcerated Osmium Catalyzed Asymmetric Dihydroxylation (Graduate School of Science, the Univ. of Tokyo) AKIYAMA, Ryo; KOBAYASHI, Shu

**1F6-40** Development of Novel Polymer-Incarcerated Osmium Catalysts (Wako Pure Chemical Industries, Ltd.; Graduate School of Science, The Univ. of Tokyo) MIYAKE, Yutaka; AKIYAMA, Ryo; KOBAYASHI, Shu

**1F6-41** Bis(imidazolidine)-Cu Catalyzed Asymmetric Reactions (Graduate School of Science, Chiba Univ.) MISHIRO, Asami; YOKOYAMA, Naota; WASAI, Makiko; ARAI, Takayoshi

**1F6-42** Tandem Asymmetric Michael-Mannich Reaction Catalyzed by Imidazole-Aminophenol-Ni Complex (Graduate School of Science, Chiba Univ.) YOKOYAMA, Naota; MISHIRO, Asami; WASAI, Makiko; ARAI, Takayoshi

**1F6-43** Catalytic Asymmetric Synthesis of  $\beta$ -Carboline Alkaloids Using Friedel-Crafts/Henry Reaction (Graduate School of Science, Chiba Univ.) WASAI, Makiko; YOKOYAMA, Naota; MISHIRO, Asami; ARAI, Takayoshi

Chair: MATSUMOTO, Kazuhiro (16 : 20 ~ 17 : 10)

\* 16:10-16:20: interval for laptop PC connection.(1F6-45, 1F6-46, 1F6-47, 1F6-48, 1F6-49)

**1F6-45<sup>†</sup>** Highly Chemoselective Alkylation to Ketones with Grignard Reagent-Derived Zinc(II) Ate Complexes (Nagoya Univ.; CREST, JST) SUZUKI, Shinji; HATANO, Manabu; ISHIHARA, Kazuaki

**1F6-46** Highly Efficient Grignard Addition to Ketones Catalyzed by Extremely Active Zinc(II) Ate Complexes (Nagoya Univ.; CREST, JST) ITO, Ori; SUZUKI, Shinji; HATANO, Manabu; ISHIHARA, Kazuaki

**1F6-47** Catalytic Enantioselective Secondary-Alkyl Addition to Aldehydes with Organozinc(II) Reagents Prepared from Grignard Reagents (Nagoya Univ.; CREST, JST) MIZUNO, Tomokazu; HATANO, Manabu; ISHIHARA, Kazuaki

**1F6-48** Development of Catalytic Asymmetric Mannich-type Reactions Using sulfonylimidates as Nucleophiles (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) NAKANO, Junya; NGUYEN, Huy; MATSUBARA, Ryosuke; KOBAYASHI, Shu

**1F6-49** Development of Direct Allylation Reactions of Sulfonylimidates using Allyl Alcohol (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) KOBAYASHI, Shu; MASUDA, Koichiro; NAKANO, Junya; MATSUBARA, Ryosuke

Chair: HARADA, Toshiro (17 : 20 ~ 18 : 30)

\* 17:10-17:20: interval for laptop PC connection.(1F6-51, 1F6-53, 1F6-55,

1F6-57)

- 1F6-51\*** Collaborative Asymmetric Synthesis Using Organocatalysts and Transition Metal Catalysts: Organo- and Ruthenium-Catalyzed Enantioselective Propargylic Substitution Reactions (The Univ. of Tokyo) IKEDA, Masahiro; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 1F6-53\*** Enantioselective monofluoromethylation of allylic gem-diacetate using FBSM (Nagoya Institute of Technology) FURUKAWA, Tatsuya; GOTO, Yosuke; TOKUNAGA, Etsuko; NAKAMURA, Shuichi; SHIBATA, Norio
- 1F6-55\*** Catalytic asymmetric aldol-type reactions of acyclic acetals using a chiral Nb catalyst (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) YAMASHITA, Yasuhiro; ARAI, Kenzo; CHEN, Yi-jing; KOBAYASHI, Shu
- 1F6-57** Enantioselective Epoxidation of Styrenes Using Proline-Derived C<sub>1</sub>-Symmetric Ti(salan) Complex (Dept. Chem., Fac. Sci., Kyushu Univ.) OGUMA, Takuya; MATSUMOTO, Kazuhiro; KATSUKI, Tsutomu

## Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

Saturday, March 27, AM

Chair: MATSUBARA, Hiroshi (9:50~10:40)

- \* 9:40-9:50: interval for laptop PC connection.(2F6-06, 2F6-07, 2F6-08, 2F6-09, 2F6-10)
- 2F6-06** Selective Halogen-Lithium Exchange Reactions of Dibromopyridines Using Microreactor System (Kyoto Univ.) NAGAKI, Aiichiro; DOI, Masatomo; TOMIDA, Yutaka; TAKABAYASHI, Naofumi; YOSHIDA, Junichi
- 2F6-07** Deprotonation of *N*-(*t*-Butylsulfonyl) Aziridines Using Flow Microreactor Systems (Kyoto Univ.; Nihon Nohyaku Co.,Ltd.) TAKIZAWA, Eiji; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 2F6-08** Enantioselective Carbolithiation of Conjugated Enynes with Organolithiums using Flow Microreactor Systems (Kyoto Univ.) TOMIDA, Yutaka; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 2F6-09** Selective Hydrogenation of Alkynes to Alkenes by the Microflow System (Osaka Pref. Univ.) NAKATA, Katsuya; YOSWATHANANONT, Nungruethai; SATO, Masaaki
- 2F6-10** Efficient Sonogashira Coupling Reaction by a Flow System Having Single-mode, Multi-mode Microwave Heating and Microreactor Technologies (Osaka Pref. Univ.) FUKUDA, Yoji; KANEKO, Norihisa; MATSUZAWA, Mitsuhiro; SATO, Masaaki

Chair: NAGAKI, Aiichiro (10:50~11:30)

- \* 10:40-10:50: interval for laptop PC connection.(2F6-12, 2F6-13, 2F6-14, 2F6-15)
- 2F6-12** An Application of the Phase-Vanishing Method to the Grignard Reaction (Osaka Pref. Univ.) NIWA, Yuki; MATSUBARA, Hiroshi
- 2F6-13** Ring-opening Bromination of Cyclopropanes Using the Phase Vanishing Method (Osaka Pref. Univ.) KUNIYOSHI, Kenji; MATSUBARA, Hiroshi
- 2F6-14** Development of Membranous Polymeric Nanopalladium Composite-installed Microdevices and Their Application to Catalytic Reactions (RIKEN) WATANABE, Toshihiro; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro
- 2F6-15** Development of Novel Ionically Convolutated Polymeric Phosphotungstate Catalysts and Their Application to Selective Oxidation of Secondary Alcohols (RIKEN) JIN, Chungkeun; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro

Saturday, March 27, PM

Chair: MINAKATA, Satoshi (14:30~15:20)

- \* 14:20-14:30: interval for laptop PC connection.(2F6-34, 2F6-36, 2F6-37)
- 2F6-34\*** Halogen-Lithium Exchange Reactions of Halobenzenes Bearing Electrophilic Functional Group Using Flow Microreactor Systems (Kyoto Univ.) KIM, Heejin; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 2F6-36** Synthesis of  $\alpha$ -iminocarboxamide library by C-C bond-forming reaction (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; MASUI, Hisashi; TAKAHASHI, Takashi
- 2F6-37\*** Synthesis of a cyclic enediene analogue that undergo biradical formation induced by photo irradiation (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology.) TANAKA, Yoshikazu; FUSE, Shinichiro; KAWAUCHI, Susumu; TANAKA, Hiroshi; DOI, Takayuki; TAKAHASHI, Takashi

Chair: TANAKA, Hiroshi (15:30~16:10)

- \* 15:20-15:30: interval for laptop PC connection.(2F6-40, 2F6-42, 2F6-43)
- 2F6-40\*** Microwave assisted solution phase synthesis of new series of isoxazole and isoxazole library via 1,3-dipolar cycloaddition reaction (AIST) GAONKAR, Santosh; SHIMIZU, Hiroki
- 2F6-42** A new workup procedure for Mitsunobu reaction using 4-(diphenylphosphino)benzoic acid (Univ. of Hyogo) MURAMOTO, Natsuko; SUGIMURA, Takashi

- 2F6-43** Inclusion of Organic Molecules into Mesoporous Silica (Osaka Univ.) MINAKATA, Satoshi; NAKAYAMA, Kazuhisa

## Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Sunday, March 28, AM

Chair: SAKAGUCHI, Satoshi (9:00~9:50)

- \* 8:50-9:00: interval for laptop PC connection.(3F6-01, 3F6-02, 3F6-03, 3F6-04, 3F6-05)
- 3F6-01** Asymmetric Autocatalysis Induced by Chiral Crystal Formed from DL-Serine (Tokyo Univ. of Science) SASAGAWA, Taisuke; SUZUKI, Kenta; KAWASAKI, Tsuneomi; SOAI, Kenso
- 3F6-02** Highly Enantioselective Synthesis Utilizing the Chiral Crystal of 2-(Dimethylphenylsilylene-1-yl)pyrimidine-5-carbaldehyde in Conjunction with Asymmetric Autocatalysis (Tokyo Univ. of Science) KAMIMURA, Sayaka; SUZUKI, Kenta; KAWASAKI, Tsuneomi; SOAI, Kenso
- 3F6-03** Synthesis of  $\beta$ -keto esters possessing four contiguous asymmetric centers utilizing asymmetric Ti-Claisen-Aldol domino reaction. (Kwansei Gakuin Univ.) MASUYAMA, Yoshikazu; TANAKA, Akihiro; NAKAZAWA, Syogo; NAGASE, Ryohei; TANABE, Yoo
- 3F6-04** Asymmetric Hydrogenation of Heteroaromatic Ketones and Cyclic and Acyclic Enones Mediated by a Cu(I) Catalyst (Graduate School of Engineering Science, Osaka Univ.) SHIMIZU, Hideo; NAGANO, Takuto; SAYO, Noboru; SAITO, Takao; OHSHIMA, Takashi; MASHIMA, Kazushi
- 3F6-05** Structure of Asymmetric Autocatalyst Based on X-ray Single Crystal Structure Analysis (2) (Tokyo Univ. of Science) TOBITA, Takayuki; SASAGAWA, Taisuke; KAWASAKI, Tsuneomi; SOAI, Kenso

Chair: UCHIDA, Tatsuya (10:00~10:50)

- \* 9:50-10:00: interval for laptop PC connection.(3F6-07, 3F6-08, 3F6-09, 3F6-10, 3F6-11)
- 3F6-07** Generation of Chirality by the Dehydration of Crystal Water in the Achiral Monohydrate of Nucleobase Cytosine (Tokyo Univ. of Science) MINEKI, Hiroko; SUZUKI, Kenta; HAKODA, Yuko; KAWASAKI, Tsuneomi; SOAI, Kenso
- 3F6-08** Catalytic Enantioselective Borohydride Reduction of Dialkylketones: Design of Cobalt(II) Complex Catalyst (Keio Univ.) FUKUI, Kosuke; KAWAMURA, Yoshihiro; KIKUCHI, Satoshi; YAMADA, Tooru
- 3F6-09** Development of a new chiral *N*-heterocyclic carbene (NHC) ligand: Enantioselective conjugate addition catalyzed by copper complex (Kansai Univ.) HARANO, Ayako; SAKAGUCHI, Satoshi
- 3F6-10** Indium Hydride Catalyzed Diastereoselective Reductive Aldol Reaction (Research Center for Environmental Preserving, Graduate School of Engineering, Osaka Univ.) SHIBATA, Ikuya; MIYAMOTO, Shinji; TSUNOI, Shinji
- 3F6-11** Construction of Fluorinated Chiral Quaternary Carbon by Highly Enantioselective Diels-Alder Reaction (Tohohashi Univ. of Tech.; Univ. of Chicago) KOBAYASHI, Fumito; SHIBATOMI, Kazutaka; IWASA, Seiji; YAMAMOTO, Hisashi

Chair: KAWASAKI, Tsuneomi (11:00~11:50)

- \* 10:50-11:00: interval for laptop PC connection.(3F6-13, 3F6-14, 3F6-15, 3F6-16, 3F6-17)
- 3F6-13** Enantioselective Alkynylation of Ketones Catalyzed by Chiral Rhodium Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) KAWABATA, Takahito; KAKINUMA, Takahiro; YONEZAWA, Takayuki; MURAKAMI, Hajime; TAKEUCHI, Yousuke; IWASAKI, Takanori; OHSHIMA, Takashi; MASHIMA, Kazushi; NISHIYAMA, Hisao
- 3F6-14** Titanium(salalen)-catalyzed Asymmetric Epoxidation: Kinetic Resolution of Racemic Cyclic Olefins Bearing a Coordinating Functional Group (Kyushu Univ.) MATSUMURA, Yudai; MATSUMOTO, Kazuhiro; KATSUKI, Tsutomu
- 3F6-15** New chiral bidentate-NHC-copper complexes-catalyzed asymmetric 1,4-addition (Kyushu Univ.) UCHIDA, Tatsuya; KATSUKI, Tsutomu
- 3F6-16** Enantioselective 1,3-Dipolar Cycloaddition of Alkynes Induced by Chiral  $\pi$ -Cation Catalysts (Nagoya Univ.; CREST, JST) HORI, Masahiro; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 3F6-17** Enantioselective Mukaiyama-Michael Addition Induced by Chiral *n*-Cation Catalysts (Nagoya Univ.; CREST, JST) MATSUMURA, Yuki; SAKAKURA, Akira; ISHIHARA, Kazuaki

Sunday, March 28, PM

Chair: TERADA, Masahiro (13:10~14:00)

- \* 13:00-13:10: interval for laptop PC connection.(3F6-26, 3F6-29, 3F6-30)
- 3F6-26** CSJ Award for Young Chemists Development of Highly Selective Organic Reactions Catalyzed by Designed Amine Organocatalysts (Grad. Sch. Sci., Kyoto Univ.) KANO, Taichi
- 3F6-29** Highly Enantioselective 1,4-Addition of Dialkylzincs to Enones Using Novel *N,N,P*-Tridentate Ligands (Grad. Sch. Sci., Kobe Univ.) KAWAMURA, Kenjiro; FUKUZAWA, Hitomi; HAYASHI, Masahiko
- 3F6-30** Silver Catalyzed Enantioselective Chemical Fixation of Carbon Dioxide (Keio Univ.) YOSHIDA, Shunsuke; NISHIMURA, Naomi;

FUKUI, Kousuke; KIKUCHI, Satoshi; YAMADA, Tohru

Chair: NAGASE, Ryohei (14 : 10~15 : 00)

- \* 14:00-14:10: interval for laptop PC connection.(3F6-32, 3F6-33, 3F6-34, 3F6-35, 3F6-36)
- 3F6-32** Titanium Tetraiodide Promoted Reductive Enolate Formation of Alkoxy Ketone Derivatives and Its Reaction. (Mie Univ.) INAGAKI, Takao; HACHIYA, Iwao; SHIMIZU, Makoto
- 3F6-33** Reductive Formation of Enolates from  $\alpha, \beta$ -Unsaturated- $\gamma$ -Diketone Derivatives Promoted by Titanium Tetraiodide and Its Reaction (Mie Univ.) INAGAKI, Takao; ITO, Shingo; HACHIYA, Iwao; SHIMIZU, Makoto
- 3F6-34** Organobase-promoted (*E*),(*Z*)-isomerization of  $\alpha, \beta$ -unsaturated imines (Tokyo Univ. of Agriculture and Technology) KOHNO, Kazufumi; MARUYAMA, Kei; TOYOTA, Akinori
- 3F6-35** Prins-type Reaction of Alkynes with Acetals Promoted by Titanium Halides (Mie Univ.) OKURA, Kanako; SHIMIZU, Makoto
- 3F6-36** Reductive Aldol Reaction via Regioselective Ring Opening of Azetidin-3-one. (Mie Univ.) FUKUDA, Daisuke; HACHIYA, Iwao; SHIMIZU, Makoto

Chair: KOHNO, Kazufumi (15 : 10~16 : 00)

- \* 15:00-15:10: interval for laptop PC connection.(3F6-38, 3F6-39, 3F6-40, 3F6-41, 3F6-42)
- 3F6-38** Catalytic Asymmetric Chlorination of Active Methine Compound Using Optically Active Spiro Oxazoline Ligand (Toyohashi Univ. of Tech.) SOGA, Yoshinori; SHIBATOMI, Kazutaka; IWASA, Seiji
- 3F6-39** Highly enantioselective aluminum-catalyzed asymmetric hydrophosphonylation of aldehydes: remarkable base effect on reaction rate (Kyushu Univ.) SUYAMA, Keitaro; SAKAI, Yoshifumi; MATSUMOTO, Kazuhiro; KATSUKI, Tsutomu
- 3F6-40** Catalytic Asymmetric Induction of Trifluoromethyl Group Using Dimethyl Trifluoromethyl-Substituted Methylenemalonate as Substrate (Shimane Univ.) NAITO, Yuya; KOMOGUCHI, Tomoe; YAMASHITA, Shigeyuki; WADA, Eiji
- 3F6-41** Enantioselective Michael addition of nitro olefins with amino derivatives : Synthesis of optically active diamines and their utilization (Tokai Univ.) MIYAZATO, Takuya; SHIMURA, Tatsuki; KURITA, Yuzuru; KEZUKA, Satoko
- 3F6-42** Asymmetric Desymmetrization of 4,5-Epoxycyclohex-1-ene by Enantioselective Allylic Oxidation (Grad. Sch. Sci., Kobe Univ.) IWANAGA, Kazunari; TAN, Keitou; HAYASHI, Masahiko

Chair: KEZUKA, Satoko (16 : 10~17 : 00)

- \* 16:00-16:10: interval for laptop PC connection.(3F6-44, 3F6-45, 3F6-46, 3F6-47, 3F6-48)
- 3F6-44** Chiral counteranion-directed indium-catalyzed carbon-carbon bond formations (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) YAMAKAWA, Takeshi; CHAKRABARTI, Ananya; SCHNEIDER, Uwe; KOBAYASHI, Shu
- 3F6-45** A Unique Chemoselectivity of the Dinuclear Zinc Bisamidinate Catalyst in Competing Asymmetric Alkylations of  $\alpha$ -Ketoesters with Aldehydes (Dept. Chem., Rikkyo Univ.) INABA, Masamitsu; YAMANAKA, Masahiro
- 3F6-46** Ru-salen-Catalyzed Asymmetric Aerobic Oxidation: Epoxidation of Olefins (Kyushu Univ.) TANAKA, Haruna; NISHIKAWA, Hiroaki; UCHIDA, Tatsuya; KATSUKI, Tsutomu
- 3F6-47** Ruthenium(CO)salen-Catalyzed Asymmetric Aziridination of Vinyl Ketones: Synthesis of Enantiopure Aziridino Ketones (Kyushu Univ.) FUKUNAGA, Yasuaki; KAWABATA, Hiroto; UCHIDA, Tatsuya; KATSUKI, Tsutomu
- 3F6-48** Three component synthesis of optically active propargylamines (Nagoya Institute of Technology) OHARA, Mutsuyo; NAKAMURA, Yuku; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi

## Monday, March 29, AM

Chair: AMII, Hideki (9 : 00~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(4F6-01, 4F6-02, 4F6-03, 4F6-04, 4F6-05)
- 4F6-01** Efficient C-Acylation of Meldrum's Acid utilizing *N*-methylimidazole (Kwansei Gakuin Univ., School of Science and Technology) MATSUO, Nanae; MORIMOTO, Mami; NAKATSUJI, Hidefumi; TANABE, Yoo
- 4F6-02** Stereocomplementary preparation of  $\beta$ -ketoester enol phosphates using (RO)<sub>2</sub>POCl-NMI agents and its application to the synthesis of (*E*)- or (*Z*)- $\alpha, \beta$ -unsaturated esters (Kwansei Gakuin Univ.; Sumika Chemical Analysis Service) HORI, Hiroshi; MORIMOTO, Mami; NAKATSUJI, Hidefumi; TANABE, Yoo
- 4F6-03** Electrophilic Monofluoromethylation by Fluorinated Johnson Type Reagent (Nagoya Institute of Technology) NOMURA, Yoshinori; NORITAKE, Shun; TOKUNAGA, Etsuko; NAKAMURA, Shuichi; SHIBATA, Norio
- 4F6-04** Organic reactions in Solkane(R)365mfc (Graduate School of Engineering, Nagoya Institute of Technology) KUSUDA, Akihiro; WANG,

Xin; KAWAI, Hiroyuki; TOKUNAGA, Etsuko; NAKAMURA, Shuichi; SHIBATA, Norio

- 4F6-05** Synthesis of Perfluoro Compounds Using Tin-Free Radical System (The Noguchi Institute) TOJINO, Mami; MIZUNO, Mamoru

Chair: YORIMITSU, Hideki (10 : 00~10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(4F6-07, 4F6-09, 4F6-10, 4F6-11)
- 4F6-07\*** General, robust, and stereocomplementary preparation of multi-substituted  $\alpha, \beta$ -unsaturated esters utilizing enol tosylations of  $\beta$ -oxoesters and various cross-couplings (Kwansei Gakuin Univ.) NAKATSUJI, Hidefumi; MORIMOTO, Mami; UENO, Kanako; NISHIKADO, Hiroshi; HORI, Hiroshi; SUZUKI, Takeyuki; TANABE, Yoo
- 4F6-09** Stereocomplementary preparation for trisubstituted (*E*)- and (*Z*)- $\alpha, \beta$ -unsaturated esters utilizing successive enol tosylations and Fe-catalyzed cross couplings (Kwansei Gakuin Univ.) NISHIKADO, Hiroshi; NAKATSUJI, Hidefumi; UENO, Kanako; TANABE, Yoo
- 4F6-10** Construction of CF<sub>3</sub>-containing quaternary carbon centers via Michael addition as the key reaction (Faculty of Engineering, Tokyo Univ. of Agriculture and Technology) TAKETSUGI, Masahito; YAMAZAKI, Takashi; TAKASUKA, Tomoko
- 4F6-11** Cross-Coupling Route to 2-Aryl-2,2-difluoroacetates (Grad. Sch. Sci., Kobe Univ.) FUJIKAWA, Kenichi; FUJIOKA, Yasutaka; AMII, Hideki

Chair: FUCHIBE, Kohei (11 : 00~11 : 40)

- \* 10:50-11:00: interval for laptop PC connection.(4F6-13, 4F6-14, 4F6-15, 4F6-16)
- 4F6-13** Radical addition of alkyl iodides to trifluoromethylketene dithioacetal monoxide (Grad. Sch. Eng., Kyoto Univ.) NAKAYAMA, Ryota; KOBATAKE, Takayuki; YOSHIDA, Suguru; YORIMITSU, Hideki; OSHIMA, Koichiro
- 4F6-14** Extended Pummerer reactions of trifluoromethylketene dithioacetal monoxide with phenols (Grad. Sch. Eng., Kyoto Univ.) KOBATAKE, Takayuki; YOSHIDA, Suguru; YORIMITSU, Hideki; OSHIMA, Koichiro
- 4F6-15** Synthesis of Monofluoromethylcyclopropanes without Using Fureons (1): Novel Synthesis of (Chlorofluoromethyl) Phenyl Sulfide (Shizuoka Inst. Sci. & Tech.) ITOU, Atsushi; KIRIHARA, Masayuki
- 4F6-16** Synthesis of Monofluoromethylcyclopropanes without Using Fureons (2): Fluorination of Cyclopropanes Having Sulfur Functional Group (Shizuoka Inst. Sci. & Tech.) ITOU, Atsushi; KIRIHARA, Masayuki

## Monday, March 29, PM

Chair: YAJIMA, Tomoko (13 : 00~13 : 50)

- \* 12:50-13:00: interval for laptop PC connection.(4F6-25, 4F6-26, 4F6-27, 4F6-28, 4F6-29)
- 4F6-25** Synthesis of Difluorocyclopropanes Using a New Difluorocarbene Source (Grad. Sch. Sci., Kobe Univ.) OSHIRO, Kojun; MORIMOTO, Yoshimichi; AMII, Hideki
- 4F6-26** Selective mono-acylation of diols using (a,a-difluoroalkyl)amines (Hokkaido Univ., Graduate course of Engineering) WAKITA, Natsumi; HARA, Shoji
- 4F6-27** Novel perfluoroalkylation of aromatic compounds (Graduate School of Engineering, Hokkaido Univ.) TAHARA, Ryuhei; FUKUHARA, Tadahito; HARA, Shoji
- 4F6-28** Friedel-Crafts-type Reaction using 2-Trifluoromethyl-1-alkenes as Electrophiles: 1,1-Difluoroalkene Synthesis (Univ. of Tsukuba) NISHIKIORI, Yuka; FUCHIBE, Kohei; ICHIKAWA, Junji
- 4F6-29** Novel Introduction of tetrafluoroethylene unit (Department of Chemistry and Materials Technology, Kyoto Institute of Technology) TAKANO, Shinya; KONNO, Tsutomu; ISHIIHARA, Takashi

Chair: SAKAKURA, Akira (14 : 00~14 : 50)

- \* 13:50-14:00: interval for laptop PC connection.(4F6-31, 4F6-32, 4F6-33, 4F6-34, 4F6-35)
- 4F6-31** Ready synthesis of  $\alpha, \beta$ -unsaturated esters using perfluoroalkyl-lithiums (Faculty of Engineering, Tokyo Univ. of Agriculture and Technology, Graduate School of Engineering, Tokyo Univ. Agri. Tech.) HIKAGE, Reo; TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 4F6-32** Silylstannylation of fluorine-containing alkynes (Department of Chemistry and Materials Technology, Kyoto Institute of Technology) KINUGAWA, Ryoko; KONNO, Tsutomu; ISHIIHARA, Takashi
- 4F6-33** Synthesis of fluorine-containing amino acids by radical hydroperfluoroalkylation (Ochanomizu Univ.) YAMAGUCHI, Kanako; YAJIMA, Tomoko; NAGANO, Hajime
- 4F6-34** Asymmetric Autocatalysis Initiated by Chiral Crystal of Achiral Glycine Hydrochloride (Tokyo Univ. of Science) KAITO, Nobuhiro; SUZUKI, Kenta; SATO, Susumu; KAWASAKI, Tsuneomi; SOAI, Kenso
- 4F6-35** Asymmetric Autocatalysis Initiated by Chiral Ferroelectric Crystal Composed of Achiral Glycine Sulfate (Tokyo Univ. of Science) SATO, Susumu; SUZUKI, Kenta; KAITO, Nobuhiro; KAWASAKI, Tsuneomi; ASAHII, Toru; SOAI, Kenso

Chair: KONNO, Tsutomu (15 : 00~15 : 40)

\* 14:50-15:00: interval for laptop PC connection.(4F6-37, 4F6-38, 4F6-39, 4F6-40)

- 4F6-37** Enantioselective Diels-Alder Reaction of  $\alpha$ -(Acylythio)acroleins Catalyzed by Chiral Ammonium Salts. (Nagoya Univ.; CREST, JST) YAMADA, Hiroki; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 4F6-38** Design of Chiral Supramolecular Catalysts for the Highly endo-Selective Enantioselective Diels-Alder Reaction (Nagoya Univ.; CREST, JST) USAMI, Ryota; MIZUNO, Tomokazu; HATANO, Manabu; ISHIHARA, Kazuaki
- 4F6-39** Reversal of Enantioselectivity Using Two Chiral Catalysts Possessing the Same Face-selectivity in Asymmetric Autocatalysis (2) (Tokyo Univ. of Science) WAKUSHIMA, Yuki; SHIOZAWA, Kazuya; ASAHINA, Mai; KINOSHITA, Tomoyuki; KAWASAKI, Tsuneomi; SOAI, Kenso
- 4F6-40** Reversal of Enantioselectivity Using Two Chiral Catalysts Possessing the Same Face-selectivity in Asymmetric Autocatalysis (3) (Tokyo Univ. of Science) SHIOZAWA, Kazuya; WAKUSHIMA, Yuki; ASAHINA, Mai; KINOSHITA, Tomoyuki; KAWASAKI, Tsuneomi; SOAI, Kenso

## Room F7

Bldg.17 17-203

### Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Friday, March 26, AM

Chair: KOHNO, Kazufumi (9 : 50 ~10 : 50)

\* 9:40-9:50: interval for laptop PC connection.(1F7-06, 1F7-07, 1F7-08, 1F7-09, 1F7-10, 1F7-11)

- 1F7-06** Synthesis of [24-13C] ursodeoxycholic acid (Graduate School of Advanced Science and Engineering, Waseda Univ.) MITOBE, Hirokazu; SHIMIZU, Isao
- 1F7-07** Highly Active and Selective Semihydrogenation of Alkynes with the Palladium Nanoparticle-Tetrabutylammonium Borohydride Catalyst System (Nagoya Univ.; Hokkaido Univ.; Toho Univ.; Kanto Chemical Co., Inc.) HORI, Junichi; MURATA, Kunihiko; SUGAI, Toshiki; SHINOHARA, Hisanori; NOYORI, Ryoji; ARAI, Noriyoshi; KURONO, Nobuhito; OHKUMA, Takeshi
- 1F7-08** Development of Gold Complex Catalyzed Direct Substitution of Hydroxyl Groups with Nitrogen Nucleophiles (Graduate School of Engineering Science, Osaka Univ.) NAKAHARA, Yasuhiro; MIYAMOTO, Yoshiaki; IPPOSHI, Junji; OHSHIMA, Takashi; MASHIMA, Kazushi
- 1F7-09** Gold-catalyzed functionalization of silyl enol ethers (Department of Chemistry, Graduate School of Science, Tohoku Univ.) KANEKO, Tetsuro; AIKAWA, Haruo; ASAO, Naoki
- 1F7-10**† Cross-coupling Reaction of Alcohols for Carbon-Carbon Bond Formation Using Transition Metal Catalysts (Grad. Sch. Sci., Nagoya Univ.) KOSE, Osamu; MIURA, Takashi; FENG, Li; NOYORI, Ryoji; SAITO, Susumu
- 1F7-11** Efficient Synthesis of Multi-Substituted Pyrroles from beta-Aminoalcohols (Grad. Sch. Sci., Nagoya Univ.) ANDO, Junki; KOSE, Osamu; NOYORI, Ryoji; SAITO, Susumu

Friday, March 26, PM

Chair: KUNINOBU, Yoichiro (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(1F7-26, 1F7-27, 1F7-28, 1F7-29, 1F7-30, 1F7-31)

- 1F7-26**† Hydrolysis of cellulose to glucose catalyzed by metal complexes (Graduate School of Science, The Univ. of Tokyo; Mitsui Chemicals) LI, Wei; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1F7-27** Indium(I)-catalyzed allylation reactions of acetals and ethers displaying  $\alpha$ -selectivity (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) DAO, Thanh Hai; SCHNEIDER, Uwe; KOBAYASHI, Shu
- 1F7-28**† Highly selective catalytic ring opening reactions of epoxides with allyl boronates (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) JIMENEZ-AQUINO, Agustin; SCHNEIDER, Uwe; KOBAYASHI, Shu
- 1F7-29** molybdenum-catalyzed Intramolecular cross metathesis reaction of  $\alpha, \beta$ -unsaturated imines (Univ. of Tokyo Agriculture and Technology) KOHNO, Kazufumi; TABUCHI, Shinji; TOYOTA, Akinori
- 1F7-30** Hydration of Functionalized Terminal Alkynes via Cobalt Catalysis (Grad. Sch. Sci., Nagoya Univ.) TACHINAMI, Tadashi; NOYORI, Ryoji; NAKA, Hiroshi
- 1F7-31**† Ring-Closing Metathesis Using Template Consisting of Hard and Soft Parts (Univ. of Hyogo) SIDDIKI, S. M. A. Hakim; SUGIMURA, Takashi

Chair: NAKA, Hiroshi (14 : 20~15 : 20)

\* 14:10-14:20: interval for laptop PC connection.(1F7-33, 1F7-34, 1F7-35,

1F7-36, 1F7-37, 1F7-38)

- 1F7-33** Alkyne-Azide-Cycloaddition Reaction Using Cu Catalyst Activated by *N*-Decylimidazole (Kyoto Univ.) ASANO, Keisuke; MATSUBARA, Seiji
- 1F7-34** Mannich Reaction of Terminal Alkynes Using Cu Catalyst Activated by *N*-Decylimidazole (Kyoto Univ.) OKAMURA, Takaaki; ASANO, Keisuke; MATSUBARA, Seiji
- 1F7-35** Methyltrioxorhenium-Catalyzed Epoxidation of Homoallylic Alcohols with Hydrogen Peroxide (Toyama Industrial Technology Center) YAMAZAKI, Shigekazu
- 1F7-36** Synthesis of Multisubstituted Cyclopentadienes (Okayama Univ.) TATSUZAKI, Tomohiro; NISHINA, Yuta; KUNINOBU, Yoichiro; TAKAI, Kazuhiko
- 1F7-37** Design of Bronsted Base-assisted Boronic Acid Catalysts for the Dehydrative Intramolecular Condensation of Dicarboxylic Acids (Nagoya Univ.; CREST, JST) OHKUBO, Takuro; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 1F7-38** Lanthanum(III)-Catalyzed Transesterification with Secondary and Tertiary Alcohols (Nagoya Univ.; CREST, JST) KAMIYA, Sho; MORIYAMA, Katsuhiko; HATANO, Manabu; ISHIHARA, Kazuaki

Chair: SAKAKURA, Akira (15 : 30~16 : 30)

\* 15:20-15:30: interval for laptop PC connection.(1F7-40, 1F7-42, 1F7-43, 1F7-44, 1F7-45)

- 1F7-40**† Development of Acid-base Conjugated Molecular Catalysis Using AminoOrganoBoron (AOB) Complexes (Grad. Sch. Sci., Nagoya Univ.) OISHI, Shunsuke; NOYORI, Ryoji; SAITO, Susumu
- 1F7-42** Development of catalytic direct aldol condensation of inactive amides using molecular catalysts (Grad. Sch. Sci., Nagoya Univ.) OISHI, Shun; NOYORI, Ryoji; SAITO, Susumu
- 1F7-43** Development of Addition Reactions of Hydranoesters with Allenylboronate in Aqueous Media (Graduate School of Science, The Univ. of Tokyo; ERATO, JST) UENO, Masaharu; KITANOSONO, Taku; KOBAYASHI, Shu
- 1F7-44** Allylation reactions of imine equivalent using metal hydroxides as catalysts in aqueous solvents (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) UENO, Masaharu; KOBAYASHI, Shu
- 1F7-45** Development of cyclization of 2,4-dienal with phosphorus reagent by Lewis acid catalyst (Kyusyu Institute of Technology Department of Applied Chemistry) INOUE, Hidetoshi; TOSHINARI, Kenta; KITAMURA, Mitsuru; OKAUCHI, Tatsuo

Chair: UENO, Masaharu (16 : 40~17 : 40)

\* 16:30-16:40: interval for laptop PC connection.(1F7-47, 1F7-48, 1F7-49, 1F7-50, 1F7-51, 1F7-52)

- 1F7-47** Photohydration of Alkynes within a Self-Assembled Coordination Cage (Grad. School of Engineering, The Univ. of Tokyo; CREST, JST) TAKEZAWA, Hiroki; NISHIJIMA, Yuki; MURASE, Takashi; FUJITA, Makoto
- 1F7-48** Selective Cyclization of Terpenoids within Self-Assembled Cages (Grad. School of Engineering, The Univ. of Tokyo; CREST, JST) NISHIJIMA, Yuki; MURASE, Takashi; FUJITA, Makoto
- 1F7-49** Synthetic Study on Benzopyrans via Lewis Acid-Catalyzed  $sp^3$  C-H Functionalization (Faculty of Science, Gakushuin Univ.) KAWASAKI, Taro; MORI, Keiji; AKIYAMA, Takahiko
- 1F7-50** Hydrogen Shift Mediated Concise Construction of Tetraline Skeleton (Faculty of Science, Gakushuin Univ.) SUEOKA, Shosaku; MORI, Keiji; AKIYAMA, Takahiko
- 1F7-51** Synthetic Study of 2-Bromo-1-alkenes by Utilizing Chemoselective Elimination Reaction (Tokyo Univ. of Science, Faculty of Science) IJIMA, Masatoshi; NIWA, Kentaro; KUTSUMURA, Noriki; SAITO, Takao
- 1F7-52** Development of One-Pot Chemoselective Bromination and the Sequential Sonogashira Coupling Reaction (Tokyo Univ. of Science, Faculty of Science) NIWA, Kentaro; IJIMA, Masatoshi; KUTSUMURA, Noriki; SAITO, Takao

Saturday, March 27, AM

Chair: NISHII, Yoshinori (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** Efficient Synthesis of Indene Derivatives via Lewis acid-promoted Conjugate Addition/Friedel-Crafts Cyclization Reactions of Ethnetricarboxylates with Arylallenes (Nara Univ. of Educ.) YAMAZAKI, Shoko; YAMAMOTO, Yoko; FUKUSHIMA, Yugo
- 2F7-02** The selective substitution reaction of polyols using acyloxy tin catalysts (Ehime Univ.) WATANABE, Yutaka; TANABE, Kae; SAEKI, Takafumi; HAYASHI, Minoru
- 2F7-03** Mechanistic studies on the tetranuclear zinc cluster catalysis by ligand tuning (Graduate School of Engineering Science, Osaka Univ.) HAYASHI, Yukiko; MAEGAWA, Yusuke; AGURA, Kazushi; IWASAKI, Takanori; OHSHIMA, Takashi; MASHIMA, Kazushi
- 2F7-04** Development of Deacetylation using Tetranuclear Zinc Cluster Catalyst (Graduate School of Engineering Science, Osaka Univ.) AGURA, Kazushi; MAEGAWA, Yusuke; HAYASHI, Yukiko; IWASAKI, Takanori;

OHSHIMA, Takashi; MASHIMA, Kazushi

**2F7-05\***† Amine and Heterocycle Additive Effects on Tetranuclear Zinc Cluster Catalyzed Transesterification (Graduate School of Engineering Science, Osaka Univ.) MAEGAWA, Yusuke; HAYASHI, Yukiko; AGURA, Kazushi; IWASAKI, Takanori; OHSHIMA, Takashi; MASHIMA, Kazushi

Chair: OHSHIMA, Takashi (10 : 10~11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(2F7-08, 2F7-09, 2F7-10, 2F7-11, 2F7-12)

**2F7-08** Zinc Hydroxide-Catalyzed Highly *Syn*- and  $\alpha$ -Selective Allylation Reactions of Aldehydes in Aqueous Media (Graduate School of Science, The Univ. of Tokyo; ERATO, JST) ENDO, Toshimitsu; UENO, Masaharu; KOBAYASHI, Shu

**2F7-09** *Anti*- and  $\alpha$ -selective Allylation Reactions of Aldehydes via Transmetalation from Tin to Silver in Aqueous Media (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) TANOUE, Arata; UENO, Masaharu; KOBAYASHI, Shu

**2F7-10** Highly Stereoselective C-Silylation and Alkylation of 1-Chlorocyclopropanecarboxylic Ester Using  $\text{SmI}_2$  (Fac. Textile Sci. Technol., Shinshu Univ.) FURUYA, Futoshi; YOSHIDA, Eri; NAGANO, Takao; MOTOYOSIYA, Jiro; NISHII, Yoshinori

**2F7-11** Lewis Acid-mediated Highly Regioselective Ring-expansion of Methyl 2-phenyl-1-(arylhydroxymethyl)cyclopropanecarboxylates (Fac. Textile Sci. Technol., Shinshu Univ.) TAGUCHI, Ryouta; YOSHIDA, Eri; NISHIDA, Kazufumi; TORIYABE, Kei; MOTOYOSHIYA, Jiro; NISHII, Yoshinori

**2F7-12** Synthesis of highly substituted thiophene derivative utilizing ring-expansion of *gem*-dichlorocyclopropyl and its application to functionalized substance (Fac. Textile Sci. Technol., Shinshu Univ.) MATSUBARA, Takuma; MOTOYOSHIYA, Jiro; NISHII, Yoshinori

## Saturday, March 27, PM

Chair: SAKAGUCHI, Kazuhiko (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2F7-35, 2F7-36, 2F7-37, 2F7-38, 2F7-39, 2F7-40)

**2F7-35** Ferric Chloride Promoted Aza-Prins Cyclization Reaction Using Biphasic Solvent System of Benzotrifluoride and Imidazolium Salt (Graduate of School of Science and Technology, Niigata Univ.; Faculty of Science, Niigata Univ.) HIROI, Nohara; OSAWA, Chika; HASEGAWA, Eietsu

**2F7-36** Study of a Catalytic 1,4- and 1,2- Double Nucleophilic Addition Reaction to Acrolein (Mie Univ.) KAWANISHI, Mami; HACHIYA, Iwao; SHIMIZU, Makoto

**2F7-37** Development of Esterification Reactions of Acetic Acid in Water Catalyzed by Ammonium Salts (Graduate School of Science, The Univ. of Tokyo; SHOWA DENKO K.K.) IGARASHI, Takeshi; HIGASHI, Tomoyoshi; OKUMURA, Yoshikuni; NAITO, Takeshi; NAKAJO, Tetsuo; MORI, Yuichiro; KOBAYASHI, Shu

**2F7-38** Michael-Claisen tandem reaction of ketene silyl acetals with  $\alpha, \beta$ -unsaturated esters promoted by base catalyst (School of Science and Technology, Kwansei Gakuin Univ.) TAMAGAKI, Hiroaki; NAWATE, Yuuya; NAGASE, Ryouhei; TANABE, Yoo

**2F7-39** C-C bond-forming reactions using a DMAP-related organocatalyst in water. (Fac. Sci., Kochi Univ.) KO, Kyungmin; MORITAKA, Maya; KOTSUKI, Hiyoshizo

**2F7-40** Synthesis of amines by rearrangement of hydroxamic acids using a catalytic amount of activator at near-ambient temperature. (School of Engineering, Yokohama Natl. Univ.; Graduate School of Environment and Information Sciences, Yokohama Natl. Univ.) HOSHINO, Yujiro; SHINBO, Yuki; HONDA, Kiyoshi; INOUE, Seiichi

Chair: HOSHINO, Yujiro (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(2F7-42, 2F7-43, 2F7-44, 2F7-45, 2F7-46, 2F7-47)

**2F7-42** Scale-up of IBS-Catalyzed Oxidation of Alcohols with Oxone and Rearrangement-Oxidation of *tert*-Allylic Alcohols to  $\alpha, \beta$ -Unsaturated Ketones (Nagoya Univ.) UYANIK, Muhammet; FUKATSU, Ryoya; ISHIHARA, Kazuaki

**2F7-43** Bromine-Catalyzed Aerobic Oxidation of Alcohols (Nagoya Univ.) FUKATSU, Ryota; UYANIK, Muhammet; ISHIHARA, Kazuaki

**2F7-44** Bronsted acid-catalyzed cascade cyclization of enynes via acetylene cations followed by  $\text{sp}^3$  C-H bond activation (Graduate School of Science, Tohoku Univ.) HIMURO, Masafumi; JIN, Tienan; YAMAMOTO, Yoshinori

**2F7-45** Bronsted acid-catalyzed cascade cyclization of enynes via acetylene cations and Friedel-Crafts type reaction (Graduate School of Science, Tohoku Univ.) UCHIYAMA, Junichi; JIN, Tienan; YAMAMOTO, Yoshinori

**2F7-46** Acid-catalyzed Intramolecular Cyclization Reaction of  $\alpha$ -Siloxy- $\alpha$ -alkenylsilanes (Graduate School of Sci., Osaka City Univ.) AKAGI, Wataru; HIGASHINO, Masato; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi

**2F7-47** Stereoselective  $\text{SN}_2$ -type Mitsunobu Reaction of  $\alpha$ -Hydroxy- $\alpha$ -alkenylsilanes (Graduate School of Sci., Osaka City Univ.) HIGASHINO, Masato; IKEDA, Naoko; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi

## Sunday, March 28, AM

Chair: MIYAMURA, Hiroyuki (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3F7-01, 3F7-02, 3F7-03, 3F7-04, 3F7-05, 3F7-06)

**3F7-01** Acid-Promoted Conia Reaction of Alkynyl Ketones (Saitama Univ.; Univ. of Tsukuba) MIYAMA, Chika; YAMAMOTO, Kiyomi; KINOSHITA, Hidenori; ICHIKAWA, Junji; MIURA, Katsukiyo

**3F7-02** Synthesis of Difluoromethyl Ethers Based on *N*-Heterocyclic Carbene-Catalysed Generation of Difluorocarbene (Univ. of Tsukuba) FUCHIBE, Kohei; KOSEKI, Yuta; SASAGAWA, Hisashi; ICHIKAWA, Junji

**3F7-03** Tail-to-Tail Dimerization of Methacrylates Catalyzed by *N*-Heterocyclic Carbene (Nagoya Institute of Technology) MATSUOKA, Shin-ichi; WASHIO, Atsushi; OOTA, Yoshiya; KATADA, Akiho; ICHIOKA, Kenji; TAKAGI, Koji; SUZUKI, Masato

**3F7-04** Benzoin Cyclization: An Approach to Natural Products with Cyclic  $\alpha$ -Ketol Structure (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) TAKIKAWA, Hiroshi; SUZUKI, Keisuke

**3F7-05** Novel Preparation of Ion-supported Triphenylphosphines and Their Synthetic Utility (Grad. Sch. Sci., Chiba Univ.) IMURA, Yumi; SHIMOZU, Naoya; TOGO, Hideo

**3F7-06** Efficient  $\alpha$ -Tosyloxylation of Ketones with Oxone and 4-Iodotoluene (Graduate School of Science, Chiba Univ.) TANAKA, Ayumi; TOGO, Hideo

Chair: FUCHIBE, Kohei (10 : 10~11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(3F7-08, 3F7-09, 3F7-10, 3F7-11, 3F7-12)

**3F7-08** Efficient *N*-tosylation of benzylic position with DIH and *p*-Toluene-sulfonamide (Graduate School of Science, Chiba Univ.) BABA, Haruka; TOGO, Hideo

**3F7-09** Development of function cooperative polymer immobilized metal nano-cluster catalysts (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) MIYAMURA, Hiroyuki; KOBAYASHI, Shu

**3F7-10** Development of polymer immobilized metal nano-cluster catalysts and application to oxidative esterification (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) MIYAMURA, Hiroyuki; YASUKAWA, Tomohiro; KOBAYASHI, Shu

**3F7-11**† Discovery of a polymer incarcerated boron catalyst for the Michael Reaction (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) YOO, Woo-jin; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

**3F7-12** A tandem cyclization of the iminium ion containing an acetylene  $\text{CO}_2(\text{CO})_6$  complex (Kogakuin Univ.; Hokkaido Coll. Pharm.) TAKASAWA, Shohei; TADOKORO, Shinsuke; NAGUMO, Shinji; MIYASHITA, Masaaki; MIZUKAMI, Megumi

## Sunday, March 28, PM

Chair: AKAGAWA, Kego (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(3F7-26, 3F7-27, 3F7-28, 3F7-29, 3F7-30, 3F7-31)

**3F7-26** Esterification of carboxylic acids and olefins by immobilized iron catalysts (National Institute of Advanced Industrial Science and Technology (AIST)) YAHAGI, Takeshi; CHOI, Jun-chul; YASUDA, Hiroyuki; SAKAKURA, Toshiyasu

**3F7-27** Development of Highly Selective Aerobic Oxidation Reactions Catalyzed by Polymer-Incarcerated Bimetallic Nano-cluster Catalysts in Flow Systems (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) KAIZUKA, Kosuke; LEE, Ka-young; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

**3F7-28** Development of a double catalytic reaction system using molecular oxygen as an oxidant (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) MAEHATA, Kanako; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

**3F7-29** Development of polymer immobilized scandium catalysts using gold-thiol interactions (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) OKAJIMA, Yuki; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

**3F7-30** Mesoporous silica gel supported amine-catalyzed direct aldol reaction of trifluoroacetaldehyde ethyl hemiacetal with aldehydes (Gifu Univ.) FUNABIKI, Kazumasa; GONDA, Hiroshi; KUBOTA, Yoshihiro; KUBOTA, Yasuhiro; MATSUI, Masaki

**3F7-31** Development of continuous flow reactions using polysilane-supported palladium catalysts (Graduate School of Science, The Univ. of Tokyo; Nikko Chemicals CO.,LTD.) AKATSUKA, Yuichi; NUMATA, Yoshiyuki; MURAKOSHI, Kanako; MURAMOTO, Ikuyo; OYAMADA, Hidekazu; KOBAYASHI, Shu

Chair: FUNABIKI, Kazumasa (14 : 20~15 : 20)

\* 14:10-14:20: interval for laptop PC connection.(3F7-33, 3F7-34, 3F7-35, 3F7-36, 3F7-37, 3F7-38)

- 3F7-33** Reaction of Allylsilane with Acetals Catalyzed by Ordered Mesoporous Aluminosilicate (Yokohama Natl. Univ.) HAYASHI, Akira; ITO, Suguru; KOMAI, Hiroto; KUBOTA, Yoshihiro; ASAMI, Masatoshi
- 3F7-34** Synthesis of  $\beta$ -(Siloxyamino)ketones Catalyzed by Ordered Mesoporous Aluminosilicate (Yokohama Natl. Univ.) ITO, Suguru; KUBOTA, Yoshihiro; ASAMI, Masatoshi
- 3F7-35** Asymmetric transfer hydrogenation of cyclic sulfonimine with polymer-supported chiral catalyst (TUT; Itsuno, Haraguchi laboratory) SUGIE, Haruki; HARAGUCHI, Naoki; ITSUNO, Shinichi
- 3F7-36** One-pot oxidation and asymmetric aldol reaction of alcohol using resin-supported TEMPO and resin-supported peptide catalyst (Inst. Ind. Sci., The Univ. of Tokyo) TAKIGAWA, Shota; AKAGAWA, Kengo; KUDO, Kazuaki
- 3F7-37** Preparation of a New PEG-Supported TEMPO by Click Reaction and Oxidation of Alcohols using the Oxidant. (Meisei Univ.) MATSUMOTO, Kazutsugu; NAKANO, Mariko; OKUDOMI, Masayuki
- 3F7-38** Asymmetric epoxidation in aqueous media catalyzed by resin-supported peptide consisting of unnatural amino-acids (Inst. Ind. Sci., The Univ. of Tokyo) AKAGAWA, Kengo; YAMASHINA, Masahiro; KUDO, Kazuaki

Chair: HACHIYA, Iwao (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(3F7-40, 3F7-41, 3F7-42, 3F7-43, 3F7-45)
- 3F7-40** Regioselective Oxidation of Unsymmetric Bissulfides Assisted by Resin-Supported Peptide (Inst. Ind. Sci., The Univ. of Tokyo) TAKAGI, Yuko; AKAGAWA, Kengo; KUDO, Kazuaki
- 3F7-41** Synthetic use of Polymer-supported iodobenzene, *m*CPBA system for Organic synthesis (Chiba Univ.) SUZUKI, Yusuke; TOGO, Hideo
- 3F7-42** The one-pot Amidation of Alcohols and Alkyl Halides with  $I_2$ ,  $NH_3$ , and  $H_2O_2$  (Chiba Univ.) TAKAHATA, Misato; OMURA, Ryosuke; TOGO, Hideo
- 3F7-43\*** Synthesis of amines by rearrangement of hydroxamic acids using only base (Yokohama Natl. Univ.) HOSHINO, Yujiro; OKUNO, Moriaki; SHINBO, Yuki; HONDA, Kiyoshi; INOUE, Seiichi
- 3F7-45** Carbon Elongation Reaction Using Tandem Elimination / Rearrangement / Nucleophilic Addition sequence (Graduate School of Environment and Information Sciences, Yokohama Natl. Univ.; School of Engineering, Yokohama Natl. Univ.; Graduate School of Engineering, Yokohama Natl. Univ.) HONDA, Kiyoshi; SATO, Takeshi; TAKASU, Noriaki; HOSHINO, Yujiro; INOUE, Seiichi

Chair: HONDA, Kiyoshi (16 : 40~17 : 40)

- \* 16:30-16:40: interval for laptop PC connection.(3F7-47, 3F7-48, 3F7-49, 3F7-50, 3F7-51, 3F7-52)
- 3F7-47** Synthetic Reactions Using Small Rings Containing a Nitrogen (Mie Univ.) HATA, Shingo; HCHIYA, Iwao; SHIMIZU, Makoto
- 3F7-48** Development of New Synthetic Routes of 3,4-Ethylenedioxythiophene (EDOT) and Its Analogues (Mie Univ.) INAGAKI, Tatsuhiko; TAKAHASHI, Atsushi; HACHIYA, Iwao; SHIMIZU, Makoto
- 3F7-49** Nucleophilic Addition Reaction to the Iminium Salt Having an Electron Withdrawing Group at the  $\alpha$ -Position (Mie Univ.) KONDO, Koichi; SHIMIZU, Makoto
- 3F7-50** Construction of a Quaternary Carbon Center with the Iminium Salt Generated from Amino Ketene Silyl Acetal (Mie Univ.) HATA, Shingo; KOYAMA, Hiroshi; SHIMIZU, Makoto
- 3F7-51** Reductive Self-coupling Reaction of Imines and Aldehydes Induced by Strontium Metal (The Univ. of Tokushima; Mie Univ.) MIYOSHI, Norikazu; KOUNO, Tadashi; WADA, Makoto; MATSUNAGA, Sei; MIZOTA, Isao; SHIMIZU, Makoto
- 3F7-52** Synthetic Studies of 2-Bromo-1-alkenes and Alkynes by Using TBAF-Promoted Elimination Reaction (Tokyo Univ. of Science, Faculty of Science) KUBOKAWA, Keisuke; KUTSUMURA, Noriki; SAITO, Takao

## Monday, March 29, AM

Chair: KUDOH, Takayuki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4F7-01, 4F7-02, 4F7-04, 4F7-05, 4F7-06)
- 4F7-01** Synthesis of Modified Tamoxifen Derivatives Using Three-component Coupling Reaction among Aromatic Aldehydes, Allyl Silane and Methoxybenzene Promoted by Lewis Acid Catalyst (Tokyo Univ. of Science) SHIINA, Isamu; TOSAKI, Yu-ta; WANG, Yanwen; NAKATA, Kenya
- 4F7-02\*** Photochemically Promoted Transition Metal-Free Cross-Coupling Reaction of Acylsilanes with Boronic Esters (Tokyo Institute of Technology) ITO, Kazuta; IWASAWA, Nobuharu; KUSAMA, Hiroyuki
- 4F7-04** Stereoselective Synthesis of Dihydrobenzofuran Derivatives Based on Photochemical Reaction of *o*-alkoxybenzoylsilanes (Tokyo Institute of Technology) KATSUMOTO, Yuya; ITO, Kazuta; IWASAWA, Nobuharu; KUSAMA, Hiroyuki
- 4F7-05<sup>†</sup>** Substrate Specificity in Reaction of Thioester and Amine in Water (Rikkyu Univ.) TORIHATA, Atsushi; KURODA, Chiaki
- 4F7-06** Efficient Synthesis of Cyclopropyl Silyl Ketones by the Reaction of 1-Silylcyclopropyl Anions with Dichloromethyl Methyl Ether (Graduate School of Natural Science and Technology, Kanazawa Univ.) NAKAE, Kenta;

NISHIZAWA, Toshiaki; HONDA, Mitsunori; SUDA, Mitsuhiro; SEGI, Masahito; KUNIMOTO, Ko-ki

Chair: INOKUCHI, Tsutomu (10 : 10~11 : 00)

- \* 10:00-10:10: interval for laptop PC connection.(4F7-08, 4F7-09, 4F7-10, 4F7-11, 4F7-12)
- 4F7-08** Development of the Addition of Isocyanides to Nitron Promoted by TMSCI (Kanazawa Univ. Graduate School of Natural Science and Technology) SOETA, Takahiro; SUGIYAMA, Hirokazu; UKAJI, Yutaka; INOMATA, Katsuhiko
- 4F7-09** Development of the Passerini-Type Reaction with Aldehyde, Isocyanide and Silanol (Kanazawa Univ. Graduate School of Natural Science and Technology) KOJIMA, Yuki; SOETA, Takahiro; UKAJI, Yutaka; INOMATA, Katsuhiko
- 4F7-10** Synthesis of Monoterpene Ligands (2) (Kinki Univ.) OKADA, Yoshiharu; HOCHI, Shizuka; UENO, Takuro; NOMURA, Masato
- 4F7-11** Synthesis of hetero-polyaromatic compounds by means of anionic Diels-Alder reactions (Graduate School of Natural Science and Technology, Okayama Univ.) KUDOH, Takayuki; HASHIMOTO, Tatsuya; SENO, Masaharu
- 4F7-12** Novel synthesis of Tamiflu based on the Diels-Alder reaction to pyrroles (Yamaguchi Univ.) NAKANO, Toshiki; KAMIMURA, Akio

Chair: SHIINA, Isamu (11 : 10~12 : 00)

- \* 11:00-11:10: interval for laptop PC connection.(4F7-14, 4F7-15, 4F7-16, 4F7-17, 4F7-18)
- 4F7-14** Synthesis of 2,3,6-trisubstituted-2H-pyran-5-carboxylates by regioselective addition of acetoacetates to 2-alkyl-2-enals (Okayama Univ.) PENG, Wei; HIRABARU, Toshiharu; ASHIDA, Kazumi; INOKUCHI, Tsutomu
- 4F7-15** Convenient Synthesis of (E)-2-Hydroxymethyl-2-alkenals by TEMPO Oxidation (Okayama Univ.) ASHIDA, Kazumi; HIRABARU, Toshiharu; PENG, Wei; INOKUCHI, Tsutomu
- 4F7-16<sup>†</sup>** Development of Short and Efficient Synthesis of Ascofuranone (Tottori Univ.) TONOI, Takayuki; TAMURA, Sayuri; TAKAHASHI, Yuki; HAGA, Yasushi; YAMAMOTO, Masaichi; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 4F7-17<sup>†</sup>** A Novel Synthetic Method for Acylolins and Diketones Based on Ozone Oxidation of Alkenylsilanes (Interdisciplinary Graduate School of Engineering Sciences, Inst. for Materials Chemistry and Engineering, Kyushu Univ.) KAWASAKI, Yuuya; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 4F7-18** Oxidative Cleavage of Carbon-Silicon Bond Using Ozone (Inst. for Materials Chemistry and Engineering, Kyushu Univ.; Tokyo Inst. of Technology) IGAWA, Kazunobu; KOKAN, Naoto; TOMOOKA, Katsuhiko

## Room F8

Bldg.17 17-204

### Analytical Chemistry

Friday, March 26, PM

#### Atomic and Molecular spectroscopy

Chair: IMASAKA, Totaro (13 : 40~14 : 40)

- \* 13:30-13:40: interval for laptop PC connection.(1F8-29, 1F8-31, 1F8-33, 1F8-34)
- 1F8-29\*** Evaluation of Surface Enhanced Raman Scattering Using Launched Gold Nanorod Array (Doshisha Univ.; Kyoto Univ.; Archilys) FUKUOKA, Takao; SUZUKI, Motofumi; KATO, Masaki; HIROTA, Ken; MORI, Yasushige
- 1F8-31\*** Comparison of detection limits obtained by a portable total reflection X-ray fluorescence spectrometer and ICP spectrometers (Kyoto Univ.) KUNIMURA, Shinsuke; KAWAI, Jun
- 1F8-33** Role of X-ray waveguide in a portable total reflection X-ray fluorescence spectrometer (Kyoto Univ.) MORIKAWA, Yusuke; KUNIMURA, Shinsuke; KAWAI, Jun
- 1F8-34** Non-destructive elemental analysis by measuring muonic X-rays (J-PARC, MLF) NINOMIYA, Kazuhiko; NAGATOMO, Takashi; KUBO, Kenya; KITA, Makoto; SHINOHARA, Atsushi; ITO, Takashi; STRASSER, Patrick; KAWAMURA, Naritoshi; SHIMOMURA, Koichiro; MIYAKE, Yasuhiro; SAITO, Tsutomu; HIGEMOTO, Wataru

#### Laser spectroscopy, Sensors

Chair: KAKIUCHI, Takashi (14 : 50~16 : 00)

- \* 14:40-14:50: interval for laptop PC connection.(1F8-36, 1F8-37, 1F8-38, 1F8-39, 1F8-41, 1F8-42)
- 1F8-36** Analysis of doxorubicin-induced apoptosis using fluorescence lifetime imaging microscopy (Grad. Sch. Eng., Kyushu Univ.) MORISHIGE, Takuya; UCHIMURA, Tomohiro; IMASAKA, Totaro

- 1F8-37** Gas chromatography interfaced to supersonic jet/multiphoton ionization mass spectrometry using a pair of concentric capillaries (Grad. Sch. Eng., Kyushu Univ.) OKUDAIRA, Hiroki; UCHIMURA, Tomohiro; IMASAKA, Totaro
- 1F8-38** Gas chromatography-mass spectrometry of polybrominated diphenyl ethers based on laser ionization (Grad. Sch. Eng., Kyushu Univ.) SHITAMICHI, Osamu; IMASAKA, Tomoko; WATANABE-EZOE, Yuka; UCHIMURA, Tomohiro; IMASAKA, Totaro
- 1F8-39\*** Molecular oxygen sensors consisting of a fluorophore and a phosphor: Optical measurements of oxygen concentration of microenvironments (Department of Chemistry and Chemical Biology, Gunma Univ.) YOSHIHARA, Toshitada; YAMAGUCHI, Yuji; OTA, Miki; TOBITA, Seiji
- 1F8-41** Orientation Effect of Ordered Mesoporous Silicas Modified Chemically with Crown Ethers on Ion-Sensor Selectivity (Faculty of Systems Engineering, Wakayama Univ.) NAKAJIMA, Takahito; YAJIMA, Setsuko; SAKURAI, Yoshiaki; KIMURA, Keiichi
- 1F8-42** Sol-Gel-Derived Membranes Modified Chemically with Ionophores for Hydrophilic Anion Detection (Faculty of Systems Engineering, Wakayama Univ.) HORI, Yusuke; YAJIMA, Setsuko; KIMURA, Keiichi

### Electrochemical analysis, Separation analysis

Chair: KIMURA, Keiichi (16 : 10~17 : 10)

- \* 16:00-16:10: interval for laptop PC connection.(1F8-44, 1F8-45, 1F8-46, 1F8-48, 1F8-49)
- 1F8-44** Hydrogen-invasion at metal/solution interface (NTT Energy and Environment Systems Laboratories) FUJIMOTO, Norihiro; NAKAMURA, Mariko; HIGASHI, Yasuhiro; SAITO, Hiroyuki
- 1F8-45** Anodic stripping voltammetric determination of Cd ion in plants using boron-doped diamond electrodes (Coll. Sci. Eng., Ritsumeikan Univ.) NAKAJIMA, Hiroyuki; SAKAYAMA, Kunihiko; YAMANUKI, Mikito; EINAGA, Yasuaki; MATSUMOTO, Koichi; HUKUSHIMA, Ryosuke; SHIRAIISHI, Haruki
- 1F8-46\*** The Accurate Measurements of The Dilute Aqueous Solutions With The Ionic liquid salt bridge (Kyoto Univ.; HORIBA, Ltd.) SHIBATA, Manabu; IWAMOTO, Yasukazu; NOMURA, Satoshi; FUJINO, Yosuke; SAKAIDA, Hideaki; KAKIUCHI, Takashi
- 1F8-48** Quantitative study of liquid junction potential-shift at the ionic liquid salt bridge by hydrophobic ionsevaluation of standard ion transfer potentials at the ionic liquid-water two phase (Kyoto Univ.) KANEMURA, Shinsuke; NISHI, Naoya; KAKIUCHI, Takashi
- 1F8-49** The influence of the phase-boundary potential between ionic liquid and water on spontaneous emulsion formation : observation with the microscope. (Grad. Sch. Eng., Kyoto Univ.) SUZUKI, Yuma; KITAZUMI, Yuki; NISHI, Naoya; KAKIUCHI, Takashi

Chair: ICHIMURA, Akio (17 : 20~18 : 20)

- \* 17:10-17:20: interval for laptop PC connection.(1F8-51, 1F8-52, 1F8-53, 1F8-54, 1F8-55, 1F8-56)
- 1F8-51** The assessment of potential stability of phosphonium based ionic liquid salt bridge with hydrogen electrode (Kyoto Univ.) SAKAIDA, Hideaki; NISHI, Naoya; KAKIUCHI, Takashi
- 1F8-52** Dependence temperature of the formation constants of metal cations with dibenzo-18-crown-6 in an ionic liquid studied using ion-transfer voltammetry (Grad. Sch. Eng., Kyoto Univ.) MATSUYAMA, Yoshio; NISHI, Naoya; KAKIUCHI, Takashi
- 1F8-53** Potential dependence of adsorption of the novel surface-active ion including quaternary phosphonium in hydrophobic group and glucose in hydrophilic group at the nitrobenzene/water interface (Kyoto Univ.) MINAMI, Eiji; KITAZUMI, Yuki; NISHI, Naoya; KAKIUCHI, Takashi
- 1F8-54** Effect of time of forming monolayer and temperature on phase behavior of binary self-assembled monolayers (Grad. Sch. Eng., Kyoto Univ.) MURAYAMA, Suguru; NISHI, Naoya; KAKIUCHI, Takashi
- 1F8-55** Application of Laser Interferometric Photo-thermal Method Using Chromogenic Calixarene to Highly Sensitive Determination of Sodium Ion (Wakayama Univ., Faculty of Systems Engineering; Kobe Steel, Ltd.) TSUDA, Daisuke; MACHITANI, Kouji; KATAYAMA, Ryo; TAKAHASHI, Eiji; KIMURA, Keiichi
- 1F8-56** Quantitative analysis of the distribution of Sr<sup>2+</sup> for the ionic liquid-water two-phase system based on the potential difference between the ionic liquids and water (Kyoto Univ.) TERAOKA, Ryota; NISHI, Naoya; KAKIUCHI, Takashi

### Saturday, March 27, AM

#### Surface and interface analysis, Environmental analysis

Chair: SATO, Kenji (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2F8-01, 2F8-02, 2F8-03, 2F8-04, 2F8-05)
- 2F8-01** 2D Distribution Analysis of Sugar Chains Immobilized Substrate Using Atomic Force Microscopy with Probes Modified by Concanavalin A. (Wakayama Univ.; Kao Corp.) INOUE, Shigeto; NAKAHARA, Yoshio; KADO, Shinpei; KIMURA, Keiichi
- 2F8-02** Analysis of various solvation structures at solid-liquid interfaces with

- frequency modulation atomic force microscopy (Fac. Sci., Kobe Univ.) HIASA, Takumi; KIMURA, Kenjiro; ONISHI, Hiroshi; OHTA, Masahiro; WATANABE, Kazuyuki; YAMAZAKI, Masashi; KOKAWA, Ryohei; OHYABU, Noriaki; KOBAYASHI, Kei; YAMADA, Hirofumi
- 2F8-03** Influence of wood vinegar treatment of woodceramics on VOC adsorption and desorption properties (Kanagawa Univ.) ONUKI, Satomi; TSUGOSHI, Takahisa; OKABE, Toshihiro; NISHIMOTO, Yuku
- 2F8-04** Effect of the phase-boundary potential on the spontaneous emulsification in the 1,2-dichloroethane-water two-phase system (Kyoto Univ.) KITAZUMI, Yuki; NISHI, Naoya; KAKIUCHI, Takashi
- 2F8-05\*** Long-distance transportation of air pollutants to Japan observed by three wide area monitorings of acid rain carried out from 2000 to 2008 and the influence by Korean Peninsula. (Hyogo Univ. of Teacher Educ.; Akita Univ.; Fukui Univ.; Kanazawa Institute of Technology; Daegu National Univ. of Edu., Korea; Gyeongin National Univ. of Edu., Korea) OZEKI, Toru; OGAWA, Nobuaki; NAKATA, Ryuji; FUJINAGA, Kaoru; KIM, Dong Uk; LIM, Heejun

#### Bioanalysis, Clinical analysis, Medical analysis, Forensic analysis

Chair: FUJINAGA, Kaoru (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2F8-08, 2F8-09, 2F8-10, 2F8-11, 2F8-12)
- 2F8-08** Examination on real-time analysis of environmental tobacco smoke by multi-photon ionization / mass spectrometer (TMU; Tokyo Inst. Tech.) MATSUMOTO, Jun; MISAWA, Kentaro; FUJII, Masaaki
- 2F8-09** Classification of various drugs by chemometric techniques using absorption spectrum (Iwaki Meisei Univ.) SATO, Kenji; TAHARA, Tomoya; ENDO, Hikaru
- 2F8-10** Interaction between electrolyzed water containing hypochlorous acid and amino acids 3 (Kanagawa Univ.) YASUTOMI, Mao; IWASAWA, Atsuo; NISHIMOTO, Yuku
- 2F8-11** Water State in Methylcellulose Thermo Reversible Hydrogels Containing Polyethylene Oxide - Influence of composition - (Kanagawa Univ.) IITAKA, Yuichi; TAKEBNOSHITA, Itsuro; AIKAWA, Toru; NISHIMOTO, Yuku
- 2F8-12\*** Development of integrated nanobiodevices with various nanopillar spacings. (Nagoya Univ.; Nat. Inst. Mater. Sci.) YASUI, Takao; KAJI, Noritada; OKAMOTO, Yukihiro; TOKESHI, Manabu; HORIIKE, Yasuhiro; BABA, Yoshinobu

Chair: YANO, Kazuyoshi (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2F8-15, 2F8-16, 2F8-17, 2F8-19)
- 2F8-15** IMMUNO-PILLAR CHIP: MULTIPLEX DETECTION OF DISEASE MARKERS IN WHOLE BLOOD (Graduate School of Engineering, Nagoya Univ.) KAWAKAMI, Ayako; OKAMOTO, Yukihiro; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu
- 2F8-16** Development of Cell Concentration Microdevice (Graduate School of Engineering, Nagoya Univ.) NAITO, Toyohiro; KAJI, Noritada; OKAMOTO, Yukihiro; TOKESHI, Manabu; BABA, Yoshinobu
- 2F8-17\*** Genetically encoded bioluminescent indicators for stress hormones (Research Institute for Environmental Management Technology, National Institute of Advanced Industrial Science and Technology (AIST)) KIM, Sung Bae; TAO, Hiroaki; SATO, Moritoshi
- 2F8-19\*** Molecular Tension-Indexed Bioluminescent Probe for Determining Protein-Protein Interactions (Research Institute for Environmental Management Technology, National Institute of Advanced Industrial Science and Technology (AIST)) KIM, Sung Bae; TAO, Hiroaki

### Saturday, March 27, PM

#### Bioanalysis

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

- \* 13:30-13:40: interval for laptop PC connection.(2F8-29, 2F8-30, 2F8-31, 2F8-33, 2F8-34)
- 2F8-29** *in vivo* imaging of Adipose-derived Stem Cells using Quantum Dots (Nagoya Univ.) WATANABE, Masaki; YUKAWA, Hiroshi; KAJI, Noritada; MIYAMOTO, Yoshitaka; OKAMOTO, Yukihiro; TOKESHI, Manabu; HAYASHI, Shuji; BABA, Yoshinobu
- 2F8-30** A single molecule analysis for the conformational transition of a DNA using microfluidic device (Graduate School of Engineering, Nagoya Univ.) SUZUKI, Hiroshi; KAJI, Noritada; OKAMOTO, Yukihiro; TOKESHI, Manabu; BABA, Yoshinobu
- 2F8-31\*** A Molecular Detection of Nucleolytic Degradation under Microfluidic Control (Nagoya Univ.) ONOSHIMA, Daisuke; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu
- 2F8-33** Evaluation of L-glutamate distribution and level in acute hippocampal slices (College of Humanities and Sciences, Nihon Univ.) SUGAWARA, Masao; SHOJI, Atsushi; NOZAWA, Keiichiro; CHIBA, Hiromi; DEGUCHI, Yukari; KANAZAWA, Ena; KAWAI, Jun
- 2F8-34** Simultaneous assay of GHRF and somatostatin with a regenerable pH-sensitive dye-encapsulating liposome immunoarray (College of Humanities and Sciences, Nihon Univ.) SHOJI, Atsushi; ORITA, Sayaka;

SUGIMOTO, Erika; NOZAWA, Keiichiro; YANAGIDA, Akio; SHIBUSAWA, Yoichi; SUGAWARA, Masao

Chair: KIM, Sung Bae (14 : 50~15 : 40)

- \* 14:40-14:50: interval for laptop PC connection.(2F8-36, 2F8-37, 2F8-38, 2F8-39, 2F8-40)
- 2F8-36** Detection of DNA point mutations by fluorescence resonance energy transfer (FRET) (Faculty of Science and Engineering, Doshisha Univ.) YOSHIDA, Kazuma; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2F8-37** Design of Hypoxia-sensitive contrast agent activated by enzymatic one-electron reduction (Kyoto Univ.) KOMATSU, Hirokazu; HARADA, Hiroshi; YAMADA, Hisatsugu; ITO, Takeo; TANABE, Kazuhito; HIRAOKA, Masahiro; NISHIMOTO, Sei-ichi
- 2F8-38** Highly sensitive antibody arrays modified by plasma polymerization (Tokyo Univ. of Technol.) YANO, Kazuyoshi; WATANABE, Sunao; KIMIZUKA, Ryota; YAMANO, Kazuyuki; YASUDA, Mitsuru; IKESHITA, Yusuke; MIYACHI, Hirotaka; AKIMOTO, Takuo
- 2F8-39** Theoretical Study on Fluorescence Quantum Yield of Fluorescein Derivatives (Grad. School Sci. Tech., Kumamoto Univ.) IWAMURA, Kazuya; SUGIMOTO, Manabu
- 2F8-40** An in situ method for modifying receptor sites on mesoporous silica MCM-41 channels in planar lipid bilayer membranes (College of Humanities and Sciences, Nihon Univ.) NOZAWA, Keiichiro; Oshima, Azusa; SHOJI, Atsushi; HIRANO, Ayumi; NIWANO, Michio; SUGAWARA, Masao

## Sunday, March 28, AM

### Mass spectrometry

Chair: TSUKAGOSHI, Kazuhiko (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(3F8-01, 3F8-03, 3F8-04, 3F8-05)
- 3F8-01\*** Elucidation of mechanism for electron transfer dissociation of protonated peptides by using high-energy collision with alkali metal target (Graduate School of Science, Osaka Prefecture Univ.; Graduate School of Technology, Osaka Univ.; Graduate School of Science, Osaka Univ.) HAYAKAWA, Shigeo; UKEZONO, Kazuya; MATSUMOTO, Shinya; MATSUBARA, Hiroshi; NAGAO, Hirofumi; TOYODA, Michisato
- 3F8-03** Dissociation mechanism of protonated amino acid containing OH and their dipeptide by using charge inversion mass spectrometry (Graduate School of Science, Osaka Prefecture Univ.) UKEZONO, Kazuya; HAYAKAWA, Shigeo
- 3F8-04** Electron transfer dissociation of multiply protonated disulfide linked polypeptides by using alkali metal target (Osaka Pref. Univ.; Osaka Univ.) MATSUMOTO, Shinya; HAYAKAWA, Shigeo; TOYODA, Michisato; NAGAO, Hirohumi
- 3F8-05** Analysis of HBCDD(Hexabromo-cyclododecane) by Liquid chromatography mass spectrometry (Sanyo Electric Co. Ltd. Technology R & D Headquarters) SAKATA, Masakazu; MATSUOKA, Rie; KONDOU, Tomo; TAKAGAWA, Teiji

Chair: KITAGAWA, Fumihiko (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(3F8-07, 3F8-09, 3F8-10, 3F8-11, 3F8-12)
- 3F8-07\*** Capillary chromatography using a water-hydrophilic/hydrophobic organic solvent mixture as a carrier solution; analytical conditions and separation mechanism (Faculty of Science and Engineering, Doshisha Univ.) JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 3F8-09** Capillary chromatography using a water-hydrophilic/hydrophobic organic solvent mixture as a carrier solution ; separation performance of polymer tubes (Faculty of Science and Engineering, Doshisha Univ.) KUDO, Yudai; JINNO, Naoya; HASIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 3F8-10** Capillary chromatography using a water-hydrophilic/hydrophobic organic solvent mixture as a carrier solution; examination of downsizing (Faculty of Science and Engineering, Doshisha Univ.) MIZUKAMI, Tomoe; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

### Liquid Chromatography, Electrophoretic analysis

- 3F8-11** Capillary chromatography using a water-hydrophobic/hydrophilic organic solvent mixture as a carrier solution; consideration based on fluorescence visual imaging (Faculty of Science and Engineering, Doshisha Univ.) MURAKAMI, Mari; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 3F8-12** Capillary chromatography using a water-hydrophilic/hydrophobic organic solvent mixture as a carrier solution; examination concerning a sample injection amount and separation performance (Faculty of Science and Engineering, Doshisha Univ.) TANIGAWA, Yusuke; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

Chair: MAWATARI, Kazuma (11 : 10~12 : 10)

- \* 11:00-11:10: interval for laptop PC connection.(3F8-14, 3F8-15, 3F8-16,

3F8-17, 3F8-18, 3F8-19)

- 3F8-14** Capillary chromatography using a water-hydrophilic/hydrophobic organic solvent mixture as a carrier solution; introduction of chemiluminescence detection and metal compounds analysis (Faculty of Science and Engineering, Doshisha Univ.) TAINAKA, Naoya; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 3F8-15** Capillary chromatography using a water-hydrophilic/hydrophobic organic solvent mixture as a carrier solution; introduction of chemiluminescence detection and biomolecule analysis. (Faculty of Science and Engineering, Doshisha Univ.) MASUHARA, Yuji; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 3F8-16** Transient-Trapping in MEKC for High-Sensitive Detection. 14 (Kyoto Univ.) SUEYOSHI, Kenji; HASHIBA, Kota; TANAKA, Ryuta; KITAGAWA, Fumihiko; OTSUKA, Koji
- 3F8-17** Highly Sensitive Analysis of Sugar Chains in Capillary / Microchip Electrophoresis. 3 (Kyoto Univ.) KAWAI, Takayuki; SUEYOSHI, Kenji; KITAGAWA, Fumihiko; OTSUKA, Koji
- 3F8-18** High-sensitivity detection of DNA point mutations with capillary gel electrophoresis-dual channel laser induced fluorescence detection system (Faculty of Science and Engineering, Doshisha Univ.) HAMADA, Mariko; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 3F8-19\*** PMMA Microchip Gel Isotachopheresis for the Simultaneous Concentration and Separation of DNA Fragments or DNA-aptamer and its Thrombin complex (Graduate School of Engineering, Nagoya Univ.) WANG, Jun; OKAMOTO, Yurohiki; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu

## Sunday, March 28, PM

### Microanalysis, Nanoanalysis

Chair: OTSUKA, Koji (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(3F8-34, 3F8-36, 3F8-37, 3F8-38)
- 3F8-34\*\*** Single cell detection of Salmonella by PCR on Compact Disk (CD) shaped micro fluidic device (Soka Univ.) FURUTANI, Shunsuke; NAGAI, Hidenori; TAKAMURA, Yuzuru; KUBO, Izumi
- 3F8-36** Development of microfluidic device for therapeutic drug monitoring (Graduate School of Engineering, Nagoya Univ.) SUGIURA, Kanako; KAJI, Noritada; OKAMOTO, Yukihiro; TOKESHI, Manabu; BABA, Yoshinobu
- 3F8-37** Analysis of a single enzyme reaction by microfabricated structures (Graduate School of Engineering, Nagoya Univ.) IJIMA, Kazuki; NIKKA, Noritada; OKAMOTO, Yukihiro; TOKESHI, Manabu; BABA, Yoshinobu
- 3F8-38** A separable microchip for construction and recovery of small blood vessel (Department of Bioengineering, School of Engineering, The Univ. of Tokyo) YAMASHITA, Tadahiyo; TANAKA, Yo; SATO, Kae; KITAMORI, Takehiko

Chair: TOKESHI, Manabu (15 : 30~16 : 10)

- \* 15:20-15:30: interval for laptop PC connection.(3F8-40, 3F8-42, 3F8-43)
- 3F8-40\*** Study on separation of radionuclide ions using extended-nano fluidic control (Research Laboratory for Nuclear Reactors, Tokyo Institute of Technology) TSUKAHARA, Takehiko; KITAMORI, Takehiko
- 3F8-42** Development of streaming potential and current measurements in extended-nano space and evaluation of electrical conductivity (The Univ. of Tokyo) MORIKAWA, Kyojiro; MAWATARI, Kazuma; TSUKAHARA, Takehiko; KITAMORI, Takehiko
- 3F8-43** Development of ELISA in the extended-nano space using local immobilization of antibody (The Univ. of Tokyo) HIRUMA, Fukashi; MAWATARI, Kazuma

Chair: TSUKAHARA, Takehiko (16 : 20~17 : 00)

- \* 16:10-16:20: interval for laptop PC connection.(3F8-45, 3F8-47, 3F8-48)
- 3F8-45\*\*** Development of an on-chip periodic nanohole array for localized surface plasmon resonance based biosensor (Univ. of Tsukuba) NAKAMOTO, Kohei; KURITA, Ryoji; NIWA, Osamu
- 3F8-47\*** Design of blood plasma separation microfluidic device using capillary phenomenon and Development of on-site blood analysis system (Ritsumeikan Univ.; Horiba, Ltd.) SAKAMOTO, Hiroaki; HATSUDA, Ranko; MIYAMURA, Kazuhiro; SHIRAIISHI, Haruki; SUGIYAMA, Susumu
- 3F8-48** Design of Novel Metal-ion Sensors Using Aggregation of Silica Nanoparticles Modified chemically with Crown Ethers (Faculty of Systems Engineering, Wakayama Univ.) HAYASHI, Takafumi; NAKAHARA, Yoshio; KIMURA, Keiichi



## Room G1

Bldg.17 17-301

Organic Chemistry -Reaction and Synthesis-  
Organic Electron Transfer Chemistry

Friday, March 26, AM

Chair: KUROBOSHI, Manabu (9:30~10:30)

- \* 9:20-9:30: interval for laptop PC connection.(1G1-04, 1G1-06, 1G1-08, 1G1-09)
- 1G1-04\*** Palladium-catalyzed stereoselective halolactonization (Nagasaki Univ.) MINATO, Daishirou; ISHIMARU, Keiko; IIKAWA, Shinya; KURIYAMA, Masami; ONOMURA, Osamu
- 1G1-06\*** Intramolecular Electron Transfer through Non Conjugated Network. Probing by the Formation of Cyclobutane Ring (Tokyo Univ. of Agric. and Technol.) OKADA, Yohei; AKABA, Ryoichi; CHIBA, Kazuhiro
- 1G1-08** Construction of reaction system for anodic oxidation of carrier-linked proline derivatives (Tokyo Univ. of Agriculture and Technology) KAWAI, Tomomitsu; CHIBA, Kazuhiro
- 1G1-09** Electrochemical carboxylation involving aryl radical cyclization (Graduate School of Engineering, Hokkaido Univ.) MICHINISHI, Junya; SENBOKU, Hisanori; HARA, Shoji

Chair: SENBOKU, Hisanori (10:40~11:40)

- \* 10:30-10:40: interval for laptop PC connection.(1G1-11, 1G1-12, 1G1-13, 1G1-15, 1G1-16)
- 1G1-11** Electro-chlorination I. C-S/S-S Bonds Cleavage of 4-Dithioazetidinone Derivatives (Graduate School of Natural Science and Technology, Okayama Univ.) ANNO, Yoko; OHNARU, Tomomi; YONEDA, Masahiro; KUROBOSHI, Manabu; TANAKA, Hideo
- 1G1-12** Electro-chlorination II. Synthesis of 4-Chloro-2-azetidinone (Graduate School of Natural Science and Technology, Okayama Univ.) YONEDA, Masahiro; SATO, Shun; KUROBOSHI, Manabu; TANAKA, Hideo
- 1G1-13\*** Electrochemical Fluorodesulfurization of Conjugated Polymer Films (Tokyo Institute of Technology) HAYASHI, Shotaro; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 1G1-15\*** Fluorodesulfurization of Benzooxazines and Pyridooxazines Using Electrogenerated Active Halogen Species (Tokyo Institute of Technology) YIN, Bin; FUCHIGAMI, Toshio
- 1G1-16** Anodic Iodofluorination of Activated Olefins (Tokyo Institute of Technology) ISHIGURO, Yutaka; INAGI, Shinsuke; FUCHIGAMI, Toshio

Friday, March 26, PM

Chair: MITSUDO, Koichi (13:10~14:00)

- \* 13:00-13:10: interval for laptop PC connection.(1G1-26, 1G1-27, 1G1-28, 1G1-29, 1G1-30)
- 1G1-26** Electrochemical Fluorination Using Polymer-supported Iodobenzene Mediator in Ionic Liquid (Tokyo Institute of Technology) SAWAMURA, Takahiro; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 1G1-27** Regioselective anodic fluorination of thiols protected with acyl groups (Tokyo Institute of Technology) KURIBAYASHI, Shunsuke; HOSOI, Kohei; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 1G1-28** Practical synthesis of sulfoxide via electrooxidation of sulfide (Okayama Univ. of Science; Faculty of Engineering) ISHIKURA, Yutaka; SUKEDA, Syouhei; MORIKAWA, Hiroyuki; DU, Zhenjun; TORII, Sigeru; NOKAMI, Junzo
- 1G1-29** Preparation of Polythiophene Nanocylinder Using Template Electrochemical Polymerization in Super Critical Fluids and Investigation of Its Photo-electrochemical Properties (Tokyo Institute of Technology; Interdisciplinary Graduate School of Science and Engineering) ATOBE, Mahito; SAKAMOTO, Ken; IIZUKA, Shinya; YAMAMOTO, Hikaru; FUCHIGAMI, Toshio
- 1G1-30** A New Method for Oxidation by Integration of Electrochemical and Chemical Reactions (Grad. Sch. Eng., Kyoto Univ.) ASHIKARI, Yosuke; NOKAMI, Toshiki; YOSHIDA, Junichi

Chair: ONOMURA, Osamu (14:10~15:10)

- \* 14:00-14:10: interval for laptop PC connection.(1G1-32, 1G1-34, 1G1-36, 1G1-37)
- 1G1-32\*** Electro-oxidative Synthesis of Cationic Palladium Complexes and Application to Pd/TEMPO Double-mediatory Molecular Transformations (Graduate School of Natural Science and Technology, Okayama Univ.) MITSUDO, Koichi; KAIDE, Takashi; SHIRAGA, Takuya; TANAKA, Hideo
- 1G1-34\*** Multiple-Alkylation Using Diarylcarbenium Ion Pools (Kyoto Univ.) NOKAMI, Toshiki; WATANABE, Takashi; SUEHIRO, Takafumi; MUSYA, Naoki; YOSHIDA, Jun-ichi
- 1G1-36** Stereoselective Synthesis of Multi-Substituted Piperidine Derivatives

Using Indirect Cation Pool Method (Graduate School of Natural Science and Technology, Okayama Univ.) YAMASHITA, Atsuhiko; MITSUDO, Koichi; SUGA, Seiji; UEOKA, Koji; YOSHIDA, Jun-ichi

- 1G1-37** Mukaiyama Aldol Reaction Catalyzed by Electrochemically Generated Organo-dications (Okayama Univ.) KAWAKAMI, Mai; TAKASUKA, Yuki; MITSUDO, Koichi; SUGA, Seiji

Chair: INAGI, Shinsuke (15:20~16:20)

- \* 15:10-15:20: interval for laptop PC connection.(1G1-39, 1G1-40, 1G1-41, 1G1-42, 1G1-43, 1G1-44)
- 1G1-39** Preparation of the Thermoresponsive Polymer Grafted Graphite Electrodes by Using Living Radical Polymerization Method (Kinki Univ.) KUDO, Tomoya; MAEDA, Tomomi; UEMUKAI, Toru; ISHIFUNE, Manabu
- 1G1-40** Preparation of the Carbon Fiber Modified with the Palladium Pincer Complexes and Estimation of Their Catalytic Activity (Kinki Univ.) WATANABE, Maki; ISHIFUNE, Manabu
- 1G1-41** Electro-oxidative Wacker-type Reaction Using Recyclable Pd-catalyst in PEG/Organic Two-Phase System (Graduate School of Natural Science and Technology, Okayama Univ.) FUKUNAGA, Satoshi; FUJITA, Tomoya; MITSUDO, Koichi; TANAKA, Hideo
- 1G1-42** Pd-Catalyzed Electrooxidative Cross-Coupling of Arylboronic Acids and Terminal Alkynes (Graduate School of Natural Science and Technology, Okayama Univ.) SHIRAGA, Takuya; MIZUKAWA, Jun-ichi; MITSUDO, Koichi; TANAKA, Hideo
- 1G1-43** Electrooxidation of Phenol Derivatives in Acidic Aqueous media (Graduate School of Natural Science and Technology, Okayama Univ.) FUJIWARA, Takashi; OHIRA, Manato; KUROBOSHI, Manabu; TANAKA, Hideo
- 1G1-44** Regioselective Generation of Dendritic Carbocations Using Electrochemical Reactions Based on the Effect of Silyl Groups (Kyoto Univ.) MUSYA, Naoki; WATANABE, Takashi; NOKAMI, Toshiki; YOSHIDA, Jun-ichi

Chair: KISE, Naoki (16:30~17:10)

- \* 16:20-16:30: interval for laptop PC connection.(1G1-46, 1G1-47, 1G1-48, 1G1-49)
- 1G1-46** Synthesis and Interfacial Redox Property of Optically Active Tetrathiafulvalene (Faculty of Science and Engineering, Kinki Univ.) NAMBU, Shinya; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 1G1-47** Theoretical studies of ArS<sup>+</sup> generated by electrochemical oxidation of ArSSAr (Grad. Sch. Eng., Kyoto Univ.) MATSUMOTO, Koichi; ZIPSE, Hendrik; SUGA, Seiji; UEOKA, Koji; FUJIE, Shunsuke; YOSHIDA, Jun-ichi
- 1G1-48** Molecular Geometry and Orbital Interaction of 1,4-Diarylbutane-1,4-Diyl Radical Cation (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.; Grad. Sch. of Sci.) IKEDA, Hiroshi; UMEMOTO, Naoki; KANEI, Takahiro; MIZUNO, Kazuhiko
- 1G1-49** Organic electron transfer reactions promoted by in-situ generated radical cation reagents (Graduate School of Science and Technology, Niigata Univ.; Faculty of Science, Niigata Univ.) KOMATA, Shota; HASEGAWA, Eietsu

Saturday, March 27, AM

Chair: MAEKAWA, Hirofumi (9:20~10:20)

- \* 9:10-9:20: interval for laptop PC connection.(2G1-03, 2G1-04, 2G1-05, 2G1-06, 2G1-07, 2G1-08)
- 2G1-03** Reductive Cross Coupling of *N*-alkoxycarbonyl Lactams and Ketones with Low-Valent Titanium (Tottori Univ.) TAKENAGA, Yosei; ISHIKAWA, Youhei; SAKURAI, Toshihiko; KISE, Naoki
- 2G1-04** Synthesis of Multifurylbenzenes by RhCl<sub>3</sub>/amine-catalyzed Cyclotrimetrisation of Alkynes and Their Electrochemical Properties (Graduate School of Natural Science and Technology, Okayama Univ.) NISHIOKA, Chie; MORIMOTO, Ichiro; YOSHIDA, Kenta; MITSUDO, Koichi; TANAKA, Hideo
- 2G1-05** Electro- and Chemical Reductions of Tetravalent Phosphonium Salts Derived from Triphenylphosphine Oxide (Graduate School of Natural Science and Technology, Okayama Univ.) KAMENOUE, Shogo; AKAGI, Tomomi; TANAKA, Motofumi; YANO, Tomotake; KUROBOSHI, Manabu; TANAKA, Hideo
- 2G1-06** Electro-reduction of Aryl Halides on Metal Catalyst-Loaded Active Carbon Electrode (Graduate School of Natural Science and Technology, Okayama Univ.) KOKUI, Yuta; HARA, Naoaki; KUROBOSHI, Manabu; TANAKA, Hideo
- 2G1-07** Preparation of the Polymeric Metalloporphyrin Complexes Containing Different Metal Ions and Their Fixation onto a Platinum Electrode (Kinki Univ.) MORIKAWA, Ai; IWAI, Yumi; ISHIFUNE, Manabu
- 2G1-08** Synthesis of the Dichlorosilane Having Pentacoordinated Silicon Center and Its Polymerizability under Electroreductive Conditions (Kinki Univ.) YAMASHITA, Kyohei; SANA, Chika; ISHIFUNE, Manabu

Chair: NOKAMI, Toshiki (10:30~11:30)

- \* 10:20-10:30: interval for laptop PC connection.(2G1-10, 2G1-11, 2G1-12, 2G1-13, 2G1-14, 2G1-15)

- 2G1-10** Organic Reductant in Aqueous Media: Electro-reduction of Amphiphilic Viologens and Application to C-C Bond Formation (Graduate School of Natural Science and Technology, Okayama Univ.) TANABE, Go; YAMAMOTO, Takashi; KUROBOSHI, Manabu; TANAKA, Hideo
- 2G1-11** Electro-generated Organic Reductants Derived from 4-Substituted Pyridinium Salts (Graduate School of Natural Science and Technology, Okayama Univ.) SUZUKI, Ryosuke; KUROBOSHI, Manabu; TANAKA, Hideo
- 2G1-12** Electrochemical Reduction of Polyfluorene Derivatives Containing 9-Fluorenone Unit (Tokyo Institute of Technology Interdisciplinary Graduate School of Science and Engineering) KOSEKI, Kazuya; HAYASHI, Shotaro; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 2G1-13** Study on Electrocatalysis of Polar Organic Solvent Soluble C<sub>60</sub> Derivatives (Tokyo Institute of Technology) FURUSAWA, Takashi; INAGI, Shinsuke; FUCHIGAMI, Toshio; MATSUMOTO, Kei; ITOH, Toshiyuki
- 2G1-14** Mg-Promoted Three Components Joining Reaction between Aromatic Acid Anhydride,  $\alpha, \beta$ -unsaturated esters and Trimethylsilyl Chloride (Nagaoka Univ. of Tech.) MIYAZAKI, Takeshi; SASAKI, Ken; MAEKAWA, Hirofumi; NISHIGUCHI, Ikuzou
- 2G1-15** Mg-Promoted C-Trifluoroacetylation of Benzaldehydes (Nagaoka Univ. of Tech.) KUDO, Masashi; NISHIGUCHI, Ikuzo; MAEKAWA, Hirofumi

## Organic Chemistry -Reaction and Synthesis-Aromatic Compounds

Saturday, March 27, PM

Chair: AIKAWA, Haruo (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(2G1-34, 2G1-35, 2G1-37)
- 2G1-34** Synthesis and photophysical properties of novel perylene derivatives (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) KITAJIMA, Hideki; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 2G1-35\*** Synthesis and Optical Property of Multi-Bridged Optically-Active Oligonaphthalenes (RIKEN) TAKAISHI, Kazuto; KAWAMOTO, Masuki; TSUBAKI, Kazunori
- 2G1-37\*** Synthesis of conjugation-expanded [30]octaphyrin(0.0.0.0.0.0.0) (Ehime Univ.) OKUJIMA, Tetsuo; JIN, Guangnan; KUZUHARA, Daiki; YAMADA, Hiroko; UNO, Hidemitsu; ONO, Noboru

Chair: OSUGA, Hideji (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(2G1-40, 2G1-41, 2G1-42, 2G1-43, 2G1-44, 2G1-45)
- 2G1-40** Synthesis and light-emitting characteristics of donor/acceptor type of phenylethynyl-substituted anthracenes (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) ISHII, Mai; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 2G1-41** Synthesis and light-emitting characteristics of donor/acceptor type oligo(phenyleneethynylene)s having terphenyl groups at the terminal (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) KAJIMARU, Atsuko; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 2G1-42** Two-photon absorption characteristics of star-shaped donor/acceptor type fluorophores having nitrogen atom at the molecular center (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) SETOGUCHI, Mina; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 2G1-43** Synthesis and photophysical properties of Conjugation-expanded AzaBODIPYs (Graduate School of Science and Engineering, Ehime Univ.) TOMIMORI, Yuya; JIN, Guangnan; OKUJIMA, Tetsuo; YAMADA, Hiroko; UNO, Hidemitsu; ONO, Noboru
- 2G1-44** Photochemical synthesis and properties of 5,12-substituted tetracenes from their soluble precursors containing  $\alpha$ -diketone unit (Ehime Univ.) AOTAKE, Tatsuya; YAMADA, Hiroko; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 2G1-45** Synthesis and Properties of Conjugation-expanded Peryrenes (Graduate School of Science and Engineering, Ehime Univ.) NAKAMURA, Jun; ONO, Noboru; YAMADA, Hiroko; UNO, Hidemitsu; OKUJIMA, Tetsuo

Chair: YAMAGUCHI, Yoshihiro (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(2G1-47, 2G1-48, 2G1-49, 2G1-50, 2G1-51)
- 2G1-47<sup>†</sup>** Aryl-substituted fulleropyrrolidine derivatives: synthesis and efficiency as source of thin layer solar cell. (Dept. Chem. Biotechnol., Grad. Sch. Eng., Tottori Univ.) MATSUMOTO, Kei; HASHIMOTO, Koji; KAMO, Masaya; HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki
- 2G1-48** Synthesis of Organic Semiconducting Materials Based on Alkylbenzothiothiophene Derivatives and Their Applications to OFET Devices. (Fac. of Systems Engineering, Wakayama Univ.) NISHIJIMA, Kenta; OSUGA, Hideji; KUSHI, Naoki; KUROKAWA, Atsushi; TANAKA, Ichiro;

SAKAMOTO, Hidefumi

- 2G1-49** Luminescence Properties of Silica-Adsorbed Aryloxyalkylphosphonic Acid Esters: Effects of Coexistence of Alkylphosphonic Acid Esters (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology; Chemical Resources Laboratory, Tokyo Institute of Technology) YAMAZAKI, Masahiro; MAKIOKA, Yoshikazu; TANIGUCHI, Yuki
- 2G1-50** Synthesis and Properties of 1,2-Bis[(2-aminotropon-5-yl)ethynyl]benzen derivatives (Yokohama Natl. Univ.) MURAI, Masayuki; YOSHIDA, Hanayo; OTANI, Hiroyuki
- 2G1-51** Synthesis and Property of Bis(tropolon-5-yl)butadiyne (Faculty of Education and Human Sciences, Yokohama Natl. Univ.) KOIKE, Mamoru; OTANI, Hiroyuki

Sunday, March 28, AM

Chair: KIKUCHI, Satoshi (9 : 30 ~10 : 30)

- \* 9:20-9:30: interval for laptop PC connection.(3G1-04, 3G1-05, 3G1-06, 3G1-07, 3G1-08, 3G1-09)
- 3G1-04** Three-Component Coupling Using Arynes and Alkynyl Bromides (Graduate School of Engineering, Hiroshima Univ.) YOSHIDA, Hiroto; ASATSU, Yuji; OHSHITA, Joji
- 3G1-05** Total Synthesis of Cytosporone B via Insertion Reaction of an Aryne into Carbon-Carbon  $\sigma$ -bond (Graduate School of Engineering, Hiroshima Univ.) YOSHIDA, Hiroto; MORISHITA, Takami; OHSHITA, Joji
- 3G1-06** Synthetic Studies of Pluramycin Antibiotics (1): Benzene-furan cycloaddition approach (Department of Chemistry, Tokyo Institute of Technology; SORST) ANDO, Yoshio; JUNG, Sunna; SIGETA, Masayuki; KITAMURA, Kei; MATSUMOTO, Takashi; SUZUKI, Keisuke
- 3G1-07** Synthetic studies of the pluramycin antibiotics (2): An approach via the C-glycosylated *o*-toluate (Department of Chemistry, Tokyo Institute of Technology; SORST) SHIGETA, Masayuki; KITAMURA, Kei; ANDO, Yoshio; MATSUMOTO, Takashi; SUZUKI, Keisuke
- 3G1-08** Synthetic studies of the pluramycin antibiotics(3):Some insights into the reactivity of the C-glycosylated anthracene derivatives (Tokyo Institute of Technology; SORST) KITAMURA, Kei; SHIGETA, Masayuki; ANDO, Yoshio; MATSUMOTO, Takashi; SUZUKI, Keisuke
- 3G1-09** Synthesis of stable carbon isotope multi-labeled phenols (Waseda Univ.) TAKAHASHI, Shuhei; TAINAKA, Rieko; KOYAMA, Hidetoshi; SHIMIZU, Yusuke; SUEKI, Shunsuke; SHIMIZU, Isao

Chair: YOSHIDA, Hiroto (10 : 40~11 : 40)

- \* 10:30-10:40: interval for laptop PC connection.(3G1-11, 3G1-12, 3G1-13, 3G1-14, 3G1-15, 3G1-16)
- 3G1-11** Toward the synthesis of the dermocanarins (1): Enantioselective synthesis of the key biphenyl intermediate (Department of Chemistry, Tokyo Institute of Technology; School Pharmacy, Tokyo Univ. of Pharmacy and Life Sciences; SORST) YAMAGUCHI, Satoru; TAKAHASHI, Nobuyuki; SUZUKI, Keisuke; MATSUMOTO, Takashi
- 3G1-12<sup>†</sup>** Toward the synthesis of the dermocanarins (2):Synthesis of the anthraquinone-naphthoquinone framework of dermocanarin 2 (Department of Chemistry, Tokyo Institute of Technology; School Pharmacy, Tokyo Univ. of Pharmacy and Life Sciences; SORST) TAKAHASHI, Nobuyuki; YAMAGUCHI, Satoru; SUZUKI, Keisuke; MATSUMOTO, Takashi
- 3G1-13** Synthesis and property of tripod compound containing aryl ethynylene (The Institute of Scientific and Industrial Research, Osaka Univ.) NAKAGAWA, Hiroki; HON, Changfeng; NAKATANI, Kazuhiko
- 3G1-14** Synthesis of polysubstituted xanthenes via the Fries-type rearrangement (Department of Chemistry, Tokyo Institute of Technology; School of Pharmacy, Tokyo Univ. of Pharmacy and Life Sciences; SORST) ITAKURA, Ryouhei; ANDO, Yoshio; SUZUKI, Keisuke; MATSUMOTO, Takashi
- 3G1-15** Asymmetric [2+2] and [2+4] Cycloadditions within a Self-Assembled Chiral Coordination Cage (Grad. School of Engineering, The Univ. of Tokyo; CREST, JST) PESCHARD, Stephane; NISHIOKA, Yuki; HORIUCHI, Shinnosuke; MURASE, Takashi; FUJITA, Makoto
- 3G1-16** Entropy-controlled Diels-Alder Reactions of Naphthalenes within a Self-Assembled Cage (Grad. School of Engineering, The Univ. of Tokyo; CREST, JST) HORIUCHI, Shinnosuke; MURASE, Takashi; FUJITA, Makoto

Sunday, March 28, PM

Chair: YAMADA, Hiroko (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(3G1-25, 3G1-26, 3G1-27, 3G1-28, 3G1-30)
- 3G1-25** Effect of combination, concentration, and ratio in the two-component gel formation by pseudoenantiomeric helicene oligomers (Grad. Sch. Pharm. Sci., Tohoku Univ.) AMEMIYA, Ryo; MIZUTANI, Marie; YAMAGUCHI, Masahiko
- 3G1-26** The effect of coadsorption on gold on the structure change of oligo (ethynylhelicene) between double-helix and random-coil (Grad. Sch. Pharm. Sci., Tohoku Univ.) AMEMIYA, Ryo; YAMAMOTO, Kouji; YAMAGUCHI, Masahiko
- 3G1-27<sup>†</sup>** Development of Chiral silica nanoparticles Containing Helicenes (Grad. Sch. Pharm. Sci., Tohoku Univ.) AN, Zengjian; YASUI,

Yoshizumi; YAMAGUCHI, Masahiko

- 3G1-28\*** Extension of Biomimetic -oriented 'Linked Ethynylthienylarene Systems' (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Sci. Eng., Univ. of Toyama) TOYOTA, Kozo; YAMAMOTO, Takuya; TSUJI, Yasutomo; KATSUTA, Hiroshi; NAKAMURA, Kazuhiro; IWAMOTO, Takeaki; MORITA, Noboru; KURODA, Shigeyasu
- 3G1-30** Stereospecific transformations of an axially chiral biphenyl via quinol ether (Department of Chemistry, Tokyo Institute of Technology; SORST) KAMIMURA, Haruki; SUZUKI, Keisuke; MATSUMOTO, Takashi

Chair: ANDO, Yoshio (14 : 10~15 : 10)

- \* 14:00-14:10: interval for laptop PC connection.(3G1-32, 3G1-33, 3G1-35, 3G1-36, 3G1-37)
- 3G1-32** Acceleration by microwave irradiation on the atropo-enantioselective methanolysis reaction of biaryl lactones (1) (Keio Univ.) TSUBO, Tatsuyuki; KIKUCHI, Satoshi; YAMADA, Tohru
- 3G1-33\*** Acceleration by microwave irradiation on the atropo-enantioselective methanolysis reaction of biaryl lactones (2) (Keio Univ.) KIKUCHI, Satoshi; TSUBO, Tatsuyuki; YAMADA, Tohru
- 3G1-35** Asymmetric coupling of 2-hydroxybenzo[*c*]phenanthrenes by using optically active diamines (Grad. Sch. Eng., Utsunomiya Univ.) TODA, Mitsuru; KIMURA, Takao; KARIKOMI, Michinori
- 3G1-36** Synthesis of 1,1'-bibenzo[*c*]phenanthrols by reduction of helical quinones (Grad. Sch. Eng., Utsunomiya Univ.) OGOSHI, Keita; SALIM, Mohammad; KIMURA, Takao; KARIKOMI, Michinori
- 3G1-37\*** Reaction mechanism on the oxidative asymmetric coupling of 2-naphthols catalyzed by chiral Fe(III)-salen complexes (Kyushu Univ.) EGAMI, Hiromichi; MATSUMOTO, Kenji; OGUMA, Takuya; KATSUKI, Tsutomu

Chair: MURASE, Takashi (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(3G1-39, 3G1-40, 3G1-41, 3G1-42, 3G1-43, 3G1-44)
- 3G1-39** Enantioresolution and Absolute Configuration of Aromatic Homoallyl and Homopropargyl Alcohols (The Univ. of Shiga Pref.) NISHIDA, Junya; MATSUMOTO, Takatoshi; TAKESHITA, Mitsuhiro; WTANABE, Masataka; KUMAGAI, Tsutomu; INOUE, Yoshinori
- 3G1-40** Study on the Synthesis of Axially Chiral Biphenyl-linked Bis(2-naphthol) (Kumamoto Univ.) INOUE, Yasuyuki; SHIMIZU, Kei-ichiro; KIKUCHI, Shigeru; IRIE, Ryo
- 3G1-41** Metal free One-Pot conversion of Aromatics into Aromatic Nitriles. (Chiba Univ.) UHJIMA, Sousuke; TOGO, Hideo
- 3G1-42** Development of Petasis Boron Mannich Reaction with Aromatic Aldehyde (Graduate School of Natural Science and Technology, Okayama Univ.; Department of Applied Chemistry, Faculty of Engineering, Okayama Univ.) MANDAI, Hiroki; MUROTA, Kyouta; SAKAI, Takashi
- 3G1-43** Catalyst-Free Amination of *meso*-Bromoporphyrins with Azide Anion (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASITA, Ken-ichi; KATAOKA, Kazuyuki; ASANO, Motoko; SUGIURA, Ken-ichi
- 3G1-44** Highly Z-Selective Synthesis of Olefins Using a Novel Pentacoordinated Phosphorus Reagent (Dept. Chem., Grad. Sch. Sci., Hiroshima Univ.; Center of Quantum Life Sciences, Hiroshima Univ.) ARIMURA, Junya; KOJIMA, Satoshi; ABE, Manabu

Chair: NAKAO, Yoshiaki (16 : 30~17 : 30)

- \* 16:20-16:30: interval for laptop PC connection.(3G1-46, 3G1-47, 3G1-48, 3G1-49, 3G1-50, 3G1-51)
- 3G1-46** Synthesis of  $\pi$ -Extended Triphenylene Derivatives via Trimerization of Benzynes (Department of Chemistry, School of Science and Technology, Kwansai Gakuin Univ., PRESTO) KAKUDA, Takamasa; SUZUKI, Keisuke; HAMURA, Toshiyuki
- 3G1-47** Regioselective synthetic approach to multi-substituted benzenes (Department of Chemistry, Tokyo Institute of Technology, SORST) SEO, Hana; OHMORI, Ken; SUZUKI, Keisuke
- 3G1-48** Coupling of Aryl Halides with Benzene Derivatives Promoted by a *t*-Butoxide with the Aid of a Catalytic Amount of a 1,10-Phenanthroline Derivative (Grad. Sch. Sci., Kyoto Univ.) SHIRAKAWA, Eiji; ITOH, Ken-ichi; HIGASHINO, Tomohiro; HAYASHI, Tamio
- 3G1-49\*** Coupling of Aryl Iodides with Alkenes Promoted by Potassium *t*-Butoxide (Grad. Sch. Sci., Kyoto Univ.) SHIRAKAWA, Eiji; ZHANG, Xuejing; HAYASHI, Tamio
- 3G1-50\*** Synthesis of 2-aminonaphthalenes via aminobenzannulation without metallic catalysts (Graduate School of Science, Tohoku Univ.) YANG, Fan; JIN, Tienan; YAMAMOTO, Yoshinori
- 3G1-51** Alkylation of aromatic compounds with alcohol under hydrothermal conditions. (Graduated School of Engineering, Nagoya Institute of Technology) OKOCHI, Sota; HIRASHITA, Tsunehisa; ARAKI, Shuki

Monday, March 29, AM

Chair: KANNO, Ken-ichiro (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4G1-01, 4G1-02, 4G1-03, 4G1-04, 4G1-05, 4G1-06)
- 4G1-01** Rhodium-Catalytic Synthesis and Photophysical Properties of Dihy-

drobenzopyrano-Fused Dibenzophosphole (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) FUKAWA, Naohiro; TANAKA, Ken

- 4G1-02** Palladium catalyzed cycloaddition reaction of binaphthyl halide with alkyne (Department of Chemistry, Graduate School of Science, Osaka Prefecture Univ.) KAMIKAWA, Ken; ISHIZAKA, Yuka
- 4G1-03** Synthesis of Chiral 1,8-Diadamantyl-naphthalene Stable at Ambient Temperature (Grad. Sch. Pharm. Sci., Tohoku Univ.) AIKAWA, Haruo; TAKAHARA, Yusuke; YAMAGUCHI, Masahiko
- 4G1-04** Synthesis of condensed ring aromatic compounds via the oxidative condensation of tetraaryllalkenes (The Univ. of Tokyo) UEDA, Yasuyuki; TSUJI, Hayato; NAKAMURA, Eiichi
- 4G1-05** Development of a New Synthetic Method for Chrysene Derivative-sand Their  $\pi$ -Stacking Structures (Tohoku Univ.) HIOSUGI, Shunpei; MATSUNO, Taisuke; IWAMOTO, Takeaki; ICHIKAWA, Junji; ISOBE, Hiroyuki
- 4G1-06** Indium(III)-Catalyzed Friedel-Crafts-type Cyclization of 1,1-Difluoroallenes: Fluoronaphthalene Synthesis (Univ. of Tsukuba) MAYUMI, Yuka; YOKOTA, Misaki; FUCHIBE, Kohei; ICHIKAWA, Junji

Chair: YOSHIDA, Kazuhiro (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4G1-08, 4G1-09, 4G1-10, 4G1-11, 4G1-12, 4G1-13)
- 4G1-08** Synthesis of [*c*]-Fused Thiophene-Containing Substituted Acene Derivatives using Zirconocene Complexes (Catalysis Research Center, Hokkaido Univ.) SATO, Kiminori; NI, Yang; KANNO, Ken-ichiro; TAKAHASHI, Tamotsu
- 4G1-09** Synthesis of 6,6'-Dipentaceny via Dimerization of Polyalkyl-Substituted Pentacenes (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Educ.) LI, Shi; KANNO, Ken-ichiro; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 4G1-10** Synthesis of Fluorenone Derivatives Based on Intramolecular Coupling Reaction Triggered by Direct C-H Bond Activation Reaction (Institute for Chemical Research, Kyoto Univ.) UEKI, Kazuya; YAMAGO, Shigeru
- 4G1-11** Synthesis of [8]- and [12]Cycloparaphenylenes from square-shaped tetranuclear Platinum Complexes (Institute for Chemical Research, Kyoto Univ.) WATANABE, Yoshiki; IWAMOTO, Takahiro; YAMAGO, Shigeru
- 4G1-12** Synthesis of Rectangular Tetranuclear Platinum Complexes and Their Reductive Elimination Reaction Leading to Cycloparaphenylenes (Institute for Chemical Research, Kyoto Univ.) WATANABE, Yoshiki; IWAMOTO, Takahiro; YAMAGO, Shigeru
- 4G1-13** Palladium(II)-Catalyzed Electrophilic Cyclization of 1,1-Difluoro-1-alkenes: Fluorophenanthrene Synthesis (Univ. of Tsukuba) MORIKAWA, Toshiyuki; ICHITSUKA, Tomohiro; TANABE, Hiroyuki; FUCHIBE, Kohei; ICHIKAWA, Junji

Chair: TSUJI, Hayato (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(4G1-15, 4G1-16, 4G1-17, 4G1-18, 4G1-19)
- 4G1-15** Synthesis of Indoles and Carbazoles Using Ruthenium-Catalyzed Ring-Closing Metathesis (Chiba Univ.) HAYASHI, Kazushi; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 4G1-16** The Synthesis of Biaryl Compounds Using Tandem Ring-closing Enyne Metathesis (RCM)/Ring-closing Olefin Metathesis (RCM) (Chiba Univ.) SHIDA, Hiroaki; TAKAHASHI, Hidetoshi; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 4G1-17\*** Synthesis of Second-Ring Diels-Alder Adducts of Pentacene (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Educ.) JIA, Zhiying; KANNO, Ken-ichiro; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 4G1-18\*** Synthesis of 6,13-Diiodo-5,14-dihydropentacene and Introduction of Substituents by Cross-Coupling Reaction (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Educ.) JIA, Zhiying; KANNO, Ken-ichiro; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 4G1-19** Synthesis and Structure of Macrocycles Using McMurry coupling (Tokushima Bunri Univ.) TOHAYA, Taichi; KATO, Junya; KATAGIRI, Kosuke; MASU, Hyuma; TOMINAGA, Masahide; AZUMAYA, Isao

Room G2

Bldg.17 17-302

Organic Chemistry -Reaction and Synthesis-Heterocyclic Compounds

Friday, March 26, PM

Chair: KANOMATA, Nobuhiro (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(1G2-26, 1G2-27, 1G2-28, 1G2-29, 1G2-30, 1G2-31)
- 1G2-26** Synthetic Studies of Epicoccarine A, A Novel Antibacterial Tetramic

Acid (Shizuoka Univ.) SENGOKU, Tetsuya; ASHIZAWA, Kazuya; TAKAHASHI, Masaki; YODA, Hidemi

**1G2-27** Synthetic studies of penicillanols via acylation of tetramic acid (Shizuoka Univ.) SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi

**1G2-28** Synthesis of Crown Ethers for an Application to Fluorous Chemistry (The Noguchi Institute; Tokai Univ.) YAMANOI, Takashi; KOIKE, Kenji; YOSHIDA, Akihiro; ODA, Yoshiaki; WATANABE, Mikio

**1G2-29** Aldol Type Condensation Reaction of 4-Dimethylamino-1,1,1-trifluoro-3-penten-2-one with Aromatic Aldehydes Directed toward the Construction of Fluorine-containing Heterocyclic Systems (Kobe Univ.) KONO, Takashi; KAMITORI, Yasuhiro; OKADA, Etsuji

**1G2-30** A Molecular Orbital Calculation Study on Interesting Reactivity of Fluorine-containing 3,4-Dihydro-2H-pyrans in the Presence of Acid Catalyst (Kobe Univ.) KAMITORI, Yasuhiro; ISHII, Makoto; OTA, Norio; OKADA, Etsuji

**1G2-31** Oxidation of Thiols to the Corresponding Disulfides Using Activated Carbon-Oxygen System (Grad. Sch. Sci., Kobe Univ.) OKUNAGA, Kenichi; KAWAMURA, Kenjiro; EDA, Kazuo; HAYASHI, Masahiko

Chair: OKADA, Etsuji (14 : 20~15 : 20)

\* 14:10-14:20: interval for laptop PC connection.(1G2-33, 1G2-34, 1G2-35, 1G2-36, 1G2-37, 1G2-38)

**1G2-33** Development of macrolactonization via C-O bond formation by the palladium catalyst (Shizuoka Univ.) SENGOKU, Tetsuya; HAMAMATSU, Tomoya; TAKAHASHI, Masaki; YODA, Hidemi

**1G2-34** Synthetic Studies of the Natural Polyketide Vittarilide A, a Cytotoxic Agent Against Human Lung Cancer Cell Line (Shizuoka Univ.) SENGOKU, Tetsuya; HAKAMATA, Yuki; TAKAHASHI, Masaki; YODA, Hidemi

**1G2-35** Development of Novel Reactions with Cyclic Imides and Asymmetric Synthesis of Amphisterin B4. (Shizuoka Univ.) SUZUKI, Takamasa; SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi

**1G2-36** The selective synthesis of different thiazole derivatives via the addition of thioamide dianions and thioformamides. (Dept. Chem., Fac. Eng., Gifu Univ.) HORI, Fumihiko; MURAI, Toshiaki

**1G2-37** Synthesis of cyclic sulfonamides by ring transform reaction (National Inst. Adv. Ind. Sci. & Tech.; Tokyo Univ. of Science) SHIMIZU, Masao; YOSHIDA, Tetsuya; ANDO, Wataru; KONAKAHARA, Takeo

**1G2-38** Synthesis of higher-order thienoquinonoids with hydroxy groups (RIKEN) YONEZAWA, Tomoyuki; SASAKI, Takeo; TAKAISHI, Kazuto

Chair: YODA, Hidemi (15 : 30~16 : 30)

\* 15:20-15:30: interval for laptop PC connection.(1G2-40, 1G2-41, 1G2-42, 1G2-43, 1G2-44, 1G2-45)

**1G2-40** An Efficient Synthetic Method for Novel Thioxanthothioxanthenes Starting from 1,5-Bis(dimethylamino)naphthalene (Kobe Univ.) ISHIKAWA, Hiroki; ADACHI, Satoru; OKADA, Akinori; OKADA, Etsuji

**1G2-41** Synthesis of 2,1-Benziselenazoles and their Complexation toward Copper Salts (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) NEMOTO, Norihiko; UMEDA, Rui; NISHIYAMA, Yutaka

**1G2-42** Condensation reaction with mesoionic derivatives. (Graduated School of Engineering, Nagoya Institute of Technology) KAGAMI, Katsuyuki; HIRASHITA, Tsunehisa; ARAKI, Shuki

**1G2-43** Optimization of successive amide linkage-forming reaction for the synthesis of ladder-type polyamide. (Department of Material and Life Chemistry, Kanagawa Univ.) KIYOTA, Ryohei; KARASAWA, Makoto; YOKOYAMA, Akihiro; YOKOZAWA, Tsutomu

**1G2-44** Development of Novel Synthetic Method of Diarylethenes (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) SUZUKI, Katsuya; NAKAMURA, Shoichi; HIROTO, Satoru; SHINOKUBO, Hiroshi

**1G2-45** Direct carboxylation of heteroaromatic compounds by using carbon dioxide (Graduate School of Environmental Studies, Tohoku Univ.) ONOZAWA, Satoru; NEMOTO, Koji; KONNO, Megumi; MOROHASHI, Naoya; HATTORI, Tetsutaro

Chair: MOROHASHI, Naoya (16 : 40~17 : 40)

\* 16:30-16:40: interval for laptop PC connection.(1G2-47, 1G2-48, 1G2-49, 1G2-50, 1G2-51, 1G2-52)

**1G2-47** Cyclocarbonylation Reactions Utilizing Cobalt Oxide Supported Gold Nanoparticles. (Dept. of Chemistry, Kyushu Univ.; JST CREST) LIU, Xiaohao; HAMASAKI, Akiyuki; YAMANE, Yoshihiro; TOKUNAGA, Makoto

**1G2-48** Silver(I)-Catalysed Electrophilic Activation of 1,1-Difluoroalkenes : Fluoroindole Synthesis. (Univ. of Tsukuba) YAMASHITA, Shigeyuki; TANABE, Hiroyuki; ICHIKAWA, Junji

**1G2-49** Gold-Catalyzed Intramolecular Allylation toward Alkynes (Univ. of Toyama) HORINO, Yoshikazu; NAKASHIMA, Yuichi; HASHIMOTO, Ken; KURODA, Shigeyasu

**1G2-50** High-Pressure Organic Chemistry. Chiral Thiourea-catalyzed Asymmetric Hetero Diels-Alder Reaction of Activated Ketones. (Fac. Sci., Kochi Univ.) MORI, Kaori; YAMAUCHI, Tomoyuki; KOTSUKI, Hiroyoshi; MADDALUNO, Jacques

**1G2-51\*** Chiral Phosphoric Acid: Enantioselective Catalyst for the Friedel-Crafts Alkylation of Indoles with  $\alpha, \beta$ -unsaturated ketones (Institute for Materials Chemistry and Engineering (IMCE), Kyushu Univ.) BILLAKANTI, Veda Prakash; ONITSUKA, Satoaki; FURUNO, Hiroshi; INANAGA, Junji

**1G2-52** Development of asymmetric hydrogenation of quinoxalines catalyzed by halogen-bridged iridium dinuclear complex (Graduate School of Engineering Science, Osaka Univ.; Ecole Nationale Supérieure de Chimie de Paris) NAGANO, Takuto; TADAOKA, Hiroshi; CARTIGNY, Damien; AYAD, Tahar; RATOVELOMANANA-VIDAL, Virginie; OHSHIMA, Takashi; GENET, Jean-pierre; MASHIMA, Kazushi

## Saturday, March 27, AM

Chair: SHIBATA, Norio (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2G2-01, 2G2-02, 2G2-03, 2G2-04, 2G2-05, 2G2-06)

**2G2-01** Synthesis of C<sub>14</sub> type planar-chiral terpyridines and its application to asymmetric catalysis (Waseda Univ.) UEDA, Yasuyuki; KANOMATA, Nobuhiro

**2G2-02** Asymmetric catalytic cyclopropanation reactions via planar-chiral pyridiniumylides generated from copper carbenoid complexes (Waseda Univ.) TANAKA, Hiroko; KANOMATA, Nobuhiro

**2G2-03** Chiral Lewis Acid Catalyzed Asymmetric Cycloaddition Reactions of Carbonyl Ylide Generated from *N*-Diazooacetyl-2-pyrrolidinone and Its Synthetic Applications (Fac. Eng., Shinshu Univ.) SUGA, Hiroyuki; YASUMURA, Shingo; KAKEHI, Akikazu

**2G2-04** Chiral binaphthylidene and -diamine-metal complex-catalyzed asymmetric 1,3-dipolar cycloaddition reactions of azomethine ylides generated from diazoimine derivatives (Shinshu Univ.) SUGA, Hiroyuki; INABA, Ayano; KAKEHI, Akikazu

**2G2-05** Catalytic Asymmetric 1,3-Dipolar Cycloaddition of Azomethine Imines Utilizing Tartaric Acid Ester as a Chiral Auxiliary (Kanazawa Univ. Graduate School of Natural Science and Technology) TANAKA, Katsuyoshi; KATO, Tomomitsu; UKAJI, Yutaka; INOMATA, Katsuhiko

**2G2-06** Evaluation of the IndaBox Ligand in the Lewis Acid catalyzed Enantioselective 1,3-Dipolar Cycloaddition of Nitrones with Alkylidenemalonates (Tokyo Univ. of Science, Faculty of Science) IKEMATSU, Yusuke; KUTSUMURA, Noriki; SAITO, Takao

Chair: SUGA, Hiroyuki (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2G2-08, 2G2-09, 2G2-10, 2G2-11, 2G2-12, 2G2-13)

**2G2-08** Radical cyclization of optically active aza-Baylis-Hillman adducts (Yamaguchi Univ.) NOGUCHI, Fumiaki; ISHIKAWA, Shingo; KAMIMURA, Akio

**2G2-09** Oxidative Intramolecular Cyclization of 3-Oxobutanamides with Manganese(III) Acetate (Grad. School Sci. Tec., Kumamoto Univ.) KIKUE, Nobutaka; NISHINO, Hiroshi

**2G2-10** Self-disproportionation of enantiomers of the fluorinated heterocyclic compounds on achiral-phase chromatography (Nagoya Institute of Technology) NISHIMINE, Takayuki; OGAWA, Shinichi; TOKUNAGA, Etsuko; NAKAMURA, Shuichi; SHIBATA, Norio

**2G2-11** Self-disproportionation of Enantiomers of Thalidomide (Nagoya Institute of Technology) ITO, Emi; SUZUKI, Yuka; YAMAMOTO, Takeshi; TOKUNAGA, Etsuko; NAKAMURA, Shuichi; SHIBATA, Norio

**2G2-12** Regioselective Bromine-Lithium Exchange Reaction of *N*-Benzene-sulfonyl-2,4-dibromopyrrole (Grad. Sch. Sci. Technol., Nagasaki Univ.; Fac. Eng., Nagasaki Univ.) FUKUDA, Tsutomu; IAWO, Masatomo

**2G2-13** Pd(0)-catalyzed Synthesis of Isoindole derivatives from oximes (Department of Applied Chemistry, Kyusyu Institute of Technology) MORIYASU, Yohei; OKAUCHI, Tatsuo; KITAMURA, Mitsuru

Chair: UKAJI, Yutaka (11 : 20~12 : 10)

\* 11:10-11:20: interval for laptop PC connection.(2G2-15, 2G2-16, 2G2-17, 2G2-18)

**2G2-15** Synthesis and Reaction of Guanidinodiazonium Salt (1): Reaction with Carbonyl Compound (Kyusyu Institute of Technology Department of Applied Chemistry) MIYAGAWA, Satoshi; TASHIRO, Norifumi; SAKATA, Rie; OKAUCHI, Tatsuo; KITAMURA, Mitsuru

**2G2-16** Synthesis and Reaction of Guanidinodiazonium Salt (2): Reaction with Primary Amine (Department of Applied Chemistry, Kyutech Institute of Technology) YANO, Masakazu; SANDO, Mitsuyoshi; TASHIRO, Norifumi; OKAUCHI, Tatsuo; KITAMURA, Mitsuru

**2G2-17** 1,3-Dipolar Cycloadditions of Azides with 7-Substituted Norbornadienes (The Univ. of Shiga Pref.) YAKUSHIGAWA, Motoki; TSUKISATO, Chikara; KUMAGAI, Tsutomu

**2G2-18\*** Catalytic Stereoselective Aziridination of Electron-deficient Olefins Using *N*-Chloro-*N*-sodiocarbamates (Osaka Univ.) MURAKAMI, Yuta; OKUMURA, Souta; MINAKATA, Satoshi

## Saturday, March 27, PM

Chair: MURAI, Toshiaki (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(2G2-34, 2G2-35, 2G2-36,

2G2-37, 2G2-38, 2G2-39)

- 2G2-34** Cycloaddition of benzyne with amino acid esters (Fac. Sci., Fukuoka Univ.) MATSUNAGA, Nahoko; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro
- 2G2-35** Amidation Reaction of Indole Derivatives Using *N*-Fluorobenzenesulfonamide (Grad. Sch. Eng., Kyoto Univ.) UEDA, Keita; MIURA, Tomoya; MURAKAMI, Masahiro
- 2G2-36** Iron Salt-catalyzed Alkylation of 1-Aryl-2-trimethylsilylethanol with Heterocyclic Compounds (Tottori Univ.) MATSUI, Shin-ichiro; KOBAYASHI, Jun-ka; KITADA, Youhei; HAYASE, Shuichi; KAWATSURA, Motoi; ITO, Toshiyuki
- 2G2-37** A Convenient Synthetic Method for Novel Fluorine-Containing Thioxanthoacridines by Aromatic Nucleophilic Substitution and Intramolecular Friedel-Crafts Type Cyclization (Kobe Univ.) ISHIKAWA, Hiroki; ADACHI, Satoru; KOMORI, Takatsugu; OKADA, Etsuji
- 2G2-38** Synthesis of Novel 8,10-Bis(trifluoroacetyl)-7-benzo[*h*]quinazolinylamines by Aromatic Nucleophilic *N-N* Exchange Reaction (Kobe Univ.) KOMORI, Takatsugu; SAIKAWA, Shohei; OKADA, Etsuji
- 2G2-39** Synthesis of Fluorine-containing Benzoquinolines by Cyclocondensation Reaction of 5-Dimethylamino-2-trifluoroacetyl-1-naphthylamine and Ketones: The Effects of Amines as Organic Bases (Kobe Univ.) SAIKAWA, Shohei; KOMORI, Takatsugu; OKADA, Etsuji

Chair: SHIOJI, Kosei (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(2G2-41, 2G2-42, 2G2-43, 2G2-44, 2G2-45, 2G2-46)
- 2G2-41** Solid-phase One-pot Pyridine Synthesis via 6 $\pi$ -Azaelectrocyclization (Science and Technology, Kwasei Gakuin Univ. Graduate School of Science, Osaka Univ.) SAKAGUCHI, Taku; KOBAYASHI, Toyoharu; HATANO, Sho; TSUCHIKAWA, Hiroshi; FUKASE, Koichi; TANAKA, Katsunori; KATSUMURA, Shigeo
- 2G2-42** A new cyclization reaction of dienamide compounds resulting from remarkable substituent effects (Kwasei Gakuin Univ.) MAEKAWA, Yuya; SAKAGUCHI, Taku; TSUCHIKAWA, Hiroshi; KATSUMURA, Shigeo
- 2G2-43** Synthesis and Application of New Dibromopyridine Derivatives (Chemical Resources Laboratory, Tokyo Institute of Technology) KUMAGAI, Naoto; FUKUMOTO, Hiroki; YAMAMOTO, Takakazu
- 2G2-44** Synthesis of Dihydroquinazolines via Tandem Reaction of Functionalized Carbodiimides (Tokyo Univ. of Science, Faculty of Science) SATO, Sachi; KUTSUMURA, Noriki; SAITO, Takao
- 2G2-45** Reaction of Carboimides Having a Michael acceptor with Carbon Nucleophiles (Tokyo Univ. of Science, Faculty of Science) NAKANO, Hayato; KUTSUMURA, Noriki; SAITO, Takao
- 2G2-46** Synthesis of *N,N'*-disubstituted quinacridones with high solubility and their application (Dept. Chem., Kanagawa Univ.) OWAKI, Fukiko; UEHARA, Takayuki; WATANABE, Nobuko; MATSUMOTO, Masakatsu

### Sunday, March 28, AM

Chair: KAMIMURA, Akio (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3G2-01, 3G2-02, 3G2-03, 3G2-04, 3G2-05)
- 3G2-01** Synthesis of Chiral Heterohelicene by Using Oxidative Tandem Radical Cyclization (Kumamoto Univ.) TANOUE, Akihiro; KIKUTA, Shinsuke; IRIE, Ryo; KATSUKI, Tsutomu
- 3G2-02** Synthesis and Characterization of Axially Chiral C2'-Linked bis(1-(Naphthalen-1-yl)isoquinoline) as a New Bidentate Ligand (Kumamoto Univ.) TOKUSHIMA, Hiroki; IRIE, Ryo
- 3G2-03** Synthesis of Quinoxaline Derivatives Bearing Reactive Substituents at 2- and 3-positions and Their Antibacterial and Antifungal Activities - Part 2 (Faculty of Science and Technology, Seikei Univ., Japan Enviro Chemicals Co. Ltd) KATO, Akira; ISHIKAWA, Hisato; MATSUMURA, Yuriko; SUGIYAMA, Takayuki
- 3G2-04** Short-step Construction of Fused Pyridine Alkaloid Skeletons by Using Hetero Diels-Alder Reaction of Isotellurazoles with Acetylenic Dienophiles (Faculty of Engineering, Iwate Univ.) SHIMADA, Kazuki; OSAKI, Yu; TAKATA, Yukichi; OGAWA, Satoshi
- 3G2-05\*** Synthesis of Aza-Heterocyclic Compounds by Three Component Ring Transformation (Kochi Univ. of Technology) NINSHIWAKI, Nagatoshi

Chair: NISHIWAKI, Nagatoshi (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 quinoline *N*-oxides by the reduction and cyclization of 2-nitrophenylhydroxylpropanones (Fac. Sci., Fukuoka Univ.) SETO, Jun-ichi; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro
- 3G2-09** Lewis acid-catalyzed Reactions of Ethenedicarboxylates with 2-Aminobenzaldehydes Leading to Quinoline Derivatives (Nara Univ. of Educ.) YAMAZAKI, Shoko; MIYAZAKI, Kazuya; TAKEBAYASHI, Masachika; KOBAYASHI, Yu
- 3G2-10** Regioselective Nucleophilic Substitution of 4-Dimethylamino-2-methoxy-3-trifluoroacetylquinoline with Alcohols (Kobe Univ.) IWAKUNI, Keisuke; TAKEZAWA, Yoshinori; ADACHI, Satoru; HATAKENAKA, Mizuki; MEDEBIELLE, Maurice; OKADA, Etsuji
- 3G2-11** Synthesis of Novel Fluorine-Containing 1,4-Diazepinoquinolines by

Regioselective Nucleophilic Substitution of 4-Dimethylamino-2-methoxy-3-trifluoroacetylquinoline with 1,2-Diamines (Kobe Univ.) ADACHI, Satoru; HATAKENAKA, Mizuki; OKADA, Etsuji

- 3G2-12** Synthesis of Novel Fluorine-Containing Pyrazoloquinolines by Regioselective Nucleophilic Substitution of 4-Dimethylamino-2-methoxy-3-trifluoroacetylquinoline with Hydrazines (Kobe Univ.) ADACHI, Satoru; HATAKENAKA, Mizuki; OKADA, Etsuji
- 3G2-13** An efficient preparation of *N*-alkyl-benzazepine derivatives via 7-endo selective radical cyclization (Yamaguchi Univ.) SO, Masahiro; KAMIMURA, Akio; MATSUURA, Kenji; INUI, Makoto

Chair: OGAWA, Satoshi (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3G2-15, 3G2-16, 3G2-17, 3G2-18, 3G2-19, 3G2-20)
- 3G2-15** One-pot synthesis of 4,5-dihydro-3,1-benzoxazepines from 2-(2-aminophenyl)ethanols (Grad. Sch. Eng., Tottori Univ.) FUKAMACHI, Shuhei; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 3G2-16** Synthesis of Spirocyclic Lactams by Tandem Radical Reaction of Iodoaryl Azides under CO Pressure (Graduate School of Science, Osaka Prefecture Univ.; Department of Pure and Applied Chemistry, Univ. of Strathclyde) TERASOMA, Nozomi; KOBAYASHI, Shoji; RYU, Ilhyong; MURPHY, John A.
- 3G2-17** Thermal Isomerization of 1-Methoxycarbonyl-(*Z,Z*)-1-azaocta-1,3,5,7-tetraene (The Univ. of Shiga Pref.) YONEZAWA, Nagisa; TSUKISATO, Chikara; KUMAGAI, Tsutomu
- 3G2-18** Synthesis of 5-azalameLLarin D derivatives (Grad. Sch. Sci. Technol., Nagasaki Univ.; Fac. Eng., Nagasaki Univ.) NANJO, Yusuke; MASUDA, Aki; FUKUDA, Tsutomu; IWAO, Masatomo
- 3G2-19** Synthetic Study of (-)-A58365B via an Asymmetric 2-Pyridone Synthesis by Conjugate Addition of  $\beta$ -Keto Ester to Chiral Alkynyl Imine as a Key Reaction (Mie Univ.) YAMADA, Yoshiyasu; HACHIYA, Iwao; SHIMIZU, Makoto
- 3G2-20** Synthesis of porphyrin-imide molecular diode connected to carbon-nanotubes (Graduate School of Science, Osaka Univ.) GOHDA, Syun; GOTO, Akifumi; TANAKA, Hirofumi; OGAWA, Takuji

### Sunday, March 28, PM

Chair: YAMAGUCHI, Yoshihiro (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3G2-28, 3G2-29, 3G2-30, 3G2-31, 3G2-32, 3G2-33)
- 3G2-28** Behaviour of DNA-Cationic Porphyrin Complexes in Ionic Liquids (Oita Univ.) SUMI, Kensuke; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3G2-29** Interaction between DNA and Various Porphyrin Derivatives in ionic Liquids (Oita Univ.) NAKAMURA, Ayumi; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3G2-30** Proline-Type Chiral Ionic Liquids for Enantioselective Synthesis (Oita Univ.) TSURUTA, Ippei; NOBUOKA, Kaoru; KITAOKA, Satoshi; KAWANO, Yuuki; ISHIKAWA, Yuichi
- 3G2-31** Reactivities of pyrrole-fused-porphyrin dimer linked with diene moiety (Graduate School of Science and Engineering, Saitama Univ.) YOKOMIZO, Kunihiko; ISHIMARU, Yoshihiro
- 3G2-32** Synthesis of pyrrole-fused-porphyrin dimer linked with thiophen moiety (Graduate School of Science and Engineering, Saitama Univ.) OHKOSHI, Takahiro; ISHIMARU, Yoshihiro
- 3G2-33** Development of reactions for automated synthesis of porphyrin arrays (Graduate School of Science, Osaka Univ.) NOSAKA, Takenori; OGAWA, Takuji

Chair: ISHIKAWA, Yuichi (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(3G2-35, 3G2-36, 3G2-37, 3G2-38, 3G2-39, 3G2-40)
- 3G2-35** Highly Efficient Fluorescent Compounds: Syntheses and Photophysical Properties of 5,5'-Disubstituted-2,2'-Bipyridine Derivatives (Grad. Sch. Sci., Kitasato Univ.) KAWASAKI, Shunichi; OISHI, Shigero; ISHIDA, Hitoshi
- 3G2-36** Synthesis and photophysical properties of novel *N*-containing pi-conjugated ring systems (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) SETOGUCHI, Mina; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 3G2-37** Synthesis of organic luminophores having 1,2,3-triazole rings (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) MATSUMOTO, Kazuhiko; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 3G2-38** Light-emitting characteristics of Zn(II) complex of oligo(phenylene-neethylenes) having terpyridine groups at the terminal (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) KAJIMARU, Atsuko; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 3G2-39** Self-aggregation of synthetic zinc 20-substituted chlorophyll derivatives (Ritsumeikan Univ.) TAMIYAKI, Hitoshi; TAIRA, Yoshichika; KUNIEDA, Michio
- 3G2-40** Synthesis of Linear Tetrapyrroles by Photo-oxidation of 20-Substituted Chlorophylls and Their Properties (Ritsumeikan Univ.)

OKAMOTO, Yukihiro; TAMIAMI, Hitoshi

Chair: OGAWA, Takuji (15:50~16:40)

- \* 15:40-15:50: interval for laptop PC connection.(3G2-42, 3G2-43, 3G2-44, 3G2-45, 3G2-46)
- 3G2-42** Total Syntheses of Sterically Fixed(15*Za*)- and(15*Ea*)-Phycocyanobilin Derivatives Toward Investigation of the Relationship between Stereochemistry and Function of the Phytochrome Chromophore (Kanazawa Univ. Graduate School of Natural Science and Technology) NISHIYAMA, Kaori; KAMIYA, Ayumi; UKAJI, Yutaka; INOMATA, Katsuhiko
- 3G2-43** Oxidation of Pyrrole Compounds with Benzoquinones (Kanazawa Univ., Graduate School of Natural Science and Technology) IWAMOTO, Ryoji; SAKATA, Ryo; UKAJI, Yutaka; INOMATA, Katsuhiko
- 3G2-44**<sup>†</sup> A New method for the Synthesis of Locked *E-anti* Dipyrrole Compounds for the Investigation of the Stereochemistry and Function of Phytochrome Chromophores (Kanazawa Univ. Graduate School of Natural Science and Technology) CHEN, Liyi; UKAJI, Yutaka; INOMATA, Katsuhiko
- 3G2-45** Preparation and Properties of Low Viscous Triazolotriazine Based Ionic Liquids Containing Cyano Groups (Oita Univ.) YOSHIIWA, Naoki; KITAOKA, Satoshi; NOBUOKA, Kaoru; ISHIKAWA, Yuich
- 3G2-46** Low-Viscous Ionic Liquids Containing Electron-Withdrawing Groups (Oita Univ.; NIPPON SHOKUBAI CO.LTD) ARIMA, Tomomi; FUJITA, Takao; KITAOKA, Satoshi; NOBUOKA, Kaoru; MURATA, Kazuhiko; MIZUTA, Keiichiro; KASAHARA, Taisuke; ISHIKAWA, Yu-ichi

## Room G3

Bldg.17 17-303

### Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds

Friday, March 26, AM

Chair: NOMOTO, Akihiro (10:00~11:00)

- \* 9:50-10:00: interval for laptop PC connection.(1G3-07, 1G3-08, 1G3-09, 1G3-10, 1G3-11, 1G3-12)
- 1G3-07** Do <sup>125</sup>Te NMR Chemical Shifts of 9-(Aryltellanyl)anthracenes Serve as Standard for Planar Aryltellanyl Moieties? (Wakayama Univ.) NISHINO, Mitsuhiro; KONTANI, Takuya; DOI, Yurie; NAKAI, Takahito; HAYASHI, Satoko; NAKANISHI, Waro
- 1G3-08** Extended Hypervalent C<sub>2</sub>S<sub>2</sub>O 5c-6e Interactions Elucidated by High-resolution Determination of Electron Densities and AIM Dual Parameter Analysis (Fac. of Systems Engineering, Wakayama Univ.) HAYASHI, Satoko; KATSURA, Yoshifumi; NAKANISHI, Waro; HUTH, Susanne; HURSTHOUSE, Mike B.
- 1G3-09**<sup>†</sup> Synthesis, Structure and Reactivity of Organotellurium Trihalides Bearing a Bulky Substituent. (Institute for Chemical Research, Kyoto Univ.) SUGAMATA, Koh; SASAMORI, Takahiro; TOKITOH, Norihiro
- 1G3-10** Synthesis and Structure of Organotellurium Salts Having Dialkylaminoaryl Groups (Dept. Chem., Sch. Sci., Kitasato Univ.) YAMASHITA, Masataka; MINOURA, Mao; ISHII, Hana; YAMAMOTO, Gaku; MAZAKI, Yasuhiro
- 1G3-11** Study on the Functionalization of Hexaphenyltellurium (VI) (Dept. Chem., Sch. Sci., Kitasato Univ.) WADA, Hiroo; MINOURA, Mao; MAZAKI, Yasuhiro
- 1G3-12** New Synthetic Method of 3,3'-Disubstituted-2,2'-dihaloaryls and Synthesis of Tellurium Compounds by Using Their Biaryls (Tokyo Metropolitan Univ.) MIZUKAMI, Mayumi; HARA, Minako; HIRABAYASHI, Kazunori; SHIMIZU, Toshio; SATO, Soichi

Chair: MAEDA, Hajime (11:10~12:10)

- \* 11:00-11:10: interval for laptop PC connection.(1G3-14, 1G3-15, 1G3-17, 1G3-18, 1G3-19)
- 1G3-14** Synthesis and Reactivities of Crown Compounds with Three Different Chalcogen Atoms (Tokyo Metropolitan Univ.) NIINO, Makoto; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 1G3-15**<sup>\*†</sup> Intermolecular Cyclization of *o*-Alkynyl Aryl Isocyanides with Introduction of Group 16 Heteroatoms (Graduate School of Engineering, Osaka Pref. Univ.) MITAMURA, Takenori; OGAWA, Akiya
- 1G3-17** Palladium-Catalyzed Doublehydrothiolation of Terminal Aliphatic Acetylenes with Thiols (Faculty of Engineering, Osaka Pref. Univ.) DAITOU, Masayuki; MITAMURA, Takenori; OGAWA, Akiya
- 1G3-18** Palladium-Catalyzed or Photo-Induced Intramolecular Tellurocarbamoylation of Allenes (Osaka Dental Univ.; Graduate School of Engineering, Osaka Univ.) FUJIWARA, Shin-ichi; NAGAI, Hiroyuki; KAMBE, Nobuaki
- 1G3-19** Oxidation Reactions of Multi-substituted Phenylselenobenzenes (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) KANATOMI, Yoshihiko; SAITO, Masaichi

Friday, March 26, PM

Chair: HIRABAYASHI, Kazunori (13:40~14:40)

- \* 13:30-13:40: interval for laptop PC connection.(1G3-29, 1G3-31, 1G3-32, 1G3-33, 1G3-34)
- 1G3-29**<sup>\*</sup> Synthesis of water-soluble selenides with glutathione peroxidase-like catalytic activity (Tokai Univ.) KUMAKURA, Fumio; IWAOKA, Michio
- 1G3-31** Electrochemical properties of the ferrocene derivatives bearing phenylthio or phenylseleno group introduced regioselectively. (Osaka Pref. Univ.) KUSANO, Hiroki; NOMOTO, Akihiro; OGAWA, Akiya
- 1G3-32** Structural properties of heteroatom-containing unsaturated compounds with different groups by highly regioselective introduction. (Osaka Pref. Univ.) OZAKI, Toshiya; NOMOTO, Akihiro; OGAWA, Akiya
- 1G3-33** Preparation and electrochemical property of porphyrin complexes coordinated with benzenedichalcogenol (Iwate Univ.) KIMURA, Takeshi; AMANO, Kaori; YAMAMOTO, Arata; NAMAUO, Toshiharu
- 1G3-34** Preparation and Structure of Tetrakis(diphenylthio)tetraazaporphyrinato ruthenium(II) bismethylpyridine (Iwate Univ.; Tohoku Univ.; Kyoto Univ.) KIMURA, Takeshi; IWAMA, Takashi; NAMAUO, Toshiharu; SUZUKI, Eiichi; FUKUDA, Takamitsu; KOBAYASHI, Nagao; SASAMORI, Takahiro; TOKITOH, Norihiro

Chair: TAJIMA, Tomoyuki (14:50~15:50)

- \* 14:40-14:50: interval for laptop PC connection.(1G3-36, 1G3-37, 1G3-38, 1G3-39, 1G3-40, 1G3-41)
- 1G3-36** transition-metal-catalyzed hydroselenation directed to the synthesis of alkenes substituted by heteroatom groups (Osaka Pref. Univ.) KOTANI, Mao; KAWAGUCHI, Shin-ichi; OGAWA, Akiya
- 1G3-37** Highly selective phosphinotelluration of unsaturated compounds using a diphosphine-ditelluride mixed system under visible light irradiation condition (Osaka Pref. Univ.) OHE, Takashi; KAWAGUCHI, Shin-ichi; OGAWA, Akiya
- 1G3-38** Selective synthesis of 2-iodoalkenes using hydrophosphine iodine binary system (Osaka Pref. Univ.) KAWAGUCHI, Shin-ichi; NOMOTO, Akihiro; OGAWA, Akiya
- 1G3-39** Oxidation Reaction for the [4+2] Cycloadducts of Selenoketones with Cyclopentadiene by MCPBA and Chloramine T (Kanazawa Univ.) KENMOCHI, Toshiaki; MAEDA, Hajime; SEGI, Masahito
- 1G3-40** Synthesis of Polyfunctionalized Compounds via Metallation of Terminal Alkynes Having a Phenylseleno Group (Kanazawa Univ.) SHINTAKU, Kazuki; MAEDA, Hajime; SEGI, Masahito
- 1G3-41** Lewis Acid Catalyzed Reactions of Propargyl Chalcogenides with Ethyl Glyoxylate and Transformations of the Cycloaddition Products (Tokyo Metropolitan Univ.) SHIBAGAKI, Kazuteru; HIRABAYASHI, Kazunori; SHIMIZU, Toshio

Chair: MINOURA, Mao (16:00~17:00)

- \* 15:50-16:00: interval for laptop PC connection.(1G3-43, 1G3-44, 1G3-45, 1G3-46, 1G3-47, 1G3-48)
- 1G3-43** Synthesis and Characterization of a Novel Poly(amidoamine) Dendrimer with Diphenyl Diselenide Core (Graduate School of Environmental Science, Okayama Univ.) YAMAGUCHI, Yukie; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka
- 1G3-44** Discrimination and reaction of phosphoroselenic acid esters derived from alcohols possessing a chiral carbon at remote carbon atoms. (Dept. Chem., Fac. Eng., Gifu Univ.) ITO, Hikaru; TAKENAKA, Toru; MURAI, Toshiaki
- 1G3-45** The synthesis of P-chiral ammonium phosphoro monofluorides by the reaction of phosphorothioic acid possessing binaphthyl group with fluoride ion (Dept. Chem., Fac. Eng., Gifu Univ.) YAMADA, Kyohei; TAKENAKA, Toru; MURAI, Toshiaki
- 1G3-46** Facile synthesis of selenocysteine derivatives by thieraction of serine derivatives with Woollins' reagent (Tokai Univ.) KOMATSU, Itsuki; MAKIYAMA, Akira; IWAOKA, Michio; YATAGAI, Masanobu
- 1G3-47** Synthesis of Selenoamides and Selenoimidates by Reaction of Lithium Enolates, Isoselenocyanates, and Acid Chlorides (Kanazawa Univ.) WATANABE, Tatsuya; MAEDA, Hajime; SEGI, Masahito
- 1G3-48** Synthesis of Optically Active Pentavalent Phosphorus Compounds Involving Sulfur or Selenium Atom from Chiral Prolinol (Kanazawa Univ.) SHIDO, Kazuya; MAEDA, Hajime; SEGI, Masahito

Saturday, March 27, AM

Chair: SUGIHARA, Yoshiaki (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2G3-01, 2G3-02, 2G3-03, 2G3-04, 2G3-05, 2G3-06)
- 2G3-01** Synthesis of novel chelating agents bearing dithiocarbamate moieties. (Osaka Pref. Univ.) TSUNEDA, Yoshimasa; OZAKI, Toshiya; NOMOTO, Akihiro; OGAWA, Akiya
- 2G3-02** Synthetic application of layered carbon fluoride (Osaka Pref. Univ.) INOUE, Satoshi; NOMOTO, Akihiro; SAITO, Michio; OGAWA, Akiya
- 2G3-03** Reductive carboxylation with carbon dioxide based on photoinduced reduction with samarium iodide and its application to cyclization. (Osaka

- Pref. Univ.) NOMOTO, Akihiro; SHIINO, Go; OGAWA, Akiya  
**2G3-04** Synthesis and Application of Thiochromone S,S-Dioxides as a Photolabile Protecting Group for Ketones and Aldehydes. (Graduate School of Materials Science, Nara Institute of Science and Technology) KOZAKI, Rikio; KITANI, Satoru; YANAGISAWA, Yuuki; TSUTSUMI, Ken; MORIMOTO, Tsumoru; KAKIUCHI, Kiyomi  
**2G3-05** Synthesis of 3,1-benzothiazine derivatives by thionation of 2-alkynylamides (Fac. Sci., Fukuoka Univ.) OZAKI, Saori; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro  
**2G3-06** Oxidation of Disulfides with Selectfluor (Shizuoka Inst. Sci. & Tech.) NAITO, Sayuri; ISHIZUKA, Yuki; HANAI, Honoka; NOGUCHI, Takuya; KIRIHARA, Masayuki

Chair: SHIOJI, Kosei (10:10~11:00)

- \* 10:00-10:10: interval for laptop PC connection.(2G3-08, 2G3-10, 2G3-11, 2G3-12)  
**2G3-08\*** Solid-State Thiirration of Alkenes Using 3*H*-1,2-Benzodithiol-3-one 1,1-Dioxide and Silica Gel: Reaction Analysis by Instrumental Methods (Saitama Univ.; Kitasato Univ.) SUGIHARA, Yoshiaki; SAIKI, Aya; MIYASHITA, Yuji; SAKAMOTO, Akira; MINOURA, Mao  
**2G3-10** Pt(0) or Pd(0)-catalyzed C-S Bond Cleavage Reactions of 2-Hydroxybenzyl Sulfide Derivatives (Saitama Univ.) FURUKAWA, Noriyuki; NAKATA, Norio; ISHII, Akihiko  
**2G3-11** Syntheses of Cysteine Model Compounds by Utilizing a Dendrimer-type Molecular Cavity (Tokyo Institute of Technology) MISAKI, Tomoko; SASE, Shohei; GOTO, Kei  
**2G3-12** Synthesis of Bulky para-Phenylene Type di-Functional Compounds Based on an *s*-Hydridacene Skeleton (RIKEN ASI; Institute for Chemical Research, Kyoto Univ.) HACHIYA, Makoto; ITO, Mikinao; SHOJI, Yoshiaki; MATSUO, Tsukasa; TAMAO, Kohei; LI, Yongming; TSUJI, Hayato

Chair: MURAI, Toshiaki (11:10~12:10)

- \* 11:00-11:10: interval for laptop PC connection.(2G3-14, 2G3-17)  
**2G3-14** CSJ Award for Young Chemists Creation of Novel  $\pi$ -Electron Systems of Heavier Main Group Elements in Pursuit of Novel Function and Properties (Inst. Chem. Res., Kyoto Univ.) SASAMORI, Takahiro  
**2G3-17** Young Scholar Lectures of CSJ Control of the properties induced by photoirradiation based on the interactions between main group elements (Grad. Sch. Sci., The Univ. of Tokyo) KANO, Naokazu

### Saturday, March 27, PM

Chair: FUJII, Takayoshi (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** Synthesis and properties of  $\pi$ -extended benzothiophene-condensed dithiin derivatives (Faculty of Engineering, Iwate Univ.) OGAWA, Satoshi; WATANABE, Daichi; YAMAMOTO, Tatsuya; MURAOKA, Hiroki; SHIMADA, Kazuaki  
**2G3-35** Synthesis and properties of  $\pi$ -extended distyrylthiophene derivatives (Faculty of Engineering, Iwate Univ.) OGAWA, Satoshi; ITO, Hiroki; MURAOKA, Hiroki; SHIMADA, Kazuaki  
**2G3-36<sup>†</sup>** Synthesis and OFET properties of cyclic tetrathiophenes derivatives having antiaromatic 8- $\pi$  electron system (Tokyo Metropolitan Univ.) OHMAE, Takeshi; NISHINAGA, Tohru; TAKASE, Masayoshi; IYODA, Masahiko; KOBAYASHI, Norihito; KUNUGI, Yoshihito  
**2G3-37** Properties of Thiophene-Pyrrole-cooligomer End-capped with Phenyl and Perfluorophenyl Substituents (Tokyo Metropolitan Univ.) MIYATA, Toshihiko; NISHINAGA, Tohru; TAKASE, Masayoshi; IYODA, Masahiko; KOBAYASHI, Hiroyuki; KOBAYASHI, Hiroyuki  
**2G3-38** The structure and the properties of bis(imidazo[1,5-a]pyridyl)sulfide and their oxides (Gifu Univ.) KANAI, Takafumi; YAMAGUCHI, Eiji; SHIBAHARA, Fumitoshi; MURAI, Toshiaki  
**2G3-39** Introduction of the thionated ester substituents to imidazo[1,5-a]pyridines and their photophysical properties (Dept. Chem., Fac. Eng., Gifu Univ.) ONDA, Ichirota; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

Chair: TAKASE, Masayoshi (15:40~16:30)

- \* 15:30-15:40: interval for laptop PC connection.(2G3-41, 2G3-42, 2G3-43, 2G3-44, 2G3-45)  
**2G3-41** A New Approach to Bis-heterocycles via Coupling and Double Cyclization Cascade (Grad. Sch. Eng., Kyoto Univ.) MURATA, Takahiko; MURAI, Masahito; MIKI, Koji; OHE, Kouichi  
**2G3-42** Synthesis and fluorescence property of 3-methylene-2,3-dihydrothiophene derivative (Saitama Univ.) YAMAGUCHI, Yuki; NAKATA, Norio; ISHII, Akihiko  
**2G3-43** Synthesis, structure, and characterization of 1,1'-bis(arylorigothienyl) ferrocene compounds (Fac. Eng., Iwate Univ.) MURAOKA, Hiroki; KOBAYASHI, Haruka; OGAWA, Satoshi  
**2G3-44** The Study of Modification of Alumina Gate Insulators by Self-assembled Monolayers (Fac. Eng., Iwate Univ.) OGAWA, Satoshi; FUJITA, Yuki; YAMAMOTO, Tatsuya; MURAOKA, Hiroki; SHIMADA, Kazuaki  
**2G3-45** Construction of linked ethynylthienylbenzene systems (Graduate

School of Science, Tohoku Univ.) KATSUTA, Hiroshi; TSUJI, Yasutomo; YAMAMOTO, Takuya; TOYOTA, Kozi; IWAMOTO, Takaaki; MORITA, Noboru

### Sunday, March 28, AM

Chair: NISHINAGA, Tohru (9:00~9:50)

- \* 8:50-9:00: interval for laptop PC connection.(3G3-01, 3G3-02, 3G3-03, 3G3-04, 3G3-05)  
**3G3-01** Syntheses and Luminescence Properties of Heteroleptic Platinum(II) Complexes with Sulfanenitrile and Diimine Ligands (Coll. Ind. Tech., Nihon Univ.) OGURA, Shinpei; SEKIYAMA, Kotaro; FUJII, Takayoshi  
**3G3-02** Synthesis and Luminescence Properties of Heteroleptic Platinum(II) Complexes with Disulfanenitrile and Diimine Ligands (Coll. Ind. Tech., Nihon Univ.) HONDA, Hiroya; FUJII, Takayoshi  
**3G3-03** Syntheses and Luminescence Properties of Homo- and Hetero-leptic Palladium(II) Complexes with Disulfanenitrile and Diimine Ligands (Coll. Ind. Tech., Nihon Univ.) SAKAGAMI, Michiyasu; FUJII, Takayoshi  
**3G3-04** Synthesis and Properties of Hexasubstituted Benzodithiophene Derivatives: Application to Unique White Organic Light Emitting Diodes. (Fac. of Systems Engineering, Wakayama Univ.) HINATSU, Masako; OSUGA, Hideji; NISIDE, Yosuke; UZAWA, Hidetosi; AKIMOTO, Ikuko; KAN'NO, Ken-ichi; SAKAMOTO, Hidefumi  
**3G3-05** Synthesis, structures, and thermal isomerization of partially unsaturated thiacyclic ethers with hydroxyl group (Tokyo Metropolitan Univ.) KUWAHARA, Junryo; KOMATSUZAKI, Satoru; HIRABAYASHI, Kazunori; SHIMIZU, Toshio

Chair: YAMASHITA, Makoto (10:00~11:00)

- \* 9:50-10:00: interval for laptop PC connection.(3G3-07, 3G3-08, 3G3-09, 3G3-11, 3G3-12)  
**3G3-07** Synthesis and Optical Properties of the Sugar-substituents Fluorescent Azobenzenes (The Univ. of Tokyo) ITOI, Hiroaki; KANO, Naokazu; KAWASHIMA, Takayuki  
**3G3-08** Quantum Chemical Study of Lewis Acidity of Lewis Acid Coordinated Oxazaborolidine (Hoshi Univ.) SAKATA, Ken  
**3G3-09\*** Selective Ion-pair Sensing Utilizing the Pyridylquinoline Bearing a Boryl Group (The Univ. of Tokyo) MIYASAKA, Shinji; KOBAYASHI, Junji; KAWASHIMA, Takayuki  
**3G3-11** Synthesis and luminescent characteristics of boron complexes of aromatics having bidentate nitrogen ligands (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) KAJIMARU, Atsuko; SAKAMOTO, Satoshi; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi  
**3G3-12** Synthesis and reduction of a haloborane bearing a bulky pyrrole substituent (Institute for Chemical Research, Kyoto Univ.) SHIMIZU, Tomohiro; MIZUHATA, Yoshiyuki; TOKITOU, Norihito

Chair: KANO, Naokazu (11:10~12:00)

- \* 11:00-11:10: interval for laptop PC connection.(3G3-14, 3G3-16, 3G3-17, 3G3-18)  
**3G3-14\*** Synthesis and Reactivity of Novel Diboron Compounds Protected by Bulky Rind Group (RIKEN Advanced Science Institute) SHOJI, Yoshiaki; MATSUO, Tsukasa; HASHIZUME, Daisuke; FUENO, Hiroyuki; TANAKA, Kazuyoshi; TAMAO, Kohei  
**3G3-16** Reaction of Benzoyborane with A Nucleophile: Bora-Brook Rearrangement (The Univ. of Tokyo, Graduate School of Engineering) SAKAINO, Hirotohi; YAMASHITA, Makoto; NOZAKI, Kyoko  
**3G3-17** Investigation on the Synthesis of Boron Compounds Having Pincer Ligands (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) MATSUMOTO, Kaori; SAITO, Masaichi  
**3G3-18<sup>†</sup>** Synthesis of Hypervalent Pentacoordinate Boron Compounds Bearing Two Pyrimidine Rings (Hiroshima Univ.) HIRANO, Yuichi; YAMAMOTO, Yohsuke

### Sunday, March 28, PM

Chair: MIRAOKA, Horoki (13:10~14:00)

- \* 13:00-13:10: interval for laptop PC connection.(3G3-26, 3G3-27, 3G3-28, 3G3-29, 3G3-30)  
**3G3-26** Development of Metal-containing Fused Polycyclic Compounds (RIKEN) INOUE, Satoru; FURUYAMA, Taniyuki; YOSHIDA, Kengo; MURANAKA, Atsuya; UCHIYAMA, Masanobu  
**3G3-27** Spectral and Theoretical Studies of Higher Heteropins (RIKEN; The Univ. of Tokyo) FURUYAMA, Taniyuki; YOSHIDA, Kengo; INOUE, Satoru; MURANAKA, Atsuya; UCHIYAMA, Masanobu  
**3G3-28** Synthesis and Properties of Fused Polycyclic Dimers Consisting of Heteroleptic Benzoheteroles (RIKEN ASI; Fac. Pharm. Sci., Hokuriku Univ.; Org. Frontier, Hokuriku Univ.) YOSHIDA, Kengo; MURANAKA, Atsuya; UCHIYAMA, Masanobu; KURIHARA, Rina; YASUIKE, Shuji; KURITA, Jyoji  
**3G3-29** Synthesis of Hypervalent Pentacoordinate Nitrogen Radical Cation-sUsing Ester Tridentate Ligands (Graduate School of Science, Hiroshima Univ.) NAKATSUJI, Jun-ya; YAMAMOTO, Yohsuke  
**3G3-30** Attempted Synthesis of Triplet Carbenes by Two-electron Oxidation

of Allene Compounds Bearing Acridene Skeletons (Graduate School of Science, Hiroshima Univ.) FUKU-EN, Shin-ichi; YANO, Tomoyuki; YAMAGUCHI, Torahiko; YAMAMOTO, Yohsuke

Chair: SHIBAHARA, Fumitoshi (14 : 10~15 : 00)

- \* 14:00-14:10: interval for laptop PC connection.(3G3-32, 3G3-33, 3G3-34, 3G3-35, 3G3-36)
- 3G3-32** Synthesis of 4,4-disubstituted dihydropyridines by addition reaction of amidines and alkylidene  $\beta$ -ketoesters (Yasuda Women's Univ., Faculty of Pharmacy) NISHIMURA, Yoshio; OYAMA, Yoshihiko
- 3G3-33** Direct and Regioselective Acylation of *N*-Tosylhydrazide (Hokkaido Univ.; Tokushima Bunri Univ.) SHOJI, Isamu; NAMBA, Kosuke; NISHIZAWA, Mugio; TANINO, Keiji
- 3G3-34** Optimization of conditions for synthesis of epoxides bearing ester group via oxidation of acrylate (Yamagata Univ.) HIRANO, Taiki
- 3G3-35** Heterogeneous palladium catalyzed carbonylation of allyl compounds (Dept. of Chemistry, Kyushu Univ.) NORIO, Takafumi; HAMASAKI, Akiyuki; LIU, Xiao hao; TOKUNAGA, Makoto
- 3G3-36** Synthesis and Characterization of Multi-Ferrocenyl Derivative Bridged by Oligophenylene spacer (Fac. Eng., Iwate Univ.) MURAOKA, Hiroki; OZAWA, Kouhei; OGAWA, Satoshi

Chair: OGASAWARA, Masamichi (15 : 10~16 : 00)

- \* 15:00-15:10: interval for laptop PC connection.(3G3-38, 3G3-39, 3G3-41, 3G3-42)
- 3G3-38** Application of Palladium(II) Complex with N-S-N Bridged Phosphine Sulfide Ligand to Heck Reaction (Coll. Ind. Tech., Nihon Univ.) HARA, Yuta; FUJII, Takayoshi
- 3G3-39\*** Synthesis and Properties of Novel Monoanionic Bidentate Ligands Bearing (a) Low-coordinated Phosphorus Atom(s) (Institute for Chemical Research, Kyoto Univ.) MATSUMOTO, Teruyuki; SASAMORI, Takahiro; TOKITOH, Norihiro
- 3G3-41** Synthesis and reactivity of *cis*-hydrido(selenolato) Pt(II) complex having triphenyl phosphite ligands. (Saitama Univ.) KAMON, Hitomi; NAKATA, Norio; ISHII, Akihiro
- 3G3-42** Solid-state luminescence behavior of platinum complexes with cyclic-organoarsenic ligand. (Kyoto Univ.; Kyoto Institute of Technology) KATO, Takuji; NAKA, Kensuke; ARITA, Manabu; MORISAKI, Yasuhiro; CHUJO, Yoshiki

Chair: SASAMORI, Takahiro (16 : 10~17 : 10)

- \* 16:00-16:10: interval for laptop PC connection.(3G3-44, 3G3-45, 3G3-46, 3G3-47, 3G3-48)
- 3G3-44** Synthetic Application of  $\beta$ -Ketophosphonates to Natural Products (Kinki Univ.) OKADA, Yoshiharu; YONEYA, Kei-ichiro; HAJIMORI, Hideyuki; YANAGITANI, Yukihiko; KURIHARA, Satoshi; NOMURA, Masato
- 3G3-45** A New Method for the Synthesis of Isocyanides from Formamides with Chlorophosphate Compounds (Tokyo Univ. of Agric. and Technol.) KOBAYASHI, Genki; SAITOU, Tateo; KITANO, Yoshikazu
- 3G3-46** Synthesis and application of helically chiral phosphines with conjugated diene-skeleton (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Educ.) OGASAWARA, Masamichi; ICHIO, Hiroaki; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 3G3-47** Substituent Effect on Antimony in the Organostibine-Mediated Controlled/Living Radical Polymerization (Institute for Chemical Research, Kyoto Univ.) KONDO, Noriaki; KAYAHARA, Eiichi; YAMAGO, Shigeru
- 3G3-48\*** Theoretical Studies of Heteroatomic Effect on Homolytic Substitution Reaction of Group 15, 16 and 17 Diheteroatom Compounds with Carbon-Centered Radicals (Institute for Chemical Research, Kyoto Univ.) KAYAHARA, Eiichi; YAMAGO, Shigeru; LUNG WA, Chung; MOROKUMA, Keiji

## Monday, March 29, AM

Chair: KAWACHI, Atsushi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4G3-01, 4G3-02, 4G3-03, 4G3-04, 4G3-05, 4G3-06)
- 4G3-01** Iron-Catalyzed Hydrophosphination of Alkynes (Hiroshima Univ.) OOSAWA, Keisuke; SAKAE, Ryosuke; KOMEYAMA, Kimihiro; TAKAKI, Ken
- 4G3-02\*** Stereospecific conversion of P(O)H compounds to P(O)Cl compounds by CuCl<sub>2</sub> (AIST) ZHOU, Yongbo; WANG, Gang; HAN, Li-biao
- 4G3-03** Synthetic Application of Functionalized Methylphosphonates (3) (Kinki Univ.) OKADA, Yoshiharu; MARUYAMA, Tomohiro; KAMEOKA, Hirohito; NOMURA, Masato
- 4G3-04** Reactivity of heteroatom-metal exchange reaction on heavier group 15 compounds (Institute for Chemical Research, Kyoto Univ.) YAMADA, Hiroto; KAYAHARA, Eiichi; YAMAGO, Shigeru
- 4G3-05** Synthesis of the First Stable 1,2-Bis(ferrocenyl)diphosphene Based on the Design of a Bulky Ferrocenyl Group (Institute for Chemical Research, Kyoto Univ.) NIWA, Masatoshi; SASAMORI, Takahiro; TOKITOH, Norihiro
- 4G3-06** Synthesis of the First Stable Ferrocenylphosphastibene Derivative Bearing a Bulky Ferrocenyl Group (Institute for Chemical Research, Kyoto

Univ.) NIWA, Masatoshi; SASAMORI, Takahiro; TOKITOH, Norihiro

Chair: FUKAZAWA, Aiko (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4G3-08, 4G3-09, 4G3-10, 4G3-11, 4G3-12, 4G3-13)
- 4G3-08** The effect of conformational isomerism on the structure and reactivity of a hexacoordinated dihydrophosphate (The Univ. of Tokyo) MIYAKE, Hideaki; KANO, Naokazu; KAWASHIMA, Takayuki
- 4G3-09** Synthetic Study on Pentacoordinate Silicon Compounds Intramolecularly Coordinated by Two Phosphonium Ylides (Graduate School of Science, Hiroshima Univ.) KAWACHI, Atsushi; ISHIBE, Toru; YAMAMOTO, Yohsuke
- 4G3-10** Preparation and Reactions of Cyclic Phosphonium Salts with Phospholene Skeleton by the Cycloaddition Reaction of Phosphonium Salts with 1,3-Conjugated Dienes (Chubu Univ.) HONG, Hua; ANDO, Fumio; KOKETSU, Jugo
- 4G3-11** Synthesis of 1-Phospha-1,3-butadienes and their [4+2] Cycloaddition Reactions (Osaka City Univ.) MINAMI, Tatsuya; IDA, Mika; OKAMOTO, Hiroki; HATANAKA, Yasuo
- 4G3-12** Unusual Anion Formation of 1,3-Diphosphacyclobutane-2,4-diyol Promoted by a Hydride Reagent (Tokyo Institute of Technology, Tohoku Univ., Univ. of Alabama) MIURA, Joji; MORITA, Noboru; ITO, Shigekazu; YOSHIHUI, Masaaki; ARDUENGO, Anthony J.
- 4G3-13** Synthesis and Properties of Novel  $\pi$ -Conjugated Compounds Containing Pyrrole and Phosphole (Department of Molecular Engineering, Graduate School of Engineering, Kyoto Univ.) SAITO, Arihiro; FUJITA, Masato; MATANO, Yoshihiro; IMAHORI, Hiroshi

Chair: MATANO, Yoshihiro (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4G3-15, 4G3-16, 4G3-17, 4G3-18, 4G3-19, 4G3-20)
- 4G3-15** Synthesis of Naphthopyrene Derivatives Having Curved  $\pi$ -conjugated Systems (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) OBA, Tsuyoshi; HASHIMOTO, Sigma; HATAKEYAMA, Takuji; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 4G3-16** Synthesis of Curved  $\pi$ -conjugated Molecules Having Multiple Phosphorus Atoms (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) HASHIMOTO, Sigma; HATAKEYAMA, Takuji; NAKAMURA, Masaharu
- 4G3-17** Syntheses and properties of 2-phosphanaphthalenes (Fac. Sci., Fukuoka Univ.) NAGAHORA, Noriyoshi; WASANO, Tatsuya; SHIOJI, Kosei; OKUMA, Kentaro
- 4G3-18** Synthetic Studies on Naphthyl-substituted Diphosphene Derivative Bearing a Boron Atom at the 8-Position of the Naphthyl Ring (Institute for Chemical Research, Kyoto Univ.) TSURUSAKI, Akihiro; SASAMORI, Takahiro; TOKITOH, Norihiro
- 4G3-19** Substituent Effects on the Intramolecular Double Cyclization of Phosphanyl-Boryl-Substituted Diphenylacetylenes (Nagoya Univ.) YAMAGUCHI, Eriko; ITO, Emi; YAMADA, Hiroshi; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro
- 4G3-20** Synthesis and properties of extended  $\pi$ -electron systems containing of phosphonium, borate-bridged dithienylethene (Graduate School of Science, Nagoya Univ.) NEKOHASHI, Yuki; YAMADA, Hiroshi; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro

**Room G4**  
Bldg.17 17-304

## Polymer

Friday, March 26, PM

### Polymer Synthesis (Polymer Function)

Chair: OHSHITA, Joji (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(1G4-25, 1G4-27, 1G4-28, 1G4-29, 1G4-30)
- 1G4-25\*** Synthesis of optically active polymers with riboflavin residues as the main- and side-chains and their function (Graduate School of Engineering, Nagoya Univ.) IIDA, Hiroki; MIZOGUCHI, Tomohisa; OH, Seong-dae; YASHIMA, Eiji
- 1G4-27** Synthesis and Reaction of Thermoresponsive Polysilsesquioxane Having Methoxyethylmethylamide and Mercapto Groups (National Defense Academy; Lintec Co. Ltd) MINAMI, Fukutaro; YAMAMOTO, Shin-ichi; MORIYA, Osamu; KASHIO, Mikihiko; SUGIZAKI, Toshio
- 1G4-28** Controlled Polysulfide by the Insertion Reaction of Thiirane into Thiourethane. (Kanagawa Univ.) SATO, Kenichiro; KUDO, Hiroto; NISHIKUBO, Tadatoshi
- 1G4-29** Supramolecular Polymers Formed by Molecular-Recognition-Directed Self-assembly of Bisporphyrin Derivatives(1) (Grad. Sc. Sci., Hiroshima



Univ.) WATANABE, Akihide; FUJII, Takashi; TAKAYANAGI, Urara; HAINO, Takeharu

**1G4-30** Supramolecular Polymers Formed by Molecular-Recognition-Directed Self-assembly of Bisporphyrin Derivatives(2) (Grad. Sc. Sci., Hiroshima Univ.) WATANABE, Akihide; FUJII, Takashi; TAKAYANAGI, Urara; HAINO, Takeharu

### Polymer Reaction

Chair: IIDA, Hiroki (14:10~15:00)

\* 14:00-14:10: interval for laptop PC connection.(1G4-32, 1G4-33, 1G4-34, 1G4-35)

**1G4-32** Click cross-linking exploiting stable ditopic nitrile N-oxide (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) YONEKAWA, Morio; LEE, Young-gi; KOYAMA, Yasuhito; TAKATA, Toshikazu

**1G4-33** Synthesis and application of novel ambident reagent directed toward catalyst-free cross-linking reaction. (Dept. of Organic and Polymeric Materials, Tokyo Inst. of Tech.) MIURA, Kaori; KOYAMA, Yasuhito; REE, Young-gi; TAKATA, Toshikazu

**1G4-34** Solubilization and Attachment of Single Walled Carbon Nanotube on Inorganic Oxide Surface (Graduate School of Engineering, Hiroshima Univ.) TANAKA, Daiki; MATSUKAWA, Junya; MIZUMO, Tomonobu; OHSHITA, Joji; KUNUGI, Yoshihito

**1G4-35\*** Synthesis of Novel pi-Conjugated Polymers Containing 1,4-Bis(mercapt)-1,3-butadiene 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

### Polymer Structure and Physical Properties

Chair: ADACHI, Kaoru (15:10~16:00)

\* 15:00-15:10: interval for laptop PC connection.(1G4-38, 1G4-39, 1G4-40, 1G4-41, 1G4-42)

**1G4-38** Phenylazomethine Dendrimer with a nano-space has selectivity of Size and Shape (Keio Univ.) YAMASHITA, Tetsuro; IMAOKA, Takane; YAMAMOTO, Kimihisa

**1G4-39** Construction of pi-conjugated polymer thin film in a stepwise manner based on Schiff base chemistry (Grad. Schl. Sci. Tech., Kumamoto Univ.) FUNAMOTO, Souta; UEMURA, Shinobu; KUNITAKE, Masashi

**1G4-40** Photoinduced electron transfer in phenylazomethine dendrimer having potential gradient (Keio. Univ.) KOBAYASHI, Hiroki; IMAOKA, Takane; YAMAMOTO, Kimihisa

**1G4-41** Synthesis of Novel Polypyridine Bearing Blue Light-Emitting Properties (Department of Material and Life Chemistry, Kanagawa Univ.) NANASHIMA, Yutaka; YOKOYAMA, Akihiro; YOKOZAWA, Tsutomu

**1G4-42** Observation of buried interfaces in mixture film of P3HT and PCBM by I-VSFG (Nagoya Univ.) MIYAZAKI, Takahiro; IWAHASHI, Takashi; KANAI, Kaname; OUCHI, Yukio

Chair: YOKOZAWA, Tsutomu (16:10~16:50)

\* 16:00-16:10: interval for laptop PC connection.(1G4-44, 1G4-45, 1G4-46)

**1G4-44** Effect of fullerene on gas permeability of thermoplastic polyurethane elastomer (Toyo Univ.) DOBASHI, Ryouhei; TAJIMA, Masahiro; MATSUNAGA, Katsuji

**1G4-45** Synthesis of Trisubstituted Nitroxide Radical Derivatives and Supramolecular with Urea-binding Compounds via Hydrogen Bonding (Dept. Appl. Chem., Waseda Univ.) MATSUSAKI, Ren; NAKAJIMA, Satoshi; NISHIDE, Hiroyuki

**1G4-46\*** Supramolecular Nitroxide Radical Polymers via Hydrogen Bonding (Dept. Appl. Chem., Waseda Univ.) NAKAJIMA, Satoshi; MINATOZAKI, Masayuki; KATO, Eisuke; MATSUSAKI, Ren; NISHIDE, Hiroyuki

### Saturday, March 27, AM

#### Polymer Synthesis (Radical)

Chair: NAKANO, Koji (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(2G4-01, 2G4-02, 2G4-03, 2G4-04, 2G4-05, 2G4-06)

**2G4-01** Studies of the living radical polymerization using phthalimidomethyl telluride and the synthesis of amino end-functional polymer (Kyoto Univ.) HORIE, Keita; NAKAMURA, Yasuyuki; YAMAGO, Shigeru

**2G4-02** Synthesis of Concentrated Polystyrene Brushes via Organotellurium mediated Controlled/Radical Polymerization (ICR, Kyoto Univ.) KONISHI, Shota; KAYAHARA, Eiichi; YAMAGO, Shigeru; NOMURA, Akihiro; GOTO, Atsushi; TSUJII, Yoshinobu

**2G4-03** Radical Polymerization of Vinyl Phosphorus Compounds (National Institute of Advanced Industrial Science and Technology) LIU, Runtao; HAN, Li-biao

**2G4-04** Helix-sense-selective polymerization of phenylacetylenes using one-handed helical polyphenylacetylenes as a cocatalyst (Graduate School of Science and Technology, Niigata Univ.) ONO, Masaki; TERAGUCHI,

Masahiro; MARWANTA, Edy; NAMIKOSHI, Takeshi; KANEKO, Takashi; AOKI, Toshiki

**2G4-05** ROMP of norbornene derivatives having molecular recognition unit (Tokyo Univ. of Agriculture and Technology) FUJITA, Hiroyuki; OISHI, Tetsuya; XUE, Boyong; TOYOTA, Akinori; AKIYAMA, Saburo; WATANABE, Toshiyuki

**2G4-06** Ionic-liquid-catalyzed polymerization of L-lactide. (Dept. Mat. Life Sci., Sophia Univ.) MURAKAMI, Hidefumi; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

### Polymer Synthesis (Polymerization Catalyst)

Chair: TERAGUCHI, Masahiro (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(2G4-08, 2G4-09, 2G4-10, 2G4-12, 2G4-13)

**2G4-08** Copolymerization of propylene and alkenyloxymonomer using ansa-fluorenylamidodimethyltitanium complex (Dept. Appl. Chem., Grad. Sch. Eng., Hiroshima Univ.) MURAKI, Hisao; CAI, Zhengguo; NAKAYAMA, Yuushou; SHIONO, Takeshi

**2G4-09** Ethylene polymerization with *ansa*-fluorenylamidodimethyltitanium complex (Fac. Eng., Hiroshima Univ.) KUBO, Sousuke; CAI, Zhengguo; NAKAYAMA, Yuushou; SHIONO, Takeshi

**2G4-10\*** Solvent-Dependent Dynamic Control of Helical Chirality of Poly(quinoxaline-2,3-diyl)s Bearing Chiral side Chains: Efficient Induction of Right and Left-Handed Helices by Solvent Effect (Kyoto Univ.) YAMADA, Tetsuya; NAGATA, Yuuya; SUGINOME, Michinori

**2G4-12** Synthesis and properties of poly(quinoxaline-2,3-diyl)s bearing ionic liquid moiety (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; SUGINOME, Michinori

**2G4-13** Synthesis of Oligo(quinoline-2,3-diyl)s via Iterative C-H Activation by Ruthenium Catalysts (Kyoto Univ.) HIDAKA, Kousuke; NAGATA, Yuuya; SUGINOME, Michinori

Chair: NAGATA, Yuuya (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(2G4-15, 2G4-16, 2G4-17, 2G4-18, 2G4-19)

**2G4-15<sup>#</sup>** Copolymerization of non-conjugated dienes with styrene and ethylene by cationic half-sandwich aminobenzyl scandium complexes (RIKEN) GUO, Fang; NISHIURA, Masayoshi; HOU, Zhaomin

**2G4-16<sup>#</sup>** Syndiospecific Block Copolymerization of Styrene with Isoprene and Caprolactone by Cationic Half-Sandwich Scandium Alkyls (RIKEN) PAN, Li; ZHANG, Kunyu; NISHIURA, Masayoshi; HOU, Zhaomin

**2G4-17** Development of High Speed Living Coordination Polymerization of Allene Derivatives by Molecular Design of Nickel Catalysts (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) SHONO, Takamichi; TOMITA, Ikuyoshi

**2G4-18** Synthesis of *ansa*-(fluorenylcyclododecylamido)dimethyltitanium complex and olefin polymerization catalysis (Fac. Eng., Hiroshima Univ.) SOGO, Yuuichi; CAI, Zhengguo; NAKAYAMA, Yuusyou; SHIONO, Takeshi

**2G4-19\*** Di(ketoimino)cobalt Complex-Catalyzed Completely Alternating Copolymerization of Ethylene Oxide and Carbon Dioxide (Keio Univ.; Univ. of Tokyo) OKADA, Atsushi; KIKUCHI, Satoshi; NAKANO, Koji; NISHIOKA, Kiyoshi; NOZAKI, Kyoko; YAMADA, Tohru

### Saturday, March 27, PM

#### Polymer Synthesis (Polymerization Catalyst)

Chair: SHIONO, Takeshi (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(2G4-28, 2G4-31, 2G4-32, 2G4-33)

**2G4-28** Young Scholar Lectures of CSJ Novel Polymer Synthesis by Late Transition Metal Complex Catalysts (Chem. Res. Lab., Tokyo Tech) TAKEUCHI, Daisuke

**2G4-31** Ring-Opening Metathesis Polymerization of Optically Active Doubly Functionalized Polar Norbornenes and Microstructure Analysis of the Synthesized Chiral Polymers (Graduate School of Natural Science and Technology, Okayama Univ.) NISHIHARA, Yasushi; DOI, Yukiko; IZAWA, Seisuke; LI, Hong-yi; INOUE, Yoshiaki; KOJIMA, Masaaki; CHEN, Jwu-ting; TAKAGI, Kentaro

**2G4-32** Synthesis and Structures of Nickel(II) Complexes Tethered by Nitrogen-Oxygen Bidentate Ligands (Graduate School of Natural Science and Technology, Okayama Univ.) NISHIHARA, Yasushi; OGAWA, Daisuke; TANEMURA, Kenki; NAKAJIMA, Kiyohiko; TAKAGI, Kentaro

**2G4-33** Living Coordination Polymerization of Allene Derivatives Having Fluoroalkyl Substituents and Its Application to Spontaneous Formation of Nanostructured Materials (Tokyo Institute of Technology Interdisciplinary Graduate School of Science and Engineering Department of Electronic Chemistry) MIZUNO, Yuki; TOMITA, Ikuyoshi

### Polymerization (Copolymers)

Chair: NAKA, Kensuke (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(2G4-35, 2G4-37, 2G4-38,

2G4-39, 2G4-40)

**2G4-35\*** Catalyst-Free Click Polymerization Using Kinetically Stabilized Dinitro Nitrile N-oxide. (Department of Organic and Polymeric Materials, Tokyo Institute of Technology.) LEE, Young-gi; KOYAMA, Yasuhiro; YONEKAWA, Morio; TAKATA, Toshikazu

**2G4-37** Synthesis of Block Copolymers by Using Tetraphenylethylene-Containing Polymers as Macroinitiator for Norbornene Polymerization and Their Application to Polymeric Electrolytes. (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) TSUKUDA, Hideki; TOMITA, Ikuyoshi

**2G4-38** Synthesis of topologically alternating block copolymers and a  $\gamma$ -graph polymer via click chemistry (Tokyo Tech) SUGAI, Naoto; YAMAMOTO, Takuya; TEZUKA, Yasuyuki

**2G4-39** Synthesis of Linearly-Arranged Multicyclic Polymers via Click Chemistry (Tokyo Tech) HEGURI, Hiroyuki; YAMAMOTO, Takuya; TEZUKA, Yasuyuki

**2G4-40** Construction of a thermostable micelle by a cyclized amphiphilic block copolymer (Tokyo Tech) HONDA, Satoshi; YAMAMOTO, Takuya; TEZUKA, Yasuyuki

Chair: SAKAI, Wataru (15 : 50~16 : 40)

\* 15:40-15:50: interval for laptop PC connection.(2G4-42, 2G4-43, 2G4-44, 2G4-45, 2G4-46)

**2G4-42** Synthesis and Chemical Properties of an Alternative Copolymer Containing Thiophene and Pyrimidine Units (Chemical Resources Laboratory, Tokyo Institute of Technology) FUKUMOTO, Hiroki; YAMAMOTO, Takakazu

**2G4-43** Macrostructural Order and Optical Properties of Polyfluorene Derivatives in the Film State (Tokyo Institute of Technology) HAYASHI, Shotaro; INAGI, Shinsuke; FUCHIGAMI, Toshio

**2G4-44<sup>T</sup>** Synthesis and Helical Folding of Poly(*N*-alkyl-*p*-benzamide)s Bearing Chiral Hydrophobic Side Chain (Department of Material and Life Chemistry, Kanagawa Univ.) MIKAMI, Koichiro; YOKOYAMA, Akihiro; YOKOZAWA, Tsutomu

**2G4-45** Synthesis of Amphiphilic 4-Arms Star Polymer (Univ. of Hyogo Graduate School of Engineering) ITO, Masanori; YUSA, Shin-ichi; MORISHIMA, Yotaro; KANEDA, Isamu

**2G4-46** Ring-expansion Polymerization of Styrene with Cyclic Alkoxyamine Initiator (Tokyo Univ. of Agriculture and Technology) TAMADA, Haruhisa; OIKE, Hideaki

Sunday, March 28, AM

## Polymer Synthesis (Ionic Polymerization)

Chair: NAGAI, Atsushi (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3G4-01, 3G4-02, 3G4-03, 3G4-04, 3G4-05, 3G4-06)

**3G4-01** Synthesis of telechelic poly(THF)s having various cyclic ammonium salt end groups and covalent fixation by ring-opening and by ring-eliminating reactions. (Tokyo Tech) KIMURA, Akihiro; YAMAMOTO, Takuya; TEZUKA, Yasuyuki; KAWAUCHI, Susumu

## Polymer Synthesis (Polycondensation, Polyaddition)

**3G4-02** Synthesis and Properties of Polycarbonate Derived from 9,9-Diarylfuorene Dimer as Monomer (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) HASEGAWA, Toshihide; KOYAMA, Yasuhiro; TAKATA, Toshikazu

**3G4-03** Synthesis and polymerization of hetero-aromatics hybridized cardo monomers and the properties of the resulting polymers (Dept. of Organic and Polymeric Materials, Tokyo Inst. of Tech.) OKUDA, Hitoshi; KOYAMA, Yasuhiro; TAKATA, Toshikazu

**3G4-04** Synthesis and properties of dibenzoyl naphthalene-containing polymers (Dept. of Organic and Polymeric Materials, Tokyo Inst. of Tech) YAMASHITA, Chika; NAKAZONO, Kazuko; TAKATA, Toshikazu

**3G4-05** Synthesis of Polymeric Electrolytes Based on Palladium-Catalyzed Coupling Polymerization of Thiophene Derivatives and Aryl Dihalides Using C-H Bonds as Polymerizable Functions. (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) KAWAMITSU, Shoichi; TOMITA, Ikuyoshi

**3G4-06** Construction of Helical Polycondensates from Sugar Diols (Tomakomai Natl. Coll. of Tech.; Hokkaido Univ.) ISONO, Takuya; MASUDA, Ryuhei; WASHIO, Tatsuya; KONO, Hiroyuki; SATOH, Toshifumi; KAKUCHI, Toyoji; HASHIMOTO, Hisaho

Chair: HASHIMOTO, Hisaho (10 : 10~11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(3G4-08, 3G4-10, 3G4-11)

**3G4-08\*** Synthesis and Properties of Polyethers Possessing 9,9'-Spirobifluorene Structure in the Main Chain (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) HAYASHI, Hideki; TAKATA, Toshikazu

**3G4-10** Syntheses of highly thermostable bio-based polymers from wholly aromatic acid with functional groups (Japan Advanced Institute of Science and Technology) KAN, Kai; KANEKO, Tatsuo

**3G4-11\*\*** Syntheses, Characterizations and Hyperbranching-Process Studies of Copolymers Based on Cinnamate Biopolymers (Japan Advanced Institute of Science And Technology) KANEKO, Tatsuo; WANG, Siqian; KANEKO, Daisaku

## Polymer Synthesis (Structure Control)

Chair: KANEKO, Tatsuo (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(3G4-14, 3G4-16, 3G4-18, 3G4-19)

**3G4-14\*** Synthesis of optically active polymers containing chiral phosphorus atoms in the main chain and structural control by coordination of transition metals (Grad. Sch. Eng., Kyoto Univ.) IMOTO, Hiroaki; MORISAKI, Yasuhiro; CHUJO, Yoshiki

**3G4-16\*** Synthesis and Property of Polyacetylenes bearing Pendent Rotaxane Moieties with Axially Asymmetric Wheels (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) ISHIWARI, Fumitaka; FUKASAWA, Keiichiro; SATO, Takashi; KOYAMA, Yasuhiro; NAKAZONO, Kazuko; TAKATA, Toshikazu

**3G4-18** Synthesis of Main Chain-type Polyrotaxanes Containing Crown Ethers as Wheel Components (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) ISHINO, Tomonori; NAKAZONO, Kazuko; KOYAMA, Yasuhiro; TAKATA, Toshikazu

**3G4-19** Synthesis and reaction of polyrotaxane-type palladium complex (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) KAWASAKI, Ayumi; MIYAGAWA, Norihito; KOYAMA, Yasuhiro; TAKATA, Toshikazu

Sunday, March 28, PM

## Polymer Synthesis (Structure Control)

Chair: KANEKO, Yoshiro (14 : 30~15 : 10)

\* 14:20-14:30: interval for laptop PC connection.(3G4-34, 3G4-36, 3G4-37)

**3G4-34\*** Synthesis and Self-Assembly Control of Well-Defined Polymers Containing Boron Dipyrromethene (BODIPY) Dyes (Grad. Sch. Eng., Kyoto Univ.) NAGAI, Atsushi; CHUJO, Yoshiki

**3G4-36** Dispersion behavior of zinc oxides by graft polymers composed of poly(ethylene oxide) and polystyrene side chains (Kyoto Institute of Technology) FURUTERA, Ayumu; MIYAHARA, Daichi; ADACHI, Kaoru; TSUKAHARA, Yasuhisa

**3G4-37** Dispersion control of CNT in polystyrene with graft polymers and the properties of composites therefrom (Kyoto Institute of Technology) MUNE, Yasuhiro; NISHIMURA, Hideki; ADACHI, Kaoru; TSUKAHARA, Yasuhisa

## Biopolymer

Chair: KIDA, Toshiyuki (15 : 20~16 : 00)

\* 15:10-15:20: interval for laptop PC connection.(3G4-39, 3G4-40, 3G4-41)

**3G4-39** Sulfation Patterns of Depolymerized Chondroitin Sulfate under Hydrothermal Conditions (Tottori Univ.) MORI, Daiki; HAYASHI, Tetsuya; TAMURA, Junichi; TONOI, Takayuki; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

**3G4-40** Preparation of gel and film materials using guar gum (Kagoshima Univ.) SONODA, Kohei; IZAWA, Hironori; MINE, Shozaburo; KANEKO, Yoshiro; KADOKAWA, Jun-ichi

**3G4-41\*** Preparation of new functional gel materials using xanthan gum (Kagoshima Univ.) IZAWA, Hironori; KANEKO, Yoshiro; KADOKAWA, Jun-ichi

Chair: KADOKAWA, Junichi (16 : 10~17 : 20)

\* 16:00-16:10: interval for laptop PC connection.(3G4-44, 3G4-46, 3G4-47, 3G4-49, 3G4-50)

**3G4-44\*** Circularly Polarized Luminescence from Cyclodextrin-Pyrene Inclusion Complex and its Optical Switching Control (NAIST; JST-PRESTO) NAITO, Masanobu; YASUI, Ken-ichiro

**3G4-46** Nanotube Formation through One-dimensional Fusion of Hollow Nanocapsules Composed of Poly(lactic acid)s Layer-by-layer Films (Osaka Univ.) KONDO, Kenta; OGAWA, Yuji; ARIKAWA, Yuya; KIDA, Toshiyuki; AKASHI, Mitsuru

**3G4-47\*** Structure and properties of super-giant macromolecule "sacran" and its application to skin coating agents (School of Materials Science, JAIST) KANEKO, Tatsuo; OKAJIMA, Maiko; KANEKO, Shinichiro

**3G4-49** Extraction of proteins using ionic liquid/water mixture showing LCST-type phase behavior. (Tokyo Univ. of Agriculture & Technology) SAITA, Syohei; KOHNO, Yuki; OHNO, Hiroyuki

**3G4-50** Development of HPLC with ionic liquid as an eluent: Selection of suitable ionic liquid and application for cellulose analysis (Tokyo Univ. of Agriculture & Technology) KURODA, Kohsuke; FUKAYA, Yukinobu; TSUKAMOTO, Atsushi; OHNO, Hiroyuki

# Room G5

Bldg.17 17-401

## Material Chemistry

Friday, March 26, AM

### Fine particle

Chair: IKEDA, Shingo (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(1G5-01, 1G5-02, 1G5-03, 1G5-04, 1G5-05, 1G5-06)
- 1G5-01** Fabrication and characterization of poly(*N*-isopropylacrylamide) grafted silica particles (Graduate School of Engineering, Nagoya Univ.) GOTO, Yoshie; SUZUKI, Hiromasa; KATAGIRI, Kiyofumi; TAKEOKA, Yukikazu; SEKI, Takahiro
- 1G5-02** Preparation and Functionalization of Water-soluble Colloidal Quantum Dots with Silane Coupling Agents as Surface Ligand (Faculty of Systems Engineering, Wakayama Univ.) SATO, Toshiyuki; NAKAHARA, Yoshio; KIMURA, Keiichi
- 1G5-03** Size Effect of Rh Nanoparticle Cocatalysts on Photocatalytic Activity for Overall Water Splitting Under Visible Light (Univ. of Tsukuba; The Univ. of Tokyo) IKEDA, Takahiro; XIONG, Anke; YOSHINAGA, Taizo; KANEHARA, Masayuki; MAEDA, Kazuhiko; DOMEN, Kazunari; TERANISHI, Toshiharu
- 1G5-04** Enhancement of Photocatalytic Activity of  $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$  by Loading Manganese Oxide Nanoparticles as a Cocatalyst (Univ. of Tsukuba) YOSHINAGA, Taizo; IKEDA, Takahiro; XIONG, Anke; KANEHARA, Masayuki; MAEDA, Kazuhiko; DOMEN, Kazunari; TERANISHI, Toshiharu
- 1G5-05** Unique Light Emission Property from Well-designed Monolayer/Si Nanoparticles (NIMS) SHIRAHATA, Naoto; TSURUOKA, Tohru; SAKKA, Yoshio
- 1G5-06** Synthesis and Characterization of Superconducting Nanoparticles (Keio Univ.) TAKASE, Yuki; SUDA, Masayuki; HONDA, Kensuke; EINAGA, Yasuaki

Chair: TERANISHI, Toshiharu (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(1G5-08, 1G5-09, 1G5-11, 1G5-12, 1G5-13)
- 1G5-08** Preparation of Noble Metal Nanoparticles by Microwave Induced Plasma in Liquid (Graduate School of Engineering, Hokkaido Univ.; ARIOS Co. Ltd.) YONEZAWA, Tetsu; MORI, Kunihiko; SATO, Susumu
- 1G5-09\*** Synthesis of Cu nanoparticles without reductant by microwave plasma in liquid (Arios Inc.; Graduate School of Engineering, Hokkaido Univ.) MORI, Kunihiko; SATO, Susumu; HYONO, Atsushi; YONEZAWA, Tetsu
- 1G5-11** Preparation of gold nano-particles using photosensitivity of silver halide (Graduate School of Advanced Integration Science, Chiba Univ.) ITO, Ryota; YU, Yue; KUGE, Ken'ichi; SAKAI, Tomoko
- 1G5-12** Formation of Platelike Nanostructured Gold by Crystal Growth in a Periodic Arrangement of Silica Nanoparticles (Waseda Univ.; Kagami Memorial Research Institute, Waseda Univ.) KURODA, Yoshiyuki; KURODA, Kazuyuki
- 1G5-13** Hydrogen Storage Properties of Nickel Nanoparticles Monodispersed in Polymeric Microspheres (Ritsumeikan Univ.) IGAWA, Takao; IKEDA, Shingo; KOJIMA, Kazuo; AKAMATSU, Kensuke; NAWAFUNE, Hidemi

Chair: EINAGA, Yasuaki (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(1G5-15, 1G5-16, 1G5-18, 1G5-19, 1G5-20)
- 1G5-15** Fabrication of Carbon/Cobalt Nanoparticle Composites by Thermolysis of Cobalt Fullerene Complexes (The Univ. of Tokyo; ERATO, JST) MARUYAMA, Masashi; SATO, Yuta; SUENAGA, Kazuo; NAKAMURA, Eiichi; MATSUO, Yutaka
- 1G5-16\*** Strategic Synthesis of Monodisperse Metal/Pt Core/Shell Nanoparticles (Univ. of Tsukuba; Toyota Motor Co.) SATO, Ryota; NAGAO, Satoshi; IKAI, Toshihiro; KANEHARA, Masayuki; TERANISHI, Toshiharu
- 1G5-18** Synthesis of binary nanoparticles containing Ag by a microwave heating (Tokyo Institute of Technology; Graduate School of Science and Engineering) MOCHIZUKI, Dai; TAKIZAWA, Shohei; TSUKAHARA, Yasunori; YAMAUCHI, Tomohisa; WADA, Yuji
- 1G5-19** Synthesis of Au/Ag/Cu nanoparticles by microwave heating (School of Engineering, Tokyo Institute of Technology) WANG, Dan; TAKIZAWA, Shohei; MOCHIZUKI, Dai; WADA, Yuji
- 1G5-20** Synthesis of platinum-bimetallic nanoparticles encapsulated in a dendrimer template. (Keio Univ.; International Christian Univ.) HONGO, Yushii; SONOI, Atsunori; IMAOKA, Takane; CHUN, Wang Jae; YAMAMOTO, Kimihisa

Friday, March 26, PM

Chair: MOCHIZUKI, Dai (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(1G5-28, 1G5-30, 1G5-32, 1G5-33)
- 1G5-28\*** Quantum magnetic metal oxide prepared from dendrimer precursor (Keio Univ.; NIMS) SATOH, Norifusa; KATOH, Ryouta; YAMAMOTO, Kimihisa
- 1G5-30\*** Syntheses of ferrimagnetic iron oxide nanocrystal clusters and their application for the fabrication of core-shell structure (Nagoya Univ.) MORIYA, Makoto; ITO, Masashi; SAKAMOTO, Wataru; YOGO, Toshinobu
- 1G5-32** Preparation of hybrid nanoparticles formed with polysaccharide nanogel and iron oxide for biomedical applications (Nagoya Univ.; Inst. of Biomater. and Bioeng., Tokyo Medical and Dental Univ.) OHTA, Kiko; KATAGIRI, Kiyofumi; KOUMOTO, Kunihito; SASAKI, Yoshihiro; KUROSU, Kei; AKIYOSHI, Kazunari
- 1G5-33** Preparation of  $\text{SmCo}_5$  Magnetic Nanoparticles by an Improved Polyol method: Effect of Protective Reagents (Tokyo Univ. of Sci., Yamaguchi) WATANABE, Tatsuya; IWAMOTO, Takashi; SHIRAIISHI, Yukihide; INOKUCHI, Makoto; TOSHIMA, Naoki

Chair: KATAGIRI, Kiyofumi (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(1G5-35, 1G5-37, 1G5-38, 1G5-39, 1G5-40)
- 1G5-35\*** Sequential Assembly of FePt Nanoparticle films with Perpendicular Magnetic Anisotropy (Keio Univ.) SUDA, Masayuki; EINAGA, Yasuaki
- 1G5-37** Synthesis and Functional Evaluation of Size-controlled  $\text{Gd}_2\text{O}_3$  Nanoparticles for Photoacoustic and MR Imaging (Kyoto Univ.) KONDO, Teruyuki; KAMISUGI, Ryota; KIMURA, Yu; TABATA, Yasuhiko; MATSUDA, Tetsuya; NARAZAKI, Michiko

### Inorganic materials

- 1G5-38** Synthesis of nano-structured tungsten oxide using mesoporous silica template. (Hiroshima Univ.) TAMURA, Naoya; SASAKI, Keisuke; UEDA, Wataru; ABE, Ryu; TANABE, Eiji; SADAKANE, Masahiro; OUMI, Yasunori; SANO, Tsuneji
- 1G5-39** Gel nitridation synthesis and electrical properties of perovskite type  $\text{Sr}_{1-x}\text{La}_x\text{Nb}(\text{O},\text{N})_3$  (Hokkaido Univ.) KOMIYAMA, Takafumi; MASUBUCHI, Yuji; MOTOHASHI, Teruki; KIKKAWA, Shinichi
- 1G5-40** Synthesis and characterization of  $\text{La}_2\text{Ti}_3\text{O}_9$  nanoparticles via hard-templating route (Chemical Resources Laboratory, Tokyo Institute of Technology) ONOZUKA, Takashi; TATSUMI, Takashi; NOMURA, Junko

Chair: KIMURA, Tatsuo (15:50~17:10)

- \* 15:40-15:50: interval for laptop PC connection.(1G5-42, 1G5-44, 1G5-45, 1G5-46, 1G5-47, 1G5-48)
- 1G5-42\*** Room-Temperature Aqueous Solution Synthesis of Manganese Oxide Nanostructures with Controlled Oxidation States and Morphologies (Keio Univ.) OAKI, Yuya; OBA, Manabu; IMAI, Hiroaki
- 1G5-44** Structure and electrochemical properties of Porous  $\text{RuO}_2$  by Electrooxidation of Ordered Mesoporous Ru Metal (Shinshu Univ.) MUKAI, Ryota; MAKINO, Sho; YAMAUCHI, Yusuke; SUGIMOTO, Wataru; TAKASU, Yoshio
- 1G5-45** Preparation of Mesostructured Titania Films with Uniaxially Aligned Mesostructure (School of Science and Engineering, Waseda Univ.) FUKUSHIMA, Yuta; KANNO, Yosuke; MIYATA, Hirokatsu; KURODA, Kazuyuki
- 1G5-46** The size control of the structure periodicity of mesostructured silica films with uniaxially aligned 2D hexagonal structure by using micelle expander (School of Science and Engineering, Waseda Univ.) KOBORI, Shimon; FUKUSHIMA, Madoka; MIYATA, Hirokatsu; KURODA, Kazuyuki
- 1G5-47** Fabrication of Au Nanostructures by Electrodeposition using Mesoporous Silica Films as Templates (School of Science and Engineering, Waseda Univ.) KANNO, Yosuke; SUZUKI, Takashi; YAMAUCHI, Yusuke; KURODA, Kazuyuki
- 1G5-48\*** Synthesis and morphological control of ordered zirconia nanoparticles by using self-assembled silica nanospheres (Chemical Resources Laboratory, Tokyo Institute of Technology) WATANABE, Ryota; YOKOI, Toshiyuki; TATSUMI, Takashi

Chair: NAKAJIMA, Kiyotaka (17:20~18:30)

- \* 17:10-17:20: interval for laptop PC connection.(1G5-51, 1G5-52, 1G5-53, 1G5-55, 1G5-56, 1G5-57)
- 1G5-51** Preparation and application of monodisperse silica nanospheres (Chemical Resources Laboratory, Tokyo Institute of Technology) KOBAYASHI, Erina; WATANABE, Ryota; YOKOI, Toshiyuki; TATSUMI, Takashi
- 1G5-52** One-pot synthesis of hollow silica cage encapsulating nickel nanoparticles (Research Center for Solar Energy Chemistry, Osaka Univ.) HARADA, Takashi; SUGITA, Tomohiko; IKEDA, Shigeru; MATSUMURA, Michio

**1G5-53\*** Preparation of composite nano-filters using ordered mesoporous silica (AIST) KIMURA, Tatsuo; YAMAUCHI, Yusuke

### Organic/composite materials

**1G5-55** Preparation and characterization of silica-based inorganic-organic hybrids containing aromatic dyes (Toyoohashi Univ. of Technology) SAKAKIBARA, Saki; SAKAMOTO, Hisatoshi; KAWAMURA, Go; MUTO, Hiroyuki; SAKAI, Mototsugu; MATSUDA, Atsunori

**1G5-56** In situ preparation of organic liquid crystal - layered silica hybrids and characterization of the hybrid structures (IMRAM, Tohoku Univ.) SEINO, Yuki; KANIE, Kiyoshi; MURAMATSU, Atsushi

**1G5-57** Preparation of a highly ordered assembly of a metal organicframework by chemical fabrication (Grad. Sch. Sci., Chiba Univ.) HONDA, Takashi; KONDO, Atsushi; KAJIRO, Hiroshi; ARAI, Takayoshi; OHBA, Tomonori; KANEKO, Katsumi; KANO, Hirofumi

### Saturday, March 27, AM

Chair: TSUTSUMI, Osamu (9:00 ~ 9:50)

\* 8:50-9:00: interval for laptop PC connection.(2G5-01, 2G5-02, 2G5-03, 2G5-04)

**2G5-01<sup>†</sup>** Synthesis of Hydrophilic Polymer-Modified CeO<sub>2</sub> Nanoparticles using Supercritical Water (NIMS) TAGUCHI, Minoru; TAKAMI, Seiichi; ADSCHIRI, Tadafumi; NAKANE, Takayuki; SATO, Koichi; NAKA, Takashi

**2G5-02** Liquid-crystalline organic-inorganic hybrid superlattices formed by organic dendron-modified gold nanoparticles: Effect of the particles sizes on the self-organized structure (IMRAM, Tohoku Univ.; The Univ. of Sheffield) MATSUBARA, Masaki; KANIE, Kiyoshi; ZENG, Xiangbing; FENG, Liu; UNGAR, Goran; MURAMATSU, Atsushi

**2G5-03** Synthesis of CO<sub>2</sub>H-modified monodispersed CdS nanoparticles and their functionalization by amino-substituted organic dendrons (IMRAM, Tohoku Univ.) YABUKI, Jun; TANAKA, Itaru; MATSUBARA, Masaki; NAKAYA, Masafumi; KANIE, Kiyoshi; MURAMATSU, Atsushi

**2G5-04\*** Synthesis and optical property of organic silicon nanosheet (Toyota Central R&D Labs., Inc.) SUGIYAMA, Yusuke; OKAMOTO, Hirotsugu; KUMAI, Yoko; NAKANO, Hideyuki

Chair: KANIE, Kiyoshi (10:00 ~ 11:00)

\* 9:50-10:00: interval for laptop PC connection.(2G5-07, 2G5-09, 2G5-10, 2G5-11, 2G5-12)

**2G5-07\*** Characterization of Novel Luminescent Polymer Composites by Utilizing Inorganic Nanocrystals (Sumitomo Osaka Cement Co., Ltd; Kyoto Univ.) OTSUKA, Takeshi; CHUJO, Yoshiki

**2G5-09** Formation of Nano Discs by the Self-assembly of Organic-inorganic Hybrid Lipids. (Nara Inst. of Sci. and Technol.) MIKI, Shohei; YASUHARA, Kazuma; KIKUCHI, Jun-ichi

**2G5-10** Nanostructures of Giant Ring-Shaped Polyoxomolybdates (Ritsumeikan Univ.) UNO, Kenjiro; MUTO, Makoto; TSUTSUMI, Osamu

**2G5-11** Mesoscopic Network Structures in Hybrid Materials of Giant Ring-Shaped Polyoxomolybdates and Organic Molecules (Ritsumeikan Univ.) MUTO, Makoto; UNO, Kenjiro; TSUTSUMI, Osamu

**2G5-12** Analyses of Conformation of Polymer Chain on Carbon Nanotubes by Solution Mixing Processes (NAIST) CHUNG, Woojung; NAITO, Masanobu; FUJIKI, Michiya

Chair: CHUJO, Yoshiki (11:10 ~ 12:10)

\* 11:00-11:10: interval for laptop PC connection.(2G5-14)

**2G5-14** CSJ Award for Creative Works Fabrication of Organic and Polymer Hybridized Nanocrystals, and Their Ordered Array Structure toward Highly Functional Optical Materials (IMRAM, Tohoku Univ.) OIKAWA, Hidetoshi

### Saturday, March 27, PM

Chair: OKA, Natsuhisa (13:20 ~ 13:50)

\* 13:10-13:20: interval for laptop PC connection.(2G5-27, 2G5-30, 2G5-31, 2G5-32, 2G5-33)

**2G5-27** Young Scholar Lectures of CSJ Development of Organic/Inorganic Hybrids through macromolecular templates with controlled structure (Sch. of Eng. The Univ. of Tokyo) NISHIMURA, Tatsuya

Chair: KIKUCHI, Jun-ichi (13:50 ~ 14:40)

**2G5-30** Peptide-directed biomineralization (1).Construction of peptide nanostructures toward biosilica synthesis. (Ryukoku Univ.) KOTERA, Tatsuki; YAMAMOTO, Shin-ichi; TOMIZAKI, Kin-ya

**2G5-31** Peptide-directed biomineralization (2).Regulation of CaCO<sub>3</sub> crystal growth by peptides. (Ryukoku Univ.) NAITO, Hideki; YAMAMOTO, Shin-ichi; TOMIZAKI, Kin-ya

**2G5-32** Macroscopically Ordered SrCO<sub>3</sub>/Polymer Thin-film Hybrids Prepared by Biomineralization Inspired Process (The Univ. of Tokyo) TOYODA, Ken; NISHIMURA, Tatsuya; ITO, Takahiro; OAKI, Yuya; KATO, Takashi

**2G5-33\*** Supramolecular Fibrous Gel Fabricated by Using A Microfluidic Channel (The Univ. of Tokyo; Kyoto Univ.) KIRIYA, Daisuke; ONOE,

Hiroaki; IKEDA, Masato; HAMACHI, Itaru; TAKEUCHI, Shoji

Chair: MURAMATSU, Atsushi (17:00 ~ 17:40)

\* 16:50-17:00: interval for laptop PC connection.(2G5-49, 2G5-51)

**2G5-49\*** Development of Discotic Columnar Liquid Crystals Responsive to Electric Field (The Univ. of Tokyo; Tokyo Institute of Technology) MIYAJIMA, Daigo; ARAOKA, Fumito; TAKEZOE, Hideo; AIDA, Takuzo

**2G5-51\*** Development of Ferroelectric Columnar Liquid Crystals (The Univ. of Tokyo; Tokyo Institute of Technology) MIYAJIMA, Daigo; ARAOKA, Fumito; TAKEZOE, Hideo; AIDA, Takuzo

### Sunday, March 28, AM

Chair: TAKIMIYA, Kazuo (9:00 ~ 10:00)

\* 8:50-9:00: interval for laptop PC connection.(3G5-01, 3G5-02, 3G5-03, 3G5-05)

**3G5-01** Effects of adding linseed oil to lacquer sap (Meiji Univ.) MOTEKI, Tomohiro; MIYAKOSHI, Tetsuo

**3G5-02** Effects of silsesquioxane fillers on optical properties of polymer materials (Kyoto Univ.) ADACHI, Shigehiro; YASUDA, Norihiko; TANAKA, Kazuo; CHUJO, Yoshiki

**3G5-03\*** High-functionalization of polybenzoxazine and the application (AKEBONO RESEARCH AND DEVELOPMENT CENTER LTD.) KUROE, Motoki; AOYAGI, Yoshihiro

**3G5-05\*** Composite Structure by Metal-polyiodide, I<sub>3</sub><sup>-</sup>, within Hydrophilic Polymer [III]; Can Polymeric Materials Be Regarded as Diffusion Medium with Spatial Restriction? (Kyoto Univ.) KAWAGUCHI, Aki

### Polymer materials

Chair: JIANG, Dong-Lin (10:10 ~ 11:00)

\* 10:00-10:10: interval for laptop PC connection.(3G5-08, 3G5-10, 3G5-11)

**3G5-08\*** Production of Chiral Monomer from Adamanthyl Derivatives and Control of Higher-order Structure in Polymer (Tokai Univ.; Daito Chemical Co. Ltd) FUJII, Isao

**3G5-10** Novel semiconducting polymers based on naphthodithiophene for organic field-effect transistors (Hiroshima Univ.) ABE, Toru; SHINAMURA, Shoji; OSAKA, Itaru; MIYAZAKI, Eigo; TAKIMIYA, Kazuo

**3G5-11\*** Fabrication of Gel Immobilized Colloidal Photonic Crystals with Long-Term Stability (Yokohama Natl. Univ.) KANAI, Toshimitsu; SAWADA, Tsutomu

Chair: NAKA, Kensuke (11:10 ~ 12:10)

\* 11:00-11:10: interval for laptop PC connection.(3G5-14, 3G5-16, 3G5-17, 3G5-18)

**3G5-14\*** Preparation of gradient materials with spin concentration via the regulation of self-assembly of tetrathiafulvalene in polymer films (Kyoto Univ.) TANAKA, Kazuo; ISHIGURO, Fumiyasu; CHUJO, Yoshiki

**3G5-16\*** Hexaazatriphenylene-based Conjugated Microporous Polymers via Ionothermal Synthesis (Institute for Molecular Science) KOU, Yan; JIANG, Dong

**3G5-17\*** Design and Functions of Porphyrin-Based Covalent Organic Frameworks (IMS; JST PRESTO) CHEN, Long; FENG, Xiao; JIANG, Donglin

**3G5-18\*** Design and Functions of Phthalocyanine-based Covalent Organic Frameworks (IMS; JST PRESTO) GUO, Jia; SEKI, Shu; HONSHO, Yoshihito; JIANG, Donglin

## Asian International Symposium -Nanotechnology and Materials Chemistry

### Sunday, March 28, PM

Chair: YAMAMOTO, Kimihisa (13:10 ~ 13:50)

\* 13:00-13:10: interval for laptop PC connection.(3G5-26, 3G5-28, 3G5-30, 3G5-32)

**3G5-26<sup>#</sup> Invited Lecture** Drastic Structural Transformation of Cd Chalcogenide Nanoparticles Using Chloride Ions and Surfactants (Univ. of Tsukuba) ○SARUYAMA, Masaki; KANEHARA, Masayuki; TERANISHI, Toshiharu (13:10 ~ 13:30)

**3G5-28<sup>#</sup> Invited Lecture** Designed Synthesis of Monodisperse Pd/Pt Core/Shell Nanoparticles with Well-tuned Pt Atomic Layer Numbers (Univ. of Tsukuba) ○SATO, Ryota; NAGAO, Satoshi; IKAI, Toshihiro; KANEHARA, Masayuki; TERANISHI, Toshiharu (13:30 ~ 13:50)

Chair: TERANISHI, Toshiharu (13:50 ~ 14:40)

**3G5-30<sup>#</sup> Invited Lecture** Dendritic Structure Having a Potential Gradient: New Synthesis and Properties of Carbazole Dendrimers (Keio Univ.) ○ALBRECHT, Ken; YAMAMOTO, Kimihisa (13:50 ~ 14:10)

**3G5-32<sup>#</sup> Invited Lecture** Controlled Storage of Ferrocene Derivatives as a Redox Active Molecule in Dendrimers (Keio Univ.) ○OCHI, Yosuke; YAMAMOTO, Kimihisa (14:10 ~ 14:30)

Chair: YU, Yanlei (14:40 ~ 15:40)

\* 14:30-14:40: interval for laptop PC connection.(3G5-35, 3G5-38)

**3G5-35<sup>#</sup> Keynote Lecture** Self-Organized Hybrid Liquid-Crystalline Materials with Photoresponsive Functions (Nagaoka Univ. of Technology) YU, Haifeng (14:40~15:10)

**3G5-38<sup>#</sup> Keynote Lecture** Morphologically Controlled Synthesis of Cu<sub>2</sub>O Nanocrystals and Their Applications (National Tsing Hua Univ., Taiwan) HUANG, Michael H. (15:10~15:40)

Chair: KAWATSUKI, Nobuhiro (15:50~16:30)

\* 15:40-15:50: interval for laptop PC connection.(3G5-42, 3G5-44, 3G5-46, 3G5-48)

**3G5-42<sup>#</sup> Invited Lecture** Surface Alignment Control of Columnar Aggregates/Silica Hybrid (Nagoya Univ.) OHARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro (15:50~16:10)

**3G5-44<sup>#</sup> Invited Lecture** Polyrotaxane Based Thermo-Sensitive Ionic Gels with Prominent Mechanical and Swelling Properties (Nagoya Univ.; The Univ. of Tokyo) OIMRAN, Abu Bin; SEKI, Takahiro; SAKAI, Yasuhiro; ITO, Kohzo; TAKEOKA, Yukikazu (16:10~16:30)

Chair: SEKI, Takahiro (16:30~17:10)

**3G5-46<sup>#</sup> Invited Lecture** Synthesis and Photoresponsive Behavior of Poly(N-isopropylacrylamide) with Azobenzene Moieties (Tokyo Tech; Univ. of Montreal, Canada) OISHII, Norihito; MAMIYA, Jun-ichi; IKEDA, Tomiki; QIU, Xing-Ping; WINNIK, Françoise M. (16:30~16:50)

**3G5-48<sup>#</sup> Invited Lecture** Photomobile Polymer Materials with a Bilayer Structure (Tokyo Tech; Waseda Univ.) ONAKA, Yumiko; MAMIYA, Jun-ichi; SHISHIDO, Atsushi; WASHIO, Masakazu; IKEDA, Tomiki (16:50~17:10)

## Material Chemistry

Monday, March 29, AM

### Polymer materials

Chair: GUNJI, Takahiro (9:00~10:10)

\* 8:50-9:00: interval for laptop PC connection.(4G5-01, 4G5-03, 4G5-04, 4G5-05, 4G5-06)

**4G5-01\*** Constituent Eluted from Kenaf Fibers through Hydrothermal Treatment (Kyoto Municipal Industrial Research Institute) MINAMI, Hideaki; NISHIUCHI, Shigenori; KADONO, Junichiro; TANI, Hiroshi; KAWAHARA, Yutaka

**4G5-03** Structure and Properties of Orientation-controlled DNA Complex With Functional Molecules (Faculty of Engineering, Chiba Univ.) FUKABORI, Mayu; SON, Reina; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

**4G5-04** Fabrication and Properties of OLED Based on DNA Complex Hydrophobized with Surfactant agent. (Faculty of Engineering, Chiba Univ.) WATANABE, Michihito; ISHIKAWA, Takayuki; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

**4G5-05** Fabrication of Calcium Carbonate Hybrid Particles with Hyperbranched Poly(amidoamine) (Dept of Chem. and Mater. Technol., KIT) TANAKA, Yuka; NAKA, Kensuke

**4G5-06\*** Synthesis and properties of branched EPDM synthesized by metallo-cene catalysts (MITSUI CHEMICALS, INC.) EBATA, Hiroki; NAKATSUJI, Ryo; OTA, Seiji

### Process

Chair: TADANAGA, Kiyoharu (10:20~11:10)

\* 10:10-10:20: interval for laptop PC connection.(4G5-09, 4G5-10, 4G5-11, 4G5-12, 4G5-13)

**4G5-09** Synthesis and Properties of Alkoxy Silsesquioxanes by the Dehydrogenative Condensation. (Tokyo Univ. of Science, Faculty of Science and Technology) SEKIGUCHI, Yusuke; ABE, Yoshimoto; KONAKAHARA, Takeo; GUNJI, Takahiro

**4G5-10** Synthesis and Properties of Polymethylsilsesquioxane/polymethoxysiloxane Block Copolymers. (Tokyo Univ. of Science, Faculty of Science and Technology) KABURAKI, Hironori; ABE, Yoshimoto; KONAKAHARA, Takeo; GUNJI, Takahiro

**4G5-11** Synthesis of laddersiloxanes bearing functionalized substituents (Gunma Univ.) TAKIZAWA, Akira; UNNO, Masafumi

**4G5-12** Effects of Solvent on Sol-Gel Polycondensation of Allylsilane Compounds (Toyota Central R&D Labs., Inc.; JST/CREST; Nara National College of Technology, Department of Chemical Engineering) MAEGAWA, Yoshifumi; MIZOSHITA, Norihito; TANI, Takao; SHIMADA, Toyoshi; INAGAKI, Shinji

**4G5-13** Synthesis of a Porphyrin Derivative Containing Eight Triethoxysilyl Groups (Faculty of Science and Engineering, Waseda Univ.) KANEKO, Shuya; HOSHI, Rieko; NASU, Shintaro; KURODA, Kazuyuki

Chair: HAMASAKI, Atom (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4G5-15, 4G5-16, 4G5-17, 4G5-18, 4G5-19)

**4G5-15** Preparation of Porous Thick Films by Electrophoretic Deposition of Surface-modified PhSiO<sub>3/2</sub> Hollow Particles (Osaka Pref. Univ.)

TADANAGA, Kiyoharu; ISHIDA, Hiroaki; TATSUMISAGO, Masahiro

**4G5-16** Sol-Gel Synthesis of Water-Soluble Titanium-Silicon Binary Oxide Materials (Kagoshima Univ.) KANEKO, Yoshiro; NOGUCHI, Katsuhiko

**4G5-17** Preparation of Platinum Nanoparticles using Polyethyleneimine as a Stabilizer and Their Properties (Tokyo Univ. of Science, Faculty of Science and Technology) IMAI, Takanori; ABE, Yoshimoto; KONAKAHARA, Takeo; GUNJI, Takahiro

### Carbon compound

**4G5-18** Synthesis of amorphous carbon semiconductor using naphthalene as a precursor and the electrical properties. (Tokyo Institute of Technology) SUGANO, Mayo; KITANO, Masaaki; KATO, Hideki; NAKAJIMA, Kiyotaka; HARA, Michikazu

**4G5-19\*** Synthesis of isotropic pitch with high solvent solubility using halogen (IMCE, Kyushu Univ.) WATANABE, Naoki; MIYAWAKI, Jin; MOCHIDA, Isao; YOON, Seongho

Monday, March 29, PM

### Carbon compound

Chair: NAKAJIMA, Kiyotaka (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(4G5-28, 4G5-29, 4G5-30, 4G5-31, 4G5-32, 4G5-33)

**4G5-28** Exfoliation behavior of silylated graphite oxide (Univ. of Hyogo) IWASA, Kenshiro; MIMURA, Taito; MATSUO, Yoshiaki; SUGIE, Yoshihiro

**4G5-29** Effect of reaction temperature on the formation of pillared carbons (Univ. of Hyogo; Shinshu Univ.) UEDA, Sakae; MATSUO, Yoshiaki; SUGIE, Yoshihiro

**4G5-30** The effect of Carbon/Oxygen ratio of carbon sources in the CNT synthesis using Co/MgO catalyst (Kansai Univ.) KAWASHIMA, Masaru; IKENAGA, Naoki; MIYAKE, Takanori; SUZUKI, Toshimitsu

**4G5-31** Magnetic Field Effects on the Growth of Carbon Materials (Shinshu Univ.) SAKAGUCHI, Ayumi; HAMASAKI, Atom; TAKEDA, Mitsuo; OZEKI, Sumio

**4G5-32** Magnetic field effects on structure of carbon materials prepared by coal pitch (Shinshu Univ.) HAMASAKI, Atom; NISHIHARA, Yoshitaka; SAKAGUCHI, Ayumi; SADATOU, Toyonari; OZEKI, Sumio

**4G5-33** Intercalation of Sodium into Graphite-like Layered Material BC<sub>2</sub>N by Electrochemical Method (Osaka Electro-Communication Univ.) YAMADA, Kaoru; KAWAGUCHI, Masayuki

Chair: IKENAGA, Naoki (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(4G5-35, 4G5-36, 4G5-37, 4G5-38, 4G5-39, 4G5-40)

**4G5-35** Synthesis of n-type semiconductive carbon materials using an organic boron compound as a precursor (Tokyo Inst. of Tech.) INOUE, Yasunori; KITANO, Masaaki; NAKAJIMA, Kiyotaka; HARA, Michikazu

**4G5-36** Surface-attachment behavior on gold surfaces of sulfur-functionalized diamond powder (Natl. Inst. of AIST; Kyushu Inst. of Technol.) NAKAMURA, Takako; OHANA, Tsuguyori; HAGIWARA, Yuta; TSUBOTA, Toshiki

### Glass and amorphous materials

**4G5-37** Preparation of silicate phosphor powders containing Eu by mechanical milling (Osaka Pref. Univ.) TADANAGA, Kiyoharu; SHINOMIYA, Atsuko; TATSUMISAGO, Masahiro

### Thin film

**4G5-38** Effect of Electrode Surface Modification Using Layer-by-Layer Method in Electrodeposition of ZnO (OMTRI; Osaka Electro. Commun. Univ.) NAKAMURA, Yuji; WATANABE, Mitsuru; SHINAGAWA, Tsutomu; TAMAI, Toshiyuki; NISHIOKA, Noboru; MATSUKAWA, Kimihito

**4G5-39** Fabrication and characterization of ZnO thin films formed by AP-MOCVD (Research Center for Solar Energy Chemistry, Osaka Univ.) KANEDA, Takuya; KAMAI, Ryo; IKEDA, Shigeru; MATSUMURA, Michio

**4G5-40** Preparation of titanium dioxide hollow sphere thin films from aqueous solution of titanium-lactic acid complex (Osaka Mun. Tech. Res. Inst.) CHIGANE, Masaya; WATANABE, Mitsuru; SHINAGAWA, Tsutomu

Chair: IKEDA, Shigeru (15:50~16:40)

\* 15:40-15:50: interval for laptop PC connection.(4G5-42, 4G5-43, 4G5-44, 4G5-45, 4G5-46)

**4G5-42** Fabrication of Transparent, Highly Crystalline Oxide Thin Films with Photocatalytic Property (Shinshu Univ.; Tohoku Univ.) SUZUKI, Sayaka; TESHIMA, Katsuya; LEE, Sunhyung; YUBUTA, Kunio; SHISHIDO, Toetsu; OISHI, Shuji

**4G5-43<sup>†</sup>** Correlation between photoluminescence and photoreactivity of crystal-oriented and vis-responsive rutile thin films of O-defect sites (Kogakuin Univ.) NAGAI, Hiroki; AOYAMA, Sohei; MOCHIZUKI,

Chihiro; HARA, Hiroki; TAKANO, Ichiro; HONDA, Tohru; SATO, Mitsunobu

**4G5-44** Wet process fabrication of p-type cuprous oxide thin film (Kogakuin Univ.) SUZUKI, Tatsuya; NAGAI, Hiroki; MOCHIZUKI, Chihiro; HARA, Hiroki; TAKANO, Ichiro; SATO, Mitsunobu

**4G5-45** Thin Film Preparation of Novel Polysilsesquioxanes Possessing Methacryloxy Groups and Evaluation of Their Insulator Properties (Faculty of Systems Engineering, Wakayama Univ.) NAKAHARA, Yoshio; KAWA, Haruna; KUMEI, Maki; YAMAMOTO, Hiroyuki; OI, Fumio; YAMAKADO, Hideo; KIMURA, Keichi

**4G5-46** Construction of polymer brushed nanosheet and cell patterning. (Dept. of Life Sci. Med. Biosci., School of Adv. Sci. & Eng., Waseda Univ.) HANIUDA, Hiroki; FUJIE, Toshinori; TAKEOKA, Shinji

## Room G6

Bldg.17 17-402

### Functions of Materials

Friday, March 26, AM

Chair: KOBATAKE, Seiya (9 : 20 ~ 10 : 20)

\* 9:10-9:20: interval for laptop PC connection.(1G6-03, 1G6-04, 1G6-05, 1G6-06, 1G6-07)

**1G6-03** Real-time photoswitching of chiral nematic phase by [2.2]paracyclophane-linked HABI (Aoyama Gakuin Univ.) FUJITA, Kana; ABE, Jiro

**1G6-04** Photochromic properties of [2.2]paracyclophane-linked HABI with sensitizing moiety (Aoyama Gakuin Univ.) KATO, Tetsuya; KIMOTO, Atsushi; ABE, Jiro

**1G6-05** Photochromic properties of pyrenyl-substituted [2.2]paracyclophane-linked HABI (Aoyama Gakuin Univ.) YAMASHITA, Hiroaki; KIMOTO, Atsushi; ABE, Jiro

**1G6-06** Photochromic properties of novel pyridinium betaines possessing azobenzene unit (Aoyama Gakuin Univ.) OOKAWA, Kazuhiro; KIMOTO, Atsushi; ABE, Jiro

**1G6-07\*** Reversible photoswitching of single-component azobenzenes in self-assembled monolayers (Tokyo Tech) HAN, Mina; HARA, Masahiko

Chair: YAMAGUCHI, Tadatsugu (10 : 30 ~ 11 : 30)

\* 10:20-10:30: interval for laptop PC connection.(1G6-10, 1G6-11, 1G6-12, 1G6-13, 1G6-14, 1G6-15)

**1G6-10** Development of a thiophenophan-1-ene which performs diastereospecific photochromic reaction (Department of Chemistry and Applied Chemistry, Saga Univ.) JIN-NOUCHI, Hirotsugu; TAKESHITA, Michinori

**1G6-11** Preparation and photochromic properties of a metacyclophane-1-ene appended polymer film (Department of Chemistry and Applied Chemistry, Saga Univ.) YAMAGUCHI, Shouhei; TAKESHITA, Michinori

**1G6-12** Preparation and photochromism of a supramolecular elastomer composed of a diarylethene having hydrogen bonding moieties (Department of Chemistry and Applied Chemistry, Saga Univ.) KINOSHITA, Takeharu; MIYAZAKI, Takashi; TAKESHITA, Michinori

**1G6-13** Effects of gold and silver nanoparticles on photoisomerization of azobenzene (Grad. Sch. Eng., Kyushu Univ.) MATSUMOTO, Ryujii; UECHI, Ichiro; MUTO, Tsuyoshi; WADA, Tatsuo; YAMADA, Sunao

**1G6-14** Photoinduced Phase-changes of Triphenylene Derivatives Having Azobenzene Mesogens (Ryukoku Univ.; AIST Kansai) UCHIDA, Kingo; TANAKA, Daisuke; ISHIGURO, Hisato; ONISHI, Kazuki; SHIMIZU, Yo

**1G6-15** Morphology Analysis of Photo-responsive Layered Nanostructure (Tokyo Metropolitan Univ.; SORST/JST) NABETANI, Yu; HAYASAKA, Yuika; MIYAJIMA, Soki; SHIMADA, Tetsuya; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; TONG, Zhiwei; INOUE, Haruo

Chair: NAKANO, Hideyuki (11 : 40 ~ 12 : 30)

\* 11:30-11:40: interval for laptop PC connection.(1G6-17, 1G6-18, 1G6-19, 1G6-20, 1G6-21)

**1G6-17** Synthesis and structural studies of diblock copolymer having supramolecular liquid crystal and photoresponsive liquid crystal blocks. (Graduate School of Engineering, Nagoya Univ.) TAKAHASHI, Naomi; MURASE, Tomoya; NAGANO, Shusaku; SEKI, Takahiro

**1G6-18** Photoalignment of nematic liquid crystal on surface photofunctionalized polyimide films through VUV oxidation-based treatment (Graduate School of Engineering, Nagoya Univ.) SASAKI, Akira; NAGANO, Shusaku; SEKI, Takahiro

**1G6-19** Preparation and structural study on azobenzene liquid crystalline polynorbornene brush via ring opening polymerization. (Graduate School of Engineering, Nagoya Univ.; JST-PRESTO) KAKEHI, Soutarou; NAGANO, Shusaku; SEKI, Takahiro

**1G6-20** Photorealignment and realtime observation of microphase separation in a liquid crystalline azobenzene block copolymer thin film. (Graduate School of Engineering, Nagoya Univ.; JST-PRESTO; Graduate School of Frontier Sciences, The Univ. of Tokyo) MURASE, Tomoya; KOIZUKA,

Yusuke; NAGANO, Shusaku; SHINOHARA, Yuya; AMEMIYA, Yoshiyuki; SEKI, Takahiro

**1G6-21** The Photoresponse of Structural Colored Balloon Formed by Photoresist Polymer (Grad. Sch. Eng., Kyoto Univ.) HIGASHIGUCHI, Kenji; ODA, Tomohiro; MATSUDA, Kenji

Friday, March 26, PM

Chair: KAWAI, Tsuyoshi (13 : 40 ~ 14 : 40)

\* 13:30-13:40: interval for laptop PC connection.(1G6-29, 1G6-30, 1G6-31, 1G6-32, 1G6-33, 1G6-34)

**1G6-29** Thermal decoloration behavior of naphthopyran attached to cross-linked poly(dimethylsiloxane) (Graduate School of Engineering, Yokohama Natl. Univ.) OZAWA, Yasushi; UBUKATA, Takashi; YOKOYAMA, Yasushi; SAITO, Masako; HIWATARI, Ken-ichiro; TACHIKAWA, Hiroyuki

**1G6-30** Thermally irreversible photochromism of 3,4-bis-thiazolylcoumarin (Yokohama Natl. Univ.) SUZUKI, Kazushi; UBUKATA, Takashi; YOKOYAMA, Yasushi

**1G6-31** Photochromism of 4,5-bis-aryltriazole (Yokohama Natl. Univ.) ZHANG, Chenxia; KOSE, Mahmut; MORINAKA, Kaori; UBUKATA, Takashi; YOKOYAMA, Yasushi

**1G6-32** Highly Diastereoselective Photochromism of Diarylethene having Facial Chirality (Graduate School of Engineering, Yokohama Natl. Univ.) SHIOZAWA, Tatsuya; HOSSAIN, Kamrul, Mohammed; UBUKATA, Takashi; YOKOYAMA, Yasushi

**1G6-33** Control of Crystal Growth and Micro-patterning of a Diarylethene by Photoirradiation (Graduate School of Engineering, Osaka City Univ.; PRESTO, JST) KITAGAWA, Daichi; KOBATAKE, Seiya

**1G6-34** Novel Photochromic Compounds Using Reductive Reaction (Hyogo Univ. of Teacher Educ.) YAMAGUCHI, Tadatsugu; TANIGUCHI, Wataru; KAGAWA, Tomonori; OZEKI, Toru

Chair: KOSHIMA, Hideo (14 : 50 ~ 15 : 50)

\* 14:40-14:50: interval for laptop PC connection.(1G6-36, 1G6-37, 1G6-38, 1G6-39, 1G6-40, 1G6-41)

**1G6-36** characterization of photochromic diarylimidazolium materials (Nara Institute of Science and Technology, Graduate School of Materials Science (NAIST)) KOBAYASHI, Shouhei; KAWAI, Shigekazu; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

**1G6-37** Photochromic Properties of Ter-arylenes having an Acenaphthylene Group as the Central Aryl Group (Nara Inst. Sci. Tech.) FUKUMOTO, Sayo; KAWAI, Shigekazu; KUTSUNIGI, Yuichiro; NAKAGAWA, Hisako; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

**1G6-38** Solvent and Temperature Effect of One-photon Ring-opening Reaction of Diarylethene Derivatives (Graduate School of Engineering Science, Osaka Univ.) UMESATO, Toshiyuki; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi; KOBATAKE, Seiya; IRIE, Masahiro

**1G6-39** One-photon Ring-opening Reaction Dynamics of Diarylethene Derivatives : Relation between Intra-molecular Vibration and Reaction Yields. (Graduate School of Engineering Science, Osaka Univ.) SAITO, Hisayuki; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi; YAMAGUCHI, Tadatsugu; KOBATAKE, Seiya; IRIE, Masahiro

**1G6-40** Photochromism of diarylethene derivatives conjugatively linked with dye at the reactive carbon (RIES, Hokkaido Univ.; PRESTO-JST; Rikkyo Univ.) FUKAMINATO, Tsuyoshi; IRIE, Masahiro

**1G6-41** Single-crystalline photochromism of diarylethene derivatives having anthracene groups (Rikkyo Univ.) OHARA, Hiroki; MORIMOTO, Masakazu; IRIE, Masahiro

Chair: YOKOYAMA, Yasushi (16 : 00 ~ 17 : 00)

\* 15:50-16:00: interval for laptop PC connection.(1G6-43, 1G6-44, 1G6-45, 1G6-46, 1G6-48)

**1G6-43** Supramolecular self-assembly and photochromic property of a melamine-linked diarylethene (Chiba Univ.) OHTA, Keisuke; YAGAI, Shiki; KITAMURA, Akihiko; KARATSU, Takashi

**1G6-44** Fabrication and Photo-induced Mechanical Motion of Electrospun Fibers (KAST; Tokyo Univ. of Science) NAKATA, Kazuya; ISHIKAWA, Yusuke; KIMURA, Hiroaki; OCHIAI, Tsuyoshi; MURAKAMI, Taketoshi; FUJISHIMA, Akira

**1G6-45** Photoinduced Vitrification near the Surfaces of Single Crystals of 4-[Bis(9,9-dimethylfluoren-2-yl)amino]azobenzene Derivatives (Osaka Univ.) NAKANO, Hideyuki; SEKI, Shu; KAGEYAMA, Hiroshi

**1G6-46\*** Mechanism of Photomechanical Function of Salicylideneaniline Crystals (Ehime Univ.) TAKECHI, Kyoko; SHIRO, Motoo; HASHIZUME, Daisuke; UCHIMOTO, Hidetaka; KOSHIMA, Hideo

**1G6-48** Photomechanical Bending of Anthrylmethyleneindanone Crystals (Ehime Univ.) UCHIMOTO, Hidetaka; MATSUO, Risa; KOSHIMA, Hideo

Chair: UCHIDA, Kingo (17 : 10 ~ 18 : 10)

\* 17:00-17:10: interval for laptop PC connection.(1G6-50, 1G6-52, 1G6-53, 1G6-54, 1G6-55)

**1G6-50\*** Synthesis of Anthracene Derivatives Vitrifying by Photodimerization and Their Application to Photopatterning (AIST nanotech) KIHARA,

Hideyuki; YOSHIDA, Masaru

- 1G6-52** Changes in the Surface Morphology of HABI Crystals upon Photoirradiation (Ehime Univ.) KOSHIMA, Hideko; FUJIMURA, Tatsuya; UCHIMOTO, Hidetaka
- 1G6-53** Photoinduced Surface Relief Formation on Thin Amorphous Films of Hexaarylbiimidazoles Derivatives (Yokohama Natl. Univ.) KOUZAI, Hiroaki; HARADA, Yukari; KIKUCHI, Azusa; YAGI, Mikio; UBUKATA, Takashi; YOKOYAMA, Yasushi; ABE, Jiro
- 1G6-54** Metal Ion Complexation-induced Isomerization Behaviors of Calix[4]arene Derivatives Bearing a Spirobenzopyran Moiety and Photocontrol of Their Metal-Ion Extraction Ability (Faculty of Systems Engineering, Wakayama Univ.) SAEDA, Megumi; MACHITANI, Koji; NAKAHARA, Yoshio; KIMURA, Keichi
- 1G6-55** Atomic Force Microscopy Observation of Stretching of Spirobenzopyran Polymer Bonded Chemically to Probe and Substrate at Each End Group. (Faculty of Systems Engineering, Wakayama Univ.) MUTOBE, So; MATSUMOTO, Yuuichi; KADO, Shinpei; NAKAHARA, Yoshio; KIMURA, Keichi

### Saturday, March 27, AM

Chair: ABE, Jiro (9:30~10:30)

- \* 9:20-9:30: interval for laptop PC connection.(2G6-04, 2G6-06, 2G6-08)
- 2G6-04\*** Photoinduced Topographical Changes of Diarylethene Microcrystalline Surface. Control of Lotus and Petal Effects (Ryukoku Univ., Hokkaido Univ., Mitsubishi Chemical Group, Science and Technology Research Center, Rikkyo Univ.) UCHIDA, Kingo; NISHIKAWA, Naoki; MAYAMA, Hiroyuki; KOJIMA, Yuku; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; TSUJII, Kaoru; IRIE, Masahiro
- 2G6-06\*** Photochromic Reaction of Diarylethene near Gold or Silver Nanoparticle (Graduate School of Engineering, Osaka City Univ.; Graduate School of Engineering, Osaka Univ.; PRESTO, JST) NISHI, Hiroyasu; ASahi, Tsuyoshi; KOBATAKE, Seiya
- 2G6-08\*** Photochromic Properties of Terarylene Dimer with Intermolecular Hydrogen-bonding (Nara Institute of Science and Technology, Graduate School of Materials Science (NAIST)) KAWAI, Shigekazu; NAKASHIMA, Takuya; FUKUMOTO, Sayo; NAKAGAWA, Hisako; KAWAI, Tsuyoshi

Chair: TSUJIOKA, Tsuyoshi (10:40~11:40)

- \* 10:30-10:40: interval for laptop PC connection.(2G6-11, 2G6-13, 2G6-14, 2G6-15, 2G6-16)
- 2G6-11\*** Photochromic behavior of unprecedented photochromic compound with C-N bond between [2.2]paracyclophane and imidazole (Aoyama Gakuin Univ.) HATANO, Sayaka; ABE, Jiro
- 2G6-13** Acceleration for thermal back-reaction for [2.2]paracyclophane-linked HABI (Aoyama Gakuin Univ.) HARADA, Yuka; HATANO, Sayaka; KIMOTO, Atsushi; ABE, Jiro
- 2G6-14** Photoisomerization of hetero-substituted [2.2]paracyclophane-linked HABI (Aoyama Gakuin Univ.) MUTOH, Katsuya; KIMOTO, Atsushi; ABE, Jiro
- 2G6-15** Percolation-type Photoswitching Behavior in Conductance of Diarylethene-Silver Nanoparticle Networks (Grad. Sch. Eng., Kyoto Univ.; Yonago National College of Technology; Rikkyo Univ.) SAKANO, Takeshi; YAMAGUCHI, Hidehiro; TANIFUJI, Naoki; IRIE, Masahiro; MATSUDA, Kenji
- 2G6-16** Conductance switching of gold nanoparticle-diarylethene network (Kyushu Univ.; Kyoto Univ.) YAMAGUCHI, Hidehiro; MATSUDA, Kenji

Chair: MATSUDA, Kenji (11:50~12:30)

- \* 11:40-11:50: interval for laptop PC connection.(2G6-18)
- 2G6-18 CSJ Award for Technical Development** Development of a High Sensitive Photoinitiator for Resin Black Matrix in Color Filter (BASF Japan) KURA, Hisatoshi; KUNIMOTO, Kazuhiko; TANABE, Jun; OHWA, Masaki

### Saturday, March 27, PM

Chair: MIYASAKA, Hiroshi (13:40~14:30)

- \* 13:30-13:40: interval for laptop PC connection.(2G6-29, 2G6-30, 2G6-31, 2G6-32, 2G6-33)
- 2G6-29** Spectral properties of closely-spaced gold nanoblocks controlled with nanometric accuracy (RIES-Hokkaido Univ.; PRESTO-JST) IKEGAYA, Shintaro; UENO, Kosei; MURAZAWA, Naoki; MISAWA, Hiroaki
- 2G6-30** Fabrication and Spectroscopic Properties of Stacked Au Nanogap Structures (RIES-Hokkaido Univ.; PRESTO-JST) AOYOH, Daisuke; MURAZAWA, Naoki; UENO, Kosei; YOKOTA, Yuki; MISAWA, Hiroaki
- 2G6-31<sup>†</sup>** Surface-Enhanced Raman Scattering signals of molecules adsorbed to nano-engineered metallic nanoparticles (Hokkaido Univ.; PRESTO-JST) YOKOTA, Yuki; UENO, Kosei; MISAWA, Hiroaki
- 2G6-32** Spectral properties of gold nanostructures fabricated by nanopatterning techniques using interference lithography. (Hokkaido Univ.; PRESTO-JST) ARAKI, Go; MURAZAWA, Naoki; UENO, Kosei; YOKOTA, Yuki; NISHIJIMA, Yoshiaki; NISHII, Junji; MISAWA, Hiroaki
- 2G6-33** Characterization of three dimensional periodic structures fabricated

by phase controlled multiple beam interference (RIES-Hokkaido Univ.; RIE-Shizuoka Univ., PRESTO-JST) EBINA, Wataru; NISHIJIMA, Yoshiaki; MIZEIKISU, Bigantas; UENO, Kosei; NISHII, Junji; MISAWA, Hiroaki

### Sunday, March 28, AM

Chair: USAMI, Hisanao (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3G6-01, 3G6-02, 3G6-03, 3G6-04, 3G6-05, 3G6-06)
- 3G6-01** Photoinduced Electron Transfer between EDTA, Ruthenium-Bipyridyl Complex, and Viologen Molecules in Clay Suspension (Tokyo Univ. of Agriculture and Technology) WATANABE, Shoko; NAKATO, Teruyuki
- 3G6-02** Efficient energy transfer between porphyrins on clay surface ~effects of adsorption density and porphyrin structure~ (Graduate Course of Molecular Urban Environment, Tokyo Metropolitan Univ.) ISHIDA, Yohei; TAKAGI, Shinsuke; MASUI, Dai; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; INOUE, Haruo
- 3G6-03** Clay-dyes complexes formation behavior by Stopped-flow method (Faculty of Urban Environmental Sciences, Tokyo Metropolitan Univ.) KONNO, Saki; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; TAKAGI, Shinsuke; INOUE, Haruo
- 3G6-04** Visible light induced electron injection inorganic/inorganic hybrid nanoscroll. (Tokyo Metropolitan Univ.) MIYAJIMA, Souki; NABETANI, Yu; SHIMADA, Tetsuya; INOUE, Haruo
- 3G6-05** Novel Amphoteric Ion Type Porphyrin/Clay Complexes Formation Behavior with Nano Layered Compound (Tokyo Metropolitan Univ.) YOGO, Yuku; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo
- 3G6-06** Fixation of Ru-complexes into Periodic Mesoporous Organo Silica and Photoinduced Energy Transfers between Them (Tokyo Tech.; Toyota Central R&D Labs., Inc.) YUI, Tatsuto; SEKIZAWA, Keita; TAKEDA, Hiroyuki; INAGAKI, Shinji; ISHITANI, Osamu

Chair: ISHITANI, Osamu (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(3G6-08, 3G6-09, 3G6-10, 3G6-12)
- 3G6-08** Photoinduced Electron Transfer in Anisotropic Langmuir-Blodgett Film of Amphiphilic Phthalocyanine-Molybdate-Viologen Hybrid (Shinshu Univ.; SORST/JST) USAMI, Hisanao; OHNO, Tatsuya; SUZUKI, Eiji
- 3G6-09** Preparation of photo-responsive Mesoporous Silica hybrid Material. (Tokyo Metropolitan Univ.) YAMAMOTO, Daisuke; NABETANI, Yu; SHIMADA, Tetsuya; YANO, Kazuhisa; INOUE, Haruo
- 3G6-10\*** Encouraged Self-repairing of 1D Molecular Assembly in Mesoporous Silica by a 'Nanosopic Template Effect' (School of Engineering, The Univ. of Tokyo) LINTANG, Hendrik; Oktendy; KINBARA, Kazushi; YAMASHITA, Takashi; AIDA, Takuzo
- 3G6-12\*** Photocatalytic hydrogen evolution from visible-light absorptive periodic mesoporous organosilica loaded with platinum (Toyota Central R&D Labs., Inc.) OHASHI, Masataka; TAKEDA, Hiroyuki; YAMANAKA, Ken-ichi; TANI, Takao; INAGAKI, Shinji

Chair: INAGAKI, Shinji (11:20~12:10)

- \* 11:10-11:20: interval for laptop PC connection.(3G6-15, 3G6-17, 3G6-18, 3G6-19)
- 3G6-15\*** Anisotropic structure and properties of nanosheet liquid crystal/poly (N-isopropylacrylamide) hybrid gel (Fukuoka Inst. Technol.) MIYAMOTO, Nobuyoshi; SHINTATE, Morio; MOTOKAWA, Ryuhei
- 3G6-17** Liquid Crystalline Phases in Colloidal Suspensions of  $K_4Nb_2O_{17}$  Nanosheets (Japan Atomic Energy Agency; Advanced Science Research Center) YAMAGUCHI, Daisuke; MIYAMOTO, Nobuyoshi; FUJITA, Takako; NAKATO, Teruyuki; KOIZUMI, Satoshi; OHTA, Noboru; YAGI, Naoto; HASHIMOTO, Takeji
- 3G6-18** Synthesis of anisotropic hydrogels of poly(N-isopropylacrylamide) hybridized with nanosheet liquid crystal of fluorotetrasilic mica (Fukuoka Inst. Technol.) KAMACHI, Yuichiro; MIYAMOTO, Nobuyoshi
- 3G6-19** Covalent attachment of dye molecules to graphene-based carbon films. (Univ. of Hyogo) MIMURA, Taito; MATSUO, Yoshiaki; SUGIE, Yosohiro

### Sunday, March 28, PM

Chair: SASAI, Ryo (13:20~14:20)

- \* 13:10-13:20: interval for laptop PC connection.(3G6-27, 3G6-29, 3G6-31)
- 3G6-27\*** Environment-responsive upconversion in POSS-core dendrimers (Kyoto Univ.) TANAKA, Kazuo; INAFUKU, Kenichi; CHUJU, Yoshiki
- 3G6-29\*** Syntheses of Cationic Au(I) Complexes and Systematic Control of their Photoluminescence in the Crystalline State (Nara Inst. Sci. Tech.) SAITOH, Masashi; KAWAI, Tsuyoshi
- 3G6-31\*** Two-photon absorption properties of composites consisting of clay minerals and polycationic dyes under satisfying the size-matching rule (Grad. Sch. Med., Yamaguchi Univ.) SUZUKI, Yasutaka; TENMA, Yuta; KAWAMATA, Jun

Chair: NISHIZAWA, Kaori (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(3G6-34, 3G6-36, 3G6-37, 3G6-38, 3G6-39)

- 3G6-34\*** Photoexcited States of Organic UV-A Absorbers (Yokohama Natl. Univ.) KIKUCHI, Azusa; OGUCHI, Nozomi; MIYAZAWA, Kazuyuki; YAGI, Mikio
- 3G6-36** Photoexcited States of UV absorbers : Cinnamic Acid Derivatives (Yokohama Natl. Univ.) YUKIMARU, Shinsuke; KIKUCHI, Azusa; YAGI, Mikio
- 3G6-37** Emission Control of Europium(III) Complexes by redox reaction of Electrochromic Materials. (Faculty of Engineering, Chiba Univ.) KANAZAWA, Kenji; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 3G6-38** Synthesis of multi-nuclear gold(I) complex using nitrogen ligands and their photophysical properties (Ritsumeikan Univ.) FUJISAWA, Kaori; TSUTSUMI, Osamu
- 3G6-39** Highly luminiscent LB films of Ir(III) complex and clay for gas sensing (Ehime Univ.; PRESTO/JST; NIMS; Ochanomizu Univ.) SATO, Hisako; KUNYOSHII, Yushi; OHARA, Keishi; NAGAOKA, Shin-ichi; TAMURA, Kenji; YAMAGISHI, Akihiko

Chair: TANAKA, Kazuo (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(3G6-41, 3G6-43, 3G6-44, 3G6-45, 3G6-46)
- 3G6-41\*** Humidity Response of Luminous Dyes Incorporated in LDH Nano-Interlayer Space (Nagoya Univ.; Shimane Univ.) SASAI, Ryo; MORITA, Michio
- 3G6-43** Structure and time-resolved photoluminescence of coumarin/cyanine integrated systems (Natl. Inst. Mater. Sci.) FUJII, Kazuko; KURODA, Takashi; SAKODA, Kazuaki; IYI, Nobuo
- 3G6-44** Synthesis of cyclometalated Iridium(III) complexes within layered silicates and its light-emitting property (Tokyo Institute of Technology; Graduate School of Science and Engineering) SUGIYAMA, Motohiko; XU, Chen; MOCHIZUKI, Dai; WADA, Yuji
- 3G6-45** Temperature-dependent Spectroscopic Characteristics of Clusters of Organic Molecules Adsorbed on the Surface of Clay Layers (Yamaguchi Univ.) YAMAMOTO, Kota; MATSUNAGA, Ryoya; SUZUKI, Yasutaka; KAWAMATA, Jun
- 3G6-46** Control of Aggregation Structures of Gold Nanoparticles with Photoresponsive Liquid Crystals (Ritsumeikan Univ.) YAMAMOTO, Keitarou; KURANARI, Asuna; FUJISAWA, Kaori; HASHISHIN, Takeshi; YOGI, Chihiro; KOJIMA, Kazuo; TSUTSUMI, Osamu

Chair: SATO, Hisako (16 : 50~17 : 40)

- \* 16:40-16:50: interval for laptop PC connection.(3G6-48, 3G6-49, 3G6-51, 3G6-52)
- 3G6-48** One-Directional Alignment of Gold Nanoparticles by Surface Anchoring of Liquid Crystals (Ritsumeikan Univ.) OTA, Koji; ARISAKA, Hiromu; TSUTSUMI, Osamu
- 3G6-49\*** Micropatterning of titanium oxide via photo-triggered materials motion (National Institute of Advanced Industrial Science and Technology (AIST)) NISHIZAWA, Kaori; NAGANO, Syusaku; SEKI, Takahiro
- 3G6-51** Optical manipulation of layered superconductor Utilizing Photochromic intercalators (Keio Univ.) IKEGAMI, Aya; SUDA, Masayuki; EINAGA, Yasuaki
- 3G6-52\*** Improvement of thermal stability of *cis*-azobenzene by methylation at *ortho* positions and its mechanism (Nagoya Univ.) NISHIOKA, Hidenori; LIANG, Xingguo; ASANUMA, Hiroyuki

### Monday, March 29, AM

Chair: YAN, Hu (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4G6-01, 4G6-02, 4G6-03, 4G6-05)
- 4G6-01** Construction of a Novel Solar Cell Composed of Visible Light Induced Oxygenation System. (Tokyo Metropolitan Univ.; SORST/JST) YAMAZAKI, Tatsufumi; OOKUBO, Tomoo; MASUI, Dai; SHIMADA, Tetsuya; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo
- 4G6-02** Examination of Electron Transport in p/n Conjugated Semiconductor Nano-particle-Dye Sensitizer System toward Artificial Photosynthetic System (Tokyo Metropolitan Univ.; SORST/JST) GOTO, Yu; MASUI, Dai; TACHIBANA, Hiroshi; TAKAGI, Shinsuke; INOUE, Haruo
- 4G6-03\*** Photovoltaic devices based on interfacial charge-transfer transitions from surface-bound TCNQ derivatives to TiO<sub>2</sub> (RCAST, The Univ. of Tokyo) FUJISAWA, Jun-ichi; HONDA, Norikazu; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 4G6-05\*** Mesomorphism and carrier transport property of alkylamide substituted triphenylene derivatives (AIST NRI(kansai), Osaka Univ., Sichuan Normal Univ.) MIYAKE, Yasuo; MONOBE, Hiroshiro; HU, Ping; ZHAO, Ke-qing; FUJII, Akihiko; OZAKI, Masanori; SHIMIZU, Yo

Chair: SHIMIZU, Yo (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4G6-08, 4G6-10, 4G6-12)
- 4G6-08\*** Gold Nanorod Enhanced Photocurrent Generation System from Ultraviolet to Near-infrared Wavelength (RIES, Hokkaido Univ.; PRESTO-JST; Graduate School of Science, Hokkaido Univ.) NISHIJIMA, Yoshiaki; UENO, Kosei; MURAKOSHI, Kei; MISAWA, Hiroaki
- 4G6-10\*** Fabrication and Photoelectrochemical properties of CdS Nanoparti-

- cle/ Titania Nanosheet Multilayer Film Using Layer-by-layer Deposition (Nagoya Univ.) KAMEYAMA, Tatsuya; OKAZAKI, Ken-ichi; TORIMOTO, Tsukasa
- 4G6-12\*** Liquid Crystalline Fused Porphyrin Dimers: Switchable p/n-Semiconducting Properties by Substitution Pattern of the Side Chains (The Univ. of Tokyo; National Institute for Materials Science; Kyoto Univ.; Osaka Univ.) SAKURAI, Tsuneaki; TASHIRO, Kentaro; OSUKA, Atsuhiko; SAEKI, Akinori; SEKI, Shu; AIDA, Takuzo

Chair: IINO, Hiroaki (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(4G6-15, 4G6-16, 4G6-17, 4G6-18)
- 4G6-15** Carrier mobility of 1,4,5,8,9,12,13,16-hexaalkylphthalocyanine homologues (AIST NRI (Kansai);Osaka Univ.) SHIMIZU, Yo; MIYAKE, Yasuo; OKADA, Keizou; FUJII, Akihiko; OZAKI, Masanori
- 4G6-16** Carrier doping and transport properties at contact interface between organic crystals (Hokkaido Univ.) TAKAHASHI, Yukihiro; HAYAKAWA, Kei; NAITO, Toshio; INABE, Tamotsu
- 4G6-17** Low-voltage Organic FET Fabricated Using SrTiO<sub>3</sub> as a High-k Dielectric Insulator (Univ. of Yamanashi) JO, Toshihiko; YAN, Hu; OKUZAKI, Hidenori
- 4G6-18\*** Organic Field effect Transistors Comprised of Synthetic Metal-based Nanocrystals (NICT-KARC, JST-PRESTO) HASEGAWA, Hiroyuki; UEMATSU, Kouji; OTOMO, Akira

### Monday, March 29, PM

Chair: MIYATA, Mikiji (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(4G6-27, 4G6-29, 4G6-31)
- 4G6-27\*** Mechanoluminescent ubiquitous light source; Ultrasonic wave induced mechanoluminescence (National Institute of Advanced Industrial Science and Technology) TERASAKI, Nao; YAMADA, Hiroshi; XU, Chao-nan
- 4G6-29\*** Material's design concept for reversible saturable absorber responded by weak incoherent light. (Center for Future Chemistry, Kyushu Univ.) HIRATA, Shuzo; TOTANI, Knro; ADACHI, Chihaya
- 4G6-31\*** Indium Tin Oxide Nanoparticles with Compositionally Tunable Surface Plasmon Resonance Frequencies in the Near IR Region (Univ. of Tsukuba) KANEHARA, Masayuki; KOIKE, Hayato; YOSHINAGA, Taizo; TERANISHI, Toshiharu

Chair: ITOH, Yoshihiro (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(4G6-34, 4G6-35, 4G6-36, 4G6-38, 4G6-39)
- 4G6-34** Guest-dependent luminescent switching system in the solid state of 9,10-anthracene derivatives (Graduate School of Engineering, Osaka Univ.) SUGINO, Misa; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 4G6-35** The regulation of molecular assemblies based on ammonium anthracenedisulfonate and TCNB by self-assembly process and their photoelectron properties (Graduate School of Engineering, Osaka Univ.) TOHNAI, Norimitsu; NAKAJIMA, Hiromi; HISAKI, Ichiro; MIYATA, Mikiji
- 4G6-36\*** Development of Alternating Magnetic Field Induced Aqueous chromatography System to Separate Bioactive Compounds (NIMS) YAGI, Hisashi; EBARA, Mitsuhiro; YAMAMOTO, Kazuya; AOYAGI, Takao
- 4G6-38** Oxygen intake/release characteristics of double-perovskite manganese oxide BaYMn<sub>2</sub>O<sub>5+δ</sub> (Hokkaido Univ.) UEDA, Taku; MOTOHASHI, Teruki; MASUBUCHI, Yuji; KIKKAWA, Shinichi
- 4G6-39** Selective separation of heavy metals by nitrogen donor multidentate ligands bearing pyrazine rings (Chemical Resources Laboratory, Tokyo Tech) KUWAE, Daiki; INABA, Yusuke; MORI, Atsunori; TAKESHITA, Kenji

Chair: TOHNAI, Norimitsu (15 : 40~16 : 30)

- \* 15:30-15:40: interval for laptop PC connection.(4G6-41, 4G6-42, 4G6-43, 4G6-44, 4G6-45)
- 4G6-41** Metal Ion Adsorption Properties of Pyridine-Bridged Periodic Mesoporous Organosilica (Toyota Central R&D Labs., Inc.; JST/CREST) WAKI, Minoru; MIZOSHITA, Norihiro; TANI, Takao; INAGAKI, Shinji
- 4G6-42** Surfactant Dependence on Solvent Extraction with Alkali-Hydrolyzable Surfactants (Shinshu Univ.) ITOH, Yoshihiro; KAGEYAMA, Zenichi
- 4G6-43** Fabrication of Palladium Nanoparticle Supported Epoxy Resin Monolith and its Application for the Column Reactor (Osaka Municipal Technical Research Institute;Osaka Institute of Technology) TOMITA, Akira; WATANABE, Mitsuru; WATASE, Seiji; TAMAI, Toshiyuki; MASUYAMA, Araki; MATSUKAWA, Kimihiro
- 4G6-44** Disruption of reverse micelle and release of trapped ribonuclease induced by photoisomerization of Malachite Green derivative (Nara National College of Technology) NISHIKAWA, Tsuyoshi; UDA, Ryoko
- 4G6-45** Solute Separation Control of Polypyrrole/Acetylcellulose Composite Membranes (Osaka Municipal Tech. Res. Inst.) MORITA, Mitsuyuki



**Room G7**

Bldg.17 17-403

**Applications of Materials**

Friday, March 26, AM

**High Performance Material**

Chair: FUJIWARA, Masahiro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1G7-01, 1G7-02, 1G7-03, 1G7-05, 1G7-06)

**1G7-01** Fire retarding treatment of polyolefin resin using sodium polyborate (Kanazawa Institute of Technology) KUMAGAI, Takenori; MIURA, Yuichiro; TSUYUMOTO, Isao**1G7-02** Study on the Thermal Conductivity of MgO Filler for Synthetic Resins (Industrial Technology Center of Okayama Prefecture) NIGO, Hideyuki; MITSUISHI, Kazuta; YONEDA, Tatsunaka; FUNABASHI, Naoki; FUJIWARA, Kei; KOBAYASHI, Jun**1G7-03\*** The Development of Gemini-Quaternary Ammonium Compound-Adsorbed Inorganic-Organic Hybrid as an Antimicrobial Material (Graduate School, Institute of Technology and Science, The Univ. of Tokushima) SHIRAI, Akihiro; ITOH, Yuka; MASEDA, Hideaki; KOURAI, Hiroki**1G7-05** Preparation and Evaluation of Polysilsesquioxane Films Dispersed Gold Nanoparticles (Osaka Municipality Tech. Res. Inst.; Osaka Inst. of Tech.) MOTOHISA, Yuta; TAMAI, Toshiyuki; MASUYAMA, Araki; MATSUKAWA, Kimihiro**1G7-06** Microwave-Assisted One-Pot Synthesis of Luminescent Organic-Inorganic Hybrids via Simultaneous Reaction of Sol-Gel Process and Suzuki Coupling (Kyoto Univ.; Matsumoto Yushi-Seiyaku Co.,Ltd.) KAJIWARA, Yuichi; NAGAI, Atsushi; CHUJO, Yoshiki**Battery,Energy**

Chair: INOUE, Hiroshi (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1G7-08, 1G7-09, 1G7-10, 1G7-11, 1G7-12, 1G7-13)

**1G7-08** Group IV and V metal nitride nanoparticles prepared with urea as a precursor for electrocatalysts of PEFC (The Univ. of Tokyo) OHNISHI, Ryohji; YAO, Wei-tang; TAKANABE, Kazuhiro; KUBOTA, Jun; DOMEN, Kazunari**1G7-09** Preparation of Poly(styrenesulfamide acid)-Grafted Polysulfones for a Highly Proton Conducting Membrane (Dept. Appl. Chem., Waseda Univ.) HIROSE, Koji; OKAYASU, Teruyuki; NISHIDE, Hiroyuki**1G7-10** Control of ion exchange capacity of hydrocarbon polymer electrolytes and their properties (Dept. Mat. Life Sci., Sophia Univ.) TAKAHASHI, Satoshi; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro**1G7-11** Theoretical Study of Mechanism of Proton Conducting in ZrP System of Membrane in PEMFC (Dept. of Chemical System Engineering, The Univ. of Tokyo) OGAWA, Takaya; USHIYAMA, Hiroshi; YAMASHITA, Koichi; LEE, Ju-myeong; YAMAGUCHI, Myeirin**1G7-12** Effect of the hydrophobic structure of polyphenylene-type polyelectrolyte membrane on water diffusion in the membrane (FC-Cubic, AIST) KIDENA, Koh; SEESUKPHRONRARAK, Surasak; OHKUBO, Takahiro; OHIRA, Akihiro**1G7-13** Oxygen Reduction Catalytic Activity of Pt Clusters Synthesized Dendrimer as a Template (International Christian Univ., Keio Univ.) OMURA, Saori; CHUN, Wang-jae; SONOI, Atsunori; IMAOKA, Takane; YAMAMOTO, Kimihisa**Battery,Energy**

Chair: XU, Qiang (11 : 20~12 : 00)

\* 11:10-11:20: interval for laptop PC connection.(1G7-15, 1G7-16, 1G7-17)

**1G7-15** Preparation of Pt/Rh/SnO<sub>2</sub> nanoparticles catalysts and their activity for ethanol oxidation (Osaka Pref. Univ.) TAKASE, Tomonori; HIGUCHI, Eiji; INOUE, Hiroshi**1G7-16\*** Carbon supported Cobalt-tungsten nitride as Pt-free electrocatalysts: Synthesis and cathodic activity (Tokyo Univ of Agric and Tech (BASE)) SHAMSUL, Izhar; ANDO, Tomoyuki; NAGAI, Masatoshi**1G7-17\*** Fabrication and evaluation of non-platinum catalytic electrodes for alkaline direct alcohol fuel cells (College of Life Sciences, Ritsumeikan Univ.) HIRAKI, Yasuhiro; IKEDA, Shingo; KOJIMA, Kazuo; MATSUOKA, Masao

Friday, March 26, PM

**Electronic Parts**

Chair: RIKUKAWA, Masahiro (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(1G7-28, 1G7-32)

**1G7-28 CSJ Award for Technical Development** Development and Commercialization of High Performance Positive Photosensitive Polyimide Coatings by Using Novel Partial Esterification (Toray Industries, Inc.) TOMIKAWA, Masao; YUBA, Tomoyuki; YOSHIDA, Satoshi; SUWA, Mitsuhiro; SUZUE, Shigeru**Battery,Energy****1G7-32\*** Synthesis and Nanostructure Control of All-conjugated Diblock Copolymers for the Application of Organic Electronic Devices (The Univ. of Tokyo) ZHANG, Yue; TAJIMA, Keisuke; HASHIMOTO, Kazuhito

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

\* 14:30-14:40: interval for laptop PC connection.(1G7-35, 1G7-36, 1G7-37, 1G7-38, 1G7-39, 1G7-40)

**1G7-35** Development of Efficient Squarylium Dyes Having Higher Power Conversion Efficiency of Dye-Sensitized Solar Cells (Graduate School of Engineering, Osaka Pref. Univ.) KITO, Hisashi; SHIMA, Naoki; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki**1G7-36** Synthesis of Novel Dyes Consisting of Benzodithiophene and Squaraines for Bulk Heterojunction Solar Cells (Graduate School of Engineering, Osaka Pref. Univ.) OMORI, Takuya; TUJISAWA, Takuya; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki**1G7-37** Development of Dye-sensitized Solar Cells using Amphiphilic Organic Dyes composed of Fullorene and Benzothiadiazole (Fac. Textile Sci. Technol., Shinshu Univ.) KARASAWA, Masayoshi; GOTO, Ryota; MORI, Shogo; KIMURA, Mutsumi**1G7-38** Development of High-Performance Photovoltaic Devices Using an Amorphous Molecular Material with a High Hole Drift Mobility as an Electron Donor (Faculty of Engineering, Osaka Univ.; Center for Advanced Science and Innovation, Osaka Univ.; Fukui Univ. Technol.) KAGEYAMA, Hiroshi; OHISHI, Hitoshi; TANAKA, Masatake; OHMORI, Yutaka; SHIROTA, Yasuhiko**1G7-39** Fabrication of organic solar cells using disk-like molecules having oligothiophene side chain (Shinshu Univ.) TAKEMOTO, Keisuke; KIMURA, Mutsumi; SHIRAI, Hirohisa**1G7-40** Dye Sensitized Solar Cell Using Nitroxide Radicals as a Redox Mediator (Dept. Appl. Chem., Waseda Univ.) KIKUCHI, Akitomo; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

Chair: SAKURAI, Yoshiaki (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(1G7-42, 1G7-43, 1G7-45, 1G7-47)

**1G7-42** Bulk Heterojunction Solar Cells Composed of Novel Conjugated Polymers Containing Imide-Fused Thiophenes in the Backbone (Kyoto Univ., Grad School of Eng.; iCeMS; Kyoto Univ., Inst. of Adv. Energy) ODOI, Masaaki; UMEYAMA, Tomokazu; MATANO, Yoshihiro; YOSHIKAWA, Osamu; SAGAWA, Takashi; YOSHIKAWA, Susumu; IMAHORI, Hiroshi**1G7-43\*** First principle analysis on hydrogen storage property of bcc alloys (Toyota Motor Corporation; Toyota Central R&D Labs., Inc.; Toyota Technical development Corporation) KAWAMURA, Yoshiumi; MIWA, Kazutoshi; SHINOSAWA, Tamio; ISHIKIRIYAMA, Mamoru; MATSUDA, Kenro**1G7-45\*** Electrochemical Characterization of Graphene Sheets Prepared by Chemical Delamination Method (Osaka Pref. Univ.) HIGUCHI, Eiji; UEEDA, Satoshi; INOUE, Hiroshi**1G7-47** Synthesis of novel crystalline organic lithium ion electrolyte having one-dimensional conductive path (Nagoya Univ.) KITAGUCHI, Hiro; MORIYA, Makoto; SAKAMOTO, Wataru; YOGO, Toshinobu

Chair: KURIYAMA, Nobuhiro (17 : 00~17 : 30)

\* 16:50-17:00: interval for laptop PC connection.(1G7-49, 1G7-50)

**1G7-49** Low-barrier lithium ion conductive polymer electrolytes having novel coordination site (Graduate School of Science, Osaka Univ.) IWAGUCHI, Noriaki; OKAMURA, Taka-aki; YAMAMOTO, Hitoshi**1G7-50\*** Preparation and application of ionic-liquid/R-MgX mixture as electrolyte for rechargeable magnesium batteries (Yamaguchi Univ.) KAKIBE, Takeshi; YOSHIMOTO, Nobuko; EGASHIRA, Minato; MORITA, Masayuki

Saturday, March 27, AM

**Adhesive,Surface-active Agent**

Chair: MATSUKAWA, Kimihiro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2G7-01, 2G7-02, 2G7-03, 2G7-04, 2G7-05, 2G7-06)

**2G7-01** Preparation and Application of Novel Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Aromatic Siloxane Nanocomposites (Hirosaki Univ.) GOTO, Yuki; SAWADA, Hideo**2G7-02** Preparation and Thermal Stability of Fluoroalkyl End-capped Acrylic Acid Oligomers/Silica Nanocomposites-encapsulated A Variety of Guest Molecules (Hirosaki Univ.) KIKUCHI, Mieko; SAWADA, Hideo**2G7-03** Thermal Stability of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica Nanocomposites-Encapsulated A Variety of Low-Molecular

Weight Aromatic Compounds (Hirosaki Univ.; Nippon Chemical Industrial Co.,Ltd.) MATSUKI, Yusuke; GOTO, Yuki; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

**2G7-04** Preparation and Thermal Stability of Perfluoro-1,3-propanedisulfonic Acid/Silica Nanocomposites-encapsulated Low-Molecular Weight Organic Compounds (Hirosaki Univ.) LIU, Xinlai; GOTO, Yuki; SAWADA, Hideo

**2G7-05** Preparation and Thermal Stability of A Variety of Ionic Liquids/Silica Nanocomposites (Hirosaki Univ.) SASAKI, Takahiro; OKADA, Yoshitaka; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

**2G7-06** Preparation and Properties of Novel Fluorinated Oligomers/Polyaniline Nanocomposites (Hirosaki Univ.) TSUDZUKI-ISHI, Taiki; KIJIMA, Tetsushi; SAWADA, Hideo

Chair: MASUYAMA, Araki (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(2G7-08, 2G7-10, 2G7-11, 2G7-12, 2G7-13)

**2G7-08\*** Synthesis and evaluation of dismantlable adhesive materials containing polyperoxides (Graduate School of Engineering, Osaka City Univ.) SATO, Eriko; TAMURA, Hiroshi; MATSUMOTO, Akikazu

**2G7-10** Preparation of Cross-linked Fluoroalkyl End-capped Cooligomeric Nanocomposites-Encapsulated Palladium and Applications of These Nanocomposites to Suzuki-Miyaura Cross-Coupling Reaction (Hirosaki Univ.; Nippon Chemical Industrial Co.,Ltd.) KIJIMA, Tetsushi; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

**2G7-11** Preparation of Novel Fluoroalkyl End-capped Oligomeric Nanocomposites-encapsulated Organic Photochromic Compounds (Hirosaki Univ.) IZUMI, Shunsuke; GOTO, Yuki; SAWADA, Hideo

## Life Science

**2G7-12** Control of photoexcited state of the electron donor-connecting porphyrin through an interaction with DNA (Shizuoka Univ.) HIRAKAWA, Kazutaka

**2G7-13** Synthesis of partially chlorinated fullerenols and their allergen removal ability (Graduate School of Engineering, Osaka Univ.; Totai Co., Ltd.) MORITA, Itsuka; KOKUBO, Ken; NOGUCHI, Takeshi; OSHIMA, Takumi

## Medicine,Pesticide

Chair: OOSHIMA, Takumi (11:20~12:00)

\* 11:10-11:20: interval for laptop PC connection.(2G7-15)

**2G7-15 CSJ Award for Technical Development** Discovery and Development of a Novel Pyrethroid Insecticide Metofluthrin (Sumitomo Chemical Co.,Ltd.) UJIHARA, Kazuya; MATSUO, Noritada; MORI, Tatsuya; IWASAKI, Tomonori; SHONO, Yoshinori

## Saturday, March 27, PM

### Environmental material

Chair: SAWADA, Hideo (13:30~14:20)

\* 13:20-13:30: interval for laptop PC connection.(2G7-28, 2G7-30, 2G7-32)

**2G7-28\*** Thermal stabilization of lignophenol by acylation (Graduate School of Bioresources, Mie Univ.) AOYAGI, Mitsuru; FUNAOKA, Masamitsu

**2G7-30\*** Estimation of Breakthrough Time of Activated Carbon Bed by the Wood's Model Using Extension of the Wheeler-Jonas Equation (National Institute of Occupational Safety and Health, Japan) ABIKO, Hironobu; FURUSE, Mitsuya; TAKANO, Tsuguo

**2G7-32** Synthesis, properties and degradability of cationic ionomers based on poly(L-lactide) (Hiroshima Univ.) TODA, Yosuke; INABA, Takamichi; NAKAYAMA, Yuushou; CAI, Zhengguo; SHIONO, Takeshi

## Sunday, March 28, AM

### Sensor

Chair: NAKAZUMI, Hiroyuki (9:00~10:00)

\* 8:50-9:00: interval for laptop PC connection.(3G7-01, 3G7-02, 3G7-03, 3G7-04, 3G7-05)

**3G7-01** Thermo-Sensitivity of Luminescence of Phosphorus-Containing Phenylterpyridine-Europium Complex/Silica Composites (Faculty of Engineering, Kanagawa Institute of Technology; Chemical Resources Laboratory, Tokyo Institute of Technology) KONDO, Masaki; MAKIOKA, Yoshikazu; TAKAMURA, Takeji; TANIGUCHI, Yuki

**3G7-02** Development of VOCs recognition film used by thiophene derivatives having functional side chain. (Shinshu Univ.) SAKAI, Ryosuke; FUKAWA, Tadashi; KIMURA, Mutsumi; MIHARA, Takashi

**3G7-03** Molecular recognition of VOCs by Calixarene derivatives/PDMS composite films on QCM (Shinshu Univ.) YOKOKAWA, Mei; FUKAWA, Tadashi; KIMURA, Mutsumi; MIHARA, Takashi

**3G7-04** Effect of humidity to metal oxide type high sensitive VOC sensors (National Institute of Advanced Industrial Science and Technology (AIST)) ITOH, Toshio; MATSUBARA, Ichiro; SHIN, Woosuck; IZU, Noriya; NISHIBORI, Maiko; TAMAKI, Jun; KANEMATSU, Kenji; KADOSAKI,

Masahiro; SAKAI, Yuichi

## Representation

**3G7-05\*** Development of Emission-Coloration dual-mode cell using electrochemical reaction (Graduate School of Advanced Integration Science, Chiba Univ.) WATANABE, Yuichi; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

Chair: NAKANO, Hideyuki (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(3G7-08, 3G7-09, 3G7-10, 3G7-11, 3G7-12, 3G7-13)

**3G7-08** Black-coloring and bleaching properties of TiO<sub>2</sub>-NiO EC cell. (Faculty of Engineering, Chiba Univ.) KOBAYASHI, Kanae; ARAKI, Shingo; IMAMURA, Airo; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

**3G7-09** Black-Clear Electrochromic Properties of Leuco dye Derivatives. (Faculty of Engineering, Chiba Univ.) SHIMADA, Tsuyoshi; IMAIZUMI, Kinji; TANAKA, Satomi; WATANABE, Yuichi; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

**3G7-10** Effects of Diketonate Ancillary Ligands on Photoluminescence Properties of Bis-cyclometalated Iridium(III) Complexes (Osaka Pref. Univ.; Technology Research Institute of Osaka Prefecture) IKAWA, Shigeru; ASUKA, Hotaka; TSUJIMOTO, Hidetaka; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki

**3G7-11** Color Tuning of Electrophosphorescence of Bis-cyclometalated Iridium(III) Complexes by Employing a Series of Diketonate Ancillary Ligands (Osaka Pref. Univ.; Technology Research Institute of Osaka Prefecture) ASUKA, Hotaka; IKAWA, Shigeru; TSUJIMOTO, Hidetaka; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki

**3G7-12** Excimer Emission from the Phosphorescent Cyclometalated Platinum (II) Complex Bearing a  $\pi$ -Extended Cyclometalating Ligand (Osaka Pref. Univ.; Technology Research Institute of Osaka Prefecture) SHIGEHIRO, Tatsuya; TSUJIMOTO, Hidetaka; TERAOKA, Hiroto; ASUKA, Hotaka; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki

**3G7-13** Emission and Electrochemical Properties of AC-operated ECL Cell with Gel Electrolyte (Faculty of Engineering, Chiba Univ.) SUGIMOTO, Sunichi; NOBESIMA, Taiki; TAKASE, Mitsuo; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

Chair: SHIMIZU, Yo (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(3G7-15, 3G7-17)

**3G7-15\*** Modular Synthesis of 1*H*-Indene and Dihydro-*s*-Indacene Derivatives as New Ambipolar Materials (The Univ. of Tokyo) ZHU, Xiaozhang; MITSUI, Chikahiko; TSUJI, Hayato; NAKAMURA, Eiichi

**3G7-17 CSJ Award for Technical Development** Development and Industrialization of Novel Alignment Films with Steroidal Structure for Liquid Crystal Display Televisions (JSR Corp.) MATSUKI, Yasuo; NISHIKAWA, Michinori; KAWAMURA, Shigeo; YAMAMOTO, Keiichi; MUTSUGA, Yasuaki

## Sunday, March 28, PM

### coating material

Chair: MATSUI, Masaki (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(3G7-28, 3G7-29, 3G7-30, 3G7-31, 3G7-32, 3G7-33)

**3G7-28** Synthesis and Optical Properties of Tripodal Squarylium Dyes (Graduate School of Engineering, Osaka Pref. Univ.) ARIKAWA, Shigeki; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

**3G7-29** Substituent Effect of Squarylium Dyes on the Formation of Dye-Human Serum Albumin Complex (Graduate School of Engineering, Osaka Pref. Univ.) IWATA, Noriko; SHIMA, Naoki; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

**3G7-30** Synthesis of Novel Unsymmetrical Squarylium Dyes Containing Anthracene Moiety and Their Application to Functional Materials (Graduate School of Engineering, Osaka Pref. Univ.) HAMAMURA, Yuuto; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

**3G7-31** Color Former Organo-gel for radiation detection (2) (Saitama Univ.; TMITRI) SEKINE, Yoshiyuki; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya

**3G7-32** Water-Soluble Phenoazine-Type Color Former for Radiation Detection System (Saitama Univ.; TMITRI) SHIMOYAMA, Masanori; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya

**3G7-33** Evaluation of Thermosensitive Fluorescence Recording (TFR) Materials (Tokyo Univ. of Agri. and Tech.) TERAYAMA, Naoki; HIRATA, Shuzo; WATANABE, Toshiyuki

Chair: NAKAMURA, Kazuki (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(3G7-35, 3G7-36, 3G7-37, 3G7-38, 3G7-39, 3G7-40)

**3G7-35** Liquid azo dyes (Gifu Univ.) KASUGAI, Ryohei; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui

- 3G7-36** The application of thiophene ring fused BODIPY dyes to a zinc oxide dye sensitized solar cell (Fac. Eng., Gifu Univ.) KUBOTA, Yasuhiro; KUSABA, Jun; FUNABIKI, Kazumasa; MATSUI, Masaki
- 3G7-37** Properties of Dicyanodiazepine dyes containing Ethyleneglycol Units (Gifu Univ.) NOGUCHI, Kazuma; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui
- 3G7-38** Electronic States of Fluorescent Dyes Based on a Triphenylamine Skeleton (Yokohama Natl. Univ.; Kyungpook Natl. Univ.; Chungnam Natl. Univ.) MATSUMOTO, Shinya; YAMASHITA, Minami; ETO, Ryohei; LI, Xiaochuan; KIM, Sung-hoon; SON, Young-a
- 3G7-39** Optical Properties of Novel Bisazomethine Dyes (Yokohama Natl. Univ.; Chungnam Natl. Univ.; Kyungpook Natl. Univ.) KIM, Byung-soon; KASHIBUCHI, Daisuke; MATSUMOTO, Shinya; SON, Young-a; KIM, Sung-hoon
- 3G7-40** Syntheses of amber phthalocyanine (National Institute for Materials Science) ISAGO, Hiroaki; FUJITA, Harumi; SUGIMORI, Tamotsu

Chair: UEDA, Yasukiyo (15 : 50~17 : 10)

- \* 15:40-15:50: interval for laptop PC connection.(3G7-42, 3G7-43, 3G7-44, 3G7-46, 3G7-48, 3G7-49)
- 3G7-42** The development of BODIPY dyes for a zinc oxide dye-sensitized solar cell (Fac. Eng., Gifu Univ.) KUBOTA, Yasuhiro; OZAKI, Yosuke; FUNABIKI, Kazumasa; MATSUI, Masaki
- 3G7-43** Application of substituted indoline dyes for DSSC (Gifu Univ.) SHIOTA, Takahiro; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui
- 3G7-44\*** Mechanofluorochromism of a Series of Benzofuro[2,3-c]oxazolocarbazole-type Fluorescent Dyes (Hiroshima Univ.) OYAMA, Yosuke; ITOU, Genta; KAGAWA, Yusuke; FUKUOKA, Hiroshi; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka
- 3G7-46\*** Application of the wavelength conversion film containing a fluorescent dye to tissue cultures of plants (Graduate School of Integrated Arts and Sciences, Kochi Univ.) OYAMA-EGAWA, Haruka; HAMADA, Kazutoshi; SHIMASAKI, Kazuhiko; YOSHIDA, Katsuhira
- 3G7-48** Development of the UV-protective Composite Powder with High-level Transmittance and its Application. (Nippon Menard Cosmetic Co.Ltd; Sanshin Mining and Manufacturing.Co.; National Institute of Advanced Industrial Science and Technology.) UEMATSU, Miki; OKUURA, Tomoko; ASANO, Hiroyuki; ASAI, Tsuyoshi; TAKAO, Yasumasa; NAKATA, Satoru
- 3G7-49** Influence of ultraviolet radiation on lacquer films (Meiji Univ.) OIWA, Fuminori; MIYAKOSHI, Tetsuo

## Functions of Materials

Monday, March 29, AM

Chair: IJIRO, Kuniharu (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4G7-01, 4G7-02, 4G7-03, 4G7-04, 4G7-05, 4G7-06)
- 4G7-01** Nano-space Chemistry of Organic Nanotubes (4): Activity Stabilization of Confined Proteins in Nanotube Hydrogels (NTRC-AIST, SORST-JST) KAMETA, Naohiro; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 4G7-02\*** Cationic organic nanotube as novel and efficient gene delivery vector (NTRC-AIST, SORST-JST) DING, Wuxiao; WADA, Momoyo; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 4G7-03** Tubular Assembly of Molecular Chaperon (1): One-dimensional Organization of Molecular Chaperon by the Action of Metal Ions (Department of Chemistry and Biotechnology, School of Engineering, The Univ. of Tokyo) BISWAS, Shuvendu; KINBARA, Kazushi; ISHII, Noriyuki; TAGUCHI, Hideki; AIDA, Takuzo
- 4G7-04** Tubular Assembly of Molecular Chaperon (1): Design of Stimuli-responsiveness for Advanced DDS (Department of Chemistry and Biotechnology, School of Engineering, The Univ. of Tokyo) BISWAS, Shuvendu; KINBARA, Kazushi; ISHII, Noriyuki; TAGUCHI, Hideki; AIDA, Takuzo
- 4G7-05** Tuning of the release property of magneto-responsive hybrid capsules formed with magnetic nanoparticles and lipid membrane (Nagoya Univ.) IMAI, Yuji; KATAGIRI, Kiyofumi; KOUMOTO, Kunihito
- 4G7-06** Release Property of Gelatin Microcapsule Cross-Linked by Transglutaminase (Tokyo Univ. Technol. Bionics) IKEGAMI, Satoshi; YASUHARA, Takuya; IWASAKI, Takashi; TAJIMA, Mikio; HYUGA, Masumi; OKADA, Tomoko; MINOURA, Norihiko
- Chair: MASUDA, Mitsutoshi (10 : 10~11 : 10)
- \* 10:00-10:10: interval for laptop PC connection.(4G7-08, 4G7-10, 4G7-12)
- 4G7-08\*** Development of the chemical robot that mimics living organism and analysis of the viscosity self-oscillation (Dept. of Applied Physics, Waseda Univ.) HARA, Yusuke; MAEDA, Shingo; HASHIMOTO, Shuji; YOSHIDA, Ryo
- 4G7-10\*** Preparation of fluorinated ethylene glycol displaying nanoparticles and their intracellular behaviors (Graduate School of Sci; RIES, Hokkaido Univ.) NISHIO, Takashi; NIKURA, Kenichi; MATSUO, Yasutaka; IJIRO, Kuniharu
- 4G7-12\*** Conjugation of Organic-Metallic Hybrid Polymers and DNA for application to DDS (Univ. of Tsukuba; National Institute for Materials

Science) LI, Jinghua; HIGUCHI, Masayoshi

Chair: HIGUCHI, Masayoshi (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4G7-15, 4G7-18, 4G7-20)
- 4G7-15** Young Scholar Lectures of CSJ Preparation of Functional Dendrimers for Drug Delivery System (N2RC, Osaka Pref. Univ.) KOJIMA, Chie
- 4G7-18\*** Functionalization of viral nanocapsule for pH-mediated release of target molecules (RIES, Hokkaido Univ.) OHTAKE, Noriko; NIKURA, Kenichi; SUZUKI, Tadaki; MIKUNI, Shintaro; MATSUO, Yasutaka; NAGAKAWA, Keita; KINJO, Masataka; SAWA, Hirofumi; IJIRO, Kuniharu
- 4G7-20** Denaturation and refolding of ribonuclease A in a porous silica gel (Tokai Univ.) SANO, Nobukazu; IWAOKA, Michio

**Room G8**  
Bldg.17 17-404

Polymer

Friday, March 26, PM

Biopolymer

Chair: TANAKA, Naoki (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(1G8-25, 1G8-26, 1G8-27, 1G8-28, 1G8-30)
- 1G8-25** Lectin recognition study using glycopolymer-b-poly pyridine block polymer (Tokyo Univ. of Sci.) MIDORIKAWA, Aya; ISHIDUKA, Takashi; YOSHIDA, Mari; OTSUKA, Hidenori
- 1G8-26** Characterization of in situ gel formation composed of chitosan and PEG (Tokyo Univ. of Sci.) KAWARABUKI, Nozomi; OTSUKA, Hidenori
- 1G8-27** Synthesis and encapsulation ability of POSS-containing network polymers in aqueous solutions (Kyoto Univ.) OHASHI, Wataru; KITAMURA, Narufumi; TANAKA, Kazuo; CHUJO, Yoshiki
- 1G8-28\*** Synthesis and regulation of enzymatic reaction rate of biodegradable polymers consisting of phosphate-caged fluorescein (Grad. Sch. Eng., Kyoto Univ.) KITAMURA, Narufumi; TANAKA, Kazuo; CHUJO, Yoshiki
- 1G8-30** Synthesis and Evaluation of Highly Fluorescent Polymeric Self-Assemblies as Tumor Imaging Probes (Grad. Sch. Eng., Kyoto Univ.) ORIDE, Ichiro; MIKI, Koji; MATSUOKA, Hideki; HARADA, Hiroshi; HIRAOKA, Masahiro; OHE, Kouichi

Chair: TSUKAHARA, Yasuhisa (14 : 10~15 : 20)

- \* 14:00-14:10: interval for laptop PC connection.(1G8-32, 1G8-34, 1G8-35, 1G8-36, 1G8-38)
- 1G8-32\*** Macromolecular Design of Membrane-active Antimicrobial Agents (Nara Inst. of Sci. and Technol.; Univ. of Michigan School of Dentistry) YASUHARA, Kazuma; YAMANAKA, Takeshi; IKEMATSU, Chie; KAWASAKI, Akihiro; KURODA, Kenichi; KIKUCHI, Jun-ichi
- 1G8-34** Activity Control of Antimicrobial Polymer by Metal Ion (Nara Inst. of Sci. and Technol.) IKEMATSU, Chie; REY, Matias; YASUHARA, Kazuma; KIKUCHI, Jun-ichi
- 1G8-35** Interaction of CNT-polymer Complex with Lipid Membranes and Its Antimicrobial Activity (Nara Inst. of Sci. and Technol.) KAWASAKI, Akihiro; YASUHARA, Kazuma; KIKUCHI, Jun-ichi
- 1G8-36\*** Silk-based gene delivery vehicles to contain functional peptides. (Tufts Univ., Dept of Biomedical Engineering, USA.) NUMATA, Keiji; KAPLAN, David
- 1G8-38** Interaction between DNA and poly(vinyl alcohol) carrying a Malachite Green moiety undergoing photoionization (Nara National College of Technology) KONISHI, Nao; UDA, Ryoko

Membrane

Chair: CHUJO, Yoshiki (15 : 30~16 : 20)

- \* 15:20-15:30: interval for laptop PC connection.(1G8-40, 1G8-41, 1G8-42, 1G8-43, 1G8-44)
- 1G8-40** Fluorescent Organic Base/Polymer Coating for Reversible CO<sub>2</sub> Response (Dept. Appl. Chem., Waseda Univ.) SHIBANO, Takashi; MAEDA, Itsumi; SUGA, Takeo; WATANABE, Masahiro; NISHIDE, Hiroyuki
- 1G8-41** Synthesis and Gas Permeability of Perfluoroalkrated Poly(diphenylacetylene)s by Solid-state Reaction (Graduate School of Science and Technology, Niigata Univ.) YOSIDA, Naoki; SATO, Takashi; TERAGUCHI, Masahiro; KNEKO, Takashi; AOKI, Toshiki
- 1G8-42** Synthesis of Block Copolymers Containing Imidazole/Porphyrin complex and their Microphase-separated Structure (Dept. Appl. Chem.,

Waseda Univ.) TAKAHASHI, Shusaku; EGUCHI, Masao; NAKAOKA, Iori; SUGA, Takeo; NISHIDE, Hiroyuki

**1G8-43** Free-standing microphase separated film with perpendicularly penetrated structure of cylinder - Synthesis and photocrosslinking reaction of liquid crystalline block copolymer - (Chemical Resources Laboratory Tokyo Institute of Technology) KIMURA, Taro; SUZUKI, Yukimitsu; YAMAMOTO, Takashi; HADANO, Shingo; KOMURA, Motonori; IYODA, Tomokazu

**1G8-44** Microphase segregated nanostructure of amphiphilic liquid crystalline diblock copolymer consist of hydrophilic PLA segment. (Kyoto Institute of Technology; Tokyo Institute of Technology) IZUTANI, Tasuku; KOMURA, Motonori; IYODA, Tomokazu; ASAOKA, Sadayuki

## Gel

Chair: SADA, Kazuki (16 : 30~17 : 20)

\* 16:20-16:30: interval for laptop PC connection.(1G8-46, 1G8-47, 1G8-49, 1G8-50)

**1G8-46** Development of Functional Nanogel formed with Vitamin B<sub>6</sub>-polysaccharide Conjugates (Inst. of Biomaterial and Bioengineering, Tokyo Medical and Dental Univ.) TSUCHIDO, Yuji; SASAKI, Yoshihiro; AKIYOSHI, Kazunari

**1G8-47\*** Preparation of the Functionalized Poly(*N*-Vinyl amide) Gel by Cationization on its Surface and Controlled Release (Osaka Univ.; MEI Center) AJIRO, Hiroharu; TAKEMOTO, Yukie; AKASHI, Mitsuru

**1G8-49** Synthesis and applications of linked [3]rotaxanes (School of engineering, Kyoto Univ.) IMOTO, Rika; MAEKAWA, Tomoka; TERAOKA, Jun; HUIHARA, Tetsuaki; TSUJI, Yasushi

**1G8-50** Synthesis of insulated molecular wire through polymerization of linked [3]rotaxane (Grad. Sch. Eng., Kyoto Univ.) WADAHAMA, Akihisa; TERAOKA, Jun; FUJIIHARA, Tetsuaki; TSUJI, Yasushi

Chair: TSUKAHARA, Yasuhisa (17 : 30~18 : 20)

\* 17:20-17:30: interval for laptop PC connection.(1G8-52, 1G8-53, 1G8-55, 1G8-56)

**1G8-52** Thermo-Sensitive Polymers Based on Lipophilic Polyelectrolytes Bearing with Urea Groups (Grad. Sch. Eng., Kyushu Univ.) AMEMORI, Shogo; ONO, Toshikazu; SADA, Kazuki

**1G8-53\*** Association and Physical Gelation Behaviors of Lipophilic Polyelectrolytes through Crystalline Phase Transition of Long Alkyl Groups (Grad. Sch. Eng., Kyushu Univ.) ONO, Toshikazu; SADA, Kazuki

**1G8-55** Evaluation of topological defects in Tetra-PEG gels (The Univ. of Tokyo) AKAGI, Yuki; KURAKAZU, Manami; MATSUNAGA, Takuro; ISHII, Takehiko; SHIBAYAMA, Mitsuhiro; SAKAI, Takamasa; CHUNG, Ung-il

**1G8-56** Spinning Conditions of Ultra High Molecular Weight Polyethylene Nanofiber Prepared by Electro Spinning and Properties (Shinshu Univ.) FUJIMATSU, Hitoshi; NISHIHARA, Katsuhiko; TAKIZAWA, Tokihiro; USAMI, Hisanao; TAKASAKI, Midori

## Saturday, March 27, AM

### Photo Functional Polymer

Chair: ASAOKA, Sadayuki (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(2G8-07, 2G8-08, 2G8-09, 2G8-10, 2G8-11, 2G8-12)

**2G8-07** Analysis of Change in Properties on Photoinduced Motion of Crosslinked Azobenzene Liquid-Crystalline Polymers (Chemical Resources Laboratory, Tokyo Institute of Technology) SHIMAMURA, Aki; MAMIYA, Jun-ichi; SHISHIDO, Atsushi; IKEDA, Tomiki

**2G8-08** Fabrication and Photoinduced Movement of Azobenzene Liquid-Crystalline Polymers Crosslinked by Electron-Beam Irradiation (Chemical Resources Laboratory, Tokyo Institute of Technology) BANG, Sora; NAKA, Yumiko; MAMIYA, Jun-ichi; WASHIO, Masakazu; IKEDA, Tomiki

**2G8-09** Fabrication of Crosslinked Azobenzene Liquid-Crystalline Polymer Films with a Polysiloxane Backbone and Their Photoresponsive Behavior (Chemical Resources Laboratory, Tokyo Institute of Technology) SAITO, Keisuke; MAMIYA, Jun-ichi; SHISHIDO, Atsushi; IKEDA, Tomiki

**2G8-10** Synthesis and refractive index change property of cyclic siloxane derivatives containing photo-reactive groups (Kanagawa Univ.) KUBO, Masayuki; KUDO, Hiroto; NISHIKUBO, Tadatomi

**2G8-11** Photoisomerization Behavior of Poly(*m*-phenylenevinylene)s (Institute for Chemical Research, Kyoto Univ.; Toin Univ. of Yokohama) WAKIOKA, Masayuki; IKEGAMI, Masashi; OZAWA, Fumiyuki

**2G8-12** Bending Behavior of Electrospun Fibers (Kanagawa Academy of Science and Technology) ISHIKAWA, Yosuke; NAKATA, Kazuya; OCHIAI, Tsuyoshi; SAKAI, Hideki; MURAKAMI, Taketoshi; ABE, Masahiko; FUJISHIMA, Akira

Chair: KUDO, Hiroto (11 : 10~12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(2G8-14, 2G8-15, 2G8-16, 2G8-17, 2G8-18)

**2G8-14** Cooperative photoreaction reaction with continuous structure of cinnamoyl groups (Japan Advanced Institute of Science and Technology)

KANEKO, Tathuo; YASAKI, Kathuaki; KAWAKAMI, Kou; KANEKO, Daisaku

**2G8-15** Microphase segregated nanostructure of amphiphilic liquid crystalline block copolymer with porphyrin core (Kyoto Institute of Technology) YAMADA, Shunsuke; AOTANI, Masashi; KOMURA, Motonori; IYODA, Tomokazu; ASAOKA, Sadayuki

**2G8-16** Regiospecific accumulation of porphyrin on microphase segregation interface of liquid crystalline amphiphilic block copolymer (Department of Biomolecular Engineering, Kyoto Institute of Technology) AOTANI, Masashi; IYODA, Tomokazu; KOMURA, Motonori; ASAOKA, Sadayuki

**2G8-17** Development of Photomobile Materials based on Crosslinked Diarylethene Liquid-Crystalline Polymers (Chemical Resources Laboratory, Tokyo Institute of Technology) TAKASE, Noriyuki; YOKOTA, Naoki; KURIYAMA, Akito; MAMIYA, Jun-ichi; IKEDA, Tomiki

**2G8-18** Preparation and Photoresponsive Behavior of Liquid-Crystalline Polymers Crosslinked by Ionic Bonding with Azobenzene Derivatives Containing Quaternary Ammonium Salts (Chemical Resources Laboratory, Tokyo Institute of Technology) TOMITA, Ayako; MAMIYA, Jun-ichi; IKEDA, Tomiki

## Saturday, March 27, PM

### Photo Functional Polymer

Chair: KIMOTO, Atsushi (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(2G8-26, 2G8-27, 2G8-29, 2G8-30, 2G8-31)

**2G8-26** Synthesis of Novel Near-Infrared Emissive Conjugated Polymers Including Aromatic Ring-Fused Boron Dipyrromethene (BODIPY) into a Polymer Main Chain (Grad. Sch. Eng., Kyoto Univ.) YOSHII, Ryouyusuke; NAGAI, Atsushi; CHUJO, Yoshiki

**2G8-27\*** Development of Novel Luminescent Polymers Based on Carboranes (Grad. Sch. Eng., Kyoto Univ.) KOKADO, Kenta; CHUJO, Yoshiki

**2G8-29** Synthesis of Novel Conjugated Polymer Having Benzocarborane Units in Main Chain (Grad. Sch. Eng., Kyoto Univ.) TOMINAGA, Masato; KOKADO, Kenta; CHUJO, Yoshiki

**2G8-30<sup>†</sup>** Syntheses of  $\pi$ -Conjugated Polymers having Imidazolium Units in the Main Chain and their Characterization (Nara Inst. Sci. Tech.) TOBA, Masaya; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

**2G8-31<sup>†</sup>** Electrochemical Properties of Diphenylmethane Oligomers Formed by Photopolymerization between 1, 1, 1-Tribromoethane and Diphenylamine (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) KOYAMA, Fumi; YUASA, Junpei; KAWAI, Tsuyoshi

Chair: KOKUBO, Hisashi (14 : 20~15 : 20)

\* 14:10-14:20: interval for laptop PC connection.(2G8-33, 2G8-34, 2G8-36, 2G8-37, 2G8-38)

**2G8-33** Synthesis and Optical Properties of Single Molecular Wires Allowing Energy and Charge Transfer via The Through-Space Interaction (Grad. Sch. Eng., Kyoto Univ.) UENO, Shizue; LIN, Lin; MORISAKI, Yasuhiro; CHUJO, Yoshiki

**2G8-34\*** Fast photochromic polymers carrying [2.2]paracyclophane-linked HABI (Aoyama Gakuin Univ.) KIMOTO, Atsushi; TOKITA, Atsuhiko; HORINO, Takeru; OSHIMA, Toyoji; ABE, Jiro

**2G8-36** Photochromism of [2.2]paracyclophane-linked HABI polymer (Aoyama Gakuin Univ.) INABA, Kazuto; ABE, Jiro

**2G8-37** Photochromic properties of [2.2]paracyclophane-linked HABI in polymer matrices (Aoyama Gakuin Univ.) NAKAGAWA, Yuki; KIMOTO, Atsushi; ABE, Jiro

**2G8-38** Surface pressure induced poly(9,9-dioctylfluorene) (PFO)  $\beta$  phase on a water surface and polarized emission of oriented LB films. (Graduate School of Engineering, Nagoya Univ.) TOMIKAWA, Haruki; TODA, Akio; NAGANO, Shusaku; SEKI, Takahiro

Chair: MAMIYA, Jun-Ichi (15 : 30~16 : 30)

\* 15:20-15:30: interval for laptop PC connection.(2G8-40, 2G8-41, 2G8-42, 2G8-43, 2G8-44)

**2G8-40** UV curing behavior of thiol-ene photopolymers composed of polyallyl dendrimers and polythiol derivatives (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) AOKI, Ken'ichi; SUZUKI, Mayuko; ICHIMURA, Kunihiro

**2G8-41** Synthesis of Polyether-Containing Poly(fluorene-benzothiadiazole) Copolymers and Elucidation of Solution Behavior and Optical Properties of Their Solution (Yokohama Natl. Univ.) AOKI, Daisuke; KOKUBO, Hisashi; WATANABE, Masayoshi

**2G8-42** Synthesis and Refractive-Index Property of Hyperbranched Polymer Containing of Fluorine and Adamantane moieties (Kanagawa Univ.) FUJIWARA, Yusuke; KUBOTA, Ryotaro; KUDO, Hiroto; NISHIKUBO, Tadatomi

**2G8-43** Charge carrier mobility of the symmetrical molecule with phenazine framework by the time-resolved microwave conductivity measurement (Graduate School of Engineering, Osaka Univ.) FUKUMATSU, Takahiro; HONSHO, Yoshihito; ASANO, Atsushi; SEKI, Shu; ZHAN, Xiaowei

### Other Functional Polymers

**2G8-44\*** Preparation of stimuli-responsive materials by radical polymerization under ultra high pressure (Graduate School of Science and Engineering, Kagoshima Univ.) YAMAMOTO, Kazuya; YAMAGUCHI, Ryohei; AOYAGI, Takao

Chair: MORISAKI, Yasuhiro (16 : 40~17 : 30)

\* 16:30-16:40: interval for laptop PC connection.(2G8-47, 2G8-49, 2G8-50, 2G8-51)

**2G8-47\*** p-PHENYLENEDIAMINE EPOXY RESIN FILM FOR REDOX ENZYME DETECTION (Faculty of Humanity-Oriented Science and Engineering, Kinki Univ.) KANNO, Kenichi; MATSUMOTO, Yasumasu; ENDO, Takeshi

**2G8-49** Synthesis of a mendable material by using photodimerization (Inst. of Industrial Science, The Univ. of Tokyo) OYA, Nobuhiro; SUKARSAATMADJA, Petty; YOSHIE, Naoko

**2G8-50** Stereoselective Incorporation of Organic Substrates by Thermoresponsive Polymers Having Chiral Amino-alcohol Structures as Their Side Chains (Kinki Univ.) HAMANAKA, Takahiro; NAKATA, Mariko; TORISAKI, Masashi; ISHIFUNE, Manabu

**2G8-51** Synthesis and Alkali Metal Ions Inclusion Behavior of Thermoresponsive Polymers Having Crown-ether Structure as Its Side Chain (Kinki Univ.) NISHIDA, Jumpei; ISHIFUNE, Manabu

Sunday, March 28, AM

### Electric, Electronic, Magnetic Properties

Chair: SEKI, Shu (9 : 30 ~ 10 : 30)

\* 9:20-9:30: interval for laptop PC connection.(3G8-04, 3G8-05, 3G8-06, 3G8-07, 3G8-08, 3G8-09)

**3G8-04** Synthesis and Electrochemical Property of Verdazyl-substituted Polymers (Dept. Appl. Chem., Waseda Univ.) YANAGIHARA, Akane; KAWAMOTO, Takeshi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**3G8-05** Functionalizing of Carbon Nanotube with TEMPO-substituted Polynorbornene and its Electrochemical Property (Dept. Appl. Chem., Waseda Univ.) ENDO, Shogo; HARAGUCHI, Kentaro; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**3G8-06** Preparation and Performance of Solid-state Organic Radical Battery using Polymer Electrolytes (Dept. Appl. Chem., Waseda Univ.) YAMAGUCHI, Sousuke; SUKEGAWA, Takashi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**3G8-07** Optical properties and Dispersion of Single Walled Carbon Nanotubes using Helical Conjugated Polymers (Sch. Sci. Eng., Tokyo Denki Univ.) ADACHI, Naoya

**3G8-08** Stability of conductive states of polythiophene derivatives and its dependence on the structures of their side chains (Laboratory of Electronic Materials Chemistry in Graduate School of Hokkaido Univ.) AOYAMA, Yoshinori; KOIZUMI, Hitoshi

**3G8-09** Supramolecular Complex of a Donor-type Dendrimer with Fullerenes (Keio Univ.) KURAMOTO, Yasunori; KASAI, Yuto; ARUBUREHITO, Ken; YAMAMOTO, Kimihisa

Chair: MICHINOBU, Tsuyoshi (10 : 40~11 : 40)

\* 10:30-10:40: interval for laptop PC connection.(3G8-11, 3G8-12, 3G8-13, 3G8-14, 3G8-15, 3G8-16)

**3G8-11** Synthesis of Nitronyl nitroxide-substituted Polythiophenes and Fluorescent Properties (Dept. Appl. Chem., Waseda Univ.) HORIE, Takuya; SUGA, Takeo; NISHIDE, Hiroyuki

**3G8-12** Synthesis of Polyacetylene bearing Anthraquinone and its Electrochemical Characteristics (Dept. Appl. Chem., Waseda Univ.) NIIBORI, Yukina; CHOI, Wonsung; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**3G8-13** Cross-linked Polyviologen Formed by Electropolymerization and its Anode Activity (Dept. Appl. Chem., Waseda Univ.) TOMITA, Wataru; SANO, Naoki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**3G8-14** Charge transporting properties of  $\sigma$ -conjugated polymers (Graduate School of Engineering, Osaka Univ.) ASANO, Atsushi; HONSHO, Yoshihito; SEKI, Shu

**3G8-15** Quantitative analysis of electronic conductivity along the dithienopyrrole copolymer backbones (Graduate School of Engineering, Osaka Univ.) HONSHO, Yoshihito; SEKI, Shuhei; SAEKI, Akinori

**3G8-16** Influence of the Molecular Alignment of Polypeptide as a Gate Dielectric on the Memory Property of an Organic TFT Memory Device (Faculty of Engineering, Chiba Univ.) FUKUSHIMA, Tomoo; INOMATA, Takashi; NAKAMURA, Kazuki; KOBAYASHI, Norihisa; UEMURA, Sei; KAMATA, Toshihide

Sunday, March 28, PM

### Electric, Electronic, Magnetic Properties

Chair: OYAIZU, Kenichi (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(3G8-34, 3G8-37, 3G8-38,

3G8-39)

**3G8-34** Young Scholar Lectures of CSJ "Clicked" Synthesis of Donor-Acceptor Type Conjugated Polymers (Global Edge Institute, Tokyo Tech) MICHINOBU, Tsuyoshi

**3G8-37** Preparation of well-defined magnetic polymer particles by living coordination dispersion polymerization of phenoxyallene in the presence of magnetite (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) KAMINAGA, Mitsuru; TOMITA, Ikuyoshi

**3G8-38** Relation between ionic conductivity and phase of phosphonium type zwitterion/amino acid ionic liquid complex (Tokyo Univ. of Agriculture & Technology) TAGUCHI, Satomi; KAGIMOTO, Junko; OHNO, Hiroyuki

**3G8-39** Factors to control solubility of poly(ethylene oxide) in ionic liquids (Tokyo Univ. of Agriculture & Technology) TSURUMAKI, Akiko; KAGIMOTO, Junko; OHNO, Hiroyuki

Chair: TOMITA, Ikuyoshi (15 : 40~16 : 40)

\* 15:30-15:40: interval for laptop PC connection.(3G8-41, 3G8-42, 3G8-43, 3G8-44, 3G8-46)

**3G8-41** Dye Sensitized Solar Cell Using Nitronyl Nitroxide Radical as a Redox Mediator. (Dept. Appl. Chem., Waseda Univ.) KANEKO, Kei; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**3G8-42** Dye Sensitized Solar Cell Using Radical Polymer as a Redox Mediator (Dept. Appl. Chem., Waseda Univ.) HAYASHI, Chihiro; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**3G8-43** Poly (*p*-galvinoxyl styrene) and its Performance in Photo-Charge Separation (Dept. Appl. Chem., Waseda Univ.) SAITO, Takakazu; TAKAHASHI, Akira; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**3G8-44\*** Synthesis and Properties of Copper(II)-Polymer Complex with an Azoaromatic Ligand (NIMS) BANDYOPADHYAY, Anasuya; HIGUCHI, Masayoshi

**3G8-46** Withdrawn

Chair: HIGUCHI, Masayoshi (16 : 50~17 : 50)

\* 16:40-16:50: interval for laptop PC connection.(3G8-48, 3G8-49, 3G8-50, 3G8-51, 3G8-52, 3G8-53)

**3G8-48** Development of Electroless Plating Process from Photosensitive Macromolecular Metal Complexes (Fac. Textile Sci. Technol., Shinsu Univ.) YAMAGIWA, Hiroki; KAMADA, Shigenori; KIMURA, Mutsumi; SHIRAI, Hirofusa

**3G8-49** Thermally-cured TEMPO-containing Films Prepared by Michael Polyaddition and Their Electrochemical Property (Dept. Appl. Chem., Waseda Univ.) KYO, Soichi; IBE, Takeshi; NISHIDE, Hiroyuki

**3G8-50** TEMPO-substituted Polyacrylamide: Hydrophilic and Electrochemical Property (Dept. Appl. Chem., Waseda Univ.) YAMADA, Hiroshi; CHIKUSHI, Natsuru; KOSHIKA, Kenichiro; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**3G8-51** Synthesis of Block Copolymers Containing Radical / Ionic Domains toward Organic Memory Device (Dept. Appl. Chem., Waseda Univ.) SAKATA, Miki; SUGA, Takeo; NISHIDE, Hiroyuki

### Catalyst

**3G8-52\*** Synthesis of main chain chiral polymers derived from cinchonidine and their application to asymmetric reactions (Toyoashi Univ. of Technology) SALAM, Md. Abdus; PARVEZ, Md. Masud; HARAGUCHI, Naoki; ITSUNO, Shinichi

**3G8-53** Catalytic activity of mouse monoclonal antibodies (ETNF series) against human TNF- $\alpha$  (Appl. Chem., Oita Univ.) HIGASHI, Kyohei; SAITO, Eri; HIFUMI, Emi; UDA, Taizo

Room H1

Bldg.B 101

### Organic Crystals

Saturday, March 27, AM

### Chirality, Amino Acid

Chair: MATSUMOTO, Akikazu (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2H1-01, 2H1-02, 2H1-03, 2H1-04, 2H1-05, 2H1-06)

**2H1-01** Selection of 2<sub>1</sub> axes and determination of right- and left-handedness of their helices in Organic Crystalline Structures (Graduate School of Engineering, Osaka Univ.) SAKAGUCHI, Kazuaki; SHIZUKI, Norie; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji

**2H1-02** Determination of Right- and Left-Handedness<sup>(supR and supS)</sup> on Supramolecular Chirality of Hydrogen Bond Networks Formed by Ammonium Carboxylates (Graduate School of Engineering, Osaka Univ.) SASAKI, Toshiyuki; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji

- 2H1-03<sup>#</sup>** Preferential Enrichment of Amino Acids (3) (Kyoto Univ.) GONNADE, Rajesh; IWAMA, Sekai; MORI, Yuko; TAKAHASHI, Hiroki; TSUE, Hirohito; TAMURA, Rui
- 2H1-04** Laser trapping crystallization (2): Crystallization of glycine from its aqueous solution and the crystal polymorph (Nara Institute of Science and Technology) SUGIYAMA, Teruki; RUNGSIMANON, Thitiporn; YUYAMA, Ken-ichi; MASUHARA, Hiroshi
- 2H1-05** Laser trapping crystallization (3): Crystallization and accompanying phenomena of alanine (Nara Institute of Science and Technology) ISHIGURO, Kei; YUYAMA, Ken-ichi; SUGIYAMA, Teruki; MASUHARA, Hiroshi
- 2H1-06** Preparation of Thin Plate Crystals of Amino Acid Valine by Sublimation (Ehime Univ.) KOSHIMA, Hideko; MORI, Takuya; KATO, Kentaro

### Inclusion Crystal

Chair: TANAKA, Koichi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2H1-08, 2H1-09, 2H1-10, 2H1-11, 2H1-12, 2H1-13)
- 2H1-08** Crystal Structure and Alcohols inclusion Ability of Salts between *N*-Trityl Amino Acid and Amines (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; MEGUMI, Ken; MOHD ARIF, Fara Nadiyah; MATSUMOTO, Shoji
- 2H1-09** Crystal structure and curing temperature of 1,1,2,2-tetrakis(4-carboxyphenyl)ethane and imidazole derivatives. (Tokyo Institute of Technology) TAKEDA, Takenori; UEKUSA, Hidehiro; SEKINE, Akiko; AMANOKURA, Natsuki; ABE, Satoru; SAHARA, Tetsuya; SUZUKI, Hiroshi
- 2H1-10** Chiral recognition of aliphatic alcohols by supramolecular chiral host systems consisting of tartaric acid derivatives. (Saitama Univ.) SEKINE, Eriko; KODAMA, Koichi; HIROSE, Takuji
- 2H1-11** Molecular recognition and its mechanism in tetrahydroxycyclane inclusion crystals (Graduate School of Engineering, Osaka Univ.) LIU, Wentzu; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
- 2H1-12** Development of supramolecular chiral host systems derived from natural amino acids and their application to chiral recognition. (Saitama Univ.) KANNO, Ayaka; SEKINE, Eriko; KODAMA, Koichi; HIROSE, Takuji
- 2H1-13** Azacalix[5]arene Pentamethyl Ether: Crystal Structure and Gas Sorption Behavior under STP condition (Graduate School of Human and Environmental Studies, Kyoto Univ.) TSUE, Hirohito; ONO, Kohei; TOKITA, Satoshi; MIYATA, Kazuyuki; TAKAHASHI, Hiroki; TAMURA, Rui

### Crystal Structure, Molecular Structure

Chair: TOHNAI, Norimitsu (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2H1-15, 2H1-17, 2H1-19)
- 2H1-15\*** First principle lattice energy calculations for urea and hexamine crystals: Effects of dispersion energy correction by MP2 method (National Institute of Advanced Industrial Science and Technology) TSUZUKI, Seiji; ORITA, Hideo; HONDA, Kazumasa; MIKAMI, Masuhiro
- 2H1-17\*** Effects of halogen species on crystal structures and phase transition behaviors for ionic liquids with halogen-bonding groups (Graduate School of Advanced Integration Science, Chiba Univ.) MUKAI, Tomohiro; NISHIKAWA, Keiko
- 2H1-19\*** Direct Observation of Photoexcited Electron-Transferred State of 9-mesityl-10-methylacridinium Cation by Pump-Probe X-ray Structural Analysis (Tokyo Tech.; KEK-PF; Osaka Univ.) HOSHINO, Manabu; SATO, Tokushi; TOMITA, Ayana; NOZAWA, Shunsuke; OHKUBO, Kei; KOTANI, Hiroaki; FUKUZUMI, Shunichi; UEKUSA, Hidehiro; ADACHI, Shin-ichi; KOSHIHARA, Shin-ya

Saturday, March 27, PM

### Optics and Crystal, Optical Resolution

Chair: SAKAMOTO, Masami (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2H1-28, 2H1-30, 2H1-32)
- 2H1-28\*** Photomechanical Bending of Aminoazobenzene Single Crystals (Ehime Univ.) OJIMA, Naoko; MAEBARA, Tetsuya; KOSHIMA, Hideko
- 2H1-30\*** Preferential Enrichment of Amino Acids (2) (Kyoto Univ.) IWAMA, Sekai; HORIGUCHI, Masahiro; MORI, Yuko; TAKAHASHI, Hiroki; TSUE, Hirohito; TAMURA, Rui
- 2H1-32\*** Reaction and Mechanism of Intercalation Using Polydiacetylene Crystals as Host Materials (Osaka City Univ.) SHIMOGAKI, Tomoyo; MATSUMOTO, Akikazu

Sunday, March 28, AM

### Structure and Physical Property

Chair: HAYASHI, Naoto (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3H1-01, 3H1-02, 3H1-03,

3H1-04, 3H1-05, 3H1-06)

- 3H1-01** Pseudopolymorphism of an Aromatic Sulfonamide (Tokushima Bunri Univ.) SAKAI, Takahiro; MASU, Hyuma; KATAGIRI, Kosuke; TOMINAGA, Masahide; AZUMAYA, Isao
- 3H1-02** Hydrogen-Bonding Homochiral Chain Remaining in Melt of Crystal (Tokushima Bunri Univ.) AZUMAYA, Isao; MASU, Hyuma; KATAGIRI, Kosuke; TOMINAGA, Masahide
- 3H1-03** Acid-base approach to valproic acid co-crystal and the crystal structure analysis (Tokyo Institute of Technology) MIYAMOTO, Takashi; SEKINE, Akiko; UEKUSA, Hidehiro; YONEMOCHI, Etsuo; TERADA, Katsuhide
- 3H1-04** Structure, Physical Properties and Mechanoluminescence of Imide Compounds Having Trifluoromethylphenyl Group. (Interdisciplinary Grad. School of Sci., Tokyo Institute of Technology) NAKAYAMA, Hikaru; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 3H1-05** Optical Properties of 5-*t*-Butyl-2,3-dicyano-6-[4-(dialkylamino)styryl] pyrazine Derivatives in a Crystalline State (Yokohama Natl. Univ.; Musashino Univ.) ETO, Ryohei; SATO, Saori; SHINOHARA, Yohei; MATSUMOTO, Shinya; HORIGUCHI-BABAMOTO, Emi
- 3H1-06** Molecular Structures of 17,17-Dialkyl Tetrabenzo[a,c,g,i]fluorenes with Considerably High Fluorescent Quantum Yields (Graduate School of Engineering, Univ. of Hyogo) TANIGAWA, Yusuke; KITAMURA, Chitoshi; KAWASE, Takeshi

Chair: AKAZOME, Motohiro (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3H1-08, 3H1-09, 3H1-10, 3H1-11)
- 3H1-08** Structural Phase Transitions in Co-crystal of 2-Pyrrolidone-Chloranilic Acid with Hydrogen-Bonded Network (Kyushu Univ.) MORIKAWA, Shota; IKEDA, Ryuichi; ISHIDA, Hiroyuki; YAMADA, Teppei; KITAGAWA, Hiroshi
- 3H1-09** Solid-state structure of triarylphenoxy radicals (Univ. of Toyama) HAYASHI, Naoto; MORI, Takahiro; YOSHINO, Junro; HIGUCHI, Hiroyuki
- 3H1-10** Selective Storage of Alkane Isomers Based on a Hybridized Porous Coordination Polymer Crystal (Kyoto Univ.) HIRAI, Kenji; FURUKAWA, Shuhei; KITAGAWA, Susumu
- 3H1-11** Young Scholar Lectures of CSJ Pedal Motion of Organic Molecules in Crystals (Grad. Sch. of Arts and Sci., The Univ. of Tokyo) HARADA, Jun

### Solid State Photoreaction

Chair: TSUE, Hirohito (11 : 20~11 : 50)

- \* 11:10-11:20: interval for laptop PC connection.(3H1-15, 3H1-16, 3H1-17)
- 3H1-15** Solid-state photodimerization of (Z)-styrylpyridine through dynamic orientation control by cation- $\pi$  interactions (Ochanomizu Univ.) NOJIRI, Yuka; YAMADA, Shinji
- 3H1-16** Photodimerization of Chromone-2-carboxylic Acid Esters in the Solid-state (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; YAGISHITA, Fumitoshi; KANEHIRO, Masayuki; MINO, Takashi; FUJITA, Tsutomu
- 3H1-17** Photomechanical Bending of Furylfulgide Crystals (Ehime Univ.) KOSHIMA, Hideko; MIZUMOTO, Yousei; UCHIMOTO, Hidetaka

**Room H3**

Bldg.B 203

### Resources Utilization Chemistry

Sunday, March 28, AM

### Polymer • Biomass

Chair: OGINO, Chiaki (9 : 10 ~ 10 : 10)

- \* 9:00-9:10: interval for laptop PC connection.(3H3-02, 3H3-03, 3H3-04, 3H3-05, 3H3-06, 3H3-07)
- 3H3-02** PVC modification by introducing iminodiacetic acid as a new functional group (Graduate School of Environmental Studies, Tohoku Univ.) HOSOYA, Takahisa; GRAUSE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 3H3-03** Improvement of aliphatic polyester using banana fiber (Shibaura Institute of Technology; Tokyo Metropolitan Industrial Technology Research Institute) MIMOTO, Shuji; KOYANO, Yoshiaki; MURATA, Kiyoshi; YASUDA, Takeshi; KAJIYAMA, Tetsuto
- 3H3-04** Synthesis of a Poly(lactic acid) Methacrylate-type Macromonomer (R&D Center for Bio-based Materials, Kyoto Institute of Technology) ARIMOTO, Maho; ISHIMOTO, Kiyooki; OHARA, Hitomi; KOBAYASHI, Shiro; HAYATA, Yuki; ISHII, Masahiko; MORITA, Kouji; YAMASHITA, Hirofumi; YABUUCHI, Naoya
- 3H3-05** Emulsion Polymerization of a Poly(lactic acid) Methacrylate-type

Macromonomer (Kyoto Institute of Technology; R&D Center for Bio-based Materias) ISHIMOTO, Kiyooki; ARIMOTO, Maho; OHARA, Hitomi; KOBAYASHI, Shiro; HAYATA, Yuki; ISHII, Masahiko; MORITA, Kouji; YAMASHITA, Hirofumi; YABUUCHI, Naoya

- 3H3-06** Synthesis and Soap-Free Emulsion Polymerization of Nonionic Amphiphilic Macromonomers Derived from Poly(lactic acid) (Kyoto Institute of Technology R&D Center for Biobased Materials) MIMA, Kenji; OHARA, Hitomi; KOBAYASHI, Shiro; HAYATA, Yuki; ISHII, Masahiko; MORITA, Kouji; YAMASHITA, Hirofumi; YABUUCHI, Naoya
- 3H3-07** Recovery of metals from wire scrap using polyvinyl chloride as chlorination agent (Graduate School of Environmental Studies, Tohoku Univ.) FUKUSHIMA, Shoko; GRAUSE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki

Chair: AIBA, Seiichi (10:20~11:20)

\* 10:10-10:20: interval for laptop PC connection.(3H3-09, 3H3-10, 3H3-12, 3H3-13)

- 3H3-09** Oxidative degradation of CFRP and recycling of CF with NO<sub>2</sub> in scCO<sub>2</sub>. (Teikyo Univ., Dept. of Biosciences) YANAGIHARA, Naohisa; NAKAZATO, Kazuhiro
- 3H3-10\*** Development of novel bio-based branched polymers from glyceric acid derived from raw glycerol (Nat. Inst. Advanced Ind. Sci. & Tech. (AIST)) FUKUOKA, Tokuma; HABA, Hiroshi; KITAMOTO, Dai; SAKAKI, Keiji
- 3H3-12** The effect of the pH on the hydrogen production from Lactic acid by anaerobic fermentation (Graduate School of Environmental Studies, Tohoku Univ.) IGARASHI, Masashige; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 3H3-13\*** Bioethanol production from ionic liquid-pretreated cellulose by functional yeast (Dep. Chemical Science and Engineering, Graduate School of Engineering, Kobe Univ.; Organization of Advanced Science and Technology, Kobe Univ.; Biotechnology Lab., Sustainable Materials Div., Toyota Central R&D Labs., Inc.) NAKASHIMA, Kazunori; ARAI, Shogo; YAMAGUCHI, Koji; YAMADA, Ryosuke; KATAHIRA, Satoshi; ISHIDA, Nobuhiro; TAKAHASHI, Haruo; OGINO, Chiaki; KONDO, Akihiko

### Sunday, March 28, PM

Chair: KOBAYASHI, Hirokazu (14:30~15:30)

\* 14:20-14:30: interval for laptop PC connection.(3H3-34, 3H3-36, 3H3-37, 3H3-38)

- 3H3-34\*** Heating and irradiation efficiencies for depolymerization of PET bottle by microwave heating (Sojo Univ.) IKENAGA, Kazutoshi; YANASE, Jun-ichiro; IMAFUJI, Makoto; ONO, Fumiya; YAMAMOTO, Masahiro; DEKURA, Tsuyoshi; KAMEYAMA, Takehiko
- 3H3-36** Degradation of terephthalic acid during liquefaction of waste plastics using a solid acid catalyst (Nihon Univ.) ASAI, Taira; KAKUTA, Yusuke; SUGANO, Motoyuki; HIRANO, Katsumi
- 3H3-37** Improvement of the benzene yield from the pyrolysis of PET using a fixed bed reactor (Sch. Eng., Tohoku Univ.) KUMAGAI, Shogo; GURAU, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 3H3-38\***† Depolymerization of nylon 6 in ionic liquid (Yamaguchi Univ.) YAMAMOTO, Shigehiro; KAMIMURA, Akio

Chair: KAMEDA, Tomohito (15:40~16:40)

\* 15:30-15:40: interval for laptop PC connection.(3H3-41, 3H3-42, 3H3-43, 3H3-44, 3H3-45, 3H3-46)

- 3H3-41** Design of ionic liquids as solvents for cellulose in the presence of water (Tokyo Univ. of Agriculture and Technology.) HATTORI, Hiromitsu; FUKAYA, Yukinobu; OHNO, Hiroyuki
- 3H3-42** Hydrolysis of Polycarbonate with a Fluidized Bed. (Graduate School of Engineering, Hokkaido Univ.) TSUJI, Toshiro; FUKUDA, Shouhei
- 3H3-43** Hydrolysis of Cellulose by Carbon Supported Metal Catalysts (Catalysis Research Center, Hokkaido Univ.) KOMANOYA, Tasuku; KOBAYASHI, Hirokazu; HARA, Kenji; FUKUOKA, Atsushi
- 3H3-44** Study on Pyrolysis of Animal Fats for Biodiesel Production (Nihon Univ.) SAKURAI, Yusuke; SHIMIZU, Ryo; ITO, Takuya; KAKUTA, Yusuke; SUGANO, Motoyuki; HIRANO, Katsumi
- 3H3-45** Direct conversion of cellulose to alcohols and diols through hydrogenolysis (Chemical Resources Laboratory, Tokyo Institute of Technology) IKEDA, Yoichi; AKIYAMA, Katsuhiko; IWAMOTO, Masakazu
- 3H3-46** Hydrothermal reactions of glucose on Pt nanoparticle catalysts in the presence of hydrogen (Chemical Resources Laboratory, Tokyo Institute of Technology) KANIE, Yoshimi; AKIYAMA, Katsuhiko; IWAMOTO, Masakazu

### Monday, March 29, AM

Chair: SAKAMOTO, Hidefumi (9:20~10:20)

\* 9:10-9:20: interval for laptop PC connection.(4H3-03, 4H3-04, 4H3-05, 4H3-07, 4H3-08)

- 4H3-03** Development of saccharification process of rice straws using solid acidic catalysts (Tokyo Univ. of Agriculture and Technology; Department of Chemical Engineering) KANAI, Ryo; LI, Sen; QIAN, Eika; HOSOMI, Masaaki

**4H3-04** Development of novel solid acidic catalysts for saccharification of rice straw (Department of Chemical Engineering, Tokyo Univ. of agriculture and technology) LI, Sen; KANAI, Ryo; QIAN, Eika; SHAMOTO, Jun; FUKUNAGA, Tetsuya

**4H3-05\*** Algae fuel extracted from microalgae by liquefied dimethyl ether at normal temperature. (CRIEPI) KANDA, Hideki

**4H3-07** Hydrodenitrogenation of bio-oil produced from activated sludge and its reaction properties (Graduate School of Bio-Applications and Systems Engineering at Tokyo Univ. of Agriculture and Technology) UEHARA, Satoshi; SHAMSUL, Izhar; YOSHIDA, Noboru; YAMAMOTO, Yuugo; MORIOKA, Tooru; NAGAI, Masatoshi

### Carbon Resources

**4H3-08** Identification and Characterization of weathering Heavy Oil A (Tokyo Univ. of Agriculture and Technology; Coast Guard Research Center) TAKI, Masato; UNO, Toshiaki; ASAHARA, Teruyuki; NAGAI, Masatoshi

Chair: KANDA, Hideki (10:30~11:20)

\* 10:20-10:30: interval for laptop PC connection.(4H3-10, 4H3-11, 4H3-12, 4H3-13, 4H3-14)

- 4H3-10** Mass spectrometry of lignin by matrix-assisted laser desorption/ionization (Univ. of Kyoto) YOSHIOKA, Koichi; KISHIMOTO, Takao; WATANABE, Takahito; HONDA, Yoichi; WATANABE, Takashi
- 4H3-11** Oxidative Desulfurization of FCC Gasoline (Department of Chemical Engineering, Tokyo Univ. of Agriculture and Technology) AKUTSU, Misato; QIAN, Eika
- 4H3-12**† Single-event micro-kinetic model of naphtha reforming reaction (Tokyo Univ. of Agriculture and Technology; Department of Chemical Engineering) SHI, Mingliang; QIAN, Eika; WENG, Huixin
- 4H3-13** Effect of ZrO<sub>2</sub> modification of the spherical silica supports upon Ni-catalyzed decomposition of methane (Grad. Sch. Eng., Kyoto Univ.) HASHIGAMI, Satoshi; YAGASAKI, Eriko; WADA, Kenji; INOUE, Masashi
- 4H3-14** Adsorption Behavior of Gaseous Organic Compounds by Plum-Charcoal Based Adsorbents (Faculty of Systems Engineering, Wakayama Univ.) TAKAMOTO, Takehiro; SAKAMOTO, Hidefumi; KIMURA, Keiichi

## Room H4

Bldg.B 204

### Environmental and Green Chemistry, Geo and Space Chemistry

Saturday, March 27, PM

Chair: ABE, Toshiyuki (13:20~14:10)

\* 13:10-13:20: interval for laptop PC connection.(2H4-27, 2H4-28, 2H4-29, 2H4-30, 2H4-31)

- 2H4-27** Development of photocatalytic hydrogen production from aqueous methanol solution with TiO<sub>2</sub> (Mie Univ.) KISHI, Takuma; KANEKO, Satoshi; KATSUMATA, Hideyuki; SUZUKI, Tohru; OHTA, Kiyohisa
- 2H4-28** Solubilization of epoxy board by using waste biomass derived tar (AIST; Chiba Univ.) ZOU, ZhuoYi; KAMO, Tohru; YASUDA, Hajime; NAKAGOME, Hideki
- 2H4-29** The continuous generation of active oxygen species and upgrading of the device using polyaniline V (Faculty of Biomedical Engineering, Toin Univ. of Yokohama; Graduate School of Engineering, Toin Univ. of Yokohama) HORIKAWA, Keiji; KOISHI, Akihiro; SAITO, Kiyoshi
- 2H4-30** Activation of molecular oxygen in air and oxidation of cyclic ketones using polyaniline (Graduate School of Engineering, Toin Univ. of Yokohama) YAMADA, Yuki; SAITO, Kiyoshi
- 2H4-31** Effect of complexing agent on the formation of the chromate free corrosion resistant chemical conversion coating for zinc plating (Tokyo Metropolitan Industrial Technology Research Institute) URASAKI, Kaori; MIZUMOTO, Kazunari; KAJIYAMA, Tetsuo

Chair: KANEKO, Satoshi (14:20~15:20)

\* 14:10-14:20: interval for laptop PC connection.(2H4-33, 2H4-34, 2H4-35, 2H4-36, 2H4-38)

- 2H4-33** elective photooxidation of alcohol over Cu/Nb<sub>2</sub>O<sub>5</sub> catalyst (Faculty of Engineering, Kyoto Univ.) TAMURA, Ayaka; FURUKAWA, Shinya; SHISHIDO, Tetsuya; TERAMURA, Kentarou; TANAKA, Tsunehiro
- 2H4-34** Visible-light-induced-cathodic current of an organic semiconductor p-n junction and its photocatalytic cycle (Chem. Res. Lab., Tokyo Inst. Tech.) KIMISHIMA, Ichiro; YODA, Tomokazu; ABE, Toshiyuki; NAGAI, Keiji
- 2H4-35**† Fabrication of semiconductor nanoparticles with p-n junction and their properties on visible-light-response photocatalysis (Institute of Laser Engineering, Osaka Univ.; Chemical Resources Laboratory, Tokyo Institute of

Technology; Department of Frontier Materials Chemistry, Hirosaki Univ.) ZHANG, Shuai; ABE, Toshiyuki; NORIMATSU, Takayoshi; IYODA, Tomokazu; NAGAI, Keiji

- 2H4-36\*** Large scale solar photocatalytic degradation of organic pollutants (Meisei Univ., GESC) OYAMA, Toshiyuki; OOTSU, Tomohiko; SUGIYAMA, Nobuyuki; KOIKE, Takayoshi; HODAKA, Hisao  
**2H4-38** Preparation and Evaluation of Cu-Ga-S Photoelectrode for Water Splitting (The Univ. of Tokyo) ISHIHARA, Takahiro; YOKOYAMA, Daisuke; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari

Chair: TAKANABE, Kazuhiro (15:30~16:20)

- \* 15:20-15:30: interval for laptop PC connection.(2H4-40, 2H4-42, 2H4-43, 2H4-44)  
**2H4-40\***† Decomposition of malodorous substance using visible light responsive organic p-n junction semiconductors without a bias in flow system (ILE, Osaka Univ.; Chem. Res. Lab., Tokyo Tech.) YASUDA, Yuzuri; NAGAI, Keiji; NORIMATSU, Takayoshi; ABE, Toshiyuki  
**2H4-42** Performance of TiO<sub>2</sub> photocatalysts for oxidative decomposition of biomolecules (Kyushu Univ.Kyushu Univ.) KAWANAMI, Akito  
**2H4-43** Organic compound decomposition by tungsten trioxide supported on copper-palladium bimetallic cocatalyst. (TUS; Aist) TAKAHARA, Ryousaku; KONISHI, Yoshinari; SUGIHARA, Hideki; GUNJI, Takahiro; SAYAMA, Kazuhiro  
**2H4-44** Low temperature heating of amorphous TiO<sub>2</sub> treated with hydroxyl peroxide for fabricating high performance photocatalyst, and its application into acetaldehyde degradation. (Mie Pref. IRI) MASUYAMA, Kazuaki; KANECO, Satoshi; MORISAWA, Satoshi; KATSUMATA, Hideyuki; SUZUKI, Tohru; OHTA, Kiyohisa

### Sunday, March 28, AM

Chair: YOSHIDA, Masaaki (9:50~10:40)

- \* 9:40-9:50: interval for laptop PC connection.(3H4-06, 3H4-07, 3H4-08, 3H4-09, 3H4-10)  
**3H4-06** Environmentally Benign Synthesis of Heterocyclic Compounds via Cyclocondensation of 1,4-Dicarbonyls Catalyzed by Solid Acids (Osaka Univ.) HASHIMOTO, Norifumi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi  
**3H4-07** Hydroxyapatite-supported Metal Nanoparticle Catalysts for the Selective Oxidation of Silanes into Silanols in Water (Osaka Univ.) NOUJIMA, Akifumi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi  
**3H4-08** Catalytic Reduction in Aqueous Media Using Hypophosphorous Acid-Palladium System (Graduate School of High-Technology for Human Welfare, Tokai Univ.) KOJIMA, Kaori; OBA, Makoto; NISHIYAMA, Kozaburo  
**3H4-09** Hydrolysis of Disaccharides By Magnetic Nanoparticle Acid Catalyst (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) NISHIMURA, Masatoshi; NISHIMURA, Shun; TAKAGAKI, Atsushi; EBITANI, Kohki  
**3H4-10** Chemical fixation of carbon dioxide for synthesis of cyclic carbonate using Zn-hydroxalcalite catalysts (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) KOMATSU, Yosuke; IWATANI, Ken; NISHIMURA, Shun; TAKAGAKI, Atsushi; EBITANI, Kohki

Chair: MITSUDOME, Takato (10:50~11:30)

- \* 10:40-10:50: interval for laptop PC connection.(3H4-12, 3H4-13, 3H4-14, 3H4-15)  
**3H4-12** Ozone oxidation of olefin in condensed carbon dioxide (Material and Environmental Chemistry, Utsunomiya Univ.) YOSHIDA, Masaaki; ORII, Naruhito  
**3H4-13** Synthesis of 5-hydroxymethylfurfural from sugars using metal oxide nanosheet in water (Sch. of Mater. Sci, Japan Adv. Inst. of Sci. Tech.) OHARA, Mika; NISHIMURA, Shun; TAKAGAKI, Atsushi; DOMEN, Kazunari; EBITANI, Kohki  
**3H4-14** Selective Oxidation of 5-hydroxymethylfurfural Using Ru-supported Solid Catalysts (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) TAKAHASHI, Miho; OHARA, Mika; NISHIMURA, Shun; TAKAGAKI, Atsushi; EBITANI, Kohki  
**3H4-15** Selective oxidation of glycerol over hydroxalcalite supported platinum catalysts (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) TSUJI, Akihiro; NISHIMURA, Shun; TAKAGAKI, Atsushi; EBITANI, Kouki

### Asian International Symposium -Green Sustainable Chemistry

#### Sunday, March 28, PM

Chair: TATSUMI, Takashi (13:00~14:30)

- 3H4-25\*** Keynote Lecture Synthesis and Framework Al Distribution of MWW-type Aluminosilicates as Catalysts for Green Processes (Chinese Academy of Sciences) FAN, Weibin (13:00~13:30)  
**3H4-28\*** Invited Lecture Remediation of groundwater polluted with nitrate by using catalytic and photocatalytic systems (Hokkaido Univ.) KAMIYA, Yuichi (13:30~14:00)  
**3H4-31\*** Invited Lecture Development of dendritic nano catalysts for

green sustainable chemistry (Osaka Univ.) MIZUGAKI, Tomoo (14:00~14:30)

Chair: EBITANI, Kohki (14:30~15:30)

- 3H4-34\*** Keynote Lecture Shape and Composition-controlled Metallic Nanocrystals for Catalytic Applications (Yonsei Univ.) LEE, Hyunjoon (14:30~15:00)  
**3H4-37\*** Invited Lecture Development of convoluted polymeric metal catalysts in organic synthesis (RIKEN) YAMADA, Yoichi M. A. (15:00~15:30)

Chair: CHATANI, Naoto (15:50~16:50)

- 3H4-42\*** Keynote Lecture Green Chemical Processes based on Supercritical Fluid Technologies (Korea Institute of Science and Technology) KIM, Jaehoon (15:50~16:20)  
**3H4-45\*** Invited Lecture Development of highly durable Pt catalysts for PEFC; Coverage of the catalysts with silica layers (Kyushu Univ.) TAKENAKA, Sakae (16:20~16:50)

Chair: UOZUMI, Yasuhiro (16:50~17:50)

- 3H4-48\*** Invited Lecture Catalytic functionalization of C-H bonds: New Methods for silylation, alkynylation, and arylation of aromatic compounds (Osaka Univ.) TOBISU, Mamoru (16:50~17:20)  
**3H4-51\*** Invited Lecture Development of environmentally benign catalytic condensation processes based on acid-base combination chemistry (Nagoya Univ.) SAKAKURA, Akira (17:20~17:50)

### Environmental and Green Chemistry, Geo and Space Chemistry

#### Monday, March 29, AM

Chair: BANDOW, Hiroshi (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4H4-01, 4H4-02, 4H4-03, 4H4-05, 4H4-06)  
**4H4-01** Solubility and Reactivity of HCFC22 (CHF<sub>2</sub>Cl) in Water under Conditions Relevant to Combustion After-treatment System (AIST; Sanyu Plant Service Co., Ltd; Shoreline Science Research, Inc.) KUTSUNA, Shuzo; HORI, Hisao; NAGANUMA, Makoto; SHIMONO, Akio  
**4H4-02** Chemical Decomposition of Asbestos Fibers at Room Temperature (Saga Univ.; Kankyo Anetosu Co. Ltd.) TABATA, Masaaki; SHONO, Akifumi; NOTOMI, Keiichi  
**4H4-03\*** Ozonation for  $\beta$ -Lactam Antibiotics in Dairy Wastewater under Alkaline Condition (Industrial Research Inst. of Shizuoka Prefecture) OKAMOTO, Tetsuji  
**4H4-05** Efficient Degradation of Perfluorooctanesulfonate in Water Using Discharge Plasma Generated within Bubbles (Dept. of Electrical and Electronic Eng., Tokyo Institute of Technology) SASAKI, Keisuke; HAYASHI, Ryuichi; YASUOKA, Koichi  
**4H4-06** Method to Improve Measurement of Mercury in Coal Combustion Flue Gas (Kure Research Laboratory, Babcock-Hitachi K.K.) IKEMOTO, Seiji; KAI, Keiichi; KATO, Yasuyoshi; KIKKAWA, Hirofumi; NAGAI, Yoshinori

Chair: TABATA, Masaaki (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4H4-08, 4H4-09, 4H4-10, 4H4-12, 4H4-13)  
**4H4-08** Adsorptive Separation of Water-Soluble Organic Compounds with Polyelectrolytes. (Wakayama Univ.) INOUE, Hiroo; KUMAMI, Kazuhisa; MIYAZAKI, Yasumitsu; OSUGA, Hideji; KIMURA, Keiichi; SAKAMOTO, Hidefumi  
**4H4-09** Detoxification Processing on Abandonment Battery Liquidusing Scallp Shell. (Hokkaido Institute of Tech.) KISHI, Masami; ONO, Akira; MARUYAMA, Ayano  
**4H4-10\*** Decomposition of Persistent Organic Pollutants Using Metallic Calcium (Pref. Univ. of Hiroshima) MITOMA, Yoshiharu; EGASHIRA, Naoyoshi  
**4H4-12** Synthesis of Amphiphilic Polyelectrolytes to Absorb Soil Pollutant (Univ. of Hyogo Graduate School of Engineering) KAMISASHI, Yusuke; DOI, Misato; YUSA, Shin-ichi; MORISHIMA, Yotaro  
**4H4-13** Study of the accumulation and degradation of organic pollutants in the excrements of the annelids (Faculty of Science, Toho Univ.) SUGAWARA, Toshiyuki; ONOZATO, Mayu; OHSHIMA, Shigeru; FUROTA, Toshio; NISHIGAKI, Atsuko

Chair: SAKAMOTO, Hidefumi (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4H4-15, 4H4-16, 4H4-17)  
**4H4-15** New method to estimate the contribution of un-identified VOCs for OH reactivity (Faculty of Urban Sciences, Tokyo Metropolitan Univ.) KATO, Shungo; SATO, Tadashi; KAJII, Yoshizumi  
**4H4-16** A new method to evaluate oxidation potential of air sample (Faculty of Urban Sciences, Tokyo Metropolitan Univ.) MIYAZAKI, Koji; YAMAZAKI, Koji; NAKASHIMA, Yoshihiro; KATO, Shungo; KAJII, Yoshizumi  
**4H4-17\*** Analysis of time variation in atmospheric particles number using



FUMI theory, and its application to biological agents detection (Advanced Defense Technology Center, TRDI, MOD) OKADA, Tadashi; HAYASHI, Yuzuru

### Monday, March 29, PM

Chair: KOBAYASHI, Matsuo (13:10~14:10)

- \* 13:00-13:10: interval for laptop PC connection.(4H4-26, 4H4-27, 4H4-28, 4H4-29, 4H4-30)
- 4H4-26** Measurements of atmospheric HONO (Osaka Pref. Univ.) FUJIWARA, Kazuki; KUWADA, Yoshihisa; TAKENAKA, Norimichi; SADANAGA, Yasuhiro; BANDOW, Hiroshi
- 4H4-27** Ozone production efficiency at Cape Hedo, Okinawa: Evaluation using relationship between NO<sub>2</sub> and ozone concentrations (Osaka Pref. Univ.) KOBASHI, Tadashi; SADANAGA, Yasuhiro; YUBA, Akie; KATO, Shungo; KAJII, Yoshizumi; TAKENAKA, Norimichi; BANDOW, Hiroshi
- 4H4-28** Total synthesis of 17-nor-DPEP found in sedimentary rocks (Univ. of Tsukuba) ASANO, Junya; MITA, Hajime; KASHIYAMA, Yuuichirou; NOMOTO, Shinya
- 4H4-29** Measurement of polycyclic aromatic hydrocarbons(PAHs) in rain and snow (Osaka Pref. Univ.) TANIGUCHI, Tatsuya; TAKENAKA, Norimichi; SADANAGA, Yasuhiro; BANDOW, Hiroshi
- 4H4-30\*** Analyses for variations of total odd nitrogen species, gaseous nitric acid and particulate nitrate in the remote area. (Osaka Pref. Univ.) YUBA, Akie; SERA, Toshiaki; SADANAGA, Yasuhiro; TAKAMI, Akinori; HATAKEYAMA, Shirou; TAKENAKA, Norimichi; BANDOW, Hiroshi

Chair: TAKENAKA, Norimichi (14:20~15:20)

- \* 14:10-14:20: interval for laptop PC connection.(4H4-33, 4H4-35, 4H4-36, 4H4-37, 4H4-38)
- 4H4-33\*** Studies on the Origin of High Carbon Number Sedimentary Alkylporphyrins (Univ. of Tsukuba) ASAHINA, Kenta; OTSUKA, Naoya; MITA, Hajime; NOMOTO, Shinya
- 4H4-35** LC-MS analysis of proteinoids produced in the thermal polycondensation. (Fukuoka Inst. Technol.) KUWAHARA, Yusuke; MITA, Hajime
- 4H4-36** Total OH reactivity measurements and analyses for photochemical species produced by photochemical chamber. (Faculty of Urban Sciences, Tokyo Metropolitan Univ.; Atmospheric Environment Division, National Institute for Environmental Species) NAKASHIMA, Yoshihiro; TSURUMARU, Hiroshi; FUKUDA, Sayaka; UCHIDA, Risa; IMAMURA, Takashi; KAJII, Yoshizumi
- 4H4-37** Fall-time comprehensive observations of air quality in the urban of Tokyo (Tokyo Metropolitan Univ.) YOSHINO, Ayako; MASUDA, Yuki; NAKASHIMA, Yoshihiro; KATO, Shungo; SUTHAWAREE, Jeeranut; MIYAZAKI, Koji; SIKDER, Helena, Akhter; OSADA, Takuya; NOZAKI, Syoji; TAKAHASHI, Yusuke; OHNO, Chiyo; OGI, Asuka; TASE, Hiroshi; TSUKAMOTO, Misato; ISHII, Koichiro; UENO, Hiroyuki; KAJII, Yoshizumi
- 4H4-38<sup>#</sup>** Measurement of O<sub>3</sub> and CO in suburban area of Bangkok, Thailand: characteristics and influence from long-range transport (Tokyo Metropolitan Univ., Graduate School of Urban Environment, Department of Applied Chemistry) SUTHAWAREE, Jeeranut; KATO, Shungo; KHUNCHORNYAKONG, Alisa; SHARP, Alice; KAJII, Yoshizumi

Chair: KAJII, Yoshizumi (15:30~16:30)

- \* 15:20-15:30: interval for laptop PC connection.(4H4-40, 4H4-41, 4H4-42, 4H4-43, 4H4-45)
- 4H4-40** Problems of monitoring gaseous nitric acid by an annular denuder method in the remote area (Osaka Pref. Univ.) MASUI, Yoshihiko; YUBA, Akie; SADANAGA, Yasuhiro; TAKENAKA, Norimichi; BANDOW, Hiroshi
- 4H4-41** Development of atmospheric NO<sub>2</sub> measurement system using near-ultraviolet light emitted diode photolytic converter (Osaka Pref. Univ.) FUKUMORI, Yuki; KOBASHI, Tadashi; SADANAGA, Yasuhiro; TAKENAKA, Norimichi; BANDOW, Hiroshi
- 4H4-42** Development of passive sampler for nitrous acid (Osaka Pref. Univ.) NAGATA, Makoto; HIRANO, Shingo; TAKENAKA, Norimichi; SADANAGA, Yasuhiro; BANDOW, Hiroshi
- 4H4-43\*<sup>†</sup>** Chemical and Toxicological Characterization of Biodiesel Exhaust from a Variety of Feedstocks (Univ. of California at Davis, California EPA Air Resources Board, Univ. of California at Riverside, Arizona State Univ.) KOBAYASHI, Reiko; OKAMOTO, Robert; VOGEL, Christoph; CAHILL, Thomas; LIU, Xiaoxue; DURBIN, Thomas; JOHNSON, Kent; HAJBABAIEI, Maryam; KADO, Norman
- 4H4-45** Analyses of the concentration variations of air pollutants at Suzu, the Noto Peninsula. (Osaka Pref. Univ.) ISEKI, Shota; SADANAGA, Yasuhiro; TAKENAKA, Norimichi; BANDOW, Hiroshi; MATSUKI, Atsushi; IWASAKA, Yasunobu

## Room H6

Bldg.B 401

### Energy and Related Chemistry

Friday, March 26, AM

#### Photoelectrochemistry

Chair: MURAKOSHI, Kei (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(1H6-01, 1H6-02, 1H6-03, 1H6-04, 1H6-06)
- 1H6-01** Control of Interfacial Electron Transfer Direction on Composite Materials with Metal Complexes and Semiconductors (Tokyo Tech.; SORST/JST) SEKIZAWA, Keita; KOIKE, Kazuhide; ISHITANI, Osamu
- 1H6-02** Synthesis and Photochemical Property of Colloidal Cu<sub>2</sub>ZnSnS<sub>4</sub> Nanoparticles (Nagoya Univ.) OSAKI, Takaaki; KAMEYAMA, Tatsuya; OKAZAKI, Ken-ichi; SHIBAYAMA, Tamaki; KUDO, Akihiko; KUWABATA, Susumu; TORIMOTO, Tsukasa
- 1H6-03** Fabrication of Visible Light Responsive ZnS-AgInS<sub>2</sub> Solid Solution Nanoparticle / ZnO Nanorod Hybrid Films (Nagoya Univ.) SASAMURA, Tatsuya; OKAZAKI, Ken-ichi; KUDO, Akihiko; KUWABATA, Susumu; TORIMOTO, Tsukasa
- 1H6-04\*** Energetic relationships between cofactors in photosystem II revealed by spectroelectrochemistry (Inst. Ind. Sci., The Univ. of Tokyo) KATO, Yuki; SHIBAMOTO, Tadao; SUGIURA, Miwa; WATANABE, Tadashi
- 1H6-06<sup>#</sup>** Surface plasmon-assisted two-photon photochromic reactions on nano-engineered gold particles (RIES-Hokkaido Univ.; PRESTO-JST) WU, Botao; UENO, Kosei; MURAZAWA, Naoki; SUN, Kai; MISAWA, Hiroaki

Chair: OKAZAKI, Ken-Ichi (10:10~11:20)

- \* 10:00-10:10: interval for laptop PC connection.(1H6-08, 1H6-09, 1H6-11, 1H6-12, 1H6-13)
- 1H6-08<sup>#</sup>** Very Efficient Photoelectrochemical Reduction of Carbon Dioxide at Si(111) Electrode Modified with Organic Molecular Layer and Pd complex (Graduate School of Science, Hokkaido Univ.) SUN, Yu; MASUDA, Takuya; UOSAKI, Kohei
- 1H6-09\*** Material's design concept for organic highly efficient long lived room temperature phosphorescence by decreasing nonradiative process at excited triplet state. (Center for Future Chemistry, Kyushu Univ.; Organic and Polymer Materials Chemistry, Tokyo Univ. of Agriculture and Technology) TOTANI, Kenro; HIRATA, Shuzo; WATANABE, Toshiyuki; ADACHI, Chihaya
- 1H6-11** Correlation between device structure of perylene/phthalocyanine and its photoanodic output (Hirosaki Univ., Tokyo Institute of Technology) TANNO, Yoshinori; EBINA, Toshihiro; MIYAKUSHI, Shouichi; NAGAI, Keiji; ABE, Toshiyuki
- 1H6-12<sup>#</sup>** Investigation on reduction/oxidation properties of a SWNT (Hokkaido Univ.) JIWON, Moon; TAKASE, Mai; YASUDA, Satoshi; NABIKI, Hideki; MURAKOSHI, Kei
- 1H6-13\*** Investigation of Photo Electrochemical Catalytic Activity of Single-walled Carbon Nanotubes (Hokkaido Univ.) YASUDA, Satoshi; MURAKOSHI, Kei

#### Solar Cell

Chair: UMEYAMA, Tomokazu (11:30~12:20)

- \* 11:20-11:30: interval for laptop PC connection.(1H6-16, 1H6-17, 1H6-18, 1H6-19)
- 1H6-16** Research on TiO<sub>2</sub> photoelectrode for improving solar cell performance of Black dye-sensitized solar cell (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) KANEYASU, Tomoya; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 1H6-17** Research on thermal stability of 10cm-by-10cm Black dye-sensitized solar cell submodules (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Hiroki; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 1H6-18** The relation between TiO<sub>2</sub> paste composition and photovoltaic performance of plastic dye-sensitized solar cells prepared by press method. (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) YOSHIZAWA, Ryosuke; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 1H6-19\*** Dye-sensitized solar cells using push-pull quinoidal thiophene dye (RCAST, The Univ. of Tokyo) KOMATSU, Makoto; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

Friday, March 26, PM

Solar Cell

Chair: SATO, Norifusa (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(1H6-34, 1H6-36, 1H6-38)
- 1H6-34**\*† Dye-sensitized Solar Cells Using Near-Infrared Light Absorbing Fused Porphyrin Dimers (RCAST, The Univ. of Tokyo) TAMAKI, Koichi; DY, Joanne Ting; NAKAZAKI, Jotaro; SANEHIRA, Yoshitaka; TSUTSUI, Yuko; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 1H6-36**\*†# Dye-sensitized Solar Cells using Zinc-Inserted and Ruthenium-Inserted Fused Porphyrin Dimers (RCAST, The Univ. of Tokyo) DY, Joanne Ting; TAMAKI, Koichi; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 1H6-38** Dye-Sensitized Solar Cells Based on New Fluorescent Dyes with Pyridine Ring as Electron Accepting Group (Hiroshima Univ.) NAGANO, Tomoya; INOUE, Shogo; OYOYAMA, Yousuke; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka

Chair: OHKITA, Hideo (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(1H6-40, 1H6-42, 1H6-43, 1H6-44, 1H6-45)
- 1H6-40**\* Dye-sensitized solar cells sensitized with 2,6-bis(quinolin-2-yl)pyridyl ruthenium complexes as a near-IR sensitizer (Natl.Inst.of Advanced Industrial Science and Tecnology) ONOZAWA-KOMATSUZAKI, Nobuko; FUNAKI, Takashi; YANAGIDA, Masatoshi; KASUGA, Kazuyuki; SAYAMA, Kazuhiro; SUGIHARA, Hideki
- 1H6-42** Synthesis and Photovoltaic Properties of Oligothiophene Bearing 1-Oxo-1-hydroxydithiopheno[2,3-b:3',2'-d]phosphole as Novel Anchoring Group for Dye-sensitized Solar Cells (Kyoto Univ.; iCeMS) IJIMA, Hiroaki; KIRA, Aiko; SHIBANO, Yuki; UMEYAMA, Tomokazu; MATANO, Yoshihiro; IMAHORI, Hiroshi
- 1H6-43** Synthesis of Diarylamino-Substituted Porphyrin Carboxylic Acids for Dye-Sensitized Solar Cells (Kyoto Univ., iCeMS; Univ. of Hyogo) MATSUBARA, Yusuke; IJIMA, Hiroaki; UMEYAMA, Tomokazu; MATANO, Yoshihiro; ITO, Seigo; IMAHORI, Hiroshi
- 1H6-44** Photovoltage improvement of DSCs by using (dcbpy)<sub>2</sub>(R<sub>2</sub>bpy)Ru complexes suitable for the Br<sup>-</sup>/Br<sub>3</sub><sup>-</sup> redox electrolyte. (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) HANO, Shuhei; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 1H6-45** Comparison of solar cell performance of dye-sensitized solar cells with various bipyridine coordinated Ru complexes. (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) OURA, Shohei; YAMAGUCHI, Takeshi; ARAKAWA, Hironori

Chair: UCHIDA, Satoshi (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(1H6-47, 1H6-49, 1H6-51)
- 1H6-47**\* Highly efficient polymer/fullerene solar cells by interfacial dye modification (Kyoto Univ.; JST PRESTO) HONDA, Satoshi; OHKITA, Hideo; BENTEN, Hiroaki; ITO, Shinzaburo
- 1H6-49**\* Molecular Understanding of the Open-Circuit Voltage in Polymer/Fullerene Solar Cells (Kyoto Univ.; JST PRESTO) BENTEN, Hiroaki; ORIMO, Akiko; MASUDA, Kohji; HONDA, Satoshi; OHKITA, Hideo; ITO, Shinzaburo
- 1H6-51** Fabrication of organic/inorganic hybrid solar cells using electrodeposited ZnO films (Research Center for Solar Energy Chemistry, Osaka Univ.) SAKAI, Risa; OHTA, Atsushi; IKEDA, Shigeru; MATSUMURA, Michio

Chair: MURAKAMI, Takurou (17 : 40~18 : 40)

- \* 17:30-17:40: interval for laptop PC connection.(1H6-53, 1H6-55, 1H6-57, 1H6-58)
- 1H6-53**\* Hole Transport of Polarons Formed in Polythiophene/Fullerene Blend Films (Kyoto Univ.; JST PRESTO) OHKITA, Hideo; GUO, Jiamo; BENTEN, Hiroaki; ITO, Shinzaburo
- 1H6-55**\* Formation dynamics of fullerene cation in polymer solar cells (Kyoto Univ.) YAMAMOTO, Shunsuke; OHKITA, Hideo; BENTEN, Hiroaki; ITO, Shinzaburo
- 1H6-57** Transient emission from excited dye molecules in the organic solar cell (Inst. Molecular Science; Sokendai; Hosei Univ.) MITSUKE, Koichiro; KATAYANAGI, Hideki; NAKAJIMA, Koichi
- 1H6-58** Fabrication of vertical type tandem dye-sensitized solar cells (Kyushu Inst. Tech.; Nippon Steel Chemical Co., Ltd) KAYA, Masaki; USAGAWA, Jun; UZAKI, Kenshiro; OGOMI, Yuhei; KOHNO, Mitsuru; YAMAGUCHI, Yoshihiro; SHYAM S., Pandey; HAYASE, Shuzi

Saturday, March 27, AM

Solar Cell

Chair: YAMAGUCHI, Takeshi (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(2H6-01, 2H6-02, 2H6-03, 2H6-04, 2H6-05)
- 2H6-01** Zinc oxide and Titanium dioxide Hybridized Photoelectrode for Dye-

sensitized Solar Cell (3) (Toin Univ. of Yokohama) SAKAI, Nobuya; KAWASHIMA, Norimichi; MUTAKAMI, Takurou

- 2H6-02** Clay electrolyte for dye-sensitized solar cells(3) sorption behavior of iodide/triiodide to clay (The Univ. of Tokyo) UCHIDA, Satoshi; INOUE, Tomoyuki; KUBO, Takaya; SEGAWA, Hiroshi
- 2H6-03** The adsorption property of new Indoline dye to TiO<sub>2</sub> film and their application for dye-sensitized solar cells (The Univ. of Tokyo) TSUTSUI, Yuko; SANEHIRA, Yoshitaka; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi; TAKATA, Masakazu; SUMIOKA, Koichi; KASAI, Takaaki
- 2H6-04** Charge Generation in Conjugated Polymer Blends Studied by Transient Absorption Spectroscopy (Kyoto Univ.) KOSAKA, Junya; BENTEN, Hiroaki; OHKITA, Hideo; ITO, Shinzaburo
- 2H6-05** Near-Infrared Dye-Sensitization in Polymer Solar Cells Studied by Transient Absorption Spectroscopy (Kyoto Univ.) YOKOYA, Seiichirou; HONDA, Satoshi; OHKITA, Hideo; BENTEN, Hiroaki; ITO, Shinzaburo

Chair: GOKON, Nobuyuki (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(2H6-07, 2H6-08, 2H6-09, 2H6-10, 2H6-12)
- 2H6-07** Analysis of two-step water splitting reaction mechanism by AC impedance spectroscopy (Tokyo Tech.; Dep. of Chem.) LEE, Chong Il; KANEKO, Hiroshi; HASEGAWA, Noriko; TAMAURA, Yutaka
- 2H6-08** Thermo-Gravimetric Measurement on Oxygen Releasing Step of Reactive Ceramics with Concentrated Solar Beam (Tokyo Tech.; Dep. of Chem.) OKUNO, Takanori; KANEKO, Hiroshi; HASEGAWA, Noriko; TAMAURA, Yutaka
- 2H6-09** Development of the Rotary-Type Solar Reactor Using Reaction Simulation (Tokyo Institute of Technology) ISHIKAWA, Yosuke; NAGAOKA, Makoto; HASEGAWA, Noriko; KANEKO, Hiroshi; TAMAURA, Yutaka
- 2H6-10**\* Development of microwave heating for metal thin film and high speed control of Palladium membrane based hydrogen purification system (AIST) NISHIOKA, Masateru; SATO, Koichi; KASAI, Makoto; HIGASHI, Hideo; NATSUI, Mayumi; INOUE, Tomoya; WAKUI, Yoshihito; NOGUCHI, Takio; MIYAKAWA, Masato; SUZUKI, Toshishige
- 2H6-12** Electrochemical Dehydrogenation of Ammonia Borane (Osaka Pref. Univ.) SHIMADA, Motoki; BABA, Toyohiro; HIGUCHI, Eiji; INOUE, Hiroshi

sensor

Chair: KUWABATA, Susumu (11 : 10~12 : 20)

- \* 11:00-11:10: interval for laptop PC connection.(2H6-14, 2H6-15)
- 2H6-14** Solid electrolyte type CO<sub>2</sub> gas sensor operating at moderate temperatures (Osaka Univ.) UNEME, Yasuhisa; TAMURA, Shinji; IMANAKA, Nobuhito
- 2H6-15** CSJ Award for Creative Works The Development of Multi-valent Ion Conducting Solid Electrolytes (Grad. Sch. Eng., Osaka Univ.) IMANAKA, Nobuhiko

Saturday, March 27, PM

H2 production

Chair: ABE, Takeshi (13 : 30~14 : 20)

- \* 13:20-13:30: interval for laptop PC connection.(2H6-28, 2H6-29, 2H6-30, 2H6-31, 2H6-32)
- 2H6-28** Thermochemical water-splitting by reactive ceramic materials (17) Two-Step Water-Splitting Devices using a NiFe<sub>2</sub>O<sub>4</sub>/m-ZrO<sub>2</sub> as a reactant (Niigata Univ.) IMAIZUMI, Nobuki; SAKAI, Koichi; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya; SEO, Taebeom
- 2H6-29** Thermochemical water-splitting by reactive ceramic materials (18) A new reactor system with an internally circulating fluidized bed under direct solar irradiation-V (Niigata Univ.) MATAGA, Tetsuro; KONDOU, Nobuyuki; GOKON, Nobuyuki; KODAMA, Tatsuya
- 2H6-30** Solar gasification of coal by Direct Irradiation (10) Solar gasification with an internally-circulating fluidized bed of coal cokes under 3kW beam irradiation. (Niigata Univ.) GOKON, Nobuyuki; TAKADA, Yasuhiro; SEKI, Hiromi; HATAMACHI, Tsuyoshi; KODAMA, Tatsuya
- 2H6-31** Solar thermochemical reforming of methane (22) Double-walled reactor tube using alkaline carbonate/ceramic composites as a thermal storage medium-IV (Niigata Univ.) GOKON, Nobuyuki; YAMASHITA, Shingo; MORI, Shusaku; HATAMACHI, Tsuyoshi; KODAMA, Tatsuya; SEO, Taebeom
- 2H6-32** Conversion of Concentrated Solar Energy to Chemical Energy (88) Demonstration of Hydrogen Production using Rotary-type Solar Reactor with Concentrated Solar Heat (Tokyo Tech RCCRE) KANEKO, Hiroshi; LEE, Chon-il; ISHIKAWA, Yosuke; OUCHI, Kei; HASEGAWA, Noriko; TAMAURA, Yutaka

Fuel Cells

Chair: OKAZAKI, Ken-Ichi (14 : 30~15 : 40)

- \* 14:20-14:30: interval for laptop PC connection.(2H6-34, 2H6-35, 2H6-36,

2H6-37, 2H6-39)

- 2H6-34** Synthesis and Properties of Reduced Heteropoly Acid Alkali-Metal Salts (Chubu Univ.) SADA, Shingo; IMAEDA, Kenichi; ISHIKAWA, Eri
- 2H6-35** Proton Conductivity Enhancement of Polypeptide by Thin Films (Tohoku Univ.) NAGAO, Yuki; MATSUI, Jun; ABE, Takashi; SATA, Noriko; MIYASHITA, Tokuji; YUGAMI, Hiroo
- 2H6-36** Kinetics Study on Degradation of Nafion(R) in Fenton Reaction (3) (Toin Univ. of Yokohama) SUGAWARA, Tomoko; TAKANEZAWA, Sota; KAWASHIMA, Norimichi; MURAKAMI, Takurou
- 2H6-37\*** Synthesis of inorganic-organic composite electrolyte containing cesium-phosphotungstic acid composite with SPEEK application for medium temperature PEMFC under non-humidifying condition (Toyohashi Univ. of Technology, Japan) OH, Song-yul; YOSHIDA, Toshihiro; KAWAMURA, Go; MUTO, Hiroyuki; SAKAI, Mototsugu; MATSUDA, Atsunori
- 2H6-39\*** Inorganic hydroxide materials for the improvement of the triple-phase boundary in anion-exchange membrane fuel cells cathodes (Kyoto Univ.) MIYAZAKI, Kohei; ABE, Takeshi; NISHIO, Koji; OGUMI, Zempachi

Chair: MIYAZAKI, Kohei (15:50~17:00)

- \* 15:40-15:50: interval for laptop PC connection.(2H6-42, 2H6-43, 2H6-44, 2H6-45, 2H6-46, 2H6-47)
- 2H6-42** Performance of direct ammonia fuel cell using Sb doped tin oxide composite for Anode electrode (Kyushu Inst.Tech) HARA, Yoshitaka; MURABAYASHI, Masanao; HAYASE, Shuzi
- 2H6-43** Proton bypassed MEA for polymer electrolyte fuel cells (Panasonic Co.Ltd) AIZAWA, Masato; GYOTEN, Hisaaki; LIU, Xinbing; SALAH, Abdu
- 2H6-44** Preparation and oxygen reduction activity of carbon-based catalyst for PEFC cathode electrode (Tokyo City Univ.) HASHIMOTO, Wataru; KOBAYASHI, Kouichi; TAKAHASHI, Masashi
- 2H6-45** Optimization of cathode catalysts of replica Pt-C composite synthesized utilizing MCM-41 and the feasibility of replica Co-N-C composite catalysts (Graduate School of Science, Chiba Univ.) OKA, Kazuki; ITOI, Takaomi; IZUMI, Yasuo
- 2H6-46** Electrocatalytic Activity for Ethanol Oxidation of Pd-based Alloy Nanoparticles Sputter-deposited in Ionic Liquids (Nagoya Univ.) HIRANO, Masanori; OKAZAKI, Ken-ichi; SUZUKI, Shushi; KUWABATA, Susumu; TORIMOTO, Tsukasa
- 2H6-47\*†** Electroanalysis of biocatalytic oxidation of cellobiose in hydrated ionic liquid (Tokyo Univ. of Agri. and Tech.) FUJITA, Kyoko; NAKAMURA, Nobuhumi; IGARASHI, Kiyohiko; SAMEJIMA, Masahiro; OHNO, Hiroyuki

### Lithium batteries

Chair: MATSUDA, Atsunori (17:10~17:50)

- \* 17:00-17:10: interval for laptop PC connection.(2H6-50, 2H6-51, 2H6-52, 2H6-53)
- 2H6-50** Preparation of LiFePO<sub>4</sub> and LiTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> for Lithium Secondary Batteries using Ionic Liquid as Reaction Media (Osaka Pref. Univ.) HAYASHI, Akitoshi; TAKAHASHI, Yuuki; ASO, Keigo; KITAURA, Hirokazu; TATSUMISAGO, Masahiro
- 2H6-51** Preparation and characterization of high lithium ion conducting Li<sub>2</sub>S<sub>5</sub>-Li<sub>3</sub>PO<sub>4</sub> solid electrolytes (Osaka Pref. Univ.; Idemitsu Kosan Company, Limited) HAYASHI, Akitoshi; NOI, Kousuke; MINAMI, Keiichi; SEINO, Yoshikatsu; OHTA, Tsuyoshi; TATSUMISAGO, Masahiro
- 2H6-52** Preparation of Li<sub>4</sub>SiO<sub>4</sub>-Li<sub>3</sub>PO<sub>4</sub> solid electrolyte thin films by aerosol deposition method (Osaka Pref. Univ.; Osaka Municipal Technical Research Institute) HAYASHI, Akitoshi; ONO, Keisuke; SAKURAI, Yuki; HASHIMOTO, Kazuki; KITAURA, Hirokazu; TAKAHASHI, Masanari; TASTSUMISAGO, Masahiro
- 2H6-53** Silatrane Derivatives as Ion Conductive Matrices (Graduate School of Engineering, Hiroshima Univ.) FUJITA, Risa; MIZUMO, Tomonobu; OHSHITA, Joji

## Room H8

Bldg.B 403

### Education and History

Saturday, March 27, AM

Chair: YOKOI, Kunihiko (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(2H8-01, 2H8-02, 2H8-04)
- 2H8-01** The practical lessons in microscale experiments for high school students at Kobe College: various cells and detonating gas (Dep. Bio. Sci., Sch. Human Sci., Kobe College) NAKAGAWA, Tetsuo
- 2H8-02\*** Studies on the Popularization of Microscale Chemical Experiments which Foster Logical Thinking and Creativity (Tohoku Univ.) OGINO, Kazuko

- 2H8-04** CSJ Award for Merits for Chemical Education Activation of Chemical Education and Teacher Training (Osaka Pref. Kozu High School) TANAKA, Yoshikazu

Chair: ARIGA, Masahiro (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(2H8-08)
- 2H8-08** CSJ Award for Merits for Chemical Education Wide Range of Communication Design for Chemistry (Museum of Osaka Univ.) EGUCHI, Taro
- Chair: OGINO, Kazuko (11:20~11:50)
- \* 11:10-11:20: interval for laptop PC connection.(2H8-15)
- 2H8-15** CSJ Award for Merits for Chemical Education Research Guidance and Development of Teaching Materials in Chemistry to Encourage Creativity (Omiya Musashino High School) IWATA, Hisamichi

### Sunday, March 28, AM

Chair: HAYASHI, Seiichi (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3H8-01, 3H8-02, 3H8-03, 3H8-04)
- 3H8-01** Introduction of the Original Hazard's Drawing (Shitennohabikigaoka Senior High School) TAKANO, Hiroe
- 3H8-02** Safety in Student Experiments with Nitrogen Oxide Using Jointed Three-Sided Cock (Kobe College High School) IKEDA, Ikuhiro
- 3H8-03** Educational programs for Environmental Safety Education to take action (Toyama National College of Technology) ITO, Michiko; TSUMORI, Nobuko; KAWAGOE, Miyuki; TOIDE, Hisae
- 3H8-04** CSJ Award for Merits for Chemical Education New Chemistry Education where Experiments, the Conception of English and Contributions to Society are Incorporated (Aichi Pref. Shoin High School) FUKUTA, Toshihiko

Chair: SHIMOI, Mamoru (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(3H8-08)
- 3H8-08** CSJ Award for Merits for Chemical Education Continuous Contribution to the Advancement and Promotion of the Chemistry Education as a Researcher in Education Methodology (Fac. of Culture and Sport Policy, Toin Univ. of Yokohama) MATSUBARA, Shizuo

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

- \* 11:10-11:20: interval for laptop PC connection.(3H8-15, 3H8-17)
- 3H8-15\*** Development of O<sub>2</sub>/CO<sub>2</sub> measurement system for science education(2) (Tokyo National College of Technology) TAKAHASHI, Mitsuo; YAMAMOTO, Katsuhiko; HORI, Tesuo; TERATANI, Syousuke; MATSUBARA, Shizuo
- 3H8-17\*** Enhancement of the science education in the science center which plays a part in compulsory education (Izumo Board of Education; Izumo Science Center) NAKAYAMA, Shinya

### Sunday, March 28, PM

Chair: MATSUBARA, Shizuo (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(3H8-34, 3H8-35, 3H8-36, 3H8-37)
- 3H8-34** A practical investigation to keep student's learning motivation in high-school chemistry lesson; through writing chemical-element paper (Univ. of Tsukuba) SAEGUSA, Taku; MORIHASHI, Kenji
- 3H8-35** Handling experiments and improving expressions in the high school chemistry of the New Course of Study (NIER) GOTO, Kenichi; HAYASHI, Seiichi
- 3H8-36** The explanation of laboratory ware and experimental technique for the introduction to chemical experiment (Okayama Univ.) YONEDA, Mika; OSHITANI, Jun
- 3H8-37** CSJ Award for Merits for Chemical Education Practical Teaching methods in Chemistry for Motivating Students (Iwate Pref. Mizusawa High School) TAKAHASHI, Masayuki

Chair: HATA, Sohei (15:40~16:40)

- \* 15:30-15:40: interval for laptop PC connection.(3H8-41, 3H8-44, 3H8-45)
- 3H8-41** CSJ Award for Merits for Chemical Education Some Developments of Chemical Experiments and Contribution to High School Education (SUGINAMI GAKUIN) FUJIOKA, Kazuo
- 3H8-44** The recognition of ordinary people on the chemical compounds produced in combustion reaction. (Chiba Univ.) HAYASHI, Hideko
- 3H8-45\*** New chemical structural formula on the chemical history (LOGES) SANO, Hiroshi

Chair: WAKABAYASHI, Fumitaka (16:50~17:50)

- \* 16:40-16:50: interval for laptop PC connection.(3H8-48, 3H8-49, 3H8-51, 3H8-52)
- 3H8-48** History of the foundation of the Institute for Molecular Science and the present situation of the IMS Archives (Inst. for Molecular Science) KIMURA, Katsumi; SUZUKI, Satomi; MINAMINO, Satoshi; YAKUSHI, Kyuya
- 3H8-49\*** A Teaching Material on Simple Separation and Purification of

Caffeine Using Extractive Crystallization (Graduate School of Education, Hiroshima Univ.) AMIMOTO, Kiichi; SUZUKI, Naoko; KOGA, Nobuyoshi

**3H8-51** Study of the Materials to colored Gummy Sulfur (Tsuruoka National College of Technology) KANETSUNA, Hidenori; WATANABE, Katsuki

**3H8-52\*** A Study on the Construction of Teaching Contents Concerning Polar Reactions in High School Chemistry Education (Hokkaido Univ. Graduated School of Education) WATANABE, Daisuke

Chair: KOGA, Nobuyoshi (18 : 00~18 : 30)

\* 17:50-18:00: interval for laptop PC connection.(3H8-55, 3H8-56, 3H8-57)

**3H8-55** Development of a system to measure copper oxide layer using a lemon battery with a solar motor, and its application to monitor seasonal corrosion of copper plate exposed to air. (Hyogo Univ. of Teacher Educ.) ZHOU, Ganyu; TODA, Masasuke; OZEKI, Toru; OGAWA, Nobuaki

**3H8-56** Improvement of the Resolution of DVD Spectroscopy and its Application to Visible Spectra (Nat'l. Mus. Nature & Science) WAKABAYASHI, Fumitaka

**3H8-57** Development of "Simplified optical measuring device" to enables measurement of yield of organic chemistry reaction in high school chemistry. (Kyoto Univ. of Educ.) HATA, Sohei

## Room H9

Bldg.B 501

### Theoretical Chemistry, Informatics Chemistry and Computational Chemistry

Friday, March 26, AM

#### Electronic state

Chair: TANAKA, Shigenori (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1H9-01, 1H9-03, 1H9-04, 1H9-06)

**1H9-01\*** Energy-level structure of artificial atoms:Hund's rules and angular momentum dependence (College of Sci. & Tech., Nihon Univ.) SAKO, Tokuei

**1H9-03** Extension of energy density analysis for plane-wave basis (2) (Sch. of Adv. Sci. & Eng., Waseda Univ.) OKADA, Takeshi; IMAMURA, Yutaka; KIKUCHI, Yasuaki; NAKAI, Hiromi

**1H9-04\*** Quantum Monte Carlo study of the positron adsorption to alkali metal hydrides (Yokohama City Univ.) KITA, Yukiumi; MAEZONO, Ryo; TACHIKAWA, Masanori

**1H9-06** Analysis on fractional-occupation-number states in density functional theory (Sch. of Adv. Sci. & Eng., Waseda Univ.) KOBAYASHI, Rie; IMAMURA, Yutaka; NAKAI, Hiromi

Chair: SAKURAI, Hidehiro (10 : 10~11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(1H9-08)

**1H9-08\*** **Special Lecture** Quantitative measurement of non-covalent interactions: The issues and implications (Indian Institute of Chemical Technology, India) G. Narahari Sastry

Chair: KOBAYASHI, Masato (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(1H9-14, 1H9-15, 1H9-17, 1H9-18, 1H9-19)

**1H9-14** Excited state calculation by the method of Configuration Interaction Singles based on Fragment Molecular Orbital scheme (Rikkyo Univ.) TAGUCHI, Naoki; MOCHIZUKI, Yuji; NAKANO, Tatsuya; YAMASHITA, Katsumi; TANAKA, Shigenori

**1H9-15\*** Ab initio NMR chemical shift calculations using fragment molecular orbitals (The KAITEKI Institute, Inc.; Mitsubishi Chemical Group Science and Technology Research Center, Inc.;Tokyo Institute of Technology; AIST) YOKOJIMA, Satoshi; GAO, Qi; SHEN, Jun-wei; FEDOROV, Dmitri; KITAURA, Kazuo; SAKURAI, Minoru; NAKAMURA, Shinichiro

**1H9-17** DFT calculations on electronic coupling matrix elements in organic mono-crystalline materials (Univ. of Tsukuba) WATANABE, Shotaro; MORIHASHI, Kenji

**1H9-18** CDFT-GB application to intramolecular electron transfer system (Univ. of Tsukuba) OGAWA, Tomofumi; SHIMODO, Yasuyo; MORIHASHI, Kenji

**1H9-19** Theoretical Study of Excited States of Photosynthetic Reaction Center in Photosystem II (Grad. Sch. Eng., Kyoto Univ.) KITAGAWA, Yuya; HASEGAWA, Jun-ya; MATSUDA, Kenji

Friday, March 26, PM

Chair: KAWAKAMI, Takashi (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(1H9-28, 1H9-30, 1H9-31, 1H9-32, 1H9-33)

**1H9-28\*** Theoretical Study of Nuclear Magnetic Resonance Chemical Shift Induced by Isotope Effect (Kinjo Univ.) SUGIMORI, Kimikazu; KAWABE, Hiroyuki

**1H9-30** Quantum chemical calculations of the spin-orbit term of the zero-field splitting tensors of organic high-spin molecules (Graduate School of Science, Osaka City Univ.) SUGISAKI, Kenji; TOYOTA, Kazuo; SATO, Kazunobu; SHIOMI, Daisuke; TAKUI, Takeji

**1H9-31** Theoretical Study of CO molecule trapped in solid para-hydrogen (The Univ. of Tokyo) NAKAI, Kosuke; MANZHOS, Sergei; MISHIMA, Kenji; YAMASHITA, Koichi

**1H9-32<sup>†</sup>** Evaluation of rotational entropy of solute molecule in solution (Kyoto Univ.) ISHIKAWA, Atsushi; YOSHIHIDE, Nakao; SATO, Hirofumi; SAKAKI, Shigeyoshi

**1H9-33** Theoretical study on the polarizability of a singlet diradical molecule containing a boron atom in water solution. (Osaka Univ.) KUBOTA, Kazuki; TAKAHASHI, Hideaki; KISHI, Ryouhei; KUBO, Takashi; KAMADA, Kenji; OHTA, Koji; NAKANO, Masayosi

#### Material

Chair: OKUMURA, Mitutaka (17 : 10~18 : 10)

\* 17:00-17:10: interval for laptop PC connection.(1H9-50, 1H9-51, 1H9-52, 1H9-53, 1H9-54)

**1H9-50<sup>†</sup>** Density-Functional Tight-Binding Studies of Clar Patterns in Hexagonal Graphene Flakes and Convergence to Graphite (Nagoya Univ.; Institute for Advanced Research) LIU, Lili; IRLE, Stephan

**1H9-51** Stealth Effect in Infrared Vibrational Spectroscopy of Molecules Adsorbed on Single-walled Carbon Nanotubes (Nagoya Univ.; Institute for Advanced Research) NISHIMURA, Yoshifumi; IRLE, Stephan

**1H9-52** Theoretical study on structural and electronic properties of Li<sub>4</sub>FePO<sub>4</sub> as a lithium ion battery cathode (The Univ. of Tokyo) KUDO, Yusuke; YAMASHITA, Koichi

**1H9-53** Theoretical study of the structure and bandgap of (GaAs)<sub>1-x</sub>Ge<sub>2x</sub> alloys (Dept. of Chemical System Engineering, The Univ. of Tokyo) KAWAI, Hiroki; GIORGI, Giacomo; YAMASHITA, Koichi

**1H9-54\*** Theoretical study of complex formation between dopant and oxygen vacancy in Nb- and W-doped anatase TiO<sub>2</sub> (The Univ. of Tokyo; Dept. Chem. Sys. Engr.) KAMISAKA, Hideyuki; SUENAGA, Takahiro; NAKAMURA, Hisao; YAMASHITA, Koichi

Saturday, March 27, AM

#### Electronic state

Chair: KONO, Hirohiko (9 : 20 ~10 : 20)

\* 9:10-9:20: interval for laptop PC connection.(2H9-03, 2H9-05, 2H9-06, 2H9-08)

**2H9-03\*** Theoretical study on the field effect on static second hyperpolarizabilities of symmetric open-shell singlet molecules (Osaka Univ.) NAKANO, Masayoshi; YONEDA, Kyohei; KISHI, Ryohei; TAKAHASHI, Hideaki; KUBO, Takashi; KAMADA, Kenji; OHTA, Koji; CHAMPAGNE, Benoit; BOTEK, Edith

**2H9-05** Theoretical study on the spin polarization and third-order nonlinear optical properties of open-shell molecular systems composed of trigonal graphene nanoflakes (Osaka Univ.) YONEDA, Kyohei; KISHI, Ryohei; TAKAHASHI, Hideaki; NAKANO, Masayoshi

**2H9-06\*<sup>†</sup>** Theoretical study on diradical characters and second hyperpolarizabilities of rectangular graphene nanoflakes (Graduate School of Engineering Science, Osaka Univ.) NAGAI, Hiroshi; FUKUI, Hitoshi; YONEDA, Kyohei; KISHI, Ryohei; TAKAHASHI, Hideaki; KUBO, Takashi; KAMADA, Kenji; OHTA, Koji; NAKANO, Masayoshi

**2H9-08** Theoretical study on third-order nonlinear optical property of dicyclopenta-fused acenes (Osaka Univ.) MOTOMURA, Shuto; YONEDA, Kyohei; FUKUI, Hitoshi; KISHI, Ryohei; TAKAHASHI, Hideaki; NAKANO, Masayoshi

#### Dynamics

Chair: NAKANO, Masayosi (10 : 30~11 : 20)

\* 10:20-10:30: interval for laptop PC connection.(2H9-10, 2H9-11, 2H9-12, 2H9-13)

**2H9-10** Simultaneous optimal control of rotational and vibrational degrees of freedom of N<sub>2</sub> through non-resonant multiphoton transitions (Tohoku Univ.; JST-CREST) ABE, Hiroya; NAKAGAMI, Kazuyuki; OHTSUKI, Yukiyo; KONO, Hirohiko

**2H9-11** Optimal orientation control of a CO molecule (Tohoku Univ.; JST-CREST) NAKAJIMA, Katsuhiko; ABE, Hiroya; OHTSUKI, Yukiyo; KONO, Hirohiko

**2H9-12** Theoretical study of the transition state dynamics of cyclooctatetraene isomerization (Tohoku Univ.) NAKAMURA, Kosuke; HOKI, Kunihito; KONO, Hirohiko

**2H9-13\*<sup>†</sup>** Theoretical study of the dissociation dynamics of C<sub>60</sub> vibrationally-excited by intense laser fields (Tohoku Univ.) NIITSU, Naoyuki; NAKAI, Katsunori; IKEDA, Hayato; KIKUCHI, Miyu; TODA, Mikito; KONO, Hirohiko

Chair: OHTA, Koji (11:30~12:20)

- \* 11:20-11:30: interval for laptop PC connection.(2H9-16, 2H9-17, 2H9-18, 2H9-19, 2H9-20)
- 2H9-16** DFTB/MD simulations of high-temperature annealing of open-ended (n,n) SWNTs for  $n=3$  to 10 (Nagoya Univ.) HARA, Hironori; ICHINOSE, Genki; IRLE, Stephan
- 2H9-17** Proton transfer in protonated benzene (The Univ. of Tokyo) KUROKI, Ayaka; USHIYAMA, Hiroshi; YAMASHITA, Koichi
- 2H9-18** Molecular Dynamics Calculation for Swelling Behavior of Hydrogel Containing Quaternary Ammonium Ion Moiety by Anions. (Wakayama National College of Technology) IWAMOTO, Hitoshi; KADO, Shinpei; NAKAHARA, Yoshio; KIMURA, Keiichi
- 2H9-19** Control of exciton recurrence motion in double-ring molecular aggregate models by using circular-polarized laser fields (Osaka Univ.) MINAMI, Takuya; KISHI, Ryohei; TAKAHASHI, Hideaki; NAKANO, Masayoshi
- 2H9-20** Development of spatio-temporal analysis method for the dynamic first hyperpolarizabilities of asymmetric  $\pi$ -conjugated system based on the ab initio MO-quantum master equation approach (Osaka Univ.) FUJII, Hiroaki; KISHI, Ryohei; MINAMI, Takuya; TAKAHASHI, Hideaki; NAKANO, Masayoshi

## Saturday, March 27, PM

## Chemical Reaction

Chair: KISHI, Ryohei (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(2H9-28, 2H9-29, 2H9-30, 2H9-32)
- 2H9-28** Theoretical studies on the reaction of singlet oxygen and ethylene by using broken-symmetry method (Osaka Univ.) SAITO, Toru; KATAOKA, Yusuke; NAKANISHI, Yasuyuki; KITAGAWA, Yasutaka; KAWAKAMI, Takashi; OKUMURA, Mitsutaka; YAMAGUCHI, Kizashi
- 2H9-29** Theoretical Investigation on Cyclohexene Bromination (Waseda Univ.; Kansai Univ.) SUZUKI, Jun; IMAMURA, Yutaka; NAKAI, Hiromi; HIRABAYASHI, Daiki; NITTA, Kazuki; OKADA, Yoshiki
- 2H9-30\*** Large-scale automated exploration of chemical structures and reaction pathways by quantum chemical calculations (Toyota Chem. & Phys. Research Institute, Grad. School of Sci. Tohoku Univ.) OHNO, Koichi; MAEDA, Satoshi; OSADA, Yuto
- 2H9-32\*** Is it possible to cleave C-F bond selectively?: A reaction mechanism analysis by relativistic quantum chemical calculation (Ochanomizu Univ.) MORI, Hirotohi; MATSUDA, Aya

Chair: KITAGAWA, Yasutaka (14:40~15:40)

- \* 14:30-14:40: interval for laptop PC connection.(2H9-35, 2H9-36, 2H9-37, 2H9-39)
- 2H9-35** Theoretical study of Fischer-Tropsch Synthesis on Molybdenum and Cobalt Molybdenum Carbides (Tokyo Univ. of Agri. and Tech.; Faculty of Engineering) TOMINAGA, Hiroyuki; NAGAI, Masatoshi
- 2H9-36** A model chemistry with pyrene on the Stone-Wales rearrangement of graphenes at their zigzag and armchair edges: Relation between the energy barrier and their aromaticity (Tohoku Univ.) YAMAZAKI, Kaoru; NIITSU, Naoyuki; KONO, Hirohiko
- 2H9-37\*** Generation of Adenosyl Radical from S-Adenosylmethionine (SAM) in Biotin Synthase (IMCE, Kyushu Univ.) KAMACHI, Takashi; KOUNO, Tomohisa; YOSHIZAWA, Kazunari
- 2H9-39\*** QM/MM study of C-H bond activation by the dinuclear copper compounds (Kyushu Univ.) SHIOTA, Yosihito; HORI, Kazunori; YOSHIZAWA, Kazunari

## Simulation

Chair: SHIOTA, Yoshihito (15:50~17:00)

- \* 15:40-15:50: interval for laptop PC connection.(2H9-42, 2H9-44, 2H9-46, 2H9-47, 2H9-48)
- 2H9-42\*** Electron Transport in Artificial Metal-DNA Junctions using Green's Function-Based Elastic Scattering Theory (Graduate School of Science, Osaka Univ.) NAKANISHI, Yasuyuki; MATSUI, Toru; KITAGAWA, Yasutaka; SHIGETA, Yasuteru; SAITO, Toru; KATAOKA, Yusuke; KAWAKAMI, Takashi; OKUMURA, Mitsutaka
- 2H9-44\*** Efficient Ab initio path integral hybrid Monte Carlo based on the fourth-order Trotter expansion -Application to fluoride ion-water cluster (Yokohama City Univ.) SUZUKI, Kimichi; SHIGA, Motoyuki; TACHIKAWA, Masanori
- 2H9-46** MD simulation of protein by coarse graining based on dipole-dipole interaction (Hiroshima Univ. Graduate School of Science) MIEDA, Shunsuke; AIDA, Misako
- 2H9-47** Distortion energy analysis of proteins by using the singleamino acid potentials (Tokai Univ.) IWAOKA, Michio; MINEZAKI, Toshiya; NAKAMURA, Shingo; SHIMOSATO, Taku
- 2H9-48** A theoretical study on CO<sub>2</sub> dissolution in [bmim][PF<sub>6</sub>] using RISM method with intramolecular structural fluctuation (Kyoto Univ.) KIKUI, Kenichi; HAYAKI, Seigo; KIDO, Kentaro; YOKOGAWA, Daisuke; SATO, Hirofumi; SAKAKI, Shigeyoshi

## Sunday, March 28, AM

## Bio

Chair: TAKANO, Yu (9:50~10:50)

- \* 9:40-9:50: interval for laptop PC connection.(3H9-06, 3H9-08, 3H9-10)
- 3H9-06\*** Theoretical study on the oxidation mechanism of  $\alpha$ -carbon on heme by Heme Oxygenase (IMCE, Kyushu Univ.) NISHIMI, Tomonori; KAMACHI, Takashi; YOSHIZAWA, Kazunari
- 3H9-08\*** Theoretical study on the reactivity of covalent binding ligands (Hiroshima Univ. Graduate School of Science) ANDO, Hiroshi; AIDA, Misako; YOSHIDA, Tomoki
- 3H9-10\*** Theoretical analysis on the mechanism of enzymatic activation of C-F bond (IMCE, Kyushu Univ.) NAKAYAMA, Tomonori; KAMACHI, Takashi; SHITAMICHI, Osamu; JITSUMORI, Keiji; KURIHARA, Tatsuo; ESAKI, Nobuyoshi; YOSHIZAWA, Kazunari

Chair: TAKAHASHI, Hideaki (11:00~12:20)

- \* 10:50-11:00: interval for laptop PC connection.(3H9-13, 3H9-14, 3H9-15, 3H9-16, 3H9-17, 3H9-19)
- 3H9-13** Relationship between proton affinity of Arg38 and electronic structure of heme a in cytochrome *c* oxidase (IPR, Osaka Univ.) TAKANO, Yu; NAKAMURA, Haruki
- 3H9-14** Molecular simulation on the protein phosphorylation (RIKEN; Kobe Univ.; JST-CREST) RE, Suyong; JUNG, Jaewoon; TEN-NO, Seiichi; SUGITA, Yuji
- 3H9-15** Fragment-DFT calculation on the interaction energy between HIV-protease and its inhibitor (Univ. of Tsukuba) IWASE, Tomoyuki; MORIHASHI, Kenji
- 3H9-16** DFT Study on Enzymatic Activity in HIV-1 Reverse Transcriptase (Univ. of Tsukuba) KURANOO, Kazuhiro; MORIHASHI, Kenji
- 3H9-17\*** Ab initio fragment molecular orbital calculations for influenza virus hemagglutinin and neuraminidase proteins (Kobe Univ.) TANAKA, Shigenori; TAKEMATSU, Kazutomo; FUKUZAWA, Kaori; NAKANO, Tatsuya; YAMASHITA, Katsumi; TAGUCHI, Naoki; MOCHIZUKI, Yuji
- 3H9-19\*** Calculation of the absorption maxima of real GFPs (FUJITSU LABS. LTD. Center for Biological Resources and Informatics, Tokyo Institute of Technology) MATSUURA, Azuma; HAYASHI, Tomohiko; SATO, Hiroyuki; TAKAHASHI, Atsuya; SAKURAI, Minoru

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-Theoretical Chemistry, Chemoinformatics,  
Computational Chemistry

## Sunday, March 28, PM

Chair: OKUMURA, Mitsutaka (13:30~14:50)

- 3H9-28#** Opening Remarks (The Univ. of Tokyo) YAMASHITA, Koichi (13:30~13:40)
- 3H9-29# Invited Lecture** Recent progress in accurately solving the Schrodinger equation of general atoms and molecules (Quantum Chemistry Research Institute, Kyoto) NAKASHIMA, Hiroyuki (13:40~14:00)
- 3H9-31# Keynote Lecture** Chem is try computationally and experimentally (Peking Univ., China) YU, Zhi-Xiang (14:00~14:30)
- 3H9-34# Invited Lecture** Perspectives for constructing ab initio potential energy surfaces in dozens of dimensions (The Univ. of Tokyo) MANZHOS, Sergei (14:30~14:50)

Chair: EHARA, Masahiro (15:00~16:10)

- 3H9-37# Keynote Lecture** Understanding the dynamics of molecular motors (Chung-Ang Univ., Korea) HYEON, Changbong (15:00~15:30)
- 3H9-40# Invited Lecture** Ultrafast nonradiative decay of photoexcited DNA bases (Hokkaido Univ.) YAMAZAKI, Shohei (15:30~15:50)
- 3H9-42# Invited Lecture** Theoretical study on coherent and incoherent exciton transfer processes: ab initio MO-Cl quantum master equation approach (Osaka Univ.) KISHI, Ryohei (15:50~16:10)

Chair: NAKANO, Masayoshi (16:20~17:30)

- 3H9-45# Invited Lecture** Molecular dynamics simulation study on hydrated excess proton behavior at water-hydrophobic interfaces (Kyoto Univ.) IUCHI, Satoru (16:20~16:40)
- 3H9-47# Invited Lecture** The broken-symmetry and the spin projection methods for large singlet biradical systems (Osaka Univ.) KITAGAWA, Yasutaka (16:40~17:00)
- 3H9-49# Keynote Lecture** The role of long range excitation on two-photon absorption process (Univ. of Calcutta, India) CHAKRABARTI, Swapan (17:00~17:30)

## Room P

### Memorial Hall

Friday, March 26, PM

(12 : 30~14 : 00)

### Physical Chemistry -Structure-

- 1PB-031** Hydrogen bond versus Proton Bond Criterion at Trimethylamine-HX Complexes; Theoretical Approach (2) Correlation of bond energy (Waseda Junior and Senior High School) SAITOH, Toshikazu
- 1PB-032** Study on Excited States of Diphenylacetylene by Optical-Probing Photoacoustic Spectroscopy (Tokyo Institute of Technology) OKABE, Kiyotaka
- 1PB-033** Withdrawn
- 1PB-034** An application of pulse-based coherent-dual ELDOR spectroscopy to electron-nuclear spin-qubits in molecular frames (Graduate School of Science, Osaka City Univ.; Graduate School of Science, Osaka Univ.; Graduate School of Engineering Science, Osaka Univ.; JST-CREST) TANAKA, Ayaka; SATO, Kazunobu; ISE, Tomoaki; NAKAZAWA, Shigeaki; MORITA, Yasushi; TOYOTA, Kazuo; SHIOMI, Daisuke; KITAGAWA, Masahiro; TAKUI, Takeji
- 1PB-035** Lithium Ion Conduction Path in  $\text{LiIn}_4$  studied by  $^7\text{Li}$  NMR (College of Industrial Technology, Nihon Univ.) YAMADA, Koji; MATSUYAMA, Shoji; YAMANE, Yohei
- 1PB-036** Phase transition and proton motion of 1,3-diazinium hydrogen chloranilate monohydrate (Nihon Univ.; Okayama Univ.; NMRI; Bruker AXS) HOSHINO, Makoto; ASAJI, Tetsuo; ISHIDA, Hiroyuki; KONNAI, Akiko; SHINODA, Yoshio
- 1PB-037** Solid-state  $^{95}\text{Mo}$  NMR of Mo(V) in polyoxomolybdates (Institute for Molecular Science) IJIMA, Takahiro; NISHIMURA, Katsuyuki; YAMASE, Toshihiro; TANSHO, Masataka; SHIMIZU, Tadashi
- 1PB-038** Correlation between  $^{35}\text{Cl}$  NQR frequency and the extent of proton transfer in molecular compounds of chloranilic acid with some organic bases (Nihon Univ.; J. Stefan Institute; Okayama Univ.) ASAJI, Tetsuo; SELIGER, Janez; ZAGAR, Veselko; ISHIDA, Hiroyuki
- 1PB-039** Molecular Dynamics of Pyrazine Included in an Organic 1-D Nanochannel (The Department of Chemistry, College of Humanities and Sciences, Nihon Univ.) KOBAYASHI, Hirokazu; ASAJI, Tetsuo
- 1PB-040** Hydration water dynamics in protein crystals as studied by deuterium solid-state NMR (Graduate School of Natural Science and Technology, Kanazawa Univ.) MIYATO, Tatsuya; MIZUNO, Motohiro; OHASHI, Ryutaro
- 1PB-041** Phase transitions and crystal structures in 1,3-diaziniumhydrogen chloranilate monohydrate and bis(1,3-diazinium)chloranilate. (Okayama Univ.; Nihon Univ.) GOTOH, Kazuma; ASAJI, Tetsuo; ISHIDA, Hiroyuki
- 1PB-042** Withdrawn
- 1PB-043** Structural transformation of intermetallic compound  $\text{Ce}_3\text{Al}$  by means of solid state reaction during mechanical milling (Nat'l Inst. for Mater. Science) ZHANG, Yanping; MIZUSAWA, Mari; TAKEYA, Hiroyuki; SAKURAI, Kenji
- 1PB-044** Local electronic state of thiophene-Pt(111) system (The Univ. of Tokyo) USHIYAMA, Shota; SOGO, Mauo; AOKI, Masaru; SHUDO, Ken-ichi; MASUDA, Shigeru

### Physical Chemistry -Properties-

#### Liquid, Solution

- 1PB-047** Volume Fluctuation of Biomolecules as Revealed by Isothermal Compressibility (Kinki Univ.) KAMIYAMA, Tadashi; KANAOKA, Eri; KIMURA, Takayoshi
- 1PB-048** Diffusion coefficients of phenylalkanols in some micellar solutions and partition coefficients between micelles and water (Okayama Univ. Sci.) TOKI, Takafumi; HISATAKE, Hiroki; TOMINAGA, Toshihiro
- 1PB-049** Thermodynamic properties *o*-, *m*-, *p*-isomers solution (Dept. Chem. Kinki Univ.) KIMURA, Takayoshi; LIU, Hongli; KAMIYAMA, Tadashi; FUJISAWA, Masao
- 1PB-050** Enthalpies of mixing of chiral Limonene in ethanol solution (Dept. Chem. Kinki Univ.) KIDO, Satoko; LIU, Hongli; KAMIYAMA, Tadashi; FUJISAWA, Masao; KIMURA, Takayoshi
- 1PB-051** Near-infrared spectra of pyridine-alcohol binary solvent mixtures (Tokyo Univ. Agricult. Technol.) NITTA, Keiyo; TAKAYANAGI, Masao
- 1PB-052** Glass Transition Behavior of Ionic Liquid-Water Mixtures (Nat. Def. Acad.) YOSHIMURA, Yukihiro; OKAMOTO, Chikara; WATANABE, Mayuko; TAKEKIYO, Takahiro; IMAI, Yusuke; ABE, Hiroshi
- 1PB-053** Solution Structure of Ionic Liquid[DEME][BF<sub>4</sub>]-H<sub>2</sub>O Mixtures (Nat. Def. Acad.) TAKEKIYO, Takahiro; WATANABE, Mayuko; OKAMOTO, Chikara; IMAI, Yusuke; ABE, Hiroshi; YOSHIMURA,

Yukihiro

- 1PB-054** Thermodynamic properties of imidazolium-based ionic liquid [bmim][Tf<sub>2</sub>N] and pyrrolidinium-based ionic liquid [bmp][Tf<sub>2</sub>N] (NMI/AIST; Univ. of Tsukuba; RICS/AIST) SHIMIZU, Yoshitaka; OHTE, Yoko; YAMAMURA, Yasuhisa; TSUZUKI, Seiji; SAITO, Kazuya

#### Lizuid crystal, Glass

- 1PB-055** Effect of Counter Ions on Formation and Quenching of Pyrene-sulfonate Excimer on Cationic Micellar Surfaces. (Okayama Univ. of Sci.) TAKEZAKI, Makoto; YAMAGATA, Souichirou; TOMINAGA, Toshihiro

#### Phase equilibrium, Phase transition

- 1PB-056** Dielectric and thermal properties of ionic liquids ( $\text{C}_{nm}\text{m}$ ) BF<sub>4</sub> (Dept. of Chem., Fac of Sci., Fukuoka Univ.) NEGITA, Keishi; MAHARA, Yuki; KUSAKABE, Hiroaki
- 1PB-057** Analysis of thermal decomposition mechanism for 5-aminotetrazole (National Institute of Advanced Industrial Science and Technology) OBATA, Shigeaki; TAKEYA, Satoshi; FUJIHISA, Hiroshi; HONDA, Kazumasa; GOTOH, Yoshito
- 1PB-058** Effect on thermal behavior of water by changing a surface of silica pores (Graduate School of Integrated Basic Sciences, Nihon Univ.) OODO, Kenta; MASUDA, Tasuku; FUJIMORI, Hiroki

#### Surface, Thin film, Nanoscale property

- 1PB-059** Preparation of Sexithiophene Derivatives for a Modified Interface Layer and Organic Thin Film (Toho Univ.) TAKASUNA, Tohru; SHIMURA, Yuki; PAC, Chongjin; MORIYAMA, Hiroshi
- 1PB-060** Chemical Modification to Electrode Surface by Porphyrin Derivatives and Thin Film Effect (Toho Univ.) YUI, Miki; AMEMIYA, Jun; PAC, Chyongjin; MORIYAMA, Hiroshi
- 1PB-061** Shear stress effect of nitrospiropyran with the long alkyl chain (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) OHSIMA, Shuhei; SAKAI, Ryosuke; YABUUCHI, Kazuhiro; INOKUCHI, Makoto; YAKUSHI, Kyuya; SHIROTANI, Ichimin
- 1PB-062** Shear stress effect on hydroxyspiropyran (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) INOKUCHI, Makoto; SHIMIZU, Yuki; OHSIMA, Shuhei; YABUUCHI, Kazuhiro; YAKUSHI, Kyuya; SHIROTANI, Ichimin
- 1PB-063** Alignment of cyanine dyes in aggregates (Department of Chemistry and Chemical Biology, Graduate School of Engineering, Gunma Univ.) YOSHIDA, Takayuki; TANI, Katsuhiko; KODAIRA, Takuo; HORIUCHI, Hiroaki; HIRATSUKA, Hiroshi
- 1PB-064** Effect of surface plasmon of Au nanoparticles on luminescence properties of CdTe quantum dots (Kwansei Gakuin Univ., School of Science and Technology) KAWADU, Yoshinari; UDAGAWA, Takeshi; TSUBOI, Yasuyuki; TAMAI, Naoto
- 1PB-065** Energy transfer properties change dependent on controls of exciton energy level in inorganic-organic perovskite compound (Tohoku Univ.) KAWANO, Naoki; KOSHIMIZU, Masanori; ASAI, Keisuke

#### Cluster, Nano-tube

- 1PB-066** Theoretical study of the adsorption of a H atom on the  $\text{Al}_n\text{C}_m^-$  ( $n=1-12, m=1,2$ ) clusters (Chiba Institute of Technology) KAWAZOE, Tomohiro; MATSUZAWA, Hidenori
- 1PB-067** Thermal growth reaction of dodecanethiol protected silver nanoparticles (College of Science, Ibaraki Univ.) SAWAGUCHI, Naka; MAKUUCHI, Etsuyo; NOGUCHI, Takaaki; SASAKI, Akito; IZUOKA, Akira
- 1PB-068** Double decomposition reaction of triphenylphosphine substituted  $\text{Au}_{11}$  cluster (Ibaraki Univ.) SAKAMOTO, Emiko; ITOI, Ayaka; IZUOKA, Akira
- 1PB-069** Preparation and characterization of conductive thin films prepared from differently produced carbon nanotubes (Tokyo Gakugei Univ.; JST PRESTO; Univ. of Tsukuba) KOMORIYA, Kazuki; MAEDA, Yutaka; HASEGAWA, Tadashi; AKASAKA, Takeshi

#### Conductor

- 1PB-070** Preparation of New Anionic Donors, *N*-Alkylsulfo-phenothiazine (Alkyl = propyl, butyl), and their Charge-transfer Salts (Univ. of Hyogo) KOBAYASHI, Kenji; AKUTSU, Hiroki; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi
- 1PB-071** Structures and Properties of Anionic Acceptor 2-Sulfo-3,5,6-tribromo-1,4-benzoquinone and their Charge-transfer Salts (Univ. of Hyogo) SAKAUE, Shohei; AKUTSU, Hiroki; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi
- 1PB-072** Structures and physical properties of complexes with novel iodine-bonded TTP donors (Dept. Chem., TMU) ISO, Daisuke; OSAKI, Kunihiko; KOJIMA, Masayuki; SASAMORI, Kouta; KIKUCHI, Koichi; FUJITA, Wataru; KODAMA, Takeshi; YAMADA, Jun-ichi
- 1PB-073** Synthesis of the monochlorinated derivative of EDO-TTF (LTM, Kyoto Univ.) ISHIKAWA, Manabu; NAKANO, Yoshiaki; URUICHI,

- Mikio; YAKUSHI, Kyuya; YAMOCHI, Hideki
- 1PB-074** Synthesis and physical properties of a new unsymmetrical EOM-MDT-TTF donor and its CT complexes (School of Sci. & Eng., Aoyama Gakuin Univ.) INAYOSHI, Tomoko; HIRATA, Kentarou
- 1PB-075** Vibrational Spectrum of (DMEDO-EBDT)<sub>2</sub>PF<sub>6</sub> (LTM, Kyoto Univ.) NAKANO, Yoshiaki; MORIKAWA, Toru; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yohji; URUICHI, Mikio; YAKUSHI, Kyuya; YAMOCHI, Hideki
- 1PB-076** Synthesis and physical properties of new extended TTF-based conductors containing ethylenedioxy group (Graduate School of Science and Engineering, Ehime Univ.) TAKAHASHI, Mamoru; MORIKAWA, Toru; SHIRAHATA, Takashi; MISAKI, Yohji
- 1PB-077** Development of photo-functional materials using TTF derivatives substituted by BODIPY framework (Grad. School of Sci., Osaka Pref. Univ.) TSUJIMOTO, Keijiro; YAMAMOTO, Shinya; FUJIWARA, Hideki; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 1PB-078** Development of multi-functional materials using TTF derivatives substituted with 1,3,4-benzothiazole (Grad. School of Sci., Osaka Pref. Univ.) HAYASHI, Sadayoshi; YOKOTA, Sayo; FUJIWARA, Hideki; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 1PB-079** Development of photofunctional materials using TTF-transition metal quinolinato composite molecules (Grad. School of Sci., Osaka Pref. Univ.) YAMAMOTO, Shinya; FUJIWARA, Hideki; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 1PB-080** Structure and electric conductivity of Yttrium diphthalocyanine FeCl<sub>4</sub> (Graduate School of Systems Engineering, Wakayama Univ.) SHIBANO, Yutaka; YAMAKADO, Hideo
- 1PB-081** Structure and electric conductivity of M<sub>2</sub>P-BHETCNQ<sub>3</sub> (Graduate School of Systems Engineering, Wakayama Univ.) NOGAWA, Takahiro; YAMAKADO, Hideo
- 1PB-082** Structure and solid state properties of (Hexathiapentacene)I (Graduate School of Systems Engineering, Wakayama Univ.) TOKOYAMA, Hiroaki; YAMAKADO, Hideo
- 1PB-083** Structure and Properties of Oligothiophenes with beta-Linkage of Terminal Thiophene Units (Tokyo Institute of Technology) ASHIZAWA, Minosu; NIIMURA, Takuro; YU, Yan; MORI, Takehiko; TANIOKA, Akihiko
- 1PB-084** Physical properties of (BEDT-TTF)<sub>2</sub>I<sub>3</sub> nanoparticles prepared by ballmilling (Kobe Univ.) SUGIYAMA, Hiroki; FUNABIKI, Akira; MOCHIDA, Tomoyuki; ICHIMURA, Kunihiko; FURUKAWA, Ko; NAKAMURA, Toshiyazu
- 1PB-085** Theoretical study of quantum transport through DNA (IMCE, Kyushu Univ.) TSUJI, Yuta; STAYKOV, Aleksandar; YOSHIZAWA, Kazunari
- (Kobe Univ.) FUKE, Kiyokazu; FUJIHARA, Akimasa; TONA, Masahide; ISHIKAWA, Haruki; SAKURAI, Makoto
- 1PB-098** Theoretical studies on the reactions of phenyl and benzyl radicals with their precursors (AIST; Univ. of Tokyo) TSUCHIYA, Kentaro; KOSHI, Mitsuo
- 1PB-099** Dissociative Photoionization of *cis*-Hexafluorocyclobutane (Hiroshima Univ.; IMS; Grad. Univ. Adv. Studies) NAKASHIMA, Toru; OKADA, Kazumasa; CHODA, Mitsuru; SAKAI, Masamichi; KATAYANAGI, Hideki; MITSUKE, Koichiro
- 1PB-100** Dissociation mechanism of excited CHX<sub>3</sub> (X = Cl, Br, I) neutrals using charge inversion mass spectrometry (Osaka Pref. Univ.) ICHIMORI, Aya; TSUJINAKA, Taiga; HAYAKAWA, Shigeo
- 1PB-101** Fragmentation Processes of the Inner-Shell Excited 3,3,3-Trifluoropropene Molecule by an Ion-Ion Coincidence Technique (Hiroshima Univ.; KEK) CHODA, Mitsuru; OKADA, Kazumasa; SUEMITSU, Atsushi; ADACHI, Jun-ichi; YAGISHITA, Akira
- 1PB-102** Separation of carbon isotopes by infrared multiphoton dissociation of  $\beta$ -propiolactone (Tokyo Univ. of Sci.) HATA, Hiroo; ARAI, Shigeoyoshi; KATOU, Yoshiyasu; TSUKIYAMA, Koichi
- 1PB-103** Polymer matrix effects on fluorescence behavior of single charge-transfer complexes II (Kyoto Inst. Tech) YAMANE, Yasumasa; SUGIYAMA, Dai; MASUO, Sadahiro; MACHIDA, Shinjiro; TAKEI, Satoshi; ITAYA, Akira
- 1PB-104** Photon Antibunching Behavior of Single Quantum Dot: Excitation Intensity, Pulse Width and Particle Size Dependence (Dept. Macromol. Sci. and Eng., Kyoto Inst. Tech) TAKAHASHI, Yohei; MASUO, Sadahiro; MACHIDA, Shinjiro; ITAYA, Akira
- 1PB-105** Fluorescence properties of nanosized charge-transfer complex crystals revealed by single molecule spectroscopy (Kyoto Inst. Tech) NAKA, Kento; YAMANE, Yasumasa; MASUO, Sadahiro; MACHIDA, Shinjiro; ITAYA, Akira
- 1PB-106** Study on Stability of Gold-Silver Binary Clusters Protected by Thiolates (Tokyo Univ. of Science) IDE, Mao; IWAI, Takeyuki; NEGISHI, Yuichi
- 1PB-107** Precise Synthesis and Photoresponse Behavior of Au<sub>25</sub> Clusters Protected by Thiolate-Terminated Azobenzene Molecules (Tokyo Univ. of Science) WATANABE, Keita; SUGIYAMA, Shinpei; NEGISHI, Yuichi
- 1PB-108** Quantum yield measurement system by Hemi Sphere system, and evaluation by Standard sample (Otsuka Electronics Co., Ltd. Shiga-factory) OSAWA, Yoshihiro; HARUTA, Mayuko
- 1PB-109** Properties and reaction mechanism of polyoxometalate cluster batteries (Nagoya Univ.) HAMANAKA, Shun; WANG, Heng; YOSHIKAWA, Hirofumi; YOKOYAMA, Toshihiko; AWAGA, Kunio
- 1PB-110** Effect of Counter Anions for Cobalt(II) Cation at Cobalt Deposition on a Glassy Carbon Electrode (Tokai Univ.) KOMATSU, Masaharu; INOUE, Yoshihiko
- 1PB-111** Gamma-ray and pulsed electron radiolysis studies on the reaction of solvated electrons in room temperature ionic liquids of alkylammonium salts. (Japan Atomic Energy Agency) KIMURA, Atsushi; TAGUCHI, Mitsumasa; KONDOH, Takafumi; JINFENG, Yang; YOSHIDA, Yoichi; HIROTA, Koichi
- 1PB-112** Global geometrical analysis of polyhedral clusters by quantum chemical calculations (Ochanomizu Univ.) KIKUCHI, Hitomi; MORI, Hiroto; TSUCHIDA, Noriko; TAKANO, Keiko
- 1PB-113** Photo-induced Charge Separation of Phenothiazine-Anthraquinone Dyad Linked with Bicyclo[2.2.2]octane (Osaka City Univ., Graduate School of Science) KARIMATA, Ayumu; SUZUKI, Shuichi; KAWAUCHI, Hidehito; SUGIMURA, Ryoji; KOZAKI, Masatoshi; KEYAKI, Kazutoshi; NOZAKI, Koichi; OKADA, Keiji
- 1PB-114** Photoinduced Charge Separation of Bipyridine-diacetylde Platinum Complexes Linked with Phenothiazine and Naphthaldiimide Moieties (Grad. Sch. Sci., Osaka City Univ; Grad. Sch. Sci. Eng., Univ. of Toyama) SUGIMURA, Ryoji; SUZUKI, Shuichi; KOZAKI, Masatoshi; KEYAKI, Kazutoshi; NOZAKI, Koichi; OKADA, Keiji
- 1PB-115** Electronic structure and photophysical properties of oligo-acetylene linked pyrene dimers (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) ASANO, Motoko; KITABAYASHI, Masato; KUDAKA, Mami; YAMASHITA, Ken-ichi; HADA, Masahiko; FUJINO, Tatsuya; SUGIURA, Ken-ichi
- 1PB-116** photoexcitation dynamics of HPA hydroxylase (Institute for Laser Technology) TANIGUCHI, Seiji; CHOSROWJAN, Haik; MATAGA, Noboru; TANAKA, Fumio; CHAIYEN, Pimchai
- 1PB-117** Photo-induced Electron Transfer of Pendant-type Platinum Complexes with Triphenylamine and Naphthaldiimide Redox-Couples (Grad. Sch. Sci., Osaka City Univ; Grad. Sch. Sci. Eng., Univ. of Toyama) HORIKOSHI, Takafumi; SUZUKI, Shuichi; SUGIMURA, Ryoji; KOZAKI, Masatoshi; KEYAKI, Kazutoshi; NOZAKI, Koichi; OKADA, Keiji
- 1PB-118** The electron transfer dynamics of polystyrene in solution phase in femtosecond- nanoseconds time regions. (Graduate School of Engineering Science, Osaka Univ.) KATAYAMA, Tetsuro; MORII, Yuji; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi
- 1PB-119** Cycloreversion Reaction Dynamics of Diarylethene Derivatives : Relation between the one-photon and multiphoton reaction profiles (Graduate School of Engineering Science, Osaka Univ.) OTA, Chikashi; OKUNO, Katsuki; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi;

### Magnetic Property

- 1PB-086** A new ferrimagnet based on organic radical cations with a transition metal anion (Dept. Chem., TMU) SUZUKI, Ken-ichi; KODAMA, Takeshi; KIKUCHI, Koichi; FUJITA, Wataru
- 1PB-087** Preparation and Properties of New Dithiolene Ligands, 1,3,2-Dithiazole-4-thione-5-thiolate (Tokyo Metropolitan Univ.) FUJITA, Wataru; KIKUCHI, Koichi
- 1PB-088** Fabrication of dilute magnetic semiconductor quantum well structure using organic-inorganic perovskite-type compounds (Tohoku Univ.) SAITO, Hiroto; KOSHIMIZU, Masanori; ASAI, Keisuke

### Optical Property

- 1PB-089** Single-Particle Spectroscopy and Energy Transfer Dynamics of CdTe Quantum Dots Bound to DNA (Kwansei Gakuin Univ., School of Science and Technology) KUDO, Shinya; TAMAI, Naoto
- 1PB-090** Structural and photophysical analyses of CdTe nanocrystals capped with thioalcohols (Kwansei Gakuin Univ.; School of Science and Technology) MATSUMOTO, Yusuke; KOBAYASHI, Yoichi; YAMAZAKI, Yuhei; YAMAGUCHI, Hiroshi; TAMAI, Naoto
- 1PB-091** Effects of solvents, bases and lucigenin concentration on lucigenin chemiluminescence. (Kyushu Kyoritsu Univ.; Kyushu Institute of Tech.) YOSHINAGA, Tetsutaro; TOYOSE, Yasushi; TAHARA, Chiaki; SHINODA, Michiyo
- 1PB-092** Control of Molecular Adsorption and Desorption to Coordination Polymers by Photoirradiation (Hokkaido Univ.) MURAMATSU, Naoki; TAKEDA, Sadamu; KAGEYAMA, Yoshiyuki; MARUTA, Goro

### Physical Chemistry -Chemical Kinetics and Dynamics-

- 1PB-095** Influence of vertical magnetic field in Belousov-Zhabotinsky Reaction (Fac. Pharm., Osaka Ohtani Univ.) NISHIKIORI, Rika; MORIMOTO, Shotaro; TANIMOTO, Yoshifumi; FUJIWARA, Yoshihisa
- 1PB-096** Electro transfer dissociation using alkali metal targets of silver bromide cluster Ag<sub>3</sub>Br<sub>2</sub>, Ag<sub>2</sub>Br and silver trimer Ag<sub>3</sub>. (Osaka Univ.) MATSUI, Yusuke; HAYAWAKA, Sigeo; NAGAO, Hirofumi; TOYODA, Michisato
- 1PB-097** Development of gas-phase NMR spectrometer for mass-selected ions

KOBATAKE, Seiya; IRIE, Masahiro

- 1PB-120** Single particle spectroscopy and defect luminescence of CdS quantum dots (Kwansei Gakuin Univ., School of Science) MORI, Tsukasa; NISHIMURA, Takatoshi; KOBAYASHI, Yoichi; TAMAI, Naoto
- 1PB-121** Photo induced crystallization of protein with mechanical vibration (Dept. Chem. Biol., Gunma Univ.) KURIMOTO, Shigeru; MOTEKI, Itsuro; HORIUTI, Hiroaki; HIRATSUKA, Hiroshi; OKUTSU, Tetsuo
- 1PB-122** Photoreaction of *o*-chlorobenzyl alcohol upon UV irradiation (Shinshu Univ.) FUJIWARA, Hiroki; NISHIKIYORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsunoo
- 1PB-123** Fluctuation in dye-labeled single-stranded DNA under periodic irradiation of near-infrared pulsed laser: application of single-molecule photon statistics (Graduate School of Engineering Science, Osaka Univ., Center for Quantum Science and Technology under Extreme Conditions, Osaka Univ.) KAJI, Takahiro; ITO, Syoji; IWAI, Shigenori; MIYASAKA, Hiroshi
- 1PB-124<sup>#</sup>** Ultrafast fluorescence dynamics of pyranose-2-oxidase (P2O) and its point mutants (Institute for Laser Technology) CHOSROWJAN, Haik; MATAGA, Noboru; TANIGUCHI, Seiji; TANAKA, Fumio; WONGNATE, Thanyaporn; CHAIYEN, Pimchai
- 1PB-125** Fluorescence enhancement of phosphorescent compounds (Toho Univ.) YAGISHITA, Mayuko; NAKADA, Yoshimoto; OHSHIMA, Shigeru
- 1PB-126** Photoreaction of ketoprofen in bovine serum albumin (Tokyo Institute of Technology) SEKO, Komomo; SUZUKI, Tadashi; ICHIMURA, Tejiro
- 1PB-127** Syntheses of Fluorescent Peptides Labeled with 7-Diethylaminocoumarin and Their Photophysical Properties in Liposome Membranes (Gunma Univ.) MURASE, Tokiko; YOSHIHARA, Toshitada; YAMADA, Keiichi; TOBITA, Seiji
- 1PB-128** Charge Transfer of ADMA in Ionic Liquids (Graduate School of Engineering Science and Center for Quantum Material Science under Extreme Conditions) MORISHIMA, Satoe; MURAMATSU, Masayasu; NAGASAWA, Yutaka; ITO, Syoji; MIYASAKA, Hiroshi
- 1PB-129** The effect of element in group 14 on the photosensitization of singlet molecular oxygen by porphyrin analogs (Department of Chemistry and Chemical Biology, Gunma Univ., Department of Chemistry, Tohoku Univ., Institute for Molecular and Cellular Regulation, Gunma Univ.) HORIUCHI, Hiroaki; MASHIO, Hiroyuki; ISHIDA, Shintaro; KYUSHIN, Soichiro; MATSUMOTO, Hideyuki; HOSAKA, Masahiro; TAKEUCHI, Toshiyuki; HIRATSUKA, Hiroshi

## Inorganic Chemistry

- 1PB-131** Elution Behavior of Phosphate Contained in Mg-Fe Layered Double Hydroxide (The Univ. of Tokushima) OCHI, Takaaki; KURASHINA, Masashi; KANEZAKI, Eiji
- 1PB-132** Preparation and Ion Exchange of Layer Structured Crystal  $Rb_3Ti_5NbO_{14}$  (Tokuyama College of Technology) OHASHI, Masao; KATO, Maya
- 1PB-133** Intercalation into nitric acid type of layered double hydroxide with oxidation of mercapto group and its adsorption of heavy metal ions (Kobe Pharm. Univ.) HAYASHI, Aki; MORITA, Naoko; YAMAMOTO, Naoto; NAKAYAMA, Hirokazu
- 1PB-134** Synthesis and pore properties of pillared micas using novel Ge-substituted swellable fluorine micas (Shinshu Univ.) YAMAGUCHI, Tomohiro; OHBA, Hironobu; TARUTA, Seichi; KITAJIMA, Kunio
- 1PB-135<sup>†</sup>** Sheet resistance of a single nanosheet crystallite of ruthenium oxide (Shinshu Univ.) SATO, Jun; KATO, Hisato; FUKUDA, Katsutoshi; KIMURA, Mutsumi; SUGIMOTO, Wataru
- 1PB-136** Nanosheet lighting: Utilization of oxide nanosheets for advanced lighting materials (International Center for Materials Nanoarchitectonics, NIMS) OZAWA, Tadashi C.; FUKUDA, Katsutoshi; AKATSUKA, Kosho; EBINA, Yasuo; SASAKI, Takayoshi
- 1PB-137** Synthesis and property of layered double hydroxide dispersed polysaccharide sheet (Iwate Univ.) TOBISAWA, Makiko; AISAWA, Sumio; TAKAHASHI, Satoshi; HIRAHARA, Hidetoshi; NARITA, Eiichi
- 1PB-138** Synthesis of  $Al_2O_3$ - $TiO_2$ - $In_2O_3$  system compounds (College of Humanities and Sciences, Nihon Univ.) KOSHIKAWA, Miduki; FUJIMORI, Hiroki; NAKAMURA, Yulia
- 1PB-139** Precise shape control of gold nanorods using mesoporous silica (Toyohashi Univ. of Tech.) KAWAMURA, Go; FITRAH, Rahmat Ali; HAYASHI, Ikuo; HAMAGAMI, Jun-ichi; SAKAI, Mototsugu; MATSUDA, Atsunori
- 1PB-140** Influence of synthesis processes on the formation of by-products for type II silicon clathrate synthesis. (Gifu Univ.; Gifu National College of Technology) SUZUKI, Takatoshi; UENO, Hiroyuki; BABA, Tatsuya; KOKETSU, Ryuzo; OHASHI, Fumitaka; BAN, Takayuki; OHYA, Yutaka; KUME, Tetsuji; NATSUHARA, Hironori; NONOMURA, Shuichi; IIDA, Tamio; HABUCHI, Hitoe
- 1PB-141** Metal Complexes by Reaction of Gadolinium (III) Oxide and Holmium (III) Oxide with Diethylenetriaminepentaacetic Acid: Purification and Characterization (Tokyo National College of Technology) YONEKAWA, Minoru; KUDO, Shoji; KUDO, Setsuko; SAIGA, Akihiro
- 1PB-142** Phase transition and Optical properties of Perovskite tin(II) iodide (Graduate College of Industrial Tech. Nihon Univ.) NAKADA, Kyosuke; YAMANE, Yohei; YAMADA, Koji

## Energy and Related Chemistry

- 1PB-145** Preparation and characteristic evaluation of non-platinum counter electrode for dye-sensitized solar cells (Tokyo City Univ.) KANZAKI, Sho; KOBAYASHI, Koichi; TAKAHASHI, Masashi
- 1PB-146** Preparation of  $Cu_{1-x}Ag_xInS_2$  thin films using spray pyrolysis (Research Center for Solar Energy Chemistry, Osaka Univ.) NONOGAKI, Midori; NAKAMURA, Takayuki; YAGI, Tetsuro; HARADA, Takashi; IKEDA, Shigeru; MATSUMURA, Michio
- 1PB-147<sup>†</sup>** Effects of photo-irradiation on sonochemical reactions of carboxylic acids (Graduate School of Sci. & Eng., Meisei Univ.) TANAKA, Hisashi; ABURAI, Ikuo; HARADA, Hisashi
- 1PB-148** Addition effect of acetic acid on yield of hydrogen from the solution under sonication (Grad. School of Meisei Univ.) GOTO, Mika; TANAKA, Hisashi; HARADA, Hisashi
- 1PB-149<sup>†</sup>** Dehydrogenation of succinic acid and isomerization of maleic acid and fumaric acid each other by ultrasonic irradiation (Meisei Univ.) NARUEK, Yukio; HARADA, Hisashi
- 1PB-150** Effect of dopant species on proton conduction and environment in tin pyrophosphate (AIST, Chubu; Nagoya Univ.) NISHIDA, Masakazu; GENZAKI, Koji; FUKAYA, Haruhiko; KANEMATSU, Wataru; HIBINO, Takashi
- 1PB-151** Preparation and Protonic conductivity of Hydrogen-bonding inorganic acid solid-solutions  $(CsHSO_4)_{1-x}(MHPO_4)_x$  ( $M = Ba, Pb$ ) (College of Industrial Tech. Nihon Univ.) YAMANE, Yohei; SUZUKI, Hiroki; YAMADA, Koji
- 1PB-152** Phase transition and protonic conductivity of solid acids  $(CsHSeO_4)_{1-x}(CsH_2PO_4)_x$  (Graduate College of Industrial Tech. Nihon Univ.) MURASE, Haruki; YAMANE, Yohei; YAMADA, Koji
- 1PB-153** Composite electrolytes containing mechanochemically treated  $CsHSO_4$ -WSiA with PBI for medium temperature fuel cell under non-humidifying condition (Toyohashi Univ. of Technology) YOSHIDA, Toshihiro; OH, Song-yul; KAWAMURA, Go; HAMAGAMI, Jyuichi; MUTO, Hiroyuki; SAKAI, Mototsugu; MATSUDA, Atsunori
- 1PB-154** Development of Adsorbent for Adsorption Heat Pump for Low-temperature Waste Heat Recovery (FUJITSU LABORATORIES LTD.) MANABE, Toshio; ASO, Noriyasu; YOSHIDA, Hiroaki; TAKEI, Fumio; SUMIYA, Tadayoshi; KOBAYASHI, Noriyuki
- 1PB-155** Self-Organization of Porous Structure by Chemical Etching of Titanium (Fukushima-NCT Advanced Course) KAMO, Yoichi; SAKAMAKI, Kenji

Friday, March 26, PM

(15:00~16:30)

## Theoretical Chemistry, Informatics Chemistry and Computational Chemistry

### Electronic state

- 1PC-001** Theoretical study on proton transfer pathway at protein-bulk water interface. (Univ. of Hyogo) SHIGETA, Yasuteru; KAMIYA, Katsumasa
- 1PC-002** Evaluation of accuracy of excited-state calculations for phenanthroline metal complexes based on theoretical Franck-Condon analysis (Univ. of Toyama) SO, Jun; NOZAKI, Koichi
- 1PC-003** A theoretical study of substituent effect of phosphonium ligands on the stability of molybdenum complexes (Ochanomizu Univ.) SUTO, Hitomi; TSUCHIDA, Noriko; NAKAZAWA, Hiroshi; TAKANO, Keiko

### Chemical Reaction

- 1PC-004** Theoretical Study of the Reaction of  $ClONO_2 + HCl$  on Ice (Dep. of chem., Osaka Pref. Univ.) OKAJIMA, Toshiyuki; ASADA, Toshio; KOSEKI, Shiro
- 1PC-005** Quantum Chemical Study on the Reaction Mechanism of Diol Dehydratase (IMCE, Kyushu Univ.) DOITOMI, Kazuki; KAMACHI, Takashi; TORAYA, Tetsuo; YOSHIZAWA, Kazunari
- 1PC-006** A theoretical study for stability of  $H(CO)CO$  radical (National Institute of Advanced Industrial Science and Technology) SETOKUCHI, Osamu
- 1PC-007** Theoretical study on the photocyclization reaction of Dithienylethene containing metal complexes (Mitsubishi Chemical Corporation, Yokohama Research Center) HATAKEYAMA, Makoto; AKITA, Munetaka; KOIKE, Ryuuji; YOKOJIMA, Satoshi; NAKAMURA, Shinihirou
- 1PC-008** Theoretical study of the mechanism of  $N_2$  conversion on an Mo complex bearing ferrocenyldiphosphine ligands (Kyushu Univ.) SASADA, Akira; TANAKA, Hiromasa; KOUNO, Tomohisa; YUKI, Masahiro; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki; YOSHIZAWA, Kazunari
- 1PC-009** Theoretical study of thermal addition reaction of acylpolysilane with acetylene (Institute for materials chemistry and engineering, Kyushu Univ.) KONDO, Yoshiyuki; SHIOTA, Yoshihito; NAKA, Akinobu; ISHIKAWA, Mitsuo; YOSHIZAWA, Kazunari



- 1PC-010** Fluoromethane's catalytic C-F bond cleaving using lanthanide mono cations: A reaction path analysis by relativistic quantum chemical calculation (Ochanomizu Univ.) MATSUDA, Aya; MORI, Hirotochi
- 1PC-011** Study on Reaction Mechanisms in Halogenations of Cyclopentene with Homolytically or Heterolytically Dissociated Halogen (Graduate School of Tokyo Gakugei Univ.) NAGASHIMA, Hiroshi; IKUO, Akira; YOSHINAGA, Yusuke; OGAWA, Haruo

### Dynamics

- 1PC-012<sup>#</sup>** ReaxFF Simulation of Fullerene Formation in Benzene Combustions (Nagoya Univ.; Institute for Advanced Research) QIAN, Hu-jun; van Duin, Adri; SAHA, Biswajit; MOROKUMA, Keiji; IRLE, Stephan
- 1PC-013<sup>#</sup>** Early Stages in the Nucleation Process of Carbon Nanotubes: Density-Functional Tight-Binding Molecular Dynamics Simulations of Acetylene Polymerization and Cross-Linking on an Fe38 Particle (Nagoya Univ.; Institute for Advanced Research) WANG, Ying; OHTA, Yasuhito; QIAN, Hujun; IRLE, Stephan; MOROKUMA, Keiji

### Bio

- 1PC-014** A Density Functional Study on Molecular Structure of Manganese-Guanine Complexes (Mie Univ.) ICHINO, Tomoya; MITANI, Masaki; YOSHIOKA, Yasunori
- 1PC-015** Computational modeling of carbohydrate recognition process in selectin complex (RICS, AIST) ISHIDA, Toyokazu
- 1PC-016** A Density Functional Study on Ion Binding Structures of the KcsA Potassium Channel (Mie Univ.) MITANI, Masaki; OKUDA, Mitsuru; KANAMORI, Daiki; MIZUNO, Yuya; YOSHIOKA, Yasunori

### Material

- 1PC-017** Theoretical investigation on electron transfer using QM/MM MD method (Dept. Chem., Osaka Pref., Univ.) OTA, Kenichi; ASADA, Toshio; KOSEKI, Shiro
- 1PC-018** Theoretical studies on iridium(III) complexes doped an emitting layer in organic light emitting diodes (Dept. Chem., Osaka Pref., Univ.) HAMAMURA, Shuhei; ASADA, Toshio; KOSEKI, Shiro

### Simulation

- 1PC-019** Theoretical Representations of the Rotational Restriction of Substrate in the Deformed Cavity. (Miyakonojo National College of Technology) OKABE, Yuji
- 1PC-020** Prediction of the Growth Morphology of  $\beta$ -Succinic Acid (Science & Technology Systems, Inc.; Yamaguchi Univ.) WAIZUMI, Kenji; MITSUKE, Hironori; FUKUSHIMA, Nobihoro
- 1PC-021** Theoretical Study on the Hydration Free Energy of Amino Acid (Grad. Sch. Sci., Hiroshima Univ.) MIYAMOTO, Hidenori; AIDA, Misako

### Mathematical Chemistry

- 1PC-022** One effect by pressure promotion, affecting to the efficiency of the energy transfer (AIST) MISHIMA, Hiroshi

### Chemoinformatics

- 1PC-023** Development of GlycoNAVI: A Molecular Structure Tool (The Noguchi Institute) YAMADA, Issaku; MIZUNO, Mamoru
- 1PC-024** Description of the flavor molecules in "Flavor Chemicals Database" by the calculated electric charges and spectra (Kisarazu National College of Tech.) YOSHII, Fumiko

### Saturday, March 27, AM

(10 : 00~11 : 30)

### Physical Organic Chemistry -Structures and Properties-

- 2PA-001<sup>†</sup>** Effect of Alkyl-Chain Length on the Physicochemical Properties for 1,2,3-Trialkylimidazolium Salts. (Graduate School of Advanced Integration Science, Chiba Univ.) MANDAI, Toshihiko; MUKAI, Tomohiro; NISHIKAWA, Keiko
- 2PA-002** Synthesis and properties of sulfide compound with 2-methyl-1,4-naphthoquinone unit (Kinki Univ.; JST; Univ. of Tsukuba; The Univ. of Tokyo) KINUTA, Takafumi; HASHIMOTO, Takenori; HARADA, Takunori; TAJIMA, Nobuo; SATO, Tomohiro; KURODA, Reiko; MATSUBARA, Yoshio; IMAI, Yoshitane
- 2PA-003** Crystal Structure of Coumarin-3-carbamate Derivative with Herbicidal Activity (Health Sci. Univ. Hokkaido; Kyuwhu Univ.) KUBO, Kanji; TAKAHASHI, Hajime; TEKECHI, Haruko; MATSUMOTO, Taisuke
- 2PA-004** The Origin of the Gauche Effect of 1,2-Dihaloethanes (Kochi Univ.) KANENO, Daisuke; TOMODA, Shuji
- 2PA-005** Design of Spur Gear Type Molecules with 9-Triptycyl Groups:

Effectsof Substituents and Intergear Distance (Okayama Univ. of Science) SHIMIZU, Takamasa; SHIGEHARA, Toshiyuki; IWANAGA, Tetsuo; TOYOTA, Shinji

- 2PA-006** Substituent Effects on CD Spectra of Enantiomers of 9,9'-Bianthryl-2,2'-dicarboxylic Acid Diesters (Okayama Univ. of Science) NOGAMI, Tomohiro; MATSUDA, Mitsuhiko; YAMAUCHI, Kazuyoshi; SHIMASAKI, Toshiaki; IWANAGA, Tetsuo; TOYOTA, Shinji
- 2PA-007** Synthesis and Properties of Trisindolylmethane Derivatives (Yamagata Univ.) YAMAGISHI, Kouki; ITO, Kazuaki
- 2PA-008** Synthesis and structural properties of novel polycondensed aromatic compounds with double-helicene structure derived from 4,9-bis(arylethenyl) pyrenes (Faculty of Science and Engineering, Saga Univ.) PAUDERU, Arjun; YAMATO, Takehiko
- 2PA-009** Synthesis, structure and reactivity of 1,2-dimethylene[2.n]metacyclophanes (Faculty of Science and Engineering, Saga Univ.) TAZOE, Kazuya; UCHIKAWA, Yuki; YAMATO, Takehiko
- 2PA-010** Synthesis, reactivities and structural properties of [2.n]metacyclophanes having functional groups at the bridged methylene chain (Faculty of Science and Engineering, Saga Univ.) UCHIKAWA, Yuki; TAZOE, Kazuya; YAMATO, Takehiko
- 2PA-011** Synthesis and Structure of Donor-Acceptor Type [3.3]Cyclophanes (IMCE, Kyushu Univ.; Grad. Sch. Sci., Kyushu Univ.; ISIR, Osaka Univ.) WATANABE, Motonori; GOTO, Kenta; FUJITSUKA, Mamoru; TOJO, Sachiko; MAJIMA, Tetsuro; SHINMYOZU, Teruo
- 2PA-012** Synthesis and properties of [3.3.5](3,6,9) carbazophane derivatives (Osaka Kyoiku Univ.) KIMURA, Yuichiro; TANI, Keita; HORI, Kazushige; BENTEN, Hiroaki; OHKITA, Hideo; ITO, Shinzaburo; YAMAMOTO, Masahide
- 2PA-013** Synthesis and Properties of Cyclophanes Bearing Silicone Atoms (Gunma Univ.) NOGUCHI, Taro; SHIMIZU, Hideyuki; NAKAMURA, Yosuke; NISHIMURA, Jun
- 2PA-014** Synthesis of 5,6-dicyanoazulene bearing various substituents at 1,2 or 3-positions (Grad. Sch. Sci. Eng., Univ. of Toyama) KANO, Taihei; UENO, Mikihiko; HORINO, Yoshikazu; MIYATAKE, Ryuta; ODA, Mitsunori; KURODA, Shigeyasu
- 2PA-015** Synthesis of fran condensed bridged tetrahydro thia[11]annulenedione and its derivatives. (Univ. of Toyama) KURODA, Shigeyasu; ABE, Takako; YANMEI, Zhang; MATSUMOTO, Naoko; ODA, Mitsunori
- 2PA-016** Synthesis of 3,4,8,9-tetra-substituted 1,6-methano[10]annulenes and related new pi conjugated systems (Grad. Sch. Sci. Eng., Univ. of Toyama) MATSUMOTO, Naoko; ZHANG, Yanmei; HORINO, Yoshikazu; ODA, Mitsunori; KURODA, Shigeyasu
- 2PA-017** Synthesis of 2',7'-disubstituted spiro[1H-azulonium-1,9'-fluorene] perchlorates (Shinshu Univ.; Univ. of Toyama) ODA, Mitsunori; KATO, Hiroe; KOTANI, Takayuki; KURODA, Shigeyasu
- 2PA-018** Synthesis and properties of thiopheno[11]annulonium cation. (Univ. of Toyama) SUGAHARA, Takashi; MINO, Maiko; ODA, Mitsunori; HORINO, Yoshikazu; KURODA, Shigeyasu
- 2PA-019** Synthesis and reactivity of Lithium 1,6-Methano-[10] annuleno-2,3-cyclopentadienide (Univ. of Toyama) OHIRA, Masayuki; ODA, Mitsunori; MIYATAKE, Ryuta; HORINO, Yoshikazu; KURODA, Shigeyasu
- 2PA-020** Interaction between the triene and anion parts in 7-nitromethylcycloheptatrienyl anion (Shinshu Univ.) ODA, Mitsunori; YONEMOTO, Hironori
- 2PA-021** Synthesis and properties of bridged[10]annulene condensed cyclopentadienyl anion. (Univ. of Toyama) MIYAMOTO, Daisuke; MIYATAKE, Ryuta; ODA, Mitsunori; KURODA, Shigeyasu
- 2PA-022** Molecular Arrangements of Octadehydrotribenzo[14]annulene with Methyl Ester Groups and Their Optical Properties (Graduate School of Engineering, Osaka Univ.) KOMETANI, Eriko; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
- 2PA-023** Synthesis and Fluorescent Characters of Tetrabenzofluorenes Bearing Functional Groups on Aromatic Rings (Grad. School of Eng., Univ. of Hyogo) UEDA, Yoshiaki; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PA-024** Synthesis and Fluorescent Characters of Tetrabenzofluorene Derivatives (Grad. School of Eng., Univ. of Hyogo) SHIBAMOTO, Hiroshi; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PA-025** Oxidation of diarylpyrenes with Cu(II) salt (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; NISHIMOTO, Kazuaki; ASANO, Motoko; SUGIURA, Ken-ichi
- 2PA-026** A Synthetic Approach for the Construction of Carbon Nanotube Segment (Hirosaki Univ.) ITO, Shunji; TAKAHASHI, Kei; KUDO, Shun; KAWAKAMI, Jun
- 2PA-027** Synthesis and Structures of 1,8-Anthrylene-ethynylene Cyclic Pentamers and Hexamers (Okayama Univ. of Science) KAWAKAMI, Takahiro; SUGIKI, Rie; IWANAGA, Tetsuo; TOYOTA, Shinji
- 2PA-028** Synthesis and Properties of Perylene Bisimide Derivatives incorporated with Anthracene Donors (Okayama Univ. of Science) IDA, Hiroko; IWANAGA, Tetsuo; TOYOTA, Shinji
- 2PA-029** Effects of Terminal Substituents on Photochemical Cycloaddition of 1,8-Anthrylene-ethynylene Trimers (Okayama Univ. of Science) TAKATSU, Akiko; FUJITA, Koutaro; KUGA, Makoto; WAKAMATSU, Kan; IWANAGA, Tetsuo; TOYOTA, Shinji
- 2PA-030** Construction of star-burst donor and acceptor pi system (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) FUJIO,

- Takashi; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko
- 2PA-031** Synthesis of Cruciform pi-systems for Multipoint Immobilization on Au Substrates (Tokyo Metropolitan Univ.) AO, Deligen; NARITA, Tomoyuki; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko
- 2PA-032** Studies on the Synthesis of Metal Complexes of 4-Aminopyridine-3-thiolate towards the Proton-Coupled Electron Transfer (Graduate School of Science, Osaka Univ.) KITAYAMA, Naoki; MATSUMOTO, Kouzou; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi
- 2PA-033** Construction of Novel Acenes by Using Intramolecular Bergmann Cyclization (Tokyo Metropolitan Univ.) HASEYAMA, Kahori; NARITA, Tomoyuki; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko
- 2PA-034** Synthesis and Properties of 2,3,6,7-Tetraphenyl-naphthalene Derivatives (Univ. of Hyogo) MATSUMOTO, Takeshi; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PA-035** Synthesis and Properties of Chrysene Derivatives Possessing Substituent Groups at 1,4,7,10 Positions (Univ. of Hyogo) INOUE, Naoto; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PA-036** Synthesis of Zethrene Derivatives (Osaka Univ.) HIBI, Daijiro; UMEDA, Rui; TAKEDA, Takasi; TOBE, Yoshito
- 2PA-037** Synthesis and Properties of Extended Indacene Derivatives with Aryl Substituents (Kansai Univ.; Osaka Univ.) UMEDA, Rui; UNZAI, Takayuki; NISHIYAMA, Yutaka; TOBE, Yoshito
- 2PA-038** Synthesis and Properties of Bromotetracenes Possessing Alkyl Side Chains (Univ. of Hyogo) TAKA, Naohiro; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PA-039** Synthesis and Properties of Tetracenes Possessing Linear and Branched Alkyl Chains at the 1, 4, 7, and 10 positions (Univ. of Hyogo) KANO, Hiroyuki; KITAMURA, Chitoshi; KAWASE, Takeshi; KOBAYASHI, Takashi; NAITO, Hiroyoshi
- 2PA-040<sup>#</sup>** Synthesis and aggregate property of new coronene derivatives (JAIST, School of Materials Science) MEDA, Narsireddy; SAKAI, Hayato; SANDANAYAKA, Atula S.D.; HASOBE, Taku
- 2PA-041** Synthesis and Association Behavior of Amphiphilic Porphyrin Dendrimers with Rigid Backbones and Hydrophilic Terminals (Graduate School of Science, Osaka City Univ.) YAGI, Sadayuki; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji
- 2PA-042** Construction of a novel shape-persistent assembly of dendritic molecules by multiple hydrogen bonds (Dept. Chem., Osaka City Univ.) TANAKA, Sachiko; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji
- 2PA-043** Reactions of Polyarylbutatrienes with Electron-Deficient Double Bonds: Generation of Intriguing Compound Containing Trivalent sp<sup>2</sup>-Hybridized Nitrogen (Graduate School of The Univ. of Tokushima) HIDA, Kazuo; KAWANAMI, Hiroyuki; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 2PA-044** Synthesis and properties of aminoterpriidine oligomers by palladium-catalyzed reaction (IIS, The Univ. of Tokyo) KAMOYA, Yuka; KOJIMA, Keisuke; MUTAI, Toshiki; ARAKI, Koji
- 2PA-045** Synthesis of Tetraquinothiophene (Graduate School of Science, Osaka Univ.) INOUE, Taihei; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi
- 2PA-046** Synthesis of the acetylene-bridged bisphenalenyl: A delocalized singlet biradical molecule (Graduate School of Science, Osaka Univ.) ISHIDA, Megumi; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 2PA-047** Structure and Nonlinear Optical Properties of the First Stable p-Quinopropadienes (Univ. of Hyogo; Univ. of Cambridge; Univ. of Leuven) HORIUCHI, Kaoru; KITAMURA, Chitoshi; KAWASE, Takeshi; WENG, Z. F.; COLE, Jacqueline M.; PEREZ-MORENO, Javier; CLAY, Koen
- 2PA-048** Development of new  $\pi$ -conjugated system using photo- and electron-transfer cyclization reaction of tetrathienylethene (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) KISHIGAMI, Nao; IKEDA, Hiroshi; TSUKAHARA, Norihiro; MIZUNO, Kazuhiko
- 2PA-049** Synthesis and electrochemical properties of [4]dendralene derivative with 1,3-dithiole ring. (Graduate School of Science and Engineering, Ehime Univ.) INOUE, Takuma; REHAN; YASUMOTO, Syuhei; NISIWAKI, Masataka; KAWASAKI, Yuji; SIRAHATA, Takasi; MIYAMOTO, Hisakazu; MISAKI, Yohji
- 2PA-050** Synthesis and Properties of a Diacene[naphtho[1,2-b;1',2'-d]silole (Graduate School of Engineering, Univ. of Hyogo.) NAGASAKA, Yoshiharu; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PA-051** Synthesis and Properties of Pi-Expanded Cyclic Oligothiophenes Having 8,12, and 16 Thiophene Rings. (Tokyo Metropolitan Univ.) SAITOU, Hiroki; TABATA, Chika; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko
- 2PA-052** Synthesis and properties of thioalkyl substituted dithienothiophene dimers bearing antiaromatic ring (Tokyo Metropolitan Univ.) NOZAWA, Yuto; NISHINAGA, Tohru; TAKASE, Masayoshi; IYODA, Masahiko
- 2PA-053** Synthesis and Properties of Thiophene analogues (Grad. Sch. Sci., Kitasato Univ.) KAWAMOTO, Kyoko; HASEGAWA, Masashi; MAZAKI, Yasuhiro
- 2PA-054** Synthesis and Properties of dithienylpyrrole derivatives end-capped with methylthio group (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) KOIZUMI, Masahide; NISHINAGA, Tohru; TAKASE, Masayoshi; IYODA, Masahiko
- 2PA-055** Formation of the rotaxane structure based on the charge-transfer complex utilizing the aromatic compounds having some oligothiophene chains (Department of Applied Chemistry, Kyushu Institute of Technology) SAKAI, Kazuki; MORIGUCHI, Tetsuji; ARAKI, Kouji; TSUGE, Akihiko
- 2PA-056** Synthesis of highly pi-conjugated compounds by intramolecular oxidative coupling of bicyclo[2.2.2]octadiene-fused pyrrole (Graduate School of Science and Engineering, Ehime Univ.) UOYAMA, Hiroki; TAKIUE, Takahiro; MASUDA, Go; UNO, Hidemitsu
- 2PA-057** Synthesis and Properties of Diarylethene Derivatives Bearing Carbazole Moieties (Gunma Univ.) SUZUKI, Takashi; NAKAMURA, Yosuke; NISHIMURA, Jun
- 2PA-058** Synthesis of Polyheterocyclic Aromatic Compounds Fused Naphthimido Unit (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) UMEDA, Rui; NISHIDA, Hiroaki; OTONO, Motohiro; NISHIYAMA, Yutaka
- 2PA-059** Syntheses and structural properties of crescent and macrocyclic molecules containing nicotinic amide (Institute for Materials Chemistry and Engineering (IMCE), Kyushu Univ.) GOTO, Kenta; SHINMYOZU, Teruo
- 2PA-060** Synthesis of tetrazine derivatives that have two succinimide groups (Nara Inst. Sci. Tech.) MITSUI, Akihito; YUASA, Junpei; KAWAI, Tsuyoshi
- 2PA-061** Regioselective Synthesis and Photophysical Properties of Carbazole Nitroso Derivatives (Osaka Kyoiku Univ.) HORI, Kazushige; ANDO, Maki; YAMANAKA, Yuji; TANI, Keita
- 2PA-062** Synthesis and properties of carbazole derivatives containing phenylethynyl group (Osaka Kyoiku Univ.) IMAFUKU, Risa; TANI, Keita; HORI, Kazushige; BENTEN, Hiroaki; OHKITA, Hideo; ITO, Shinzaburo; YAMAMOTO, Masahide
- 2PA-063** Synthesis and Properties of Cation Radicals Derived from Tetra-thiafulvalenylallene (Grad. Sch. Sci., Kitasato Univ.) SONE, Yasuto; HASEGAWA, Masashi; MAZAKI, Yasuhiro
- 2PA-064** Stabilization and isolation of anthroxyl radical species (Graduate School of Science, Osaka Univ.) SAITO, Toru; KONISHI, Akihito; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 2PA-065** Synthesis and properties of pyromellitic diimide derivatives for novel n-type FET materials (IMCE, Kyushu Univ.) MATSUNAGA, Yuki; NAKAGAKI, Takeshi; SHINMYOZU, Teruo
- 2PA-066** Creation of novel molecular families of bridged donors by multiple formation of ring-fused lactones (School of Science, The Univ. of Tokyo) HAYASHI, Mikihiro; TOSHIMITSU, Fumiyuki; SAKAMOTO, Ryota; KUME, Shoko; NISHIHARA, Hiroshi
- 2PA-067** Synthesis and Properties of Novel Metal-Coordinated Acceptors Containing a 4,5-Diazafluorene Unit(2) (Nagoya Institute of Technology; Japan Women's Univ.; Kyushu Univ.) SAKO, Katsuya; MUGISHIMA, Yasufumi; TAKEMURA, Hiroyuki; WATANABE, Motonori; SHINMYOZU, Teruo; SHIOTSUKA, Michito; TATEMITSU, Hitoshi
- 2PA-068** Synthesis of polyphenylenes having ethynylimidazole side chains and the introduction of chirality with chiral acid (Nara Inst. Sci. Tech.) YASUDA, Naoto; TOBA, Masaya; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2PA-069** Benzothiadiazole-boronpyrromethene Fluorescent Dyes (Kurume National College of Technology) IKEDA, Kei; ISHII, Tsutomu
- 2PA-070** Synthesis and Optical Properties of 1,1'-Phenylene-2,2'-biimidazole Derivatives (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; BATMUNKH, Erdenebolor; SAKAMOTO, Keisuke; AKAZOME, Motohiro
- 2PA-071** Synthesis and Photochemical properties of Aromatic 1,3-diketona-toborinates (Sendai National College of Technology, Natori) ISHIYAMA, Jun-ichi; OMURA, Kento; ENDO, Tomoaki
- 2PA-072** Synthesis and Chromic Properties of Bianthrone Thiophene Analogues (Sch. Sci., Kitasato Univ.) TAKEHANA, Natsuki; HASEGAWA, Masashi; MAZAKI, Yasuhiro
- 2PA-073** Characterization of the single crystal organic field-effect transistors based on dinaphothienothiophene derivatives. (Tokai Univ.; Ushio Chemix Co.) ARAI, Tatsuya; TSUTSUI, Masanori; MAEDA, Hidetoshi; OKAMOTO, Kazuo; KUNUGI, Yoshihito
- 2PA-074** Synthesis and properties of donor-accepter compounds with anthracene core unit. (Interdisciplinary Grad. School of Sci., Tokyo Institute of Technology) SHOJI, Kohei; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 2PA-075** Regioselective Functionalization of Naphthalene and its Application to Synthesis of Organic Semiconductors (Hiroshima Univ.) NIIMI, Kazuki; SAITO, Masahiko; OSAKA, Itaru; MIYAZAKI, Eigo; TAKIMIYA, Kazuo
- 2PA-076** Study in Excimer Formation and Behavior of Pyrene Substituted BINOL Derivatives (Graduate School of Sciences, Kyushu Univ.; Institute for Materials Chemistry and Engineering (IMCE), Kyushu Univ.) TABUCHI, Shinichiro; ISHIZUKA, Kentaro; FURUNO, Hiroshi; ONITSUKA, Satoaki; INANAGA, Junji
- 2PA-077** Single crystal organic field-effect transistors based on characterization of chrycene derivatives (Tokai Univ.; Ushio Chemix Co.) KOBAYASHI, Norihito; HOSINO, Hikaru; OTSUKI, Hiroyuki; OKAMOTO, Kazuo; KUNUGI, Yoshihito
- 2PA-078** Field-effect characteristics of the stretched semiconducting polymer films (Tokai Univ.; Gunma Univ.; Hiroshima Univ.) KOBAYASHI, Hiroyuki; YAMADA, Yuki; HORIUCHI, Hiroaki; HIRATSUKA, Hiroshi; OHSHITA, Joji; KUNUGI, Yoshihito

- 2PA-079** Preparation, Crystal Structures, and Spectroscopic, Chemical, and Electrochemical Properties of New Guaiiazulenyethylene Derivatives with a Furyl and Thienyl Group. (Faculty of Science and Engineering, Kinki Univ.) OBATA, Hironori; TAKEKUMA, Shin-ichi
- 2PA-080** Applications of Novel Trifluoromethylthiazole Dye to Dye-sensitized Solar Cell (Seikei Univ.) AOYAMA, Misa; IWATA, Satoru; MOURI, Natsumi; TANAKA, Kiyoshi
- 2PA-081** Synthesis of New Phenothiazine Derivatives and its Application to Organic Thin Film Solar Cells (Kinki Univ.; PRESTO, JST) SHOUJI, Takumi; UENOYAMA, Tomoyuki; KIM, Kyung Ho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA, Takayoshi
- 2PA-082** Synthesis and Application to Organic Thin Film Solar Cells of New Phenothiazine Derivatives (Kinki Univ.; PRESTO, JST) UENOYAMA, Tomoyuki; KIM, Kyung Ho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-083** The Preparation and Characterization of Ferulic Acid Derivatives (Industrial Technology Center of Wakayama Prefecture) MORI, Megumi; HOSODA, Asao; MORI, Hajime; MIYAKE, Yasuhiro; TANAKA, Yoshie; OSAKI, Shusuke; KOBATA, Toshitsugu; TANIGUCHI, Hisaji
- 2PA-084** Synthesis and Properties of the Dimethyl-Substituted TTF-DT-Fused Donors (Univ. of Hyogo) WADA, Atsushi; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi
- 2PA-085** Control of Electron Correlation in Molecular Conductors by Using Two Methylthio Groups (Univ. of Hyogo) FUJIKAWA, Kohei; TAKEUCHI, Kazuhiro; ICHIKAWA, Shun; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi
- 2PA-086** Synthesis and Properties of the Bis(methylthio)-Substituted BEDT-TTF Derivative (Univ. of Hyogo) ONDA, Naomi; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi
- 2PA-087<sup>#</sup>** Synthesis of Novel Chiral Substituted Bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) Derivatives (ISSP, The Univ. of Tokyo; Nottingham Trent Univ.) KRIVICHAS, Sara; TAKAHASHI, Kazuyuki; WALLIS, John; MORI, Hatsumi
- 2PA-088** Structures and Functionalities of Some Acceptors Carrying Stable Radical (Univ. of Hyogo) SUZUKI, Hideto; AKUTSU, Hiroki; YAMADA, Junichi; SATOH, Masaharu; NAKATSUJI, Shinichi
- 2PA-089** Preparation and Properties of Naphthalenediimide Derivative with TEMPO Radical and Azobenzene Substituent (Univ. of Hyogo) NAKAGAWA, Miki; AKUTSU, Hiroki; YAMADA, Junichi; KARAKAWA, Makoto; ASO, Yoshio; NAKATSUJI, Shinichi
- 2PA-090** Structures and Properties of Some Ferrocene-Containing Compounds (Univ. of Hyogo) FUJIWARA, Kazuya; AKUTSU, Hiroki; YAMADA, Junichi; NAKATSUJI, Shinichi
- 2PA-091** Synthesis and Properties of Azoxybenzene and Azobenzene Derivatives Containing a Nitroxide Biradical Structure. (Kyoto Univ.) HINO, Kenjiro; SUZUKI, Katsuaki; UCHIDA, Yoshiaki; TAMURA, Rui; YAMAUCHI, Jun
- 2PA-092** Synthesis and magnetic properties of *m*-phenylene biradicals having apyridine ring (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) HIROSE, Satoshi; ISHIDA, Takayuki
- 2PA-093** Synthesis Study on One-electron Oxidation Species of Tri-*t*-butylnitroxide-substituted Trioxyltriphenylamine and its Radical Cation (Departments of Chemistry, Graduate School of Science, Osaka City Univ.) NAGATA, Atsuki; SUZUKI, Shuichi; KURATSU, Masato; KOZAKI, Masatoshi; SATO, Kazunobu; TAKUI, Takeji; OKADA, Keiji
- 2PA-094** Syntheses and Magnetic Properties of unique arranged organic radicals. (College of Humanities and Sciences, Nihon Univ.) IWAHORI, Fumiyasu; ICHIKAWA, Tasuku; KATOH, Machiko
- 2PA-095** Preparation of Chiral Paramagnetic Ionic Liquid Crystals (Graduate School of Human and Environmental Studies, Kyoto Univ.) SAKAGUCHI, Tatsunori; OKI, Shigeaki; UCHIDA, Yoshiaki; SUZUKI, Katsuaki; TAMURA, Rui; YAMAUCHI, Jun
- 2PA-096** Synthesis and characterization of  $\beta$ - $\beta$  linked BODIPY oligomers (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) HAYASHI, Yosuke; YAMAGUCHI, Shigeru; SHINOKUBO, Hiroshi
- 2PA-097** Synthesis and properties of  $\beta$ -aminoporphyrins (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) AKITA, Masanari; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 2PA-098** Synthesis and Properties of Boron-Dipyrromethene-Substituted Subporphyrin (Grad. Sch. Sci., Kyoto Univ.) SUGIMOTO, Hisashi; OSUKA, Atsuhiko
- 2PA-099** Synthesis and properties of N-fused porphyrin ruthenium(II) complexes (Grad. Sch. Eng., Kyushu Univ.) HIRASHIMA, Yuya; SATO, Ayumi; TOGANO, Motoki; FURUTA, Hiroyuki
- 2PA-100** Exploitation of synthetic route of water-soluble a N-fused porphyrin with cationic arms (Grad. Sch. Eng., Kyushu Univ.) TOUDEN, Satoshi; IKAWA, Yoshiya; FURUTA, Hiroyuki
- 2PA-101** Synthesis and characterization of *b*-alkyl substituted hexaphyrin (1.1.1.1.1.1) (Graduate School of Pharmaceutical Sciences, Chiba Univ.) SUZUKI, Masaaki; HOSHINO, Tyuji; NEYA, Saburo
- 2PA-102** Efficient synthesis and properties of a platinum porphine (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; TAZAWA, Shin; ASANO, Motoko; SUGIURA, Ken-ichi
- 2PA-103** Structures and properties of chiral subnaphthalocyanine (Graduate School of Science, Tohoku Univ.) MIURA, Akito; SIMIZU, Soji; SAMSON, Khene; TEBELLO, Nyokong; KOBAYASHI, Nagao
- 2PA-104** Synthesis and properties of phthalocyanine analogues bearing a seven-membered ring unit (Graduate School of Science, Tohoku Univ.) UEMURA, Kaoru; SHIMIZU, Soji; KOBAYASHI, Nagao
- 2PA-105** Synthesis of new functional ferrocene-porphyrin derivatives for chiral recognition (Grad. Sch. Sci. Eng., Univ. of Toyama) TOBARU, Hiromu; HASHEGAWA, Emi; KAWAI, Daigo; SHIMIZU, Rumi; YOSHINO, Junro; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 2PA-106** Synthesis and properties of diacetylene-group connected porphyrin derivatives bearing proton-acceptable sites (Grad. Sch. Sci. Eng., Univ. of Toyama) TUJIGUCHI, Mizuki; MATSUKIHIRA, Takuya; YOSHINO, Junro; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 2PA-107** Fullerene Inclusion Behavior of 2,6-Bis(porphyrin)-substituted Pyrazine Derivatives Binding to a Pd(II) Ion (Fac. Sci., Kyushu Univ.; ISIR, Osaka Univ.) EDA, Yusaku; ITOH, Kennosuke; ITO, Yoshio; FUJITSUKA, Mamoru; MAJIMA, Tetsuro; KAWATO, Toshio
- 2PA-108** Structure and properties of cyclic tetramers of tetraphenylporphyrin with  $D_{4h}$  and  $C_{2v}$  symmetries (IMCE, Kyushu Univ.) SAKAGUCHI, Ken-ichi; ONIKI, Yoshihiko; GOTO, Kenta; SHINMYOZU, Teruo
- 2PA-109** Chlorophyll derivatives possessing a photochromic spiropyran moiety (Ryukoku Univ.) MIYATAKE, Tomohiro; TAKAMORI, Yuki
- 2PA-110** Synthesis and characterization of novel electron donor-acceptor conjugated molecules based on  $C_{60}$  and  $\pi$ -extended tetrathiafulvalene (Univ. Tsukuba, TARA; Univ. Complutense) IWANO, Azusa; FENG, Lai; TAKANO, Yuta; AKASAKA, Takeshi; MARTIN, Nazario
- 2PA-111** Regioselective synthesis and intramolecular electron transfer of paramagnetic metallofullerene / donor dyad (Univ. of Tsukuba; Institute for Molecular Science) TANAKA, Tatsuya; TSUCHIYA, Takahiro; AKASAKA, Takeshi; MIZOROGI, Naomi; NAGASE, Shigeru
- 2PA-112** Reaction of Endohedral Metallofullerenes with Azirizine (Tokyo Gakugei Univ.; JST PRESTO; Univ. of Tsukuba) KIKUCHI, Toru; MAEDA, Yutaka; HASEGAWA, Tadashi; SATO, Satoru; AKASAKA, Takeshi
- 2PA-113** Construction of supramolecular system based on La-metallo fullerene/metalloporphyrin (Univ. of Tsukuba; Center for Tsukuba Advanced Research Alliance.) AOYAMA, Ryo; TSUCHIYA, Takahiro; AKASAKA, Takeshi
- 2PA-114** Reaction of silyl and sulfonyl open-cage fullerenes with aromatic hydrazine (Dept. Chem., Fac. Sci., Kanagawa Univ.) SHIMURA, Keita; EBISUDANI, Kazuki; KANEKO, Megumi; HIRUKAWA, Kaname; WATANUKI, Nobuhiro; KABE, Yoshio
- 2PA-115** Generation and Properties of Arylated  $C_{60}$  Cations (Mie Univ.) GOTO, Daisuke; HANAMURA, Masaaki; OKAZAKI, Takao; KITAGAWA, Toshikazu
- 2PA-116** The synthetical and theoretical studies of halogenations effect on redox property to  $\pi$ -acceptor molecule DCNA (Osaka Electro-Communication Univ.) KAMADA, Yoshihiro; AONUMA, Shuji
- 2PA-117** Electronic structure and molecular structure of Photochromic Compound (Kagawa Univ.) WATANABE, Yohei; ISHII, Tomokiko; KENMOTSU, Masahiro; SAKANE, Genta
- 2PA-118** Conductive property of gold nanoparticle network based on photoinduced electron transfer. (Kyoto Univ.) MATSUDA, Takahiro; SAKANO, Takeshi; YAMAGUCHI, Hidehiro; MATSUDA, Kenji
- 2PA-119** Structures and electrochemical properties of highly-oriented monolayers of tripod-type molecules with a ferrocene unit (College of Science and Technology, Nihon Univ.) SHIMAZAKI, Yuko; OTSUKI, Joe; NAKAMURA, Sotaro
- 2PA-120** Synthesis and SPM observation of double decker complexes with hydroxyl groups. (College of Science and Technology, Nihon Univ.) TAKA, Megumi; OTSUKI, Joe; KOBAYASHI, Daiya
- 2PA-121** Two dimensional array of double decker complexes that consist of a porphyrin, a phthalocyanine and cerium. (College of Science and Technology, Nihon Univ.) DAIYA, Kobayashi; OTSUKI, Joe; MEGUMI, Taka
- 2PA-122** Construction of Helical Structural Motifs with Oxime-Peptide Metal Complexes (Grad. School of Science, The Univ. of Tokyo) MATSUOKA, Koji; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 2PA-123** Construction of discrete silica network templated by self-assembled spherical complexes (School of Engineering, The Univ. of Tokyo; CREST, JST) OKUMURA, Tomoyo; SUZUKI, Kosuke; SATO, Sota; FUJITA, Makoto
- 2PA-124** Synthesis of hetero dimer capsules based on cyclotrimertrilene (Department of Engineering, Osaka Prefecture Univ.; Osaka Dental Univ.) IKEDA, Keisuke; MAKITA, Yoshimasa; FUJIWARA, Shin-ichi; OGAWA, Akiya
- 2PA-125** Self-Assembly of Oligo(*p*-phenylenevinylene) Dimers Controlled by Complementary Hydrogen Bonding Interactions (Graduate School of Engineering, Chiba Univ.; PRESTO, JST) YAGAI, Shiki; TAZAWA, Tsuyoshi; KIKKAWA, Yoshihiro; KARATSU, Takashi; KITAMURA, Akihide
- 2PA-126** Synthesis and Fluorescence Properties of Amidines having Anthracene Units. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; TAKESHITA, Syouta; TOOYAMA, Keisuke; HARADA, Toshiro
- 2PA-127** Synthesis of water soluble porphyrin having electron acceptor

- (Univ. of Yamanashi; Graduate School of Yamanashi) KAMIMURA, Kenji; OGAWA, Kazuya
- 2PA-128** Control of regioselectivity Diels-Alder reaction by hydrogen bonding. (Dept. Chem., Fac. Sci., Kanagawa Univ.) UCHINO, Nana; KIHARA, Nobuhiro
- 2PA-129** Development of asymmetric catalyst that can fix the substrate using hydrogen bonding (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) OHTSUKA, Shota; KIHARA, Nobuhiro
- 2PA-130** Preparation of dicarboxylic acid/amine-fluorescent host complex with channel-like cavity (Kinki Univ.; JST; The Univ. of Tokyo) SHIOTA, Naoki; OKUNO, Takahiro; KINUTA, Takafumi; SATO, Tomohiro; KURODA, Reiko; MATSUBARA, Yoshio; IMAI, Yoshitane
- 2PA-131** Preparation of chiral supramolecular organic fluorophore with 2D layered network structure (Kinki Univ.; NAIST; JST; The Univ. of Tokyo) OKUNO, Takahiro; SHIOTA, Naoki; KINUTA, Takafumi; NAKANO, Yoko; HARADA, Takunori; SATO, Tomohiro; FUJIKI, Michiya; KURODA, Reiko; MATSUBARA, Yoshio; IMAI, Yoshitane
- 2PA-132** Efficient solid-state ESIPT luminescence of imidazopyridine derivatives : effect of aryl substitution (Institute of Industrial Science, The Univ. of Tokyo; Shibaura Institute of Technology) SHONO, Hideaki; OHKAWA, Tatsuya; MUTAI, Toshiaki; TOMODA, Haruhiko; ARAKI, Koji
- 2PA-133** Preparation of [60]Fullerene-Based Interlocked Compounds Using Axle Molecules Including Donor Units (Gunma Univ.) MUROYA, Naoki; SAKAMOTO, Chika; NAKAMURA, Yosuke; NISHIMURA, Jun
- 2PA-134** Development of coordination polymer-typed polyrotaxane (Dept. Chem., Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) HIRAOKA, Tetsuya; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PA-135** Development of Novel Molecular Rotors with Two Photoswitchable Units (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) NAKANO, Yuki; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PA-136** Synthesis and characterization of pseudorotaxanes based on cryptands (Osaka Institute of Technology) MURAOKA, Masahiro; OHTA, Mamoru; NAKATSUJI, Yohji
- 2PA-137** The approach toward polycatenane: Synthesis of macrocyclic monomer bearing 2,3-disubstituted butadiene moieties. (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) KAWAI, Masatoshi; KIHARA, Nobuhiro
- 2PA-138** The approach toward polycatenane : synthesis of [2]catenane monomer bearing diacylhydrazine moieties. (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) MORI, Haruki; KIHARA, Nobuhiro
- 2PA-139** Synthesis of new oligoaniline rotaxane and its study of electronic properties (Univ. of Fukui; Faculty of engineering) HARADA, Naoki; IWAMOTO, Takuya; KAWABATA, Masanori; TOKUNAGA, Yuji; HISADA, Kenji
- 2PA-140** Redox-responsive Molecular Tweezers Containing a 9,10-Bis(1,3-dithiole-2-ylidene)-9,10-dihydroanthracene Unit (4) Substituent Effect on the Guest Recognition (Shinshu Univ.) TAMAMIZU, Takuya; OHTA, Akira
- 2PA-141** Design of dynamic host molecules using phenylboronic acid esters. (Kyushu Institute of Technology) KAWASAKI, Hiroyoshi; USHIJIMA, Yosuke; NAKAGAMI, Hidenori; KAWAHARA, Yuichi; TOYOSE, Yasushi; TSUGE, Akihiko; ARAKI, Koji
- 2PA-142** Synthesis of sugar-responsive supramolecular hydrogel using phenylboronic acid ester. (Kyushu Institute of Technology) KAWASAKI, Hiroyoshi; KAWAHARA, Yuichi; NAKAGAMI, Hidenori; TOYOSE, Yasushi; TSUGE, Akihiko; ARAKI, Koji
- 2PA-143** Synthesis and evaluation of novel anion recognition receptors based on thiacalix[4]arene (Faculty of Science and Engineering, Saga Univ.) TANAKA, Tetsuya; NI, Xin-Long; TOMIYASU, Hirotosugu; YAMATO, Takehiko
- 2PA-144<sup>#</sup>** Synthesis of fluorescent ditopic receptors based on hexahomotrioxacalix[3]arenes (Faculty of Science and Engineering, Saga Univ.) NI, Xin-long; WANG, Shi; YAMATO, Takehiko
- 2PA-145** Synthesis of a bisquaterphenyl-crown ether and formation of pseudorotaxane systems (Dept. Chem., Fac. Sci., Toho Univ.; Research Center for Materials with Integrated properties, Toho Univ.) CHAMURA, Rie; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PA-146** Effect of Counter Anions on CD Spectral changes of the Hg<sup>2+</sup> Complexes with Chiral Podands (Dept. Chem., Fac. Sci., Toho Univ.; Department of Chemistry, Gyeongsung National Univ. & Reserch Center for Materials with Integrated Properties, Toho Univ.) IKEDA, Mari; KUWAHARA, Shunsuke; LEE, Shim Sung; HABATA, Yoichi
- 2PA-147** Complexing property of silver-vorous molecules bearing urea units in the side-arms (Dept. Chem., Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) UTSUNOMIYA, Mai; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PA-148** Complexing property towards several metal ions by tetra-armed cyclens bearing phenylanthracene units (Dept. Chem., Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) KIKUKAWA, Kaoru; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PA-149** Synthesis and structure of oxacalix[4]arenes bearing two substituents at their intra-annular distal positions. (Fac. Eng., Tottori Univ.) OHMICHII, Taira; KOBAYASHI, Kazuhiro; KONISHI, Hisatoshi
- 2PA-150** Synthesis of diazacrown ether derivative having two pyrene moieties and detection of alkali metal ions (Dept. of Chem.; Tokyo Med. Univ.) NISHIMURA, Yukihiro; ARAI, Sadao
- 2PA-151** Recognition of oxo-ions using Eu(III) complexes (Kyushu Institute of Technology) NAKASHIMA, Shoji; TAHARA, Kanako; KAWABATA, Mio; TOYOSE, Yasushi; TSUGE, Akihiko; ARAKI, Koji
- 2PA-152** Synthesis of Novel Monoaza 15-Crown-5 Ethers with Two Pyrene Moieties and Their Fluorescence Properties in the Presence of Metal Cations (Osaka Institute of Technology) OKA, Tomoya; MURAOKA, Masahiro; NAKATSUJI, Yohji
- 2PA-153** Synthesis and Properties of an Extended Tetrathiafulvalene Derivative Containing Fused Crown Ether Rings (Shinshu Univ.) OHTA, Akira; ANDOU, Yosuke
- 2PA-154** Synthesis of resorcin[4]arene possessing a self-included substituent (Grad. Sch. Eng., Tottori Univ.) ENMI, Yoshinori; KOBAYASHI, Kazuhiro; KONISHI, Hisatoshi
- 2PA-155** Synthesis of Dithiourea Derivatives Based on Biaryl: Floride Selective Receptor (Yamagata Univ.) TAKAHASHI, Youhei; ITO, Kazuaki
- 2PA-156** Applications of 5-Amino-2-methoxyphenylbenzothiazoles to Chemical Sensors (Seikei Univ.) TANAKA, Kiyoshi; HARA, Sanami; IWATA, Satoru; TAKEYAMA, Takashi
- 2PA-157** Molecular recognition of bisphenol A derivatives by using benzoquinone (Kinki Univ.; Univ. of Tsukuba; JST; The Univ. of Tokyo) IWASE, Noriaki; KINUTA, Takahumi; TAJIMA, Nobuo; SATO, Tomohiro; KURODA, Reiko; MATSUBARA, Yoshio; IMAI, Yoshitane
- 2PA-158<sup>†</sup>** A Fluorescent Chemosensor for Selective Cu(II) Recognition Based on a Quinoline Derivative (Osaka Univ.) ICHIMURA, Chizuru; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 2PA-159** A BODIPY-Indole Conjugate as a Colorimetric and Fluorometric Probe for Selective Fluoride Anion Detection (Osaka Univ.) SUGII, Takahiro; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 2PA-160** Synthesis of Diacylcarbohydrazide Derivatives: Cyanide Anion Selective Receptor (Yamagata Univ.) NAGAYAMA, Keiko; ITO, Kazuaki
- 2PA-161** Fluorescent sensing of enantiomers by chiral Schiff-base macrocycles. (Kansai Univ.) TSUCHITANI, Takeshi; TANAKA, Koichi
- 2PA-162** Synthesis and Properties of Host Molecules Bearing Oligocarbazole Moieties (Gunma Univ.) KOBAYASHI, Kounosuke; NAKAMURA, Yosuke; NISHIMURA, Jun

## Physical Organic Chemistry -Reaction Mechanism-

- 2PA-165** Hydrogen Transfer in Gas Phase Unimolecular Dissociation for *N*-(3-Phenylpropanoyl)(thio)lactams (Osaka Pref. Univ.; Univ. of Fukui) MATSUO, Yusuke; ISA, Kimio; NAKATA, Ryuji; MORISHITA, Tadakazu; YAMAOKA, Hiroshi
- 2PA-166** Gas Phase Unimolecular Dissociation for *N,N'*-[omega-(substituted/unsubstituted)phenylalkanoyl]-1,3-diazacycloalkane-(e)-2-(thio)ones under Same Acyl Chain Length (Osaka Pref. Univ.; Univ. of Fukui) IWAHASHI, Atsuhide; ISA, Kimio; TANAKA, Ryuji; OHARA, Takashi; YAMAOKA, Hiroshi
- 2PA-167** Kinetics Study on Methylation Mechanism of Phenylmethylnitronate (Rikkyo Univ., Department of Chemistry) SAKATA, Tomomi; YAMATAKA, Hiroshi
- 2PA-168** The experimental study on mechanisms of hydrogen transfer reactions of acyloln derivatives under basic conditions (Rikkyo Univ., College of Science, Department of Chemistry) KARINO, Masahiro; YAMATAKA, Hiroshi
- 2PA-169** Solvolysis of 2-Adamantyl *p*-Toluenesulfonate in Imidazolium-Based Ionic Liquids (Mie Univ.) ITO, Koji; OKAZAKI, Takao; KITAGAWA, Toshikazu
- 2PA-170** 1,5-Hexadiene Substituted by Hexaarylbiimidazolyl (HABI) : A Probe into Reaction Mechanism of the Cope Rearrangement (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. Inst. Mol. Elect. Dev., Osaka Pref. Univ.) IKEDA, Hiroshi; MATSUO, Kazuki; MIZUNO, Kazuhiko
- 2PA-171** Photoreduction of carbon dioxide using pyrene derivatives and cobalt complexes (The Univ. of Tokyo) IKUTA, Naoya; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-172** Deuterium isotope effects on the photosensitized oxidation of methylated DNA (Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto Univ.) YAMADA, Hisatsugu; KITAUCHI, Yuya; TANABE, Kazuhito; ITO, Takeo; NISHIMOTO, Sei-ichi
- 2PA-173** Assessment of nitric oxide scavenging capacity of antioxidants by using competitive trapping method between antioxidants and PTIO (Graduate School of Natural Science and Technology, Okayama Univ.) HORI, Masashi; SUEISHI, Yoshimi; KOTAKE, Yashige
- 2PA-174** Photo-induced Electron Transfer Reactions of Cyclic Organosilanes with Ketones (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications; Department of Chemistry, Graduated School of Science and Engineering, Saitama Univ.) IDA, Yusuke; MISHIMA, Takeaki; SHIMIZU, Masaya; IWAMOTO, Takuya; KAKO, Masahiro
- 2PA-175** Formation of polymerized vesicles by photopolymerization sensitized by pyrene derivatives (The Univ. of Tokyo) MATSUURA, Haruhiko; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-176** Photoinduced electron transport in vesicles utilizing an interaction between two types of pyrene derivatives (The Univ. of Tokyo) SATO, Youichi; TAKIZAWA, Shin-ya; MURATA, Shigeru

- 2PA-177** Novel Photocyclization of (Z)-N-Acyl- $\alpha$ -dehydronaphthylalaneThioesters via the Heterolysis of the C-S Bond (Kanagawa Univ.) HOSOI, Yosuke; IGARASHI, Tetsutaro; SAKURAI, Tamamitsu
- 2PA-178** Photochemical hydrogen generation using Pt molecular catalyst with a bipyridyl derivative linked with pyrene moieties (The Univ. of Tokyo) WATANABE, Kentaro; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-179** Theoretical Analysis of Reaction Pathway for Ambident Reagents (Rikkyo Univ., College of Science, Department of Chemistry) SEKI, Natsuko; YAMATAKA, Hiroshi
- 2PA-180** Theoretical study on regioselectivity of ring-opening reactions of three-membered ring compounds (Rikkyo Univ.) JINGUJI, Masaru; YAMATAKA, Hiroshi
- 2PA-181<sup>†</sup>** Theoretical Analysis for Amination Reaction of formaldehydein Water Solution by using FMO-MD (Rikkyo Univ.) SATO, Makoto; YAMATAKA, Hiroshi; KOMEIJI, Yuto; MOCHIZUKI, Yuji; NAKANO, Tatsuya
- 2PA-182** Theoretical study of the influence of the Na<sup>+</sup> ion on the reaction path in the Reimer-Tiemann reaction (Chiba Institute of Technology) ENOKI, Miu; MATSUZAWA, Hidenori
- 2PA-183<sup>#</sup>** A panorama of computational study on mechanism of alkyne haloboration (RIKEN) WANG, Chao; UCHIYAMA, Masanobu
- 2PA-184** Structure-mutagenicity correlation of nitropyrenes by use of molecular orbital calculations (Toho Univ.) YAMAGAMI, Saburo; NAKADA, Yoshimoto; OHSHIMA, Shigeru
- 2PA-185** Synthesis of a fluorescent switchable porphyrin triggered through metal complexation (Nagoya Univ., Department of Chemistry; Nagoya Univ., Research Center for Materials Science; CREST, JST) HIRAGA, Kosuke; OGAWARA, Yusuke; YAMADA, Yasuyuki; TANAKA, Kentaro
- 2PA-186** Construction of a Rate Model for the Formose Reaction (2) (Soka Univ.) KANOMATA, Kyohei; INOUE, Hakuai; ITO, M. Masato
- 2PA-189** Strage stability evaluation of ETBE (National Institute of Advanced Industrial Science and Technology (AIST)) ITO, Shunsuke; KATO, Katsumi; WADA, Yusuke; OGATA, Yuji; WADA, Yuji
- 2PA-190** Strage stability evaluation of petrol containing ETBE (National Institute of Advanced Industrial Science and Technology (AIST)) ITO, Shunsuke; KATO, Katsumi; WADA, Yusuke; OGATA, Yuji; WADA, Yuji
- 2PA-191** Effect of preparation methods for Ce-Fe mixed oxides upon the activity of barium catalysts supported on the mixed oxides for direct NO decomposition (Kyoto Univ.) UEDA, Mao; HONG, Wonjong; HOSOKAWA, Saburo; WADA, Kenji; INOUE, Masashi
- 2PA-192** Examination of the analysis of the Nitrogen-Containing Aromatic Compounds which I used LC/MS for (Graduate School of Science, Tokai Univ.) KITAHARA, Takio; IKEGAMI, Ryo
- 2PA-193** A Simple visual type air pollution measuring device without using a standard color-concentration table. AMAYA, Kazuo
- 2PA-194** Characteristics of Unregulated Compounds Exhausted from a Diesel Engine. (Hokkaido Institute of Environmental Sciences) AKUTAGAWA, Tomoko; SAKAI, Shigekatsu; AKIYAMA, Masayuki
- 2PA-195** Measurement of unsaturated aldehydes in Air Using Coupled Silica Cartridges Impregnated with Hydroquinone and 2,4-Dinitrophenylhydrazine (National Institute of Public Health) UCHIYAMA, Shigehisa; INABA, Yohei; KUNUGITA, Naoki
- 2PA-196** Seasonal variation of the water qualities of 4 rivers running through the suburbs of Kanazawa city (Kanazawa Institute of Technology Advanced Materials Science Research and Development Center) TAKECHI, Yoshinori; WATANABE, Yujiro; OSHIMA, Syunichi; KOMATSU, Yu; FUJINAGA, Kaoru
- 2PA-197** The reaction of the alkyl phenol by the residual chlorine in city water and the resolution of the chloroalkyl phenol in the water (Graduate School of Science, Tokai Univ.) KITAHARA, Takio; YOSHIDA, Noriko
- 2PA-198** Study on seasonal variation of chemical species in rain fall in the suburbs of Kanazawa. (Kanazawa Institute of Technology Advanced Materials Science Research and Development Center) ODA, Yasuhiro; WATANABE, Yujiro; OSHIMA, Syunichi; KOMATSU, Yu; FUJINAGA, Kaoru
- 2PA-199** Photochemical reaction of chemical substances and its associated mutagenic effects (Tokyo Univ. of Science; Yajima lab.) YAMAMOTO, Akiko; INABA, Aya; UCHIDA, Katsumi; GOTOU, Sumio; YAJIMA, Hirohumi
- 2PA-200** Simultaneous determination of anionic, cationic, and nonionic surfactants in environmental samples by Liquid Chromatography/Mass Spectrometry (Faculty of Science, Toho Univ.) REN, Liying; OHSHIMA, Shigeru; NISHIGAKI, Atsuko
- 2PA-201** Quality of Environmental Water around Lake Nakaumi (Yonago National College of Technology; RIKEN Advanced Science Institute) NAKAGAWA, Hiromichi; NODA, Chinatsu; KANEDA, Eri; TERAMOTO, Yumu; AOKI, Kaoru; ODA, Kouhei
- 2PA-202** An Environmental Analysis of Asbestos Using the Dye Adsorption (Yokohama City Univ.) KATO, Takayuki; SHINOZAKI, Kazuteru
- 2PA-203** Evaluation of iron(II) binding abilities of humic acids derived from lake sediments using photometric titration method with *o*-phenanthroline (Graduate School of Engineering, Hokkaido Univ.) FUJISAWA, Naotaka; FURUBAYASHI, Ken; FUKUSHIMA, Masami; YAMAMOTO, Mitsuo; KOMAI, Takeshi; OOTUKA, Keishi; HORIYA, Shigekazu
- 2PA-204** Characterization of humic acids derived from lake sediments in catchment by a pyrolysis-gas chromatography/mass spectrometry. (School of Engineering, Hokkaido Univ.) FURUBAYASHI, Ken; FUJISAWA, Naotaka; FUKUSHIMA, Masami; YAMAMOTO, Mitsuo; KOMAI, Takeshi; OOTUKA, Keishi; HORIYA, Shigekazu
- 2PA-205** Environmental chemistry of toxic tridecamer Al polymer (part.2) -Formation condition and stability- (Kyushu Univ.) HAGIWARA, Satoru; SAITO, Tomoyuki; OKAUE, Yoshihiro; YOKOYAMA, Takushi
- 2PA-206** Enhanced polycondensation reaction of amino acids, sugars and phenols by natural zeolite. (Hokkaido Univ.) FUKUCHI, Shigeki; MIURA, Akitaka; FUKUSHIMA, Masami; SATO, Tsutomu; SASAKI, Masahide
- 2PA-207** Oxidative Degradation of 2,6-Dibromophenol by Ion-Exchange Resin Supported Iron(III)-porphyrin-Humic Acid Supramolecular Catalysts (Hokkaido Univ.) SHIGEMATSU, Satoko; FUKUSHIMA, Masami
- 2PA-208** Analysis of volatile organic compounds and their atmospheric behaviors in Yokohama and Tanzawa Oyama (Kanagawa Univ.) SANO, Tsubasa; NANZAI, Ben; IGAWA, Manabu
- 2PA-209** Chemical composition of acid fog and its acidification mechanism (Kanagawa Univ.) GOTO, Shihou; NANZAI, Ben; IGAWA, Manabu
- 2PA-210** Effect of perfluorinated compounds to *Bacillus subtilis* subsp. *subtilis* (Graduate School of Science, Tokai Univ.) ISHIHARA, Yoshimi; KATAOKA, Keiichi; SAITO, Hiroshi; TAKANO, Jiro
- 2PA-211** Synthesis of tetrahydrofuran from 1,4-butanediol in high temperature water (AIST; Research Center for Compact Chemical Process) SATO, Osamu; MURAKAMI, Yuka; YAMAGUCHI, Aritomo; HIYOSHI, Norihito; SHIRAI, Masayuki
- 2PA-212** Catalyst-free Oppenauer Oxidation under Solvent-free Conditions and in Supercritical Water (Kochi Univ. of Technology) KOBIRO, Kazuya; WANG, Pengyu; MAEDA, Yasuhide; KATAOKA, Koichi
- 2PA-213** Photosensitized Reaction Effects on Biodegradability of Linear Copolyesters (Kyoto Inst. Tech.) AOYAMA, Masami; SONO, Masayo; SAKAI, Wataru; TSUTSUMI, Naoto
- 2PA-214** Polymer blend of uron-glycol polymer (Tokyo Denki Univ.) NITO, Riku; TANAKA, Satomi; SHIBA, Ryuichi
- 2PA-215** Synthesis and Evaluation of Adsorbents from Inorganic Wastes for the Removal of Cadmium Ion in Water (Univ. of Hyogo) NISHIOKA, Hiroshi; OGINO, Kana; MURAMATSU, Yasuji
- 2PA-216** The reaction behavior of photochromic molecules supported egg shell membrane (Yonago National College of Technology) TANIFUJI, Naoki; KANETSUKI, Chiaki; SHIMIZU, Kaho; SHIMIZU, Akihiro
- 2PA-217** Activation and application of molecular oxygen in air using polyaniline (Faculty of Biomedical Engineering, Toin Univ. of Yokohama; Graduate School of Engineering, Toin Univ. of Yokohama) WATANABE, Hiro; SAITO, Kiyoshi
- 2PA-218** Molecular Orbital Study on the Photo-assisted Mineralization of the Pesticides Methomyl and Oxamyl (Josai Univ.; Meisei Univ.) FUJINAMI, Naohiro; HIDAKA, Hisao; KURIHARA, Teruo
- 2PA-219** Photocatalytic hydrogen evolution by organic p/n bilayer of phthalocyanine/fullerene (Hirosaki Univ., Tokyo Institute of Technology) CHIBA, Junpei; ISHIDOYA, Misaki; NAGAI, Keiji; ABE, Toshiyuki
- 2PA-220** Decomposition of the vaporized chemical warfare agents by photocatalyst. (AIST; NRIPS; SCRL) HIRAKAWA, Tsutomu; SANO, Taizo; NEGISHI, Nobuaki; TAKEUCHI, Kouji
- 2PA-221** Photodegradation of Mutagens by Visible Irradiation in the Presence of Artificial Dyes (Okayama Univ. of Science) TORIMOTO, Seiichi; NIITANI, Tomoya; INOGUCHI, Masahiko; ODO, Junichi
- 2PA-222** Lead Isotopic Measurement of Human Samples by Means of LA/ICP-MS (Japan Women's Univ.) IMAIZUMI, Yukiko; ARIKAWA, Yoshiko

Saturday, March 27, PM

(12 : 30~14 : 00)

Organic Chemistry -Reaction and Synthesis-  
Aliphatic and Alicyclic Compounds

- 2PB-001** The reaction of 4-alkoxy-3,4-epoxy-3-hydroxy-4-phenyl-2-butanone with amines (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; ISHIDUKA, Hiromi; SAKURABA, Hiroki; SHIMOKAWA, Tatsuya
- 2PB-002** The reaction of ethyl 3-alkoxy-2,3-epoxy-2-hydroxy-3-phenyl propionate with various alcohols (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; SAKURABA, Hiroki; SHIMOKAWA, Tatsuya; ISHIDUKA, Hiromi
- 2PB-003** The oxidation of bis(benzoylacetato)nickel(II) in the presence of alcohols and iodine under oxygen atmosphere. (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; SHIMOKAWA, Tatsuya; SAKURABA, Hiroki; ISHIDUKA, Hiromi
- 2PB-004** Simple and Facile Synthesis of 2-amino-3-<sup>11</sup>Cisobutyric acid (Nat. Inst. of Radiol. Sciences Mol. Imag. Center) KATO, Koichi; ZHANG, Ming-rong
- 2PB-005** Preparation of 1,2,4,5-Tetroxocanes and Their Antimalarial Activity

- (Osaka Institute of Technology; Okayama Univ.) MASUYAMA, Araki; MORIO, Hideki; KIM, Hye-sook; WATAYA, Yusuke
- 2PB-006** Environmentally-Benign Glycosylation Using Rare Earth Salts-Methoxyacetic Acid Tandem Catalyst System (Graduate School of Sciences, Kyushu Univ.; Institute for Materials Chemistry and Engineering(IMCE), Kyushu Univ.) HASEGAWA, Toru; FURUNO, Hiroshi; ONITSUKA, Satoaki; INANAGA, Junji
- 2PB-007** Synthesis, Reaction and Biological Activity of 1,2,4-Substituted Cyclopentadiene Derivatives for Elucidation of Amyloid-beta Formation (Iwate Medical Univ.; Iwate Univ.) KAWANO, Tomikazu; KAWAMORITA, Yutaka; OGAWA, Satoshi
- 2PB-008** Stereoselective Synthesis of  $\beta$ -Lactams Using Thermal Rearrangement of Aminocyclobutenones (Mie Univ.) HACHIYA, Iwao; CHO, Koji; SHIMIZU, Makoto
- 2PB-009** Synthesis of Aculeatins (College of Engineering, Nihon Univ.) KITANO, Yasushi; NODA, Yoshihiro
- 2PB-010** Highly stereocomplementary method for the preparation of (*E*), (*Z*),  $\alpha$ ,  $\beta$ -substituted unsaturated esters (Kwansei Gakuin Univ.) SUZUKI, Takeyuki; UENO, Kanako; NAKATSUJI, Hidefumi; TANABE, Yoo
- 2PB-011** Synthesis of Glycosyl Spirochroman Derivatives Using Tandem Spirocyclization (The Noguchi Institute) MATSUDA, Sho; TABELI, Kaname; YOSHIDA, Akihiro; ODA, Yoshiki; YAMANOI, Takashi
- 2PB-012** Synthesis of optical active deruta-lactones with lipase-catalyst (Meiji Univ.) OKUMURA, Yoshiaki; SIMOTORI, Yasutaka; MIYAKOSI, Tetsuo
- 2PB-013** Asymmetric Tetrahydropyranylation of Alcohols using Chiral Phosphoric Acid catalysts (Graduate School of Sciences, Kyushu Univ.; Institute for Materials Chemistry and Engineering (IMCE), Kyushu Univ.) HUANG, Wei; YOSHIDA, Keiko; FURUNO, Hiroshi; ONITSUKA, Satoaki; INANAGA, Junji
- 2PB-014** Development of Lewis acid-Bronsted acid combined catalyst and application to asymmetric Mukaiyama aldol reaction (Rikkyo Univ.) GOTO, Ryo; YAMANAKA, Masahiro
- 2PB-015** Reuseable Montmorillonite-entrapped Organocatalyst for Asymmetric Aldol reaction (Nagoya Institute of Technology) HARA, Noriyuki; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
- 2PB-016** Organocatalytic Ring-Opening Polymerization of L-Lactide in Supercritical Carbon Dioxide (Shizuoka Univ.) MORI, Shunsuke; MASE, Nobuyuki; SAKO, Takeshi; TAKABE, Kunihiko
- 2PB-017** Synthesis and Application of Gold Nanoparticles Functionalized with Organocatalyst (Shizuoka Univ.) YAMASHITA, Hiroki; TSUJI, Kotaro; MASE, Nobuyuki; TAKABE, Kunihiko
- 2PB-018** Asymmetric desymmetrization of a-trifluoromethyl malonic ester derivatives (Graduate School of Engineering, Nagoya Institute of Technology) TACHI, Kentaro; NORITAKE, Shun; TOKUNAGA, Etsuko; NAKAMURA, Shuichi; SHIBATA, Norio
- 2PB-019** Asymmetric cyanosilylation of aldehydes and ketones catalyzed by chiral bisoxazoline complex bearing phosphoryl groups (Fac. Textile Sci. Technol., Shinshu Univ.) NAITOH, Tatsuya; TAKEDA, Takuma; YAMAMOTO, Iwao; FUJIMOTO, Tetsuya
- 2PB-020** Development of the chiral guanidine catalyses of 5*H*-oxazole-4-ones as pronucleophiles (Univ. of Hyogo) MORITA, Akane; MISAKI, Tomonori; SUGIMURA, Takashi
- 2PB-021** Asymmetric Aldol Reaction Catalyzed by Novel Chiral Azacrown ethers as Organocatalysts (Osaka Kyoiku Univ.) HORI, Kazushige; UEDA, Mio; TANI, Keita
- 2PB-022** Effect of a Lewis Acid on the Bromination of Benzoylacetates (Yamaguchi Univ.; Tosoh Organic Chemical Co., Ltd) YAMAMOTO, Hidetoshi; KOMEDA, Masahiro; SAMITSU, Maki; SETO, Tatsushi; TAKAO, Yuuko; SUMIMOTO, Michinori; HORI, Kenji; MIYATA, Takuya; HANASAKI, Yasuaki
- 2PB-023** Reaction of 1-Methylthio-3-tosyl-1-hexen-5-yne Derivatives with Iodine (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; KAGEYAMA, Hirokazu; NISHIMURA, Hitohiro; AKAZOME, Motohiro
- 2PB-024** Development of SALEN-Ti(III) complex catalyzed radical cyclization. (Department of Chemistry, Okayama Univ. of Science) YAMADA, Haruo; MANABE, Atsusi
- 2PB-025** Preparation and Properties of Two Fluoroalkyl End-capped Styrene Dimer (Sch. Med., Shimane Univ.; Grad. Sch. Sci. Technol., Hiroasaki Univ.) IIZUKA, Mari; FUKUSHIMA, Shoji; GOTO, Yuki; SAWADA, Hideo; YOSHIDA, Masato
- 2PB-026** Direct crossed Ti-Claisen condensation between  $\alpha$ ,  $\alpha$ -disubstituted thioesters and *N*-acylbenzotriazoles (School of Science and Technology, Kwansei Gakuin Univ.) KOBAYASHI, Misaki; HOZUMI, Kenji; NAGASE, Ryohei; TANABE, Yoo
- 2PB-027** Reductive Aldol Reaction of Azetidin-3-one Promoted by Titanium Tetraiodide (Mie Univ.) FUKUDA, Daisuke; UCHIDA, Chisato; HACHIYA, Iwao; SHIMIZU, Makoto
- 2PB-028** Dehydration-type Ti-Claisen condensation between  $\alpha$ -heteroatom-substituted acetates and formyl esters. (School of Science and Technology, Kwansei Gakuin Univ.) KITAGUCHI, Hideya; MURA, Hiroaki; NAGASE, Ryouhei; TANABE, Yoo
- 2PB-029** Prins-type Reaction of Alkynes with Acetals Promoted by Titanium Tetraiodide (Mie Univ.) OKURA, Kanako; ARAI, Takuya; SHIMIZU, Makoto
- 2PB-030** Synthesis of a New Ionic Ligand for Asymmetric Reaction in Ionic Liquids (Graduate School of Sciences, Kyushu Univ.; Institute for Materials Chemistry and Engineering (IMCE), Kyushu Univ.) FUJII, Saori; FURUNO, Hiroshi; ONITSUKA, Satoaki; INANAGA, Junji
- 2PB-031** Reaction of RMgNHR' with Various Electrophiles (Japan Women's Univ.) OHKI, Maria; NISHIKI, Misako; ITO, Kyoko; NAONO, Asami; ASAOKA, Morio
- 2PB-032** Acylation of alcohol by the use of *N*-functionalized azolium salt as an organocatalyst (Kansai Univ.) KAWABATA, Syun; SAKAGUCHI, Satoshi
- 2PB-033** Stereoselective Synthesis of 1,3-Diol Derivatives via Desilylation of  $\beta$ -Methoxyacylsilanes (Graduate School of Natural Science and Technology, Kanazawa Univ.) HORITA, Akira; HONDA, Mitsunori; SUDA, Mitsuhiko; SEGI, Masahito; KUNIMOTO, Ko-ki
- 2PB-034** Examination of electronic substituent effects and reaction rate of generation of 1,2-diketones from bis( $\alpha$ -methyl-*p*-substituted benzoylacetato-nato)copper(II) complex (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; KIKUCHI, Shunsuke; SHIMOKAWA, Tatsuya
- 2PB-035** Synthesis of malonamide derivatives and these metal complexes (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; IWASAKI, Kei; NAGAI, Yukari
- 2PB-036** *N*-Alkylation of  $\alpha$ -Imino Ester Followed by Electrophilic Addition Reaction. (Mie Univ.) MIZOTA, Isao; MATSUDA, Yuki; SHIMIZU, Makoto
- 2PB-037** Lanthanoid metal-mediated one-electron reduction in water (Ibaraki Univ.) NAITOH, Sota; MATSUKAWA, Satoru
- 2PB-038** Addition Reaction of RMgX-nMeLi to Various Compounds with Electron Deficient Carbon-Carbon Double Bonds (Japan Women's Univ.) TAKENAKA, Keiko; SHIMADA, Narumi; SATO, Yuka; ASAOKA, Morio
- 2PB-039** Nucleophilic Addition Reaction to the Iminium Salts Generated from Amino Silyl Enol Ethers (Mie Univ.) KONDO, Koichi; MURAKAMI, Kazuhiro; SHIMIZU, Makoto
- 2PB-040** Oxidative Esterification of Aldehydes with Pyridinium Hydrobromide Perbromide in Water (Department of Chemistry, Fukushima Medical Univ.) SAYAMA, Shinsei
- 2PB-041** Study of *N*-Allylideneamine Synthesis and a 1,4- and 1,2- Double Nucleophilic Addition to *N*-Allylideneamine Derived from Acrolein (Mie Univ.) MIZOTA, Isao; AGATANI, Shun; HACHIYA, Iwao; SHIMIZU, Makoto
- 2PB-042** Synthesis of TPEN [N,N,N',N'-tetrakis(2-pyridylmethyl)ethylene-diamine] Derivatives Bearing Non-eteral Substituents. (Grad. Sch. Eng., Kobe Univ.) WATANABE, Wataru; TSUMAGARI, Takayuki; KIDA, Tatsuya; MIYAZAKI, Yuji; INABA, Yusuke; MORI, Atsunori; TAKESHITA, Kenji
- 2PB-043** Development of Organic-Inorganic Hybrid Polymer Catalyst Bridged by Counter Anion (Graduate School of Science, Chiba Univ.) KAWASAKI, Nao; SAKAGAMI, Ken; ARAI, Takayoshi
- 2PB-044** H<sub>3</sub>PO<sub>4</sub>-SiO<sub>2</sub> Catalyzed Ritter Reaction in Solvent-free Condition (Graduate School of Socio-Arts and Science, The Univ. of Tokushima) KIKUCHI, Makoto; INOUE, Takeshi; MIYOSHI, Norikazu; WADA, Makoto

## Organic Chemistry -Reaction and Synthesis-Aromatic Compounds

- 2PB-047** Synthesis and fluorescence that comprise diphenyl skeleton as core (Faculty of Science and Engineering, Kinki Univ.) NONOMURA, Kikuno; IMAI, Yoshitane; YAMAGUCHI, Yoshihiro; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 2PB-048** Synthesis and Properties of Novel Organic Field Effect Transistor Materials based on Thienothiophene Derivatives (Fac. of Systems Engineering, Wakayama Univ.) SAGISHIMA, Tomoki; OSUGA, Hideji; KUROKAWA, Atsushi; TANAKA, Ichiro; SAKAMOTO, Hidefumi
- 2PB-049** Synthesis of azobenzene derivatives with gold-like metallic luster 2 (Tokyo Medical Univ.) TONEGAWA, Masami; ARAI, Sadao
- 2PB-050** Synthesis of F-substituted phenyleneethynylenes and their Optical and Electrochemical properties (Okayama Univ. of Science) ORITA, Akihiro; MATSUO, Daisuke; HOSOE, Tatsuya; KAIHARA, Keisuke; OTERA, Junzo
- 2PB-051** Synthesis of substituted anthracenes via alkyne cyclotrimerization reaction (Kanagawa Univ.; Kanto Denka Kogyo Co.,Ltd) KAWAJI, Tsuyoshi; SAINO, Naoko; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 2PB-052** Synthesis of Substituted 2-Aminoanthracene (Univ. of Hyogo) NONAKA, Atsushi; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PB-053** Synthesis and Properties of Anthracene Derivatives Having Halogenes at the 2 and 3 positions (Univ. of Hyogo) DAIJO, Masato; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PB-054** Synthesis of Tetracenes Containing Ester Groups (Univ. of Hyogo) TAKENAKA, Akira; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PB-055** Friedel-Crafts vinylation of arenes with 1-aryl-1-chloroalkenes (Shibaura Institute of Technology) SAKAMOTO, Hiroyuki; AOYAMA, Tadashi; KODOMARI, Mitsuo
- 2PB-056** Syntheses of Photoresponsive Compounds by Claisen-Schmidt Reaction and the Studies of Photo-thermal Isomerizations (Graduate School of

- Science and Engineering Yamagata Univ.) ISHIKAWA, Ken; KATAGURI, Hiroshi; OHBA, Yoshihiro; TSUJIMOTO, Kazuo
- 2PB-057** Solid catalysts-mediated dimerization of 2-(2-substituted vinyl)-1,4-naphthoquinones (Shimane Univ.) ADACHI, Yuuki; IWAMOTO, Hidetoshi; TAKUWA, Akio
- 2PB-058** Diels-Alder Reaction Using Fluorous Resorcinarene Hexameric Capsule in Fluorous Biphasic System (College of Industrial Technology, Nihon Univ.) USUI, Asuka; ICHIKAWA, Hayato; SIMIZU, Shoichi
- 2PB-059** Synthesis and reactions of helical quinones derived from 2-hydroxy [6]helicenes (Grad. Sch. Eng., Utsunomiya Univ.) TAKASE, Tomoyoshi; KIMURA, Takao; KARIKOMI, Michinori
- 2PB-060** Synthesis of helical compounds by novel rearrangement of helical quinones (Grad. Sch. Eng., Utsunomiya Univ.) INOUE, Shota; KIMURA, Takao; KARIKOMI, Michinori
- 2PB-061** Synthesis of styrene derivatives using phenethylsulfonium salts (Osaka Institute of Technology) SHIMOMURA, Osamu; UEOKA, Hiroki; SHINTANI, Tomoki; OHTAKA, Atsushi; NOMURA, Ryoki
- 2PB-062** Organic Synthesis by Using Microwaves 9. The Synthesis of Benzaldehydes by the Vilsmeier Reaction (The Nippon Dental Univ.; Niigata Univ.) SUZUKI, Tsuneo; TANEMURA, Kiyoshi; NISHIDA, Yoko; HORAGUCHI, Takaaki
- 2PB-063** Synthesis of Bidentate Calixphosphine Ligands Having Bridge Structure to Control Bite Angle of Metal Complexes and Their Application to Hydroformylation Reaction (College of Industrial Technology, Nihon Univ.) SUZUKI, Yuki; ICHIKAWA, Hayato; SHIMIZU, Shoichi
- 2PB-064** The effect of solvent to product selectivity on oxidation of toluenes (Osaka Municipal Technical Research Ins.) NAKAI, Takeo; IWAI, Toshiyuki; MIHARA, Masatoshi; ITO, Takatoshi; MIZUNO, Takumi
- 2PB-065** Direct carboxylation of polycyclic aromatic compounds by using carbon dioxide (Graduate School of Environmental Studies, Tohoku Univ.) NEMOTO, Koji; ONOZAWA, Satoru; KONNO, Megumi; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 2PB-066** Facile method for a conversion of 3-bromoflavones into 3-cyano-flavones (Kobe Univ.) MIYAKE, Hideyoshi; HASHIMOTO, Yuusaku; SASAKI, Mitsuru
- 2PB-067** Reaction of azulenes with ninhydrin (Josai Univ.) YAMADA, Hiroyuki; KOBAYASHI, Keiji; KURIHARA, Teruo; WAKABAYASHI, Hidetsugu
- 2PB-068** Synthesis of  $\alpha,\beta$ -unsaturated ketone azulene derivatives (Graduate of Engineering, Hosei Univ.) SATOU, Kouichi; NAKAGAWA, Keisuke; OZU, Takumi
- 2PB-069** Re-investigation of Nucleophilic Displacement Reactions of Tropenoids (Josai Univ.) KITAHARA, Mikiya; WAKABAYASHI, Hidetsugu; KURIHARA, Teruo
- 2PB-070** Synthesis of disubstituted 2-phenylpyrrole from 2-phenylpyrrolidine and aldehydes (Shinshu Univ.; Univ. of Toyama) ODA, Mitsunori; KATO, Shun; ZHANG, Yanmei; KURODA, Shigeyasu
- 2PB-072** Stereoselective Synthesis and Transformations of Isoxazoline Derivative Leading to Lopinavir and Ritonavir (Institute of Technology and Science, The Univ. of Tokushima) WATANABE, Hiroshi; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 2PB-073** Reductive Transformations of 3-Substituted Isoxazolines to 2-Isoxazolines (Institute of Technology and Science, The Univ. of Tokushima) TAKAHASHI, Yuki; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 2PB-074** Functional Transformations of Isoxazolidine Derivative Leading to Dysibetaine (Institute of Technology and Science, The Univ. of Tokushima) MIURA, Eisuke; NISHIUCHI, Masaki; HOSOI, Takahisa; KAWAMURA, Yasuhiko
- 2PB-075** Synthesis of 2-aminoindole-3-carboxylic acid derivatives (Grad. Sch. Eng., Tottori Univ.) YOKOI, Yuki; KOMATSU, Toshihide; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PB-076** Synthesis of *N,N'*-Dialkyl-7,7'-diazaindigo (Aichi Institute of Technology) TATSUGI, Jiro; MIZUNO, Keiichi
- 2PB-077** Stereoselective synthesis of 2-substituted-3-aminopiperidines by intermolecular Aza-Michael reaction (Kanagawa Institute of Technology) SAITO, Aya; TSUNODA, Yasuhide; SHIMOGAKI, Takuya; YAMADA, Kuniyo; NODA, Takeshi
- 2PB-078** The synthesis of the optically active 6,5- and 6,7- fused aza heterocycles (Kanagawa Institute of Technology) TSUNODA, Yasuhide; SAITO, Aya; TANKAWA, Eriko; NODA, Takeshi
- 2PB-079** Synthesis and properties of *N,N*-bis(1-azaazulen-2-yl)piperazine (Shinshu Univ.) ODA, Mitsunori; MIYAWAKI, Daisuke; FUJIMORI, Kumihide
- 2PB-080** Synthesis of 3-substituted 8-methoxy-4-sulfonylisoquinolin-1(2*H*)-ones (Grad. Sch. Eng., Tottori Univ.) HASHIMOTO, Hiroo; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PB-081** Synthesis and properties of [10]parapyridinophane derivatives having a hydroxyl group on their ansa-bridges (Waseda Univ.) KANOMATA, Nobuhiro; MOTOSHIROMIZU, Takahiro
- 2PB-082** Two-step synthesis of 4-alkoxy-3-arylisquinolin-1(2*H*)-ones from 2-(alkoxymethyl)benzotrioles (Grad. Sch. Eng., Tottori Univ.) MATSUMOTO, Kota; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PB-083** Development of New Synthetic Methods for the  $\alpha$ -alkylidene Carbonyl Compounds and their synthetic application. (Shizuoka Univ.) TAKAHASHI, Masaki; MOTOGOE, Shin-ichi; ATSUMI, Jun-ichi; SENGOKU, Tetsuya; YODA, Hidemi
- 2PB-084** Studies on the Total Synthesis of (+)-Batzellaside B, a New Antibacterial Piperidine Alkaloid. (Shizuoka Univ.) TAKAHASHI, Masaki; SUZUKI, Motoki; OHSHIMA, Manami; SENGOKU, Tetsuya; YODA, Hidemi
- 2PB-085** Synthesis of pyrazol-fused quinoxaline derivatives and evaluation of their fluorescent characteristics (Faculty of Science and Technology, Seikei Univ.) KATOH, Akira; ONODERA, Takayuki; MATSUMURA, Yuriko
- 2PB-086** Development of fluorescent thermosensor based on thermoresponsive polymer and porality-sensitive fluorophore (Faculty of Science and Technology, Seikei Univ.) MATSUMURA, Yuriko; KATOH, Akira
- 2PB-087** Synthesis of Zn(II) Complexes with 1-Substituted 2-Aryl-3-hydroxy-4(1*H*)-quinolinethiones and Their Insulin-Mimetic Activities (Faculty of Science and Technology, Seikei Univ.; Kyoto Pharm. Univ.; Suzuka Univ. of Med. Sci.) KATOH, Akira; HARASHIMA, Hiroshi; MATSUMURA, Yuriko; YOSHIKAWA, Yutaka; YASUI, Hiroyuki; SAKURAI, Hiromu
- 2PB-088<sup>†</sup>** Manganese(III)-Based Radical Cyclization of Cyclic Hydroxyenones with Thienyl-Substituted Alkenes (Grad. School Sci. Tec., Kumamoto Univ.) NISHINO, Hiroshi
- 2PB-089** Oxidative Intramolecular Tandem Cyclization of 4-Pentenyl 3-Oxobutanoates with Manganese(III) Acetate (Grad. School Sci. Tec., Kumamoto Univ.) MATSUI, Yu-uki; NISHINO, Hiroshi
- 2PB-090** Oxovanadium(IV) complexes with hydroxyazine-type heterocycles and their apoptosis-inducing activities (Faculty of Science and Technology, Seikei Univ.; Faculty of Biomedical Engineering, Toin Univ. of Yokohama) YAMAGUCHI, Tomoko; KATOH, Akira; MATSUMURA, Yuriko; ISHII, Takuya; TOKUOKA, Yoshikazu
- 2PB-091** Synthesis of New 3- and 6-Disubstituted Quinoxalines Bearing Aminobenzocrown Ether and Evaluation of Their Antiproliferative Activities toward Cancer Cells (Faculty of Science and Technology, Seikei Univ.) KATOH, Akira; MASUDA, Yusuke; MATSUMURA, Yuriko; KAWAHITO, Yuji; HISATOMI, Hisashi
- 2PB-092** Synthesis of Metal Complexes with 3-Hydroxyflavone Derivatives and Their Insulin-Mimetic Activities (Faculty of Science and Technology, Seikei Univ.; Kyoto Pharm. Univ.; Suzuka Univ. of Med. Sci.) KATOH, Akira; IMAGAWA, Shota; MATSUMURA, Yuriko; YOSHIKAWA, Yutaka; YASUI, Hiroyuki; SAKURAI, Hiromu
- 2PB-093** Synthesis of 3-acetoxybenzo[*b*]thiophene-2-carboxamides utilizing an interrupted Pummerer reaction (Grad. Sch. Eng., Tottori Univ.) KANBE, Yuuki; HORIUTHI, Mai; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PB-094** The reaction of ninhydrin with diamines (Josai Univ.) SETO, Hideyuki; WAKABAYASHI, Hidetsugu; KOBAYASHI, Keiji
- 2PB-095** Synthesis of  $\alpha$ -Dicarbonyl Compounds from *N,N'*-Diphenylimidazolidine-2,4,5-trione (Dept. Chem., Kanagawa Univ.) WATANABE, Nobuko; HAMANO, Mitsutaka; MATSUMOTO, Masakatsu
- 2PB-096** One-pot synthesis of 2-aminobenzothiazoles from 2-iodophenyl isothiocyanates and amines under nonmetallic conditions (Grad. Sch. Eng., Tottori Univ.) KOBAYASHI, Akihiro; MURAHASHI, Kazuya; FUKAMACHI, Shuhei; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PB-097** Synthesis of thienopyridines utilizing an interrupted Pummerer reaction (Grad. Sch. Eng., Tottori Univ.) SUZUKI, Teruhiko; HORIUCHI, Mai; SHIROYAMA, Yasuhiko; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PB-098** Synthesis of isochromans based on the reaction of 2-lithiostyrenes with epoxides (Grad. Sch. Eng., Tottori Univ.) FUKAMACHI, Shuhei; SHIKATA, Kazuaki; MAEGAWA, Hiroki; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PB-099** One-pot synthesis of 3-methoxy-3,4-dihydroisocoumarins based on reactions of 2-lithio- $\beta$ -methoxystyrenes with carbon dioxide (Grad. Sch. Eng., Tottori Univ.) MIYATANI, Wataru; NAGAOKA, Toshiyuki; SHIRAI, Yui; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PB-100** Preparation of chromanes from the cyclization reactions of alcohols with DIH (Chiba Univ.) FURUYAMA, Shusuke; TOGO, Hideo
- 2PB-101** Reaction of Phenylnitrene in the Presence of Alcohol and Amine (Okayama Univ.) SITI MARIYAH, Ulfa; OKAMOTO, Hideki; SATAKE, Kiyosuke
- 2PB-102** Microwave-assisted solvent-free synthesis of heterocyclic compounds from thiourea and thiosemicarbazide derivatives (Shibaura Institute of Technology) KAI, Takuya; HASHIMOTO, Chikao; KODOMARI, Mitsuo
- 2PB-103** Novel Syntheses of cyclo[3.2.2]azines from 1,4-thiazino[3,4,5-*cd*]indolizines (Fac. Eng., Shinshu Univ.) MURANAKA, Hideyuki; SUGA, Hiroyuki; KAKEHI, Akikazu
- 2PB-104** Efficient Preparation of Tetrahydropyrimidines from Aldehydes and 1,3-Diaminopropane (Chiba Univ.) TAKAHASHI, Shogo; TOGO, Hideo
- 2PB-105** Withdrawn
- 2PB-106** Development of novel quinone analogue as oxidant and their applications (Faculty of Science, Toho Univ.; Creation of Functional Material Laboratory, Business-Academia Collaboration Department) TAKAGAKI, Hidetsugu; WATANABE, Hidetoshi
- 2PB-107** Preparation of 2,1-Benzothiazine-2,2-dioxides from *N*-methoxy-2-

- arylethanesulfonamides with PhI/Oxone system (Chiba Univ.) ISHIWATA, Yoshihide; SUZUKI, Yusuke; TOGO, Hideo
- 2PB-108** Photo [1,7] Sigmatropic Rearrangement of 1-Azacycloheptatriene (Okayama Univ.) ADACHI, Nozomi; ASAGIRI, Fuminori; OKAMOTO, Hideki; SATAKE, Kyosuke
- 2PB-109** An efficient synthesis of 3-acylisoxazoles using silica gel supported polyphosphoric acid (College of Science and Technology, Nihon Univ.) ITOH, Ken-ichi; SATOH, Hiroaki; FUJII, Yuki; AOYAMA, Tadashi; KODOMARI, Mitsuo; SAKAMAKI, Hiroshi; TAKIDO, Toshio
- 2PB-110** Aerobic hydrogenation of olefins using by cyclohepta[b]pyrimido [5,4-d]pyrrole-8(6H),10(9H)-dione derivatives (Fukushima Univ.) TAKAYASU, Tooru; TADA, Naomi
- 2PB-111**  $\alpha$ -Bromination of Ketones Using NBS in Ionic Liquids and its application to Preparation of Thiazols (Chiba Univ.) IZUMISAWA, Yuhta; TOGO, Hideo
- 2PB-112** Synthesis of Nitrogen-containing Heterocyclic Compounds by the Selenium-catalyzed Reaction of *trans*-2,2'-Dinitrostilbenes with Carbon Monoxide (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) MORISHITA, Shigeru; UMEDA, Rui; NISHIYAMA, Yutaka
- 2PB-113** Reactions of *N*-Propargyl-6,8-bis(trifluoroacetyl)-5-quinolylamine with Acetoacetates, Cyanoacetates, and Malononitrile - Syntheses of Fluorine-Containing Phenanthroline Derivatives (Kobe Univ.) SAKAI, Ayaka; SAIKAWA, Shohei; KAMITORI, Yasuhiro; SHIBATA, Dai; OKADA, Etsuji
- 2PB-114** Trifluoroacetylation of 4-Dimethylamino-7-trifluoromethylbenzo[*c*]acridines - Synthesis of Novel Building Blocks for the Construction of Fluorine-Containing Fused Polycyclic Heterocycles (Kobe Univ.) OKADA, Akinori; SAIKAWA, Shohei; OKADA, Etsuji
- 2PB-115** Chiral Lewis acid catalyzed asymmetric 1,3-dipolar cycloaddition reactions of carbonyl ylides generated from diazo carbonyl compounds with 2,3-dihydrofuran (Shinshu Univ.) SUGA, Hiroyuki; ZHANG, Hongyi; OHTSUKA, Motoo; KAKEHI, Akikazu
- 2PB-116** Conversion of cellulose into biofuel utilizing acid ionic liquids (Oita Univ.) DATE, Miyuki; KITAOKA, Satoshi; NOBUOKA, Kaoru; ISHIKAWA, Yuichi
- 2PB-117** Effect of Anion Structure on Imidazolium-Type Ionic Liquid (Oita Univ.) MAKI, Yusuke; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 2PB-118** Synthesis of novel cage type compound which part of foundation of cage consisted of triazine ring (College of Science and Technology, NIHON Univ.) YOSHIDA, Keisuke; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 2PB-119** Synthesis of a Novel 1,10-Diaza-18-crown-6 Ether Substituted with Two Long Chains Bearing a  $\omega$ -Anthracen-9-yl Group at the *N,N'* Positions (Dept. Chem., Kanagawa Univ.) MATSUMOTO, Masakatsu; ABE, Seiko; WATANABE, Nobuko; IJUN, Hisako
- 2PB-120** Synthesis and Properties of Bridged [7]Heterohelicenes with Substituents on Outer Rims. (Fac. of Systems Engineering, Wakayama Univ.) INUI, Yasutaka; OSUGA, Hideji; TANAKA, Ken-ichi; SAKAMOTO, Hidefumi
- 2PB-121** Synthesis of nitrogen-containing heterocyclic compounds (Graduate School of Engineering, Shibaura Institute of Technology) AIDA, Kei; KIDOWAKI, Masatoshi; TOMODA, Haruhiko; MIYASAKA, Tsutomu
- 2PB-122** Synthesis and Characterization of a series of Aryl-substituted 5,15-Diazaphorphyrin Metal Complexes (Toyama Pref. Univ.) KAWABATA, Shigeki
- 2PB-123** Synthesis of porphyrin-carbazole conjugate connected with ethynyl group (Univ. of Yamanashi; Graduate School of Yamanashi) TANAKA, Misa; OGAWA, Kazuya
- 2PB-124** Synthesis and Optical Resolution of Marine Natural Product Lamellarin N Possessing Axial Chirality (Grad. Sch. Sci. Technol., Nagasaki Univ.; Fac. Eng., Nagasaki Univ.) ITOYAMA, Ryosuke; FUKUDA, Tsutomu; IWAO, Masatomo
- 2PB-125** Development of novel synthesis of 11-substituted ellipticine derivative (Tokyo Univ. of Science) KONAKAHARA, Takeo; NAGAI, Kentaro; IKEDA, Reiko; SAKAI, Norio
- 2PB-126** Synthetic Study of Muscovyridine Analogue via Ring Expansion Reaction by Conjugate Addition of Cyclic  $\beta$ -Keto Ester to Alkynyl Imine as a Key Reaction (Mie Univ.) YAMADA, Yoshiyasu; MATSUMOTO, Hisae; HACHIYA, Iwao; SHIMIZU, Makoto
- 2PB-127** Synthesis of (-)-(*R*)-Angustureine (College of Engineering, Nihon Univ.) ISHII, Keita; NODA, Yoshihiro
- 2PB-128** Studies on Synthesis of Fluorescent Aza-Quinquephenyls (Interdisciplinary Faculty of Science and Engineering Material Science, Shimane Univ.) YASUDA, Suguru; SHIMOSHIMA, Yoko; TAKAHASHI, Kazufumi
- 2PB-129** Synthesis of fluorescent oligomers with imidazopyridine (Graduate School of Engineering, Shibaura Institute of Technology) FUJII, Hirokazu; KIDOWAKI, Masatoshi; NAGA, Naofumi; TOMODA, Haruhiko
- 2PB-130** Emission behavior of 2-aryl-1-azaazulenes (Fac. Sci., Shinshu Univ.; Fac. Eng., Univ. of Toyama) ODA, Mitsunori; TAKEUCHI, Rie; FUJIMORI, Kunihide
- 2PB-131** Synthesis of fluorescent Cinnolin Derivatives (Kinki Univ.) FUJITA, Yuusuke; IMAI, Yoshitane; YAMAGUCHI, Yoshihiro; MATHUBARA, Yoshio; YOSHIDA, Zen-ichi

- 2PB-132** Syntheses of novel histone deacetylase inhibitors having hydroxyazines as zinc binding sites (Toho Univ.) SAITO, Ryota; KAWARADA, Hikaru; ISHITUKA, Tomoya
- 2PB-133** Development of a Therapeutic Agent for Myelodysplastic Syndromes, 4-Carbamoylimidazolium 5-olate (MBR-108) (The Institute of Scientific and Industrial Research, Osaka Univ.) KONDO, Chihiro; HIGUCHI, Yusuke; OURA, Chiaki; SUNAGAWA, Makoto; KATO, Nobuo

## Organic Chemistry -Reaction and Synthesis-Heteroatom Compounds

- 2PB-135** Efficient preparation of arylallylsilanes acting as sol-gel precursors (Nara National College of Technology; CREST, JST) UMEMOTO, Akinari; KITAZATO, Shingo; KAMEI, Toshiyuki; SHIMADA, Toyoshi
- 2PB-136** Preparation, Properties and Application of Functionalized Benzoxisoles as Hole-Transporting Material for Phosphorescent OLEDs (Univ. of Tokyo; ERATO, JST) ILIES, Laurean; MITSUI, Chikahiko; TSUJI, Hayato; SATO, Yoshiharu; NAKAMURA, Eiichi
- 2PB-137** Synthesis of 9-Bora-10-pnictogenatriptycene from Triarylhydroborate (Dept. Chem., Sch. Sci., Kitasato Univ.) YASUKAWA, Takuya; SHIBATA, Munenori; SUGIMOTO, Jun; UCHIYAMA, Yosuke; YAMAMOTO, Gaku; MAZAKI, Yasuhiro
- 2PB-138** Synthesis and Optical Properties of a Naphthalene-Fused Azaborine (The Univ. of Tokyo; Kyoto Univ. Pioneering Research Unit for Next Generation) ARAI, Hiroki; AGOU, Tomohiro; KAWASHIMA, Takayuki
- 2PB-139** Introduction of alkynyl group to imidazo[1,5-*a*]pyridines and their fluorescent (Gifu Univ.) DOUKE, Yoshimasa; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 2PB-140** Synthesis and Photoisomerization of Bisazobenzenes Using Condensation reaction of Nitrosobenzene (Faculty of Engineering, Soka Univ.) WATANABE, Masaaki; HOSOKAWA, Yuji; WATANABE, Kazuma; ITO, M. Masato
- 2PB-141** Synthesis and cyclization of *N*-thioacyl-1,2-aminoalcohols with 2-pyridyl group (Dept. Chem., Fac. Eng., Gifu Univ.) NAGAYA, Eri; TAHARA, Shinsuke; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 2PB-142** Deprotection of dithioacetals using hydrogen peroxide catalyzed by niobium(V) chloride and sodium iodide, and its application for synthesis of acylsilanes (Shizuoka Inst. Sci. & Tech.) NOGUCHI, Takuya; OKAJIMA, Nobuhiko; ISHIZUKA, Yuki; KIRIHARA, Masayuki
- 2PB-143** Novel synthesis of poly(phenylene sulfide) 1 (Fac. Eng., Iwate Univ.) OGAWA, Satoshi; NAKAYA, Yasutaka; MURAOKA, Hiroki
- 2PB-144** Novel synthesis of poly(phenylene sulfide) 2 (Fac. Eng., Iwate Univ.) OGAWA, Satoshi; IZUTSU, Kenta; MURAOKA, Hiroki
- 2PB-145** Reactivity of a Stable Primary-alkyl-substituted *S*-Nitrosothiol (Tokyo Institute of Technology) ABE, Noriaki; SASE, Shohei; GOTO, Kei
- 2PB-146** aaa (Yonago National College of Technology) TERAMOTO, Eriko; YAMAMOTO, Kohei; TANIFUJI, Naoki
- 2PB-147** Synthesis and Thermolysis of Reaction of a Hypervalent 1,2-dithietane Bearing Two Chiral Carbon Centers (The Univ. of Tokyo.) KUSAKA, Shinpei; KANO, Naokazu; KAWASHIMA, Takayuki
- 2PB-148** Synthesis and properties of bicyclo[2.2.2]octadiene fused benzo-1,4-dithiins (Integrated Center for Sciences, Ehime Univ.; Graduate School of Science and Engineering, Ehime Univ.) OCHI, Genki; TANI, Hiroyuki; UNO, Hidemitsu
- 2PB-149** Synthesis and properties of extended cyclic thiophene 4mer,6mer, and 8mer (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) KOU, Hakusai; YAMAKAWA, Jun; NISHIUTI, Tomohiko; TAKASE, Masayoshi; NISHINAGA, Tooru; YODA, Masahiko
- 2PB-150** Synthetic Study of Sulfur Analogues of Benzoquinone by Taking Advantage of a Cavity-shaped Molecular Framework (Tokyo Institute of Technology) NAKAMURA, Masaki; SASE, Shohei; GOTO, Kei
- 2PB-151** Selenation of carbonyl compounds with elemental selenium (Dept. Chem., Fac. Eng., Gifu Univ.) KUBOTA, Saki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 2PB-152** Synthesis, Structure and Property of Selenides having 2-Azaindolizyl Groups (Chubu Univ.; Kitasato Univ.) NIYOMURA, Osamu; YAMAGUCHI, Yoshimi; HIRANO, Yuuki; ANDO, Fumio; KOKETSU, Jugo
- 2PB-153** Radical addition reaction of phosphoroselenic acid esters bearing a binaphthyl group to alkenes. (Dept. Chem., Fac. Eng., Gifu Univ.) ANDO, Takafumi; MONZAKI, Masaki; MURAI, Toshiaki
- 2PB-154** Reaction of Hydrophosphorane with Alkyne and Property of Alkenylphosphorane (Kitasato Univ.) KAJIYAMA, Kazumasa; SOME, Kentarou; HAZAMA, Yuki; YUGE, Hidetaka
- 2PB-155** Synthesis and Reaction of Bis(hydrophosphorane) (Kitasato Univ.) HAZAMA, Yuki; KAJIYAMA, Kazumasa; YUGE, Hidetaka
- 2PB-156** Perfluorosulfonic acid resin catalyzed aromatic phosphorylation for 2-hydroxybiphenyls (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
- 2PB-157** Addition Reaction of a Phosphorus-Hydrogen Bond to Conjugate Enones(1) Synthesis and Characterization of a Novel Phospine with Ferrocene Skeleton (Chubu Univ.) ANDO, Fumio; NOZAWA, Yumi; KOKETSU, Jugo



- 2PB-158** Reaction of Halophospholenonium Salts with Organolithium and Grignard Reagents (Chubu Univ.) ANDO, Fumio; NAKAGIRI, Kazuto; NIYOMURA, Osamu; KOKETSU, Jugo
- 2PB-159** Isolation and Skeletal Inversion of Conformers of 5,10-Dihydroheptanethrenes with Group 15 Elements (Dept. Chem., Sch. Sci., Kitasato Univ.) UCHIYAMA, Yosuke; YASUKAWA, Takuya; MAZAKI, Yasuhiro
- 2PB-160** Preparation of new 4,4'-diiodobinaphthylaldehyde and its derivatization (Nara National College of Technology; CREST, JST) MIZUTANI, Yusuke; SHIBAGUCHI, Hiroshi; KAMEI, Toshiyuki; SHIMADA, Toyoshi

## Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

- 2PB-163** Asymmetric Dihydroxylation of Olefins Using Dendritic Osmium Catalyst (AIST) FUJITA, Ken-ichi; YAMAZAKI, Manabu; YASUDA, Hiroyuki
- 2PB-164** Magnetic Nanoparticle-Supported Osmium Catalyst (AIST; School of Science and Technology, Meiji Univ.) FUJITA, Ken-ichi; YAMAZAKI, Manabu; AINOYA, Taku; TSUCHIMOTO, Teruhisa; YASUDA, Hiroyuki
- 2PB-165** The Convenient Synthesis of Tertiary Alcohols Using Strontium in THP (Faculty of Integrated Arts and Sciences, The Univ. of Tokushima) KANEHIRO, Daisuke; YUASA, Aya; KIKUCHI, Makoto; WADA, Makoto; MIYOSHI, Norikazu
- 2PB-166** The Convenient Esterification of the Bulky Tertiary Alcohol (Faculty of Integrated Arts and Sciences, The Univ. of Tokushima) TAJIMA, Takahiro; ASAOKA, Masashi; KIKUCHI, Makoto; WADA, Makoto; MIYOSHI, Norikazu
- 2PB-167** Copper-Catalyzed C-O Bond Formation Using Hydrazone as a Ligand (Chiba Univ.) MINO, Takashi; SHIBUYA, Masanori; SAKAMOTO, Masami; FUJITA, Tsutomu
- 2PB-168** Two-Electron Reduction of Conjugated Dienes with Zinc Metal and Iron Catalyst (Tokyo Univ. of Sci., Yamaguchi) SHIRAKI, Yoshihiko; AKAGI, Fumio; HOJO, Makoto
- 2PB-169** Iron-Catalyzed Direct Arylation of Aryl Pyridines and Imines Using Molecular Oxygen as an Oxidant. (The Univ. of Tokyo) MATSUMOTO, Arimasa; NORINDER, Jakob; YOSHIKAI, Naohiko; NAKAMURA, Eiichi
- 2PB-170** Fe-SiO<sub>2</sub> Catalyzed Dimerization of Styrene derivatives (Graduate School of Socio-Arts and Science, The Univ. of Tokushima) KIKUCHI, Makoto; WATANABE, Takafumi; MIYOSHI, Norikazu; WADA, Makoto
- 2PB-171** Iron-Catalyzed Oxidative Mizoroki-Heck Reaction (The Univ. of Tokyo) OKABE, Jun; ILIES, Laurean; YOSHIKAI, Naohiko; NAKAMURA, Eiichi
- 2PB-172** Synthesis of a novel *N*-heterocyclic carbene-Ir complex and its application to catalytic reaction (Kansai Univ.) CHIYOJIMA, Hiroyuki; OKAMOTO, Masaki; SAKAGUCHI, Satoshi
- 2PB-173** Reversible Dehydrogenation-Hydrogenation Reactions Catalyzed By Cp\*Ir-Complexes Having Functional Chelate Ligands (Kyoto Univ.) OSAKA, Masaya; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 2PB-174** Allylic Substitution Reaction Catalyzed by *N*-Heterocyclic Carbene-Magnesium Ate Complexes (Kanagawa Univ.) TSUCHIYA, Yu-ji; ISHIKAWA, Hiroyuki; VISWAMBHARAN, Baby; MATSUNO, Chikasi; OKAMOTO, Sentaro
- 2PB-175** Reaction of Diaryl Ketones with Magnesium Metal under Carbon Dioxide (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) KOMAKI, Yuya; UMEDA, Rui; NISHIYAMA, Yutaka
- 2PB-176** Low-valent niobium catalyzed reaction of allylic alcohols (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; KU-HRC) NISHINO, Junichi; OBORA, Yasushi
- 2PB-177** Niobium-catalyzed coupling reactions of imines with olefins (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; KU-HRC) HARADA, Seiichiro; OBORA, Yasushi
- 2PB-178** Ni(0)-Catalyzed Intramolecular Hydroacylation of Aldehyde with Olefin (Faculty of Engineering, Osaka Univ.) SUZUKI, Haruka; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
- 2PB-179** Palladium-catalyzed coupling reaction of acid chloride, alkynes, and disilanes (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.; KU-HRC) ARAI, Tomonari; OBORA, Yasushi
- 2PB-180** Decarboxylative Alkylation of Propargyl- $\beta$ -ketoesters in the Presence of Pd catalyst (Department of Applied Chemistry, National Defense Academy) ISHIKURA, Fujio; KOIZUMI, Toshio
- 2PB-181** Chiral polydentate anionic NHC ligand : Synthesis and reaction of NHC-Pd complex (Kansai Univ.; Univ. of Southern California) KAWAKAMI, Miaki; SAKAGUCHI, Satoshi; YOO, K. S.; JUNG, K. W.
- 2PB-182** Palladium catalyzed coupling reaction of arylzinc reagents with pyridinecarboxylic acid chlorides (Osaka Municipal Technical Research Ins.) IWAI, Toshiyuki; NAKAI, Takeo; MIHARA, Masatoshi; ITO, Takatoshi; MIZUNO, Takumi; OHNO, Toshinobu
- 2PB-183** Synthesis of Functionalized Allylic Compounds by Palladium-Catalyzed Reaction of Propargyl Carbonates and Various Nucleophiles (Department of Applied Chemistry, National Defense Academy) NISHIOKA, Noriyuki; KOIZUMI, Toshio
- 2PB-184** Synthesis of 1,3-Diarylpentene Using Aryl Iodide/Allyl Ester/Arylboronic Acid by Palladium Catalyzed Reactions with Hydrazone Ligand (Chiba Univ.) MINO, Takashi; KOIZUMI, Tomoko; KAJIWARA, Kenji; SAKAMOTO, Masami; FUJITA, Tsutomu

- 2PB-185** Application of Polymerized BINAP Ligand to Pd-catalyzed Buchwald-Hartwig Amination (Nara National College of Technology; Kyoisha Chemical Co.Ltd) KAMEI, Toshiyuki; ISHIBASHI, Aoi; TAKAMATSU, Yoshinori; YONEDA, Shigenori; SHIMADA, Toyoshi
- 2PB-186** Synthesis of Siloles via Rhodium-Catalyzed Cyclization of Dienes with Disilanes (Tokyo Univ. of Science) MATSUDA, Takanori; SUDA, Yuya
- 2PB-187** Syntheses and reaction of small silacycles using ring-closing enyne metathesis (Kanagawa Univ.) YASUMATSU, Junya; KABE, Yoshio
- 2PB-188** Ruthenium-Catalyzed Cycloisomerization Reaction of 2,2'-Diethynylbiphenyls (Tokyo Univ. of Science) MATSUDA, Takanori; KATO, Kotaro; SHIOSE, Shigeru; GOYA, Tsuyoshi; MURAKAMI, Masahiro
- 2PB-189** Influence of Ligands on Photo-allylation Reaction of Aromatic Carbonyl Compounds with Hypervalent Allylsilicon Reagents (Shimane Univ.) MATSUOKA, Daisuke; NISHIGAICHI, Yutaka; TAKUWA, Akio
- 2PB-190** Syntheses of silole-containing polysilanes and its photoluminescence properties (Graduate School of Science and Engineering, Saitama Univ.) KAMIBAYASHI, Satoshi; HATANO, Ken; MATSUOKA, Koji; FUKUDA, Takeshi; KAMATA, Norihiko; TERUNUMA, Daiyo
- 2PB-191** Substituent Effect of Silyl Group on Photobenzoylation Reaction of Carbonyl Compound with Benzylsilane Reagents (Shimane Univ.) TSUNEKAWA, Maho; NISHIGAICHI, Yutaka; IWAMOTO, Hidetoshi; TAKUWA, Akio
- 2PB-192** Activation of *N*-Sulfinylimine by the Simultaneous Addition of Indium Salts and Brønsted Acids (Shimane Univ.) TSURUTA, Shinji; NISHIGAICHI, Yutaka; TAKUWA, Akio
- 2PB-193** Binary 1,4-Remote Asymmetric Induction from Allyl Tin Reagents Containing Chiral Carbamate Functionality (Shimane Univ.) FUKAYA, Marihito; NISHIGAICHI, Yutaka; TAKUWA, Akio
- 2PB-194** Synthesis of Tribenzyltin Reagents and Its Application to Organic Synthesis (Saitama Univ.) YAMAKAWA, Takeshi; KINOSHITA, Hidenori; MIURA, Katsukiyo
- 2PB-195** Synthetic Application of the Products in the Binary Remote Asymmetric Induction Reaction of Allyl Tin Reagents Containing a Chiral Oxygen Functionality (Shimane Univ.) TAKAHASHI, Michiko; NISHIGAICHI, Yutaka; TAKUWA, Akio
- 2PB-196** Applications of Formal Metallo-ene Reaction Mediated by a Divalent Titanium Reagent (Kanagawa Univ.) HASEGAWA, Yu-suke; HAYASHI, Naoto; MATSUNO, Chikasi; OKAMOTO, Sentaro
- 2PB-197** Cp-Free Titanium-Based Reductive Ring-Opening of Epoxides and Oxetanes (Kanagawa Univ.) HAYASHI, Naoto; KAWAJI, Tsuyoshi; MATSUNO, Chikasi; OKAMOTO, Sentaro
- 2PB-198** Low-Valent Titanium-Mediated Reductive Cleavage of Sulfonamides (Kanagawa Univ.) SHO-JI, Noriaki; KAWAJI, Tsuyoshi; MATSUNO, Chikasi; OKAMOTO, Sentaro
- 2PB-199<sup>†</sup>** [(iPr)<sub>2</sub>Zn](MgCl)<sub>n</sub>: A New Type of Organozincates Synthesis, Reactivity and Structural Study (RIKEN) YOKOTA, Judit; LIU, Ching-yuan; MURANAKA, Atsuya; UCHIYAMA, Masanobu

## Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

- 2PB-201** Synthesis of Cyclic Compounds via Intramolecular Photochemical Polar Addition of Carbon-Nucleophile (Grad. Sch. of Eng., Osaka Pref. Univ.; Grad. Sch. of Nat. Sci. & Tech., Kanazawa Univ.) NAKATANI, Keisuke; OHASHI, Maki; MAEDA, Hajime; MIZUNO, Kazuhiko
- 2PB-202** Effects of Magnesium Salts on Photochemical Polar Addition of Ammonia into 2,5-Dimethyl-2,4-hexadiene (Grad. Sch. of Eng., Osaka Pref. Univ.) OHASHI, Maki; KANO, Yusuke; IKEDA, Hiroshi; MIZUNO, Kazuhiko
- 2PB-203** [3+2]-Photocycloadditions of 1,4-Dicyanonaphthalenes Having Methyl Substituents and Styrene (Faculty of Science and Engineering, Shimane Univ.) NOGAMI, Yuki; SHIRATORI, Hideo; KUBO, Yasuo
- 2PB-204** Photoreaction of a spiro-conjoined cyclohexadienone. (Josai Univ.) SUZUKI, Masaya; WAKABAYASHI, Hidetsugu; KOBAYASHI, Keiji
- 2PB-205** Regioselective Photocyclodimerization of Olefins Pre-organized Using Host-Guest Interactions. (Shibaura Institute of Technology) IRIE, Hiromi; NAKAMURA, Asao
- 2PB-206** Mechanistic Studies on Excitation-Wavelength Dependence of Enantiodifferentiating Photosensitized Isomerization of Cyclooctene. (Graduate School of Engineering, Osaka Univ.) YONEDA, Daisuke; SAITO, Hirotsuke; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; WADA, Takehiko; INOUE, Yoshihisa
- 2PB-207** [4+4] Photodimerization of 1-benzoquinoline through cation- $\pi$  interactions (Ochanomizu Univ.) KAWAMURA, Chiaki; YAMADA, Shinji
- 2PB-208** Switching of Fluorescence Response of Trifluoroacetylaminquinoline to Zn<sup>2+</sup> and Cu<sup>2+</sup> (Okayama Univ.) OKAMOTO, Hideki; SATO, Atsuko; SATAKE, Kyosuke
- 2PB-209** Thiomethylation of Aromatic Ketones with Thiomethylsilicon Reagents via Photo-induced Single Electron Transfer (Shimane Univ.) TAKEMOTO, Kazuya; NISHIGAICHI, Yutaka; TAKUWA, Akio
- 2PB-210** Photoreactions of Arylethenes: Geometrical Isomerizations and Doubly Nucleophilic Additions (Graduate School of The Univ. of Tokushima) SUMIMOTO, Makoto; HAYASHI, Tatsuya; OKITA,

- Takashi; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 2PB-211** Enantioselective Cyclization Reactions of (Z)-N-Benzoyl- $\alpha$ -dehydro (1-naphthyl)alanine N'-Hydroxyphenylamides Initiated by Photoinduced Electron Transfer from Chiral Prolinol. (Kanagawa Univ.) YADAI, Hiroyuki; SATO, Yuhki; IGARASHI, Tetsutaro; SAKURAI, Tadamis
- 2PB-212<sup>#</sup>** Pressure, Temperature and Solvent Effects in Supramolecular Enantiodifferentiating Photoisomerization of Cyclooctene Included and Sensitized by  $\beta$ -Cyclodextrin Derivatives (Graduate School of Engineering, Osaka Univ.) LIANG, Wenting; YANG, Cheng; FUKUHARA, Gaku; MORI, Tadashi; INOUE, Yoshihisa
- 2PB-213** Photochemical Reaction of 2-Substituted 3-Ethyl-1,4-naphthoquinones (Shimane Univ.) NAGATANI, Taichi; IWAMOTO, Hidetoshi; TAKUWA, Akio
- 2PB-214** Synthesis and Chemiluminescence of Dioxetanes Bearing a Benzo[c]thiafluorene Moiety and Dibenzofluorene Moiety (Dept. Chem., Kanagawa Univ.) KIKUCHI, Masato; SAKATA, Hiroko; WATANABE, Nobuko; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 2PB-215** Synthesis of a Bicyclic Dioxetane Bearing a Hydroxyphenyl and a Crown Ether Moiety Capable of Forming an Intramolecular Complex and Its Base-induced chemiluminescence (Dept. Chem., Kanagawa Univ.) SUZUKI, Haruna; WATANABE, Nobuko; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 2PB-216** Synthesis of Benzylisoquinoline Alkaloids via Photoinduced Addition Reaction toward Isoquinolinium Salts with Tetra-coordinated Organoboron Reagents (Shimane Univ.) KOYACHI, Kuniyoshi; NISHIGAICHI, Yutaka; TAKUWA, Akio
- 2PB-217** Fluorescence behavior of intramolecularly formed exciplex between aromatic and guanine moieties (Univ. of Tsukuba) SHIMAMURA, Koki; SHINOHARA, Yoshihiro; NISHIMURA, Yoshinobu; ARAI, Tatsu
- 2PB-218** Photocatalytic TiO<sub>2</sub>-treatment for Biological Saccharification of Soft-cellulose (Univ. of Miyazaki) YUKI, Ryota; MATSUMOTO, Jin; SHIRAGAMI, Tsutomu; YASUDA, Masahide
- 2PB-219** Control of imidazopyrazinone chemiluminescence: an effect of phenyl introduction (The Univ. of Electro-Communications) KOBAYASHI, Hirokazu; FUJIO, Shunsuke; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 2PB-220** Substituent effect and solvent effects on photoreaction of benzoyl acetoamide (Tokyo Gakugei Univ.) ITO, Yasushi; KAMIO, Satoshi; MAEDA, Yutaka; HASEGAWA, Tadashi
- 2PB-221<sup>†</sup>** Structural Relationship to Thermal Decomposition and Charge-transfer-induced Decomposition for Bicyclic Dioxetanes Bearing a 3-Hydroxyphenyl Moiety (Dept. Chem., Kanagawa Univ.) TANIMURA, Masatoshi; WATANABE, Nobuko; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 2PB-222** Synthesis and Chemiluminescence of Dioxetane Bearing a Sterically Crowded Binaphthyl Moiety (Dept. Chem., Kanagawa Univ.) WATANABE, Nobuko; KAWASHIMA, Hidehisa; HASEGAWA, Satoshi; MATSUMOTO, Masakatsu
- 2PB-223** Temperature and Solvent Effects on Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylic Acid Mediated by gamma-Cyclodextrin Derivatives (Graduate School of Engineering, Osaka Univ.) YANG, Cheng; INOUE, Yoshihisa
- 2PB-224** Highly Selective Solid-State Photocycloaddition Reactions of 2-Pyrones Having Hydroxyl Group with Benzophenones (Kagoshima Univ.) MIFUKA, Hajime; SHIMO, Tetsuro; SOMEKAWA, Kenichi
- 2PB-225** Light-color modulation mechanism of firefly bioluminescence: study on a substituent effect (The Univ. of Electro-Communications) HASUMI, Yosuke; MAKI, Syoujiro; NIWA, Haruki; HIRANO, Takashi
- 2PB-226** Synthesis of Porphyrin-Linked Single-molecular Quinone Pools Containing Two Different Quinones and Their Properties (Inst. for Molecular Science) KAWAO, Masahiro; KON, Hiroki; NAGATA, Toshi
- 2PB-227** Highly Diastereoselective [2+2] Photocycloaddition of Chiral Cyclohexenone Derivatives with Cyclopentene. (Nara Institute of Science and Technology) TERAO, Kimitada; FURUTANI, Akinori; TSUTSUMI, Ken; MORIMOTO, Tsumoru; KAKIUCHI, Kiyomi
- 2PB-228** Synthesis of Dioxetanes Substituted with a Biaryl Bearing a Crown Ether Linkage and their Metal-ion Responsive Chemiluminescent Decomposition (Dept. Chem., Kanagawa Univ.) HASEGAWA, Satoshi; WATANABE, Nobuko; MATSUMOTO, Masakatsu
- 2PB-229** Photocycloadditions of 1-benzyl-7-azaisatins with 2,3-dimethylbut-2-ene (Aichi Institute of Technology) TATSUGI, Jiro; MAEDERA, Kouta
- 2PB-230** Photoasymmetric Reaction Using Chiral Crystals of Quilomamide (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; YAGISHITA, Fumitoshi; MINO, Takashi; FUJITA, Tsutomu

## Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry

- 2PB-233** Preparation of Calixarene-modified Platinum Electrode (Kinki Univ.) SUGIHARA, Hiroyuki; ISHIFUNE, Manabu
- 2PB-234** Preparation of New Carbon-based Material Modified with TEMPO and Thermoresponsive Polymer (Kinki Univ.) HIOKI, Tomoya; ISHIFUNE, Manabu
- 2PB-235** Synthesis of hydrophile Carbon Fiber that uses anodic oxidation coating and application to Drug Delivery System (Kinki Univ.) KASHIMURA, Shigenori; ISHIFUNE, Manabu; SUZUKI, Tatsuou;

SANO, Akikazu

- 2PB-236** Copolymerization of dichlorosilane with styrene by electron transfer reaction. (Kinki Univ.) KASHIMURA, Shigenori; ISHIFUNE, Manabu; TANIGUCHI, Shingo; KUNIHIRO, Takushi
- 2PB-237** Reaction of the electrochemically accumulated germyl anions with their precursors (Tolyo Polytechnic Univ.) MATSUMOTO, Shiro; OKANO, Mitsutoshi
- 2PB-238** Reductive copolymerization of PhMeSiCl<sub>2</sub> and vinyl monomers (Kinki Univ.) KASHIMURA, Shigenori; ISHIFUNE, Manabu; FUNAKI, Masahiro
- 2PB-239** Electroreduction of aromatic compound by using Mg electrodes. (Kinki Univ.) KASHIMURA, Shigenori; ISHIFUNE, Manabu; OMOTEYAMA, Chiemi

## Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

- 2PB-241** Immobilization of Pd on Nanosilica Dendrimer as SILC: Highly Active and Sustainable Cluster Catalyst for Suzuki-Miyaura Reaction (Grad. School of Sci. and Tech., Niigata Univ.; Faculty of Eng., Niigata Univ.) HAGIWARA, Hisahiro; SASAKI, Hirokazu; TSUBOKAWA, Norio; HOSHI, Takashi; SUZUKI, Toshio
- 2PB-242** Immobilization of MacMillan Catalyst as Supported Ionic Liquid Catalyst (Mac-SILC) and Asymmetric Diels-Alder Reaction (Grad. School of Sci. and Tech., Niigata Univ.; Faculty of Eng., Niigata Univ.) HAGIWARA, Hisahiro; KURODA, Toshihiro; HOSHI, Takashi; SUZUKI, Toshio
- 2PB-243** Measurement and Application of Complex Dielectric Constants for Microwave-Assisted Chemical Reactions (Natl. Inst. of Advanced Industrial Science and Technology (AIST)) YAMASHITA, Hiroshi; KOBASHI, Hiroko; HATORI, Makiko
- 2PB-244** Efficient Synthesis of Furan Derivatives through Friedel-Crafts Type Reaction Using Microwave Irradiation and Solid Acid Catalysts (Natl. Inst. of Advanced Industrial Science and Technology (AIST)) MITSUKURA, Yumi; HATORI, Makiko; YAMASHITA, Hiroshi
- 2PB-245** Microwave irradiation effect for the ligand exchange reaction between ferrocene and heterocyclic aromatic compounds. (Grad. Sch. Sci., Eng., Ritsumeikan Univ.) NIOU, Atsushi; OKADA, Yutaka; ITOU, Tatsuya; CHINA, Hideyasu
- 2PB-246** Microwave-Assisted Claisen Rearrangement of Allyloxybenzenes (Grad. Sch. Sci., Eng., Ritsumeikan Univ.) SUZUKI, Yusuke; OKADA, Yutaka; ITOU, Tatsuya; CHINA, Hideyasu
- 2PB-247** Synthesis of Guest Specific Host Molecules by Dynamic Combinatorial Approach (Shibaura Institute of Technology) TSUTSUI, Masahito; NAKAMURA, Asao
- 2PB-248** Solid-Phase Synthesis of Sugars from Glycolaldehyde Derivatives by Cross Aldol Reaction (Faculty of Engineering, Soka Univ.) SAITO, Ayumu; NAKAYAMA, Shota; ITO, Masato M.
- 2PB-249** Continuous microflow synthesis using fluoros method (The Noguchi Institute) KAWAKAMI, Hiroko; MIZUNO, Mamoru
- 2PB-250** Catalytic reactions with poly(4-vinylbenzyltributylammonium chloride)-stabilized Pd nanoparticles in water (Osaka Institute of Technology) OHTAKA, Atsushi; KONO, Yuki; TAMAKI, Yuji; EGAMI, Koji; IGAWA, Yuta; SHIMOMURA, Osamu; NOMURA, Ryoki
- 2PB-251** Linear polystyrene-stabilized Pd nanoparticles for Suzuki cross-coupling reaction in water (Osaka Institute of Technology) OHTAKA, Atsushi; TERATANI, Takuto; FUJII, Ryohei; IKESHITA, Kanako; SHIMOMURA, Osamu; NOMURA, Ryoki
- 2PB-252** Recovery of Pd nanoparticles with a linear polystyrene (Osaka Institute of Technology) OHTAKA, Atsushi; KUROKI, Ryozi; TERATANI, Takuto; SHIMOMURA, Osamu; NOMURA, Ryoki
- 2PB-253** Synthesis of Arylthiophenes using column reactor (College of Science and Technology, NIHON Univ.) AOYAMA, Tadashi; TANAKA, Eri; KOMOTA, Aya; TAKIDO, Toshio; KODOMARI, Mitsuo

Saturday, March 27, PM

(15 : 00~16 : 30)

## Colloid and Interface Chemistry Dispersion System of Nano- particles

- 2PC-001** Size-controlled synthesis of Au nanoparticles through the reduction of gold-sulfide complex by amine (Osaka Municipal Technical Research Institute) YAMAMOTO, Mari; KASHIWAGI, Yukiyasu; NAKAMOTO, Masami
- 2PC-002** Cu nanoparticles with oxidation resistance synthesized by the controlled thermolysis of copper carboxylate in the presence of alkylamine (Osaka Municipal Technical Research Institute) NAKAMOTO, Masami; YAMAMOTO, Mari; KASHIWAGI, Yukiyasu
- 2PC-003** Synthesis of Copper Sulfide Nanoparticles by Controlled Thermolysis (Osaka Municipal Technical Research Institute) KASHIWAGI, Yukiyasu; YAMAMOTO, Mari; NAKAMOTO, Masami
- 2PC-004** A kinetic study on the oxidation-reduction process of copper particles (Hokkaido Univ.) HYONO, Atsushi; NISHIDA, Naoki;

- YONEZAWA, Tetsu
- 2PC-005** Development of Synthetic process of Cu Nanoparticles by Hydrothermal Technique (Graduate School of Engineering, Osaka City Univ.) KOMETANI, Noritsugu; KONAMI, Satoshi
- 2PC-006** Chiral Selectivity Of Semiconductor Nanocrystals Capped With Chiral Ligands (Nara Inst. Sci. Tech.) OTA, Kai; NAKASHIMA, Takuya; NONOGUCHI, Yoshiyuki; KAWAI, Tsuyoshi
- 2PC-007** Fabrication of Semiconductor Thin Films Using Nanoparticles (Research Center for Solar Energy Chemistry, Osaka Univ.) HARA, Atsushi; YAMADA, Keisuke; IKEDA, Shigeru; MATSUMURA, Michio
- 2PC-008** Thin Film Fabrication from Silver Nanoparticle Paste by Laser Annealing Method (Osaka City Univ.) KOTANI, Takahiro; KOMETANI, Noritsugu
- 2PC-009** Development of Electro Conductive Materials Using Silver Nanoparticles Prepared by a Silane Process (Yamaguchi Pref. Industrial Technology Inst., Nippon Atomized Metal Powders Corp, Choshu Industry Co.Ltd, Tokyo Univ. of Science, Yamaguchi) IWATA, Arihiro; KANEMARU, Masao; UCHIDA, Masakazu; NISHIDA, Naoto; KINERI, Tohru; TOSHIMA, Naoki
- 2PC-010** Preparation and Functions of Liquid Crystal Displays Doped with Poly ( $\gamma$ -Cyclodextrin)-Stabilized Zirconia Nanoparticles (Tokyo Univ. of Sci., Yamaguchi) SHIRAIISHI, Yukihide; SAWAI, Hiroya; NISHIDA, Naoto; TOSHIMA, Naoki
- 2PC-011** Size-Controlled Synthesis of CdS Nanoparticles in Ionic Liquids (Dept. of Material Science, Wakayama National College of Technology) HAYASHI, Junjro; YAMAMOTO, Yoshiteru; WAKIMURA, Shintaro
- 2PC-012** Synthesis and opto-magnetic properties of EuS-Au composite nanoparticles (Graduate School of Materials Science, Nara Institute of Science and Technology) NAKAO, Hiroki; HASEGAWA, Yasuchika; TANAKA, Atsushi; TANAKA, Katsuhisa; HUIJITA, Kouji; KAWAI, Tsuyosi
- 2PC-013** Preparation of solvent dispersible size and shape-controlled monodispersed iron oxide fine particles by surface silica coating followed by organic modification (IMRAM, Tohoku Univ.) ODA, Yasufumi; NAKAYA, Masafumi; KANIE, Kiyoshi; MURAMATSU, Atsushi
- 2PC-014** Synthesis of Polymer Nanoparticles by Amphiphilic Cross-linkable Monomer (Keio Univ.) NAKAJIMA, Satoshi; OSANAI, Shuichi
- 2PC-015** Preparation and evaluation of organic material-coated nanoparticles by photoreaction in gas phase (RIKEN) KUDOH, Satoshi; ORII, Takaaki
- 2PC-016** Fabrication and structural evaluation of organic dye aggregate / metal nanoparticle complexes toward enhancement of two-photon-excited fluorescence generation (Utsunomiya Univ.) YAMAMOTO, Aika; KATO, Noritaka; IIMURA, Ken-ichi
- 2PC-017** The Preparation of Polygonal Gold Nanoparticles with an Isothiouonium-derived Polythiophene (Tokyo Metropolitan Univ.) MINAMI, Tsuyoshi; NISHIYABU, Ryuhei; KUBO, Yuji
- 2PC-018** Fluorescent Behavior and Photo, Thermal, Dispersion Stability of DMF Protected Au Nanocluster (Kansai Univ.) YAMAMOTO, Hiroko; FUJIMORI, Hiroaki; KAWASAKI, Hideya; ARAKAWA, Ryuichi
- 2PC-019** Synthesis of Fluorescent Fe Particles by DMF Reduction Method (Kansai Univ.) SUGII, Yuta; KAWASAKI, Hideya; ARAKAWA, Ryuichi
- 2PC-020** Seed-growth synthesis of gold nanorods by sonochemical reduction method (Osaka Pref. Univ.) NUNOTA, Yuho; OKITSU, Kenji; NISHIMURA, Rokuro
- 2PC-021** Change of optical properties of noble metal nanorods by aggregation (Kumamoto Univ.) KUWAHARA, Yutaka; YAGI, Ryohei; OGATA, Tomonari; KURIHARA, Seiji
- 2PC-022** In-situ time-resolved SAXS studies of metal nanoparticle formation (Nara Women's Univ.; RIKEN Spring-8) KATAGIRI, Etsuko; HARADA, Masafumi; ITO, Kazuki
- 2PC-023** Highly-sensitive Raman Spectroscopy using Gap Mode of Surface Plasmon (Dept. Chem., Fac. Sci., Saitama Univ.) FUTAMATA, Masayuki; YANATORI, Tomomi; YU, Eiei; KOKUBUN, Takeshi
- 2PC-024** Highly-sensitive SERS substrate based on Nanosphere Overlayer (Dept. Chem., Fac. Sci., Saitama Univ.) FUTAMATA, Masayuki; KOKUBUN, Takeshi; YANATORI, Tomomi; YU, Eiei
- 2PC-025** Effect of Counter Ion on Solution Properties of Fluorinated Cationic Gemini Surfactants (Graduated School of Nara Women's Univ.) YOSHIMURA, Tomokazu; HAYAMI, Miho; MATSUOKA, Keisuke
- Molecular Assembly**
- 2PC-026** Competitive Solubilization of Cholesterol and Six Species of Plant Sterols/Stanoles in Sodium Taurodeoxychoalate Solution (Showa Pharm. Univ.) MATSUOKA, Keisuke; HONDA, Chikako; ENDO, Kazutoyo
- 2PC-027** Formose Reaction in Water Pools of Aerosol OT Reverse Micelles (Osaka Univ.) MASAOKA, Makoto; HASHIDZUME, Akihito; SATO, Takahiro
- 2PC-028** Chain Length Dependence on the counterion binding Equilibria of Dextran Sulfates (Grad. Sch. Eng., Kobe Univ.) NAKAJIMA, Yasutaka; NARIAI, Hiroyuki; MAKI, Hideshi
- 2PC-029** Association behavior of pendent ionic liquid containing polymer in water prepared via controlled radical polymerization (Univ. of Hyogo Graduate School of Engineering) IMAMURA, Takahiro; YUSA, Shin-ichi; MORISHIMA, Yotaro
- 2PC-030** Self-aggregates of zinc chlorins prepared in sonicated solvents (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; SHIMIZU, Tomohiro; HIRAI, Ryoji; TAMIAMI, Hitoshi
- 2PC-031** Migration behavior and supramolecular structure of cyclodextrins with ester group on the secondary hydroxyl side (Grad. Sch. Sci., Osaka Univ.) TAKASHIMA, Yoshinori; KANAYA, Akira; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PC-032** Conformation Change of Rotaxanes via Flipping of Host Molecules (Grad. Sch. Sci., Osaka Univ.) TAKASHIMA, Yoshinori; YAMAUCHI, Kazuhiro; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PC-033** One-step synthesis of wedge-shaped amphiphiles consisting of glucosamine, and their organic nanotube formation (NTRC-AIST, SORST-JST) MASUDA, Mitsutoshi; WADA, Momoyo; SHIMIZU, Toshimi
- 2PC-034** Nano-space Chemistry of Organic Nanotubes (3): Construction of Dye-Molecules Organized Nanotubes and the Light Harvesting Ability (NTRC-AIST, SORST-JST) KAMETA, Naohiro; ASAKAWA, Masumi; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 2PC-035** Synthesis of amphiphilic polyoctahedral oligomeric silsesquioxanes and formation of their self-assembly (Kagoshima Univ.) KUWAHARA, Shinya; KANEKO, Yoshiro; KADOKAWA, Jun-ichi
- 2PC-036**† Folate modified organic nanotubes derived from self-assembly of the mixtures of the lipids (National Institute of Advanced Industrial Science and Technology) LU, Gonghao; ASAKAWA, Masumi; KOGISO, Masaki; AOYAGI, Masaru; SHIMIZU, Toshimi
- 2PC-037** Construction of supramolecular architecture and fiber formation based on tetrathiafulvalenopyridazine derivatives (Sch. Sci., Kitasato Univ.) INOUE, Ryota; HASEGAWA, Masashi; MAZAKI, Yasuhiro
- 2PC-038** Creation of novel nanospheres by supramolecular wrapping with helix-forming polysaccharide and estimation of their inner environment. (Graduate School of Life and Environmental Science, Kyoto Prefecture Univ.) NUMATA, Munenori; KANO, Toru
- 2PC-039** Development and function of ionized curdlan (Faculty of nanoscience, Department of engineering, Sojo Univ.) TOKUNAGA, Daisuke; TAMARU, Shun-ichi; SHINKAI, Seiji
- 2PC-040** Formation [1] pseudo Rotaxane Dimer from modified Cyclodextrin (Osaka Univ.) FUKUI, Yu; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PC-041** Supramolecular gel formation based on molecular recognition of cyclodextrins to alkyl group in polymer side chain (Osaka Univ.) KOBAYASHI, Ryosuke; HASHIDZUME, Akihito; YAMAGUCHI, Hiroyasu; TAKASHIMA, Yoshinori; HARADA, Akira
- 2PC-042** Supramolecular Hydrogels Composed of Pseudorotaxanes of Cyclodextrin and Alkylpyridinium (Tokyo Inst. of Tech., Chem. Res. Lab.) SUZAKI, Yuji; TAIRA, Toshiaki; OSAKADA, Kohtarō
- 2PC-043** Synthesis of Thermo-responsive Hollow Particle Using Polymer Micelle Template (Univ. of Hyogo Graduate School of Engineering) NOBORIZATO, Masamitsu; YUSA, Shin-ichi; MORISHIMA, Yotaro
- 2PC-044** Synthesis and ROMP Catalytic Effect of Ruthenium Complexes with a Cyclodextrin Derivative as a Ligand (Osaka Univ.) JOMORI, Daisuke; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PC-045** Synthesis of Dibenzothiophene Salen-Bridged Macrocyclic Directed Toward Functionalized Flexible Nano-Space (Graduate School of Science, Nagoya Univ.) SUZUKI, Atsushi; KAWANO, Shin-ichiro; TANAKA, Kentaro
- 2PC-046** Gelation of Gemini-type Pyridinium Derivatives with Urea Group (Tokyo Medical Univ.; Kitasato Univ.; Tokyo Univ. of Science) ARAI, Sadao; MAEDA, Eriko; MORIOKA, Daisuke; YOSHIHAMA, Isao; KOKUBA, Hiroko; TONEGAWA, Masami; KITAHARA, Ki-ichi; NISHIMURA, Yukihito; TAKEMURA, Tetsuo
- 2PC-047** Solvation dynamics of organogels investigated by the single-photon counting method (Shimane Univ.; Yamaguchi Univ.) TAKATA, Kei; SHIGEMATSU, Hirotake; NISHIYAMA, Katsura
- 2PC-048** Organogel formation based on the two-dimensional hydrogen-bonded sheets of *N,N'*-dialkylsulfamide derivatives (IIS, The Univ. of Tokyo) MAEDA, Nobutada; MASUDA, Kihō; KABASHIMA, Shinichiro; YOSHIKAWA, Isao; ARAKI, Koji
- 2PC-049** Wettability of agar gel surfaces (Yamagata Univ.; Hokkaido Univ.) HIKIMA, Takako; NONOMURA, Yoshimune; MAYAMA, Hiroyuki
- 2PC-050** Synthesis and Physico-chemical Properties of Pyridazine Compounds having a Perfluoroalkyl Chain (Yamaguchi Univ.) OKAMOTO, Hiroaki; HASHIMOTO, Yosuke; MORITA, Yuki
- 2PC-051** Synthesis and Physico-chemical Properties of Dimeric Organic Gelators having Perfluoroalkyl Chains (Yamaguchi Univ.) MORITA, Yuki; YAMADA, Yasuhiro; OKAMOTO, Hiroaki
- 2PC-052** Synthesis and properties of CB-type liquid crystal including phosphorous acid terminal group (Ritsumeikan Univ.) KITAICHI, Mitsuru; KOJIMA, Kazuo; SANADA, Tomoe; IKEDA, Shingo; TSUTSUMI, Osamu; HANASAKI, Tomonori; HASHISHIN, Takeshi
- 2PC-053** Nanotubes, arrays, and rods with skeletons of yttrium and samarium synthesized under association with self-assembly of surfactant micelles (Shimane Univ.; Yamaguchi Univ.; Institute for Molecular Science) HANAMOTO, Takashi; SHIGEMATSU, Hirotake; IKETAKI, Kai; KAJI, Toshihiko; HIRAMOTO, Masahiro; NISHIYAMA, Katsura
- 2PC-054** Characterization of Ferulic Acid Glycoside Esters in Water

(Industrial Technology Center of Wakayama Prefecture) OSAKI, Shusuke; HOSODA, Asao; MORI, Hajime; MIYAKE, Yasuhito; TANAKA, Yoshie; MORI, Megumi; KOBATA, Toshitsugu; TANIGUCHI, Hisaji

### Assembled Film

- 2PC-055** Adsorption of *Vibrio cholerae* hemolysin to Monolayer of Biomembrane Model at the Air/Water Interface (Utsunomiya Univ.) MATSUZAKI, Tomoko; KATO, Norihiro; IIMURA, Ken-ichi; IKEGAI, Hajime
- 2PC-056** Structures and photocurrent properties of monolayers of chlorophyll derivatives (Utsunomiya Univ.) WACHI, Yuriko; KURAYAMA, Fumio; OBA, Toru; KATO, Norihiro; IIMURA, Ken-ichi
- 2PC-057** Micromanipulation of Giant Vesicles (Shinshu Univ.) OOMIYA, Tooru; OKUMURA, Yukihisa
- 2PC-058** Effects of Electrodes on Electroformation of Giant Vesicles (Shinshu Univ.) YAMAZAKI, Hisashi; OKUMURA, Yukihisa
- 2PC-059** Electroformation of Giant Vesicles on a Substrate (Shinshu Univ.) OSHIMA, Takayuki; OKUMURA, Yukihisa
- 2PC-060** The effect of lipid compositions on the interaction between liposomes and environmental pollutants (Soka Univ.) NAKANE, Yoko; KUBO, Izumi
- 2PC-061** Deformations of DOPC liposome Induced by Difference of pH and/or Ionic strength Conditions between Inside and Outside Membrane (Saga Univ.) KURODA, Osami; OISHI, Yushi; NARITA, Takayuki
- 2PC-062** The Electrochemical behavior of Dopamine at SAM-modified Gold Electrodes (NDA) OZAWA, Shinichiro; ARUGA, Atsushi
- 2PC-063** Preparation of self-assembled monolayers (SAMs) from cyclic alkanedisulfides (Tokyo Tech) TADA, Yukihiro; YAMAMOTO, Takuya; TEZUKA, Yasuyuki
- 2PC-064** Preparation of a metamaterial prepared by self-assembly (Nihon Univ.) HASHIMOTO, Asagi; MATSUSHITA, Sachiko

### Solid Surface Interface

- 2PC-065** Immobilization of aryl groups on Si(111) surface with Pd catalyst (The Univ. of Tokyo) SENDO, Junya; YABUSAKI, Yusuke; YAMANOI, Yoshinori; NISHIHARA, Hiroshi
- 2PC-066** Stepwise preparation and electrochemical properties of molecular wire on silicon surface (The Univ. of Tokyo) MAEDA, Hiroaki; YAMANOI, Yoshinori; NISHIHARA, Hiroshi
- 2PC-067** Temperature dependency of surface tension of Au nanoparticle-dispersed alcohol solutions. (Utsunomiya Univ.) HIGASHI, Syuhei; IIMURA, Ken-ichi; SATO, Masahide; ABE, Yoshiyuki; FUKAGAYA, Masato; OHTA, Haruhiko; SHINMOTO, Yasuhisa
- 2PC-068** Supercooled Interfacial Liquid between Porous Material and Liquid; Analyzed by DSC Measurement (Okayama Univ. of Sci.) SUZUKI, Shigefumi; KATAOKA, Tsukasa; KITTA, Shigeharu
- 2PC-069** Size and Interparticle Distance Control of Cubic Pt Nanoparticles for Electrode Catalysis of Fuel Cell (JAIST) OKADA, Satoko; MIYABAYASHI, Keiko; MIYAKE, Mikio
- 2PC-070** Porous polymer with sorbance-desorbance ability for VOC (Tokyo Metropolitan Industrial Technology Research Institute) NAKAGAWA, Tomoe; MONKAWA, Akira; WATANABE, Hiroto; AKIYAMA, Kyoko

### Material Chemistry

#### Process

- 2PC-073** Synthesis and optical properties of HfO<sub>2</sub>: Tb<sup>3+</sup> spherical particles (Ritsumeikan Univ.) MYOKO, Mmasumi; KOJIMA, Kazuo; SANADA, Tomoe; IKEDA, Shingo; MATUMOTO, Taichi; NAKASHITA, Hiroshi; KAWAI, Masashi
- 2PC-074** Solvent-free synthesis of functional siloxane bearing 4-trifluoromethylphenyl group (Gunma Univ.) EGAWA, Yasunobu; UNNO, Masafumi
- 2PC-075** Synthesis of mesoporous porphyrin-silica hybrid and their application (Nara National College of Technology; Toyota Central R&D Labs., Inc.; CREST, JST) UMEMOTO, Akinari; KITAZATO, Shingo; GOTO, Yasutomo; MAEGAWA, Yoshifumi; MIZOSHITA, Norihiro; KAMEI, Toshiyuki; TANI, Takao; INAGAKI, Shinji; SHIMADA, Toyoshi

#### Inorganic materials

- 2PC-076** Preparation and characterization of homogeneous composite by capillary flow precipitation reaction (Coll. Eng., Chubu Univ.) HIRAI, Satoki; ITO, Hiroki; ISHIKAWA, Norihisa
- 2PC-077** Preparation and performances of a natural mordenite hollow fiber (AIST CCP) NAGASE, Takako; ABE, Chie; KIYOZUMI, Yoshimichi; HASEGAWA, Yasuhisa
- 2PC-078** Making of porous BCN compound (Yonago National College of Technology) AOKI, Kaoru; DATE, Yuusuke; ODA, Kohei
- 2PC-079** Synthesis and characterization of transition metal doped titanium dioxide nanoparticle by microwave reaction (Kitakyushu National College of Technology) YAMAMOTO, Kazuya; IKEDA, Kotomi; HAYAKAWA, Yoshihisa; YAMADA, Kenji
- 2PC-080** Analysis of positron annihilation behavior in ordered mesoporous

silica SBA-15 (Graduate School of Engineering, Tohoku Univ.) IKEDA, Ryusuke; KOSHIMIZU, Masanori; ASAI, Keisuke

- 2PC-081** Preparation and their Optical Properties of Y<sub>2</sub>O<sub>3</sub> doped Eu<sub>2</sub>WO<sub>6</sub> red phosphors (Dept. of Mat. Sci. & Engr.; Nat. Def. Acad.) ARUGA, Atsushi; KADOWAKI, Daiki; OZAWA, Shinichiro

### Organic/composite materials

- 2PC-082** Thermal diffusivity in the rotator phase of the odd-numbered n-alkanes C<sub>23</sub>H<sub>48</sub> and C<sub>25</sub>H<sub>52</sub> (Tokyo Inst. of Technology; Rigaku Co. Ltd) MORIKAWA, Junko; TANIGUCHI, Yayoi; YASAKA, Miho; KISHI, Akira; HASHIMOTO, Toshimasa
- 2PC-083** Electric Conductivity of PSQ Resin Containing TTF-TCNQ (Faculty of Systems Engineering, Wakayama Univ.) YAMASHINA, Yohei; TOKOYAMA, Hiroaki; KUMEI, Maki; YAMAMOTO, Hiroyuki; OI, Fumio; YAMAKADO, Hideo; NAKAHARA, Yoshio; KIMURA, Keiichi
- 2PC-084** Solvent vapor dependence of fluorescence of Rhodamine-hydroxalcalite complex (Toyo Univ.) AKUTO, Tetsuya; TAZIMA, Masahiro; MATSUNAGA, Katsuzi
- 2PC-085** Synthesis and Property of Novel Methanofullerenes for Organic Thin Layer Photovoltaic Devices (Osaka Municipal Technical Research Institute) MORIWAKI, Kazuyuki; SHIMIZU, Daichi; MATSUMOTO, Fukashi; TAKAO, Yoko; OHNO, Toshinobu
- 2PC-086** Room Temperature Liquid Porphyrins (Dai Nippon Printing Co., Ltd.) MARUYAMA, Sumio
- 2PC-087** Preparation of new fluorescence dye materials using ionic liquid (Kagoshima Univ.) IZAWA, Hironori; KANEKO, Yoshiro; KADOKAWA, Jun-ichi
- 2PC-088** Apatite Deposition on Polyimide Films Containing Carboxyl Groups in a Biomimetic Solution (Faculty of Engineering, Kanagawa Institute of Technology) YOSHIMI, Seiya; KUBOTA, Manabu; SAEGUSA, Yasuo
- 2PC-089** Withdrawn

### Polymer materials

- 2PC-090** Preparation of poly (L-lactic acid) composite reinforced with epoxidized natural rubber and natural rubber for improvement of thermal and mechanical properties for poly(L-lactic acid) (Faculty of Engineering, Kinki Univ.) HARADA, Dai; SAGARA, Shusaku; SHIRAIISHI, Kohei; SUGIYAMA, Kazuo; YANO, Toru; SAKAGUCHI, Keiko
- 2PC-091** Properties of Low temperature-treated Cyclodextrin polymer-Cellulose Hybrid Materials (Industrial Research Institute, Aomori Prefectural Industrial Technology Research Center; Kankyo Kougaku Co., Ltd.) KIKUCHI, Tohru; SUZUKI, Junichi; YAMAGUCHI, Shinya; SAWADA, Tadashi; UCHISAWA, Hidemitsu; KASAI, Kazuhiko
- 2PC-092** Cross-linking polymerization using polycarboxylic acid of cyclodextrin polymer made by using diatomaceous earth (Kankyo Kougaku Co., Ltd.; Industrial Research Institute, Aomori Prefectural Industrial Technology Research Center) SUZUKI, Junichi; KIKUCHI, Tohru; SAWADA, Tadashi; YAMAGUCHI, Shinya; KASAI, Kazuhiko; UCHISAWA, Hidemitsu

### Carbon compound

- 2PC-093** Solubility of Carbonaceous Materials Containing Nitrogen (Osaka Electro-Communication Univ.) MIMURA, Hiroaki; KAWAGUCHI, Masayuki; ENOMOTO, Hiroyuki
- 2PC-094** Graphene compounds including Au or Ag nanoparticles (Okayama Univ., Industrial Technology Center of Okayama Pref., Oita Univ.) GOTOH, Kazuma; YAMAMOTO, Aki; KINUMOTO, Taro; FUJII, Eiji; OHKUBO, Takahiro; ISHIDA, Hiroyuki
- 2PC-095** Organic Surface Modification of CNT (Toyota Central R&D Labs., Inc.; Toyota Tech. Inst.; Sendai National College of Tech.) TAKEUCHI, Hisato; UMEMOTO, Kazuhiko; OHNO, Masatomi; KITAMURA, Hiroshi; SEKIDO, Masaru

### Thin film

- 2PC-096** Fabrication of Polyimide-like Film by Combined Magnetron Sputtering and Plasma Chemical Vapor Deposition (Kanazawa Institute of Technology) KATO, Yuki; SAKAMOTO, Mune-aki; FURUBAYASHI, Yutaka; KUSANO, Eiji
- 2PC-097** Preparation of Diamond Thin Film and Impurity Doping by Hot Filament CVD Method (Osaka Electro-Communication Univ.) ISHIMARU, Yoshihisa; YAMAMOTO, Hiroshi; KAWAGUCHI, Masayuki; OHNO, Nobuhito
- 2PC-098** Synthesis of Capsule Molecule based on Calix[4]arene and Fabrication of Porous Thin Film (Wakayama National College of Technology) NOMURA, Eisaku; FURUKAWA, Yoshinori
- 2PC-099** Electronic Conductivity of Prebaked Thin Films Fabricated by Calixarene Ion Complexes under VOC Atmosphere (Wakayama National College of Technology) HAYASHI, Koichi; SAKAGUCHI, Keisuke; NITO, Hiroyoshi; NOMURA, Eisaku

## Fine particle

- 2PC-100** Preparation of Silica Hollow Particles with Nanoparticled Shell and Their Photo Properties (AIST-Kansai) FUJIWARA, Masahiro; SHIOKAWA, Kumi; ARAKI, Miyuki; NAKAHARA, Yoshiko
- 2PC-101** Photocatalytic activity of TiO<sub>2</sub> nanoparticle-loaded porous silica colloid (Kinki Univ.) YAMAMOTO, Hironori; TAKATORI, Hiroaki; FUJISHIMA, Musashi; TADA, Hiroaki
- 2PC-102** Deposition of Ag nanoparticles on multiwalled carbon nanotubes (Shinshu Univ.) SONODA, Chika; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo
- 2PC-103** Preparation of Copper Particles from cuprous oxide and cupric oxide (Hokkaido Univ.) NISHIDA, Naoki; HYONO, Atsushi; YONEZAWA, Tetsu

## Functions of Materials

- 2PC-105** Effect of lactic acid derivatives on lipid-solubility of anticholinergic drugs (Fukuoka Univ.) YOSHIHARA, Takamasa; IKEDA, Hirohito; YUKAWA, Miho; MURAKAMI, Taichi; MORIWAKI, Hanae; AKI, Hatsumi
- 2PC-106** Synthesis of surface modified anticancer agent/layered double hydroxide and its cytostatic effect (Iwate Univ.) AISAWA, Sumio; KUMASAKA, Jun; YASUTAKE, Aiko; TAKAHASHI, Satoshi; HIRAHARA, Hidetoshi; NARITA, Eiichi
- 2PC-107** Correlation between transdermal transportation efficiency and Hydrophile Lipophile Balance number of essential amino acids (Department of Chemistry, Faculty of Sciences and Engineering, Meisei Univ.) WATANABE, Yukio; MATSUMOTO, Megumi; TOMITA, Shinnji; UEDA, Toyotoshi; SUZUKI, Harue
- 2PC-108** Controlled enzymatic reaction in fused vesicles containing photo-responsive Malachite Green derivative (National College of Technology; Research Institute of Osaka Prefecture) SUGIOKA, Takuya; SAKURAI, Yoshiaki; UDA, Ryoko
- 2PC-109** Construction of metal-binding peptide-fused epidermal growth factor (EGF) using ribosome display technology (RIKEN) ABE, Shoko; WADA, Akira; SHIMIZU, Shigeru; KITAJIMA, Takashi; ITO, Yoshihiro
- 2PC-110** Photomechanical effect of microcrystals of diarylethene derivatives (Rikkyo Univ.) YAMAGUCHI, Kohei; MORIMOTO, Masakazu; IRIE, Masahiro
- 2PC-111** Single-Crystalline photochromism of diarylethene having non-symmetrical substituents (Rikkyo Univ.) SAKAKIBARA, Daisuke; MORIMOTO, Masakazu; IRIE, Masahiro
- 2PC-112** Photoinduced Topographical Changes of Microcrystalline Surfaces of Asymmetric Diarylethenes (Ryukoku Univ., Mitsubishi Chemical Group, Science and Technology Research Center, Rikkyo Univ.) UCHIDA, Kingo; UYAMA, Ayaka; KIYOHARA, Hiroyuki; NISHIOKA, Yuri; NISHIKAWA, Naoki; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; MORIMOTO, Masakazu; IRIE, Masahiro
- 2PC-113** Wavelength and Temperature Dependency of Photocycloreversion Quantum Yields of Photochromic Diarylethenes (Graduate School of Engineering, Osaka City Univ., PRESTO, JST) IMAGAWA, Hiroyuki; KOBATAKE, Seiya
- 2PC-114** Photochromic Behavior of Asymmetric Diarylethenes Having Trimethylsilyl Group at the Reacting Position (Graduate School of Engineering, Osaka City Univ., PRESTO, JST) IMAGAWA, Hiroyuki; KOBATAKE, Seiya
- 2PC-115** Preparation and supramolecular formation of a diarylethene having triple hydrogen bonding moieties (Department of Chemistry and Applied Chemistry, Saga Univ.) KURANARI, Toshiyuki; MIYAZAKI, Takashi; TAKESHITA, Michinori
- 2PC-116** Preparation and photochromic properties of metacyclothiophenophan-1-enes (Department of Chemistry and Applied Chemistry, Saga Univ.) JIN-NOUCHI, Hirotsugu; ISHIKAWA, Jun; TAKESHITA, Michinori
- 2PC-117** Preparation and photochromic properties of thiophenophan-1-enes having polyether bridge (Department of Chemistry and Applied Chemistry, Saga Univ.) WADA, Yuta; TAKESHITA, Michinori
- 2PC-118** Synthesis and Properties of Diarylethenes with 6-Substituted Carbazole Derivatives (Osaka Kyoiku Univ.) SHOJI, Kentaro; ARIMA, Yu; HORI, Kazushige; KUBONO, Koji; KAKIHARA, Yasuhiro; TSUJIOKA, Tsuyoshi; TANI, Keita
- 2PC-119** Synthesis and Properties of Diarylethenes with Carbazole Derivatives Containing Electron-accepting Group (Osaka Kyoiku Univ.) ARIMA, Yu; SHOJI, Kentaro; HORI, Kazushige; KUBONO, Koji; KAKIHARA, Yasuhiro; TSUJIOKA, Tsuyoshi; TANI, Keita
- 2PC-120** Synthesis of a diarylethene derivative with a tridentate coordination moieties (Univ. of Tsukuba) KIMURA, Norihisa; NIHEI, Masayuki; OSHIO, Hiroki
- 2PC-121** Synthesis of photochromic compound with imidazopyridine part (Graduate School of Engineering, Shibaura Institute of Technology) KAMIYOSHIHARA, Shun; KIDOWAKI, Masatoshi; TOMODA, Haruhiko
- 2PC-122** Synthesis and Properties of Photochromic molecule having a Thieno pyridyl unit. (Nara Inst. Sci. Tech.) FUJI, Ryosuke; KAWAI, Shigekazu; NAKAGAWA, Hisako; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2PC-123** Synthesis and photoisomerization features of azobenzene-palladium (II) complex (Tokyo Tech) HIRADE, Tomohiro; HAN, Mina; HARA, Masahiko
- 2PC-124** Isomerization characteristics of azobenzene in self-assembled monolayers on gold substrate (Tokyo Tech) KANETA, Mitsuyuki; HONDA, Takumu; ISHIKAWA, Daisuke; HAN, Mina; HARA, Masahiko
- 2PC-125** The Photoresponsive Behavior of Azobenzene Derivatives on the Surface of the Silver Nanoprism (Grad. Sch. Eng., Kyoto Univ.) TSUETAKI, Hajime; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 2PC-126** Regulation of duplex DNA strand displacement by visible light sensitive bis-peptide nucleic acid (ISIR, Osaka Univ.) SAWADA, Shinjiro; KAIHATSU, Kunihiko; KATO, Nobuo
- 2PC-127** Photo orientation of Hydrogen-Bonding Photocrosslinkable polymer Liquid Crystals Synthesized by RAFT Polymerization (Univ. of Hyogo) TASHIMA, Ayaka; MATSUDA, Takehiro; MINAMI, Yuta; KONDO, Mizuho; KAWATSUKI, Nobuhiro
- 2PC-128** Photoinduced reorientation and polarization holography in polymer liquid crystalline films with bistolane side groups (Univ. of Hyogo/Nagaoka Univ. of Technology) KAWATSUKI, Nobuhiro; YAMASHITA, Ayumi; KONDO, Mizuho; EMOTO, Akira; ONO, Hiroshi
- 2PC-129** Characterization of Hydrogen-Bonding Liquid Crystalline Block Copolymers Synthesized by RAFT polymerization (Univ. of Hyogo) KURITA, Mami; MINAMI, Yuta; MATSUDA, Takehiro; KONDO, Mizuho; KAWATSUKI, Nobuhiro
- 2PC-130** Formation of polarization diffractive gratings using thermal imprint in hydrogen-bonding photoreactive liquid crystalline polymer (Univ. of Hyogo) MANABE, Sayaka; KAWATSUKI, Nobuhiro; KONDO, Mizuho; OKADA, Makoto; MATSUI, Shinji; ONO, Hiroshi; EMOTO, Akira
- 2PC-131** Patterned polarized light emission of low molecular fluorene derivatives on the photoalignment layer (Univ. of Hyogo) HIRAIWA, Akie; TADA, Kazuya; KONDO, Mizuho; KAWATSUKI, Nobuhiro
- 2PC-132** Dynamics of photomobile polymers with different glass-transition temperature comprising anthracene and alkyl group (Univ. of Hyogo) TAKEMOTO, Masahiko; MATUDA, Takehiro; HUKAE, Ryohei; KONDO, Mizuho; KAWATSUKI, Nobuhiro
- 2PC-133** Preparation and photoresponsive behavior of polyvinyl alcohol comprising anthracene side chain (Univ. of Hyogo) KONDO, Mizuho; FUKAE, Ryohei; KAWATSUKI, Nobuhiro
- 2PC-134** Preparation of silver halide-doped inorganic-organic hybrid films and the application to holographic recording (Toyoashi Univ. of Technology) TSURUMI, Yuuki; SATO, Shizuka; KAWAMURA, Go; MUTO, Hiroyuki; SAKAI, Mototsugu; ARAI, Ryo; IKEDA, Zyunichi; LIM, P. B.; WATANABE, Kenjiro; INOUE, Mitsuteru; MATSUDA, Atsunori
- 2PC-135** Two-Photon Absorption Properties of Cationic Porphyrin Derivatives (Yamaguchi Univ.) TENMA, Yuta; SUZUKI, Yasutaka; KAWAMATA, Jun
- 2PC-136** Preparation of composite materials of dye attached silylated layered titanate and semi-conducting polymer (Univ. of Hyogo) HAMAGUCHI, Yuta; MATSUO, Yoshiaki; SUGIE, Yosohiro
- 2PC-137** adsorption of photofunctional species to the anisotropic gel of poly (N-isopropylacrylamide) hybridized with liquid crystalline clay mineral nanosheets (Fukuoka Inst. Technol.) KAMACHI, Tadaomi; MIAYMOTO, Nobuyoshi
- 2PC-138** Effects of aggregation structures of trinuclear gold(I) complexes on their bulk luminescence behavior (Ritsumeikan Univ.) YANAGI, Hiroyuki; FUJISAWA, Kaori; TSUTSUMI, Osamu
- 2PC-139** Formation and electric properties of conductive layer between organic crystal contact (Hokkaido Univ.) HAYAKAWA, Kei; TAKAHASHI, Yukihiko; INABE, Tamotsu
- 2PC-140** Supramolecular Structures and Photophysical Properties of Ammonium Anthracene Diphosphonate in Solid State (Graduate School of Engineering, Osaka Univ.) HINOUE, Tomoaki; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 2PC-141** Laser induced photoluminescence of multiwalled carbon nanotubes (Shinshu Univ.) KAMENO, Yoshitaka; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo
- 2PC-142** Nonlinear optical property of  $\pi$  conjugated porphyrins (Univ. of Yamanashi; Graduate School of Yamanashi) YAMAGUCHI, Hiroyoshi; OGAWA, Kazuya
- 2PC-143** Solvent dependence of two-photon absorption characteristics of solvatochromic organic compounds (Yamaguchi Univ.) TARUTANI, Honami; KAWAMATA, Jun; TANAKA, Yuki
- 2PC-144** Development of Membrane Filter with Oligosaccharide for Influenza Virus Adsorption (Institute of Industrial Science, The Univ. of Tokyo) KATO, Tomohisa; MIYAGAWA, Atsushi; KASUYA, Maria Carmelita Z.; HATANAKA, Kenichi
- 2PC-145** Investigation of oxygen separate membrane coated with porphyrin metal complex (Muroran Institute of Technology) YOSHIDA, Yoshiaki; SUTO, Katsuyuki; SYOUZU, Issei; SEKI, Chigusa; MATSUYAMA, Haruo
- 2PC-146** The basic research on ion-exchange reaction between a drug and resin and its release behavior. (Showa Pharm. Univ.) SUZUKI, Noriko; CHIKUMA, Toshiyuki
- 2PC-147** Adsorption and desorption properties of catechin derivatives studied by porous anodic alumina membrane (Toyama Institute of Health) YAMASHITA, Tomohisa; KODAMA, Shuji; KEMMEI, Tomoko; OHTO,

Mikiya; NAKAYAMA, Eriko; MURAMOTO, Tatsuya; TERAMAE, Norio; YAMAGUCHI, Akira; SAITOU, Naohito

## Applications of Materials

### Record,Memory

**2PC-149** Gold layer photograph with high permanence by the use of stain method in glass art (Graduate School of Advanced Integration Science, Chiba Univ.) KUGE, Ken'ichi; SUZUKI, Kana; ITO, Ryouta; SAKAI, Tomoko

### Representation

**2PC-150** Investigation of patterning and color filter process of organic-inorganic hybrid film containing latent pigments by using photo acid generator and microwave irradiation (Shibaura Institute of Technology, Faculty of Engineering) KIKUCHI, Naho; OHISHI, Tomoji

**2PC-151** Preparation of microsize encapsulated RGB latent pigments by the sol-gel method for color filter and its thin film formation (Shibaura Institute of Technology, Faculty of Engineering, Dept. of Applied Chemistry) KAWAMURA, Takaki; OHISHI, Tomoji

**2PC-152** Development of the high performance wavelength selective absorption films for PDP by laser irradiation. (Shibaura Institute of Technology, Faculty of Engineering, Dept. of Applied Chemistry) YONEZAKI, Ayumi; OHISHI, Tomoji

**2PC-153** Electrochromic property and making solid devices of Organic-Metallic hybrid polymers (NIMS) AKASAKA, Yumeno; IKEDA, Taichi; HIGUCHI, Masayoshi

**2PC-154** Synthesis and Emission Behavior of Phosphorescent Liquid-Crystalline Platinum(II) Complexes (Chemical Resources Laboratory, Tokyo Institute of Technology) TANAKA, Kunihiko; TAZAWA, Akira; NAM, Yunmi; KINOSHITA, Motoi; IKEDA, Tomiki

**2PC-155** Nanosecond time-resolved electroluminescence study of polymer electroluminescence devices by using a streak camera (Graduate School of Science and Engineering, Saitama Univ.) MINEMURA, Rie; SAKAMOTO, Akira

### Battery,Energy

**2PC-156** Charge/discharge characteristics of FeF<sub>3</sub> cathode by partially oxidation. (Shizuoka Univ.) KATO, Jinta; NOZAWA, Kazuya; TOMITA, Yasumasa; KOBAYASHI, Kenkichi

**2PC-157** Synthesis of heptamethine cyanine dyes and its application to dye-sensitized zinc oxide solar cells (Gifu Univ.) FUNABIKI, Kazumasa; HIBINO, Atsuhiko; KUBOTA, Yasuhiro; MATSUI, Masaki; YOSHIDA, Tsukasa

**2PC-158** Fuel cell performance of catalyst layer prepared by irradiation techniques (JAEA) CHEN, Jinhua; ASANO, Masaharu; MAEKAWA, Yasunari

### Separation Material

**2PC-159** Adsorption and reduction of Cr(VI) in hydrogel having poly(ethylene glycol) chains and desorption of reduced Cr(III) (Nagoya Municipal Industrial Research Institute) NAKANO, Kazunori; YAMAGUCHI, Koichi; ISHIGAKI, Yuzo; AKITA, Shigendo; KINOSHITA, Takehiko

### coating material

**2PC-160** Development of CNSL - Chinese lacquer sap mixture type paints (Meiji Univ.) FUJISHIRO, Tatsuya; MIYAKOSHI, Tetsuo

**2PC-161** Preparation and properties of soluble Ni dithiol complex and the thin film (Shibaura Institute of Technology, Faculty of Engineering, Department of Applied Chemistry) OINUMA, Yousuke; OHISHI, Tomoji

**2PC-162** Preparation and properties of latent DPPP and thin film coating it. (Shibaura Institute of Technology, Faculty of Engineering, Department of Applied Chemistry) KASHIWAMATA, Gakuya; OHISHI, Tomoji

**2PC-163** Theoretical study on the stability of organic functional colorants in the solid state (Graduate School of Eng., Yokohama Natl. Univ.) SENJU, Takatoshi

**2PC-164** Stabilization of Anthocyanins by Incorporation into Metal-containing Mesoporous Silicate (Shizuoka Univ.; Kao Co.Ltd; Tokyo Univ. Technol.) KOHNO, Yoshiumi; SENG, Masanori; YODA, Keiko; SHIBATA, Masashi; MATSUSHIMA, Ryoka; MAEDA, Yasuhisa

**2PC-165** Adsorption of Anthocyanins into Al-containing Mesoporous Silica (Tokyo Univ. Technol.; Shizuoka Univ.; Kao Corp.) SAOTOME, Aya; KANO, Chiyo; KOHNO, Yoshiumi; YODA, Keiko; SHIBATA, Masashi

### Adhesive,Surface-active Agent

**2PC-166** Application of Novel Two Fluoroalkyl End-capped Styrene Dimer to the Surface Modifiers (Hirosaki Univ.; Shimane Univ.) GOTO, Yuki; IIZUKA, Mari; YOSHIDA, Masato; SAWADA, Hideo

**2PC-167** Preparation and Properties of Novel Poly[fluoro(silyl)acetylene]/

silica Composites (Hirosaki Univ.; Saga Univ.) GOTO, Yuki; SHIOSAKI, Masahiro; HANAMOTO, Takeshi; SAWADA, Hideo

**2PC-168** Surface Functionalization of Fluorinated Oligomer/Silica Nanocomposites: Application to the Dispersion of Fullerene and Single-walled Carbon Nanotube in Water with These Nanocomposites (Hirosaki Univ.) GOTO, Yuki; NARUMI, Tamikazu; SAWADA, Hideo

**2PC-169** Surface Modification of Polycarbonates by the Use of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer (Hirosaki Univ.) SUZUKI, Toshihiro; SASAZAWA, Kazuo; SAWADA, Hideo

**2PC-170** Surface Modification of Glass by Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer in the Presence of Sulfonic Acid-type Silane Coupling Agent (Hirosaki Univ.; Ishihara Chemical Co.,Ltd.) SUZUKI, Toshihiro; TAKASHIMA, Hiroki; TAKISHITA, Katsuhisa; SAWADA, Hideo

**2PC-171** Application of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Zinc Oxide Nanocomposites to Surface Modifier (Hirosaki Univ.; Taiyouden Co.,Ltd.) HIRAYAMA, Yutarou; SASAZAWA, Kazuo; SAWADA, Hideo

**2PC-172** Preparation of Fluoroalkyl End-capped Oligomers/Silica Nanocomposites Possessing Nonflammable and Flammable Characteristics after Calcination at 800 Degrees (Hirosaki Univ.) KIKUCHI, Mieko; TASHIMA, Tsukasa; SAWADA, Hideo

**2PC-173** Relationship between Oleophobic-hydrophilic Switching Behavior and Temperature Changes on the Modified Glass Surface Treated with Fluorinated Oligomer/Ionic Liquid Nanocomposites (Hirosaki Univ.) OKADA, Yoshitaka; SAWADA, Hideo

**2PC-174** Preparation of Pentafluorostyrene Copolymeric Nanocomposites-encapsulated Palladium and Application of These Nanocomposites to Suzuki-Miyaura Cross-Coupling Reaction (Hirosaki Univ.; Technical Univ. of Denmark) KIJIMA, Tetsushi; MUGISAWA, Masaki; JANKOVA, Katja; SAWADA, Hideo

**2PC-175** Gelation of Ionic Liquids with Fluoroalkyl End-capped Oligomeric Nanoparticles (Hirosaki Univ.; Nippon Chemical Industrial Co.,Ltd.) OKADA, Yoshitaka; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

**2PC-176** Application of fluoroalkyl end-capped oligomer/titanium oxide nanocomposites to photocatalyst (Hirosaki Univ.; Shimane Univ.; INAX) SAWADA, Eri; IIZUKA, Mari; YOSHIDA, Masato; KAKEHI, Hiroshi; MIURA, Masashi; ISU, Norifumi; SATOH, Yusuke; CYOUNAN, Yukiyasu; SAWADA, Hideo

**2PC-177** Synthesis and Evaluation for Copper Electroplating of Terminal-modified PEG Derivative (Department of Applied Material and Life Science, Kanto Gakuin Univ., Kanto Gakuin Univ. Surface Engineering Research Institute, Kanto Gakuin Univ. High-Tech Research Center) MARUYAMA, Takaaki; KOBAYASHI, Masaki; SUGIMOTO, Masaharu; HONMA, Hideo; KOUZAI, Hiroaki

### Medicine,Pesticide

**2PC-178** Prediction of solubility in some organic solvent-water mixtures of drugs (Dept. of Biological Science, Kinki Univ.) FUJISAWA, Masao; YAMAMOTO, Ryuhei; KIMURA, Takayoshi

### Environmental material

**2PC-179** Development of preparation of latent pigments and organic-inorganic nano hybrid film containing them for recycle bottle (Shibaura Institute of Technology, Faculty of Engineering, Department of Applied Chemistry) KATANO, Akihiro; OHISHI, Tomoji

**2PC-180** Study on Chemical Conversion Coating to Replace Chromating on Zinc Plating Using Transition Elements (Tokyo Metropolitan Industrial Technology Research Institute) KAJIYAMA, Tetsuto; URASAKI, Kaori; MIZUMOTO, Kazunari; DOI, Tadashi

**2PC-181** Development of chrome free anticorrosive coating using Myanmar raw lacquer sap. (Meiji Univ.) NAKAJIMA, Keiichi; MIYAKOSHI, Tetsuo

### High Performance Material

**2PC-182** Preparation of High Refractive Index Hybrids Using Alkoxyethyl terminated Fluorene Derivatives (Osaka Munic. Tech. Res. Inst., Osaka Electro-Commun. Univ.,) YOSHIMOTO, Takuma; WATASE, Seiji; NISHIOKA, Noboru; MATSUKAWA, Kimihiro

**2PC-183** Preparation of Cyclo-trimido tetraphosphate as Novel Flame Retardant (Grad. Sch. Eng., Kobe Univ.) MAKI, Hideshi; NARIAI, Hiroyuki

### Organic Crystals

**2PC-185** Construction and charge-transfer complexation of adamantane-based macrocycles and a cage with aromatic ring moieties (Tokushima Bunri Univ.) TOMINAGA, Masahide; TAKAMATSU, Satoshi; MASU, Hyuma; AZUMAYA, Isao

**2PC-186** Hydrogen-bonded networks formed from tri- and tetrasubstituted adamantanes bearing dimethoxyphenol moieties, and their 1,3,5-trinitrobenzene complexes via charge-transfer interaction (Tokushima Bunri Univ.)

- TOMINAGA, Masahide; KATOH, Junya; KATAGIRI, Kosuke; AZUMAYA, Isao
- 2PC-187** Network Structure in Complex Crystal using Spherical Aromatic Amide as Ligand (Tokushima Bunri Univ.) MASU, Hyuma; KATAGIRI, Kosuke; TOMINAGA, Masahide; KAGECHIKA, Hiroyuki; AZUMAYA, Isao
- 2PC-188** Construction of Network Structure based on Stereochemistry and Intermolecular Interaction of Aromatic Sulfonamide (Tokushima Bunri Univ.) MANJOU, Tomoko; KATAGIRI, Kosuke; MASU, Hyuma; KAWAHATA, Masatoshi; ITO, Humihiro; SEL, Yoshihisa; YOSHIDA, Makoto; DANJO, Hiroshi; TOMINAGA, Masahide; SETAKA, Wataru; YAMAGUCHI, Kentaro; AZUMAYA, Isao
- 2PC-189** Generation of 'C-C' or 'C-N' Axial Chirality by Crystallization and the Utilization to Asymmetric Synthesis (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; ONUKI, Tatsuo; OKAMOTO, Kana; YAGISHITA, Fumitoshi; MINO, Takashi; FUJITA, Tsutomu
- 2PC-190** Control of Axial Chirality of Achiral Nicotinamide Derivatives by the Formation of Salt with Chiral Acid (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; KAMATAKI, Norifumi; MINO, Takashi; FUJITA, Tsutomu
- 2PC-191** Dehydration of alpha, alpha-trehalose dihydrate (Department of Physical Chemistry, Hoshi Univ.) NAGASE, Hiromasa; OGAWA, Noriko; ENDO, Tomohiro; UEDA, Haruhisa
- 2PC-192** Structure analysis of tunnel water dehydration of cephalixin by powder diffraction method. (Tokyo Inst. of Tech.) AOKI, Masahide; UEKUSA, Hidehiro
- 2PC-193** Structure and guest inclusion properties of novel macrocyclic host derived from naphthol carboxylic acid. (Kansai Univ.) HORI, Kyosuke; TANAKA, Koichi
- 2PC-194** Synthesis and Structure of Dibenzothiophene-F<sub>2</sub>TCNQ (Faculty of Systems Engineering, Wakayama Univ.) FUNASE, Akira; YAMAKADO, Hideo
- 2PC-195** Crystal structure of (M<sub>2</sub>P)<sub>n</sub>[Ni(mnt)<sub>2</sub>] (n = 1,2) (Graduate School of Systems Engineering, Wakayama Univ.) KASHIHATA, Daisuke; YAMAKADO, Hideo
- 2PC-196** PbX<sub>2</sub>(X = Cl, Br) chain structures connected by pyrazine or 4,4'-bipyridyl. (Dept. Chem., Josai Univ.) IMAI, Kazunori; HIHARA, Goro; MIYAMAE, Hiroshi
- 2PC-197** Mechanistic investigation of the origin of chiral amplification through cocrystallization (Graduate School of Arts and Sciences, The Univ. of Tokyo; JST ERATO-SORST) SEKIYA, Ryo; KURODA, Reiko
- 2PC-198** Control of the Molecular Arrangements and Solid-State Optical Properties of the Charge-Transfer Complexes composed of Ammonium Anthracene-1,5-disulfonate and Tetracyanobenzene. (Graduate School of Engineering, Osaka Univ.) DOI, Yuta; TOHNAI, Norimitsu; NAKAJIMA, Hiromi; HISAKI, Ichiro; MIYATA, Mikiji
- 2PC-199** Regulation of Molecular Arrangements and Fluorescence Properties by Using Ammonium Anthracene-2,7-disulfonate (Graduate School of Engineering, Osaka Univ.) MATSUOKA, Toshiki; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 2PC-200** Photochromic reactivity control of salicylideneaminopyridine derivative coordinated to a cobaloxime complex. (Tokyo Institute of Technology) JOHMOTO, Kohei; SEKINE, Akiko; UEKUSA, Hidehiro
- 2PC-201** Structure and properties chiral schiff-base macrocycle containing azobenzene framework. (Kansai Univ.) MIYANISHI, Hiroki; TANAKA, Koichi; TAKAHASHI, Hiroki
- 2PC-202** Molecular recognition of 23-Sulfonocholic Acid in Inclusion Crystals (Graduate School of Engineering, Osaka Univ.) YABUGUCHI, Hirohide; YAMAHATA, Yusuke; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
- 2PC-203** Observation of Growth Dynamics of Helical Assemblies Composed of Oleic Acid in Water (Hokkaido Univ.; The Univ. of Tokyo) KAGEYAMA, Yoshiyuki; IWAKI, Sachiko; SUZUKI, Kentaro; SUGAWARA, Tadashi; TAKEDA, Sadamu
- 2PC-204** Control of Polymorphic Transition Inducing Preferential Enrichment by Epitaxial Transition Method (Kyoto Univ.) MORI, Yuku; IWAMA, Sekai; HORIGUCHI, Masahiro; SHIMANO, Eiji; TAKAHASHI, Hiroki; TSUE, Hirohito; TAMURA, Rui
- from 1,3-enynes (Sophia Univ.) SHIMURA, Taichiro; SUZUKI, Noriyuki; MASUYAMA, Yoshiro
- 3PA-004** Synthesis of seven-membered cycloalkyne complexes and their reactivity (Sophia Univ.) TSUCHIYA, Takashi; SUZUKI, Noriyuki; MASUYAMA, Yoshiro
- 3PA-005** Synthesis, Structures and Reactivity of Tetranuclear Gold Complexes with a Linear Tetrphosphine Ligand (Nara Women's Univ.) NISHIDA, Tomoko; TAKEMURA, Yukie; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 3PA-006** Reaction on Germanium atom in the Copper-Germylene Complexes with a  $\beta$ -Diketiminato Ligand (Gakushuin Univ.) NAKADATE, Fumiya; ARII, Hidekazu; MOCHIDA, Kunio
- 3PA-007** Synthesis of  $\eta^5$ -Cyclopentadienyl-Iron Complexes Having an N-Heterocyclic Carbene Ligand and C-H Bond Cleavage Reactions (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) HOSHINO, Ryoko; HATANAKA, Tsubasa; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 3PA-008** An alternative synthetic method for [CpFeCl(pp)] and their reaction with alkyl halides (Faculty of Science and Engineering, Chuo Univ.) KUMAGAI, Kentaro; IKEDA, Yousuke; MUTOH, Yuichiro; ISHII, Youichi
- 3PA-009** Diastereoselective Synthesis of Iridium(III) Boryl Hydride Complexes Having a Metal-Centered Chirality (Dept. Chem., Fac. Sci., Nara Women's Univ.) KATO, Tomoe; URA, Yasuyuki; KATAOKA, Yasutaka
- 3PA-010** Syntheses and Structures of Heteromultinuclear Complexes with Group 9 and 10 Metal Ions Supported by Tetrphosphine Ligand (Nara Women's Univ.) NODA, Sayo; YOSHII, Akiko; NAGATA, Hiroko; TAKENAKA, Hiroe; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 3PA-011** Preparation of Front-to-Front Style Tetrphosphamacrocyclic Diplatinum Complex and its Reaction with Dihydrogen (Grad. Sch. Sci., Hiroshima Univ.) OZAWA, Masanori; INAMI, Yuta; KUBO, Kazuyuki; MIZUTA, Tsutomu
- 3PA-012** Synthesis and Characterization of Ruthenium(IV) and Iridium(III) Complexes with a Si-containing Bidentate Ligand (Gakushuin Univ.) MIYAUCHI, Yasushi; ARII, Hidekazu; MOCHIDA, Kunio
- 3PA-013**† Synthesis and reactivity of mononuclear iron and ruthenium complexes with dithienylethene ligand (Chemical Resources Laboratory, Tokyo Institute of Technology) LI, Huifang; KOIKE, Takashi; AKITA, Munetaka
- 3PA-014**† Meta selective functionalization of phenylsilsesquioxane via Friedel Crafts type reaction (Kanagawa Univ.) KAWAKAMI, Yoshiteru; KABE, Yoshio
- 3PA-015** Epimerization and Ligand-Exchange Reactions of Optically-Active Half-Sandwich-Iron Complexes [CpFe(Prophos)NCMe]X (Coll. Ind. Technol., Nihon Univ.) IKE, Hayato; TSUNO, Takashi; BRUNNER, Henri
- 3PA-016** Preparation and Characterization of Triangular Ruthenium Cluster Anion Linked to a Cationic Alkynyl-Platinum(II) Complex (Chemistry Laboratory, Kochi Gakuen College) YAMAZAKI, Shinsaku; YONEMURA, Toshiaki
- 3PA-017** Reductive Elimination of Biphenyl from Electron-poor Diphosphine-ligated Platinum Complex: Confirmation of the Reaction Process (Okayama Univ.) KORENAGA, Toshinobu; KO, Aram; EMA, Tadashi; SAKAI, Takashi
- 3PA-018** Syntheses and Reactions of Oxo Bridged Dinuclear Ruthenium Complexes having Tp Ligands (Nagasaki Univ.) KATAMINE, Shohei; KODAMA, Mika; MATSUMOTO, Naoki; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke; ONISHI, Masayoshi
- 3PA-019** Photochemical Reaction of Dinuclear Ruthenium Complex having N-N Coupling (Nagasaki Univ.) UTSUNOMIYA, Akira; MATSUMOTO, Naoki; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke; ONISHI, Masayoshi
- 3PA-020** 1,5-remote asymmetric induction reaction of an allyltin reagent containing a chiral oxygen functionality with aldehydes by using zinc Lewis acids (Shimane Univ.) NISHII, Kazuaki; NISHIGAICHI, Yutaka; TAKUWA, Akio
- 3PA-021** Palladium-catalyzed Synthesis of Cyclopentanones from 1,5-Dienes (Dept. Chem., Fac. Sci., Nara Women's Univ.) YAMAMOTO, Mayumi; URA, Yasuyuki; KATAOKA, Yasutaka
- 3PA-022** Synthesis of Dinuclear  $\mu$ -allylpalladium Complexes using Novel Bridging Ligands and Their Catalysis (Shizuoka Univ.) YAMAGUCHI, Yu; TSUKADA, Naofumi
- 3PA-023** Development of inhomogeneous catalyst for oxidation using ruthenium complex intercalated in clay (Dept. Appl. Chem., Fac. Urban Environ. Sci., Tokyo Metropolitan Univ.) MINAMI, Shingo; YAMAGUCHI, Motowo; SATO, Kiyoshi; MIZUNO, Yoshitaka
- 3PA-024** Ruthenium-catalyzed N-O bond cleavage of N-Alkoxyamides (Dept. Chem., Fac. Sci., Nara Women's Univ.) FUKUZAWA, Hiroko; URA, Yasuyuki; KATAOKA, Yasutaka
- 3PA-025** Dinuclear Tantalum Complexes with Sulfur Monodentate Ligands: Preparation and the Catalytic Activity for the Cyclotrimerization of Alkynes (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.; Molecular Analysis and Life Science Center, Saitama Univ.) MATSUURA, Masatoshi; FUJIHARA, Takashi; NAGASAWA, Akira
- 3PA-026** Synthesis of a silole-core carbosilane dendrimer having carbohydrate and its optical properties. (Graduate School of Science and Engineering, Saitama Univ.) HATANO, Ken; MORI, Shota; SAEKI, Hitoshi; KOYAMA,

Sunday, March 28, AM

(10 : 00~11 : 30)

## Coordination Chemistry, Organometallic Chemistry

### Organometallics

- 3PA-001** Dehydrogenative silylation of bulky alcohols catalyzed by silylmolybdenum complexes (Yokohama Natl. Univ.) ENDOU, Tomohiro; MINATO, Makoto
- 3PA-002** Si-Mo catalysts for carbon dioxide fixation ;effects of silyl substituents on the catalytic activity (Yokohama Natl. Univ.) TOYOKAWA, Daigo; MINATO, Makoto
- 3PA-003** Straightforward synthesis of five-membered cycloallene complexes

Tetsuo; MATSUOKA, Koji; TERUNUMA, Daiyo

- 3PA-027** Syntheses of silaborine derivatives (Graduate School of Science and Engineering, Saitama Univ.) IKEGAMI, Masato; HATANO, Ken; KOYAMA, Tetsuo; MATSUOKA, Koji; TERUNUMA, Daiyo  
**3PA-028** Synthetic Studies of Pyrene Analogues Containing (a) Silicon Atom (s) (Institute for Chemical Research, Kyoto Univ.) SAKAI, Kiyomichi; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

### Coordination Chem

- 3PA-029** Synthesis and characterization of novel inorganic-organic hybrids obtained by reactions of two silane coupling agents containing thiol group with the tri-lacunary Keggin polyoxometalate (Faculty of Science, Kanagawa Univ.) NOMIYA, Kenji; AOKI, Shotaro  
**3PA-030** Synthesis of Inter-Cluster Compounds by Reaction of the Gold(I)/Carboxylate/PR<sub>3</sub> (R = Ph, *o*-tolyl) Complexes with Keggin-type Polyoxometalate (Faculty of Science, Kanagawa Univ.) NOMIYA, Kenji; YOSHIDA, Takuya; SAKAI, Yoshitaka; NANBA, Arisa; TSURUTA, Shinichiro  
**3PA-031** Synthesis and Molecular Structure of Two Types Organogermyl Complexes Supported on Mono-Lacunary Dawson Polyoxotungstate (Faculty of Science, Kanagawa Univ.) NOMIYA, Kenji; TOGASHI, Yoshihiro; KASAHARA, Yuhki; AOKI, Shotaro; YOZA, Kenji  
**3PA-032** Synthesis and Molecular Structure of O-Ag-P Bonding Silver(I) Cluster Formed by *N*-Acetyl-*DL*-alanine and Bis(diphenylphosphino)methane (Faculty of Science, Kanagawa Univ.) NOMIYA, Kenji; OHSAWA, Yumi; TAKAGI, Yoshitaka; HARA, Akihiro; TSURUTA, Shinichiro; KUWANA, Wataru; CHIKARAIISHI, Noriko  
**3PA-033** Synthesis and Molecular and Crystal Structures of Silver(I) Clusters Formed by Pentafluorobenzenethiol and Phosphine Ligands (Faculty of Science, Kanagawa Univ.) NOMIYA, Kenji; KUWANA, Wataru; HARA, Akihiro; TSURUTA, Shinichiro; SATOU, Ryo; CHIKARAIISHI, Noriko  
**3PA-034** Syntheses and Molecular Structures and Antimicrobial Activities of Light-Stable and Water-Soluble Silver *DL*-, *L*- *N*-Acetylmethionates (Faculty of Science, Kanagawa Univ.) NOMIYA, Kenji; CHIKARAIISHI, Noriko; YOSHIKAWA, Rie; KUWANA, Wataru; TAKAGI, Yoshitaka  
**3PA-035** Syntheses and Supramolecular Structures of Copper(II) Complexes with Piperazinediphenol. (Osaka Kyoiku Univ.) KUBONO, Koji; TSUNO, Yuki; YOKOI, Kunihiko  
**3PA-036** Structures and Ion Recognition of Supramolecular Trinuclear Complexes with Bis-salicylideneamine (Osaka Kyoiku Univ.) YOROZU, Yoshiaki; KUBONO, Koji; YOKOI, Kunihiko  
**3PA-037** Synthesis, Structure and Behavior in Solution of a Novel 2:2-type Complex of Zirconium(IV)-Containing Dawson Polyoxometalate (Faculty of Science, Kanagawa Univ.) NOMIYA, Kenji; SAKAI, Yoshitaka; JIMBO, Ikumi; SAKU, Yoshio  
**3PA-038** Synthesis and Molecular Structure of Novel Titanium(IV)-Containing Polyoxometalate (POM) Derived From Dimeric Tri-Titanium(IV)-Substituted Keggin POM (Faculty of Science, Kanagawa Univ.) NOMIYA, Kenji; MORI, Yuki; SAKAI, Yoshitaka  
**3PA-039** Reversible Solvent Exchange at Cu(I) Center of a Mix-metal Tetranuclear Cluster of Mo(II) and Cu(I) On Pypfos Platform (Graduate School of Engineering Science, Osaka Univ.) PAL, Kuntal; NAKO, Keisuke; TSURUGI, Hayato; MASHIMA, Kazushi  
**3PA-040** Synthesis and structures of novel Cu(I) ethylene complexes with a tetrazine anion radical ring (Dept. Chem., Kinki Univ.; Research Institute for Science and Technology, Kinki Univ.) MIYAZAKI, Takeshi; MAEKAWA, Masahiko; OKUBO, Takashi; KURODA, Takayoshi; MUNAKATA, Megumu  
**3PA-041** Synthesis of a new homochiral porous-metal complex having binaphthyl framework. (Kansai Univ.) YOSHIMURA, Takuya; TANAKA, Koichi  
**3PA-042** Porphyrin arrays programmed on peptide duplexes (Nagoya Univ., Department of Chemistry; Nagoya Univ., Research Center for Materials Science; CREST, JST) SUZUKI, Marie; YAMADA, Yasuyuki; TANAKA, Kentaro  
**3PA-043** Synthesis and Luminescent Properties of Polynuclear Europium Complexes (Nagasaki Univ.) KOGA, Asami; UMAKOSHI, Keisuke; ARIKAWA, Yasuhiro; ONISHI, Masayoshi  
**3PA-044** Synthesis and structures of oxo-bridged di-, tri-, and tetra-nuclear iron complexes having bis(trimethylsilyl)amide and bulky thiolate ligands (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) YOKOZAWA, Saori; OHTA, Shun; OHKI, Yasuhiro; TATSUMI, Kazuyuki  
**3PA-045** Synthesis of Ir(III) complexes carrying substituted 8-quinolinols as ancillary ligands (Kobe City College of Technology) OHFUCHI, Shinichi; IIZUKA, Tatsuya; MOTOYAMA, Takao  
**3PA-046** Synthesis and Electrochemical Properties of Green Form of Heteroleptic Double-decker Sandwich Lu(III) Complex Containing Octabutylphthalocyanine and Octamethylphthalocyanine (Kyushu Univ.) TAKAKI, Ryosuke; TAKAHASHI, Kazuhiro  
**3PA-047** Preparation and characterization of novel manganese OEC model complexes. (Fujiwara laboratory) HASHIMOTO, Ryuichi; FUJIWARA, Manabu; MATSUSHITA, Takayuki  
**3PA-048** A synthesis of a polar crystal consisted in chiral single chain magnet. (Univ. of Tsukuba) HOSHINO, Norihisa; NIHEI, Masayuki; OSHIO, Hiroki  
**3PA-049** Synthesis of Silica-Loaded Metal Complexes having a *N*-(2-aminoethyl)salicylideneamino tridentate ligand and their alkene oxidation reaction with various oxidants (Kanagawa Univ.) AKASHI, Takahiro; NAKAZAWA, Jun; HIKICHI, Shiro  
**3PA-050** Ligand Synthesis, Silica Attachment and Complexation with Transition Metals of Trispyrazorylborate Type Ligands on Silica Surface for Development of Silica-Attached Metal Complex Catalysts (Kanagawa Univ.) KASAI, Takeshi; NAKAZAWA, Jun; HIKICHI, Shiro  
**3PA-051** Synthesis of Mo(IV) thiolate complexes having a tridentate [O<sup>-</sup>P<sup>+</sup>O] or [O<sup>-</sup>O<sup>-</sup>O] ligand and their reactions with elemental sulfur (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) TANIYAMA, Nobuhiro; OHKI, Yasuhiro; TATSUMI, Kazuyuki  
**3PA-052** Synthesis of cuboidal [MoFe<sub>2</sub>S<sub>4</sub>] clusters and a [Mo<sub>2</sub>Fe<sub>4</sub>S<sub>9</sub>] cluster from a half-sandwich molybdenum trisulfido complex (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) MIYAZAKI, Kousuke; NAGASAWA, Takayuki; OHKI, Yasuhiro; TATSUMI, Kazuyuki  
**3PA-053** Structural Conversion in Nickel Complexes with N<sub>2</sub>S<sub>2</sub> Ligands (Faculty of Science, Kanagawa Univ.) YAMAMOTO, Taisuke; SUZUKI, Masashi; KAWAMOTO, Tatsuya  
**3PA-054** Synthesis of Osmium Porphyrin with Bulky Aryl Groups and its Substitution of Axial Ligands (Sch. Sci., Kitasato Univ.) YAMASHITA, Masaki; YAMAZAKI, Shingo; YUGE, Hidetaka  
**3PA-055** Synthesis and characterization of palladium (II) dithiocarbamate from amino acid residues (Osaka Institute of Technology) NOMURA, Ryoki; KAWAHARA, Michio; HASHIMOTO, Wataru; OHTAKA, Atsushi; SHIMOMURA, Osamu  
**3PA-056** Stability of monoalkyl dithiocarbamate complex of transition metals (Osaka Institute of Technology) NOMURA, Ryouki; TAKEMORI, Toshihide; KAWAHARA, Michio; OHTAKA, Atsushi; SHIMOMURA, Osamu  
**3PA-057** Structures and Electrochemical Properties of Ni(II), Pd(II), Pt(II) Complexes with Hydrazine Ligands Containing Ferrocene Moiety (Aichi Univ. of Education; Hokkaido Univ.) TAGUCHI, Yukari; KOBAYASHI, Atsushi; KATO, Masako; NAKAJIMA, Kiyohiko  
**3PA-058** Structures and Electrochemical Properties of Pd(II) and Ru(II) Complexes with Hydrazine Ligands (Department of Chemistry, Aichi Univ. of Education) NAKAJIMA, Kiyohiko; MORI, Asami; TAGUCHI, Yukaru; FUJISAWA, Sachie  
**3PA-059** Synthesis and property of porphyrin pincer Pt complexes (Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) YOSHIDA, Keita; SHIGERU, Yamaguchi; SHINOKUBO, Hiroshi  
**3PA-060** Synthesis and properties of polynuclear platinum complexes of bipyrimidine containing pyridinethiolates as bridging ligands (Nagasaki Univ.) TSUKIMOTO, Yuya; KIMURA, Kazutoyo; UMAKOSHI, Keisuke; ARIKAWA, Yasuhiro; ONISHI, Masayoshi  
**3PA-061** Synthesis of platinum complex arrays on peptide templates (Nagoya Univ., Department of Chemistry; Nagoya Univ., Research Center for Materials Science; CREST, JST) YOSHINO, Fumihiko; YAMADA, Yasuyuki; TANAKA, Kentaro  
**3PA-062** Synthesis of New Hybrid Systems Constructed with Polyoxometalate and Ring-shaped Re(I) Multinuclear Complexes, and their Photophysical Properties (Tokyo Institute of Technology) ASATANI, Tsuyoshi; NAKAGAWA, Yuki; ISHITANI, Osamu  
**3PA-063** Development of ruthenium binuclear complex connected with ligands showing photochromic property. (Tokyo Metropolitan Univ., Faculty of Urban Environmental Sciences, Division of Applied Chemistry) TSUCHIYA, Hiromitsu; YAMAGUCHI, Motowo; SATO, Kiyoshi; OBARA, Makoto  
**3PA-064** Synthesis and Property of A Pyrophosphate Bridged Dinuclear Ruthenium Complex (Tokyo Univ. of Science) MIYAZATO, Yuji; TADOKORO, Makoto  
**3PA-065** Synthesis of Carbonyl- and Phosphine-coordinated Triruthenium Acetate Clusters and Reactions toward the Acetate Ligands (Sch. Sci., Kitasato Univ.) NOJIMA, Kiyotaka; NAKADAI, Hiroki; YUGE, Hidetaka  
**3PA-066** Synthesis and Chemical Properties of Ruthenium Complexes Bearing a Bridgable Ligand (Tokyo Institute of Technology) OOKUBO, Koutarou; KOIZUMI, Take-aki  
**3PA-067** Syntheses and properties of oxo-acetate triruthenium complexes with nitrite ion. (Adv. Sci. and Eng., Waseda Univ.) OHTSU, Hiroyoshi; OKA, Naoki; YAMAGUCHI, Tadashi  
**3PA-068** Synthesis, Photophysical Properties, and Photo-hydrogen-evolving Activity of a Molecular Device Tethered to an Amino Acid Residue with a Viologen Derivative (Kyushu Univ.) SHIBAHARA, Yu; OGAWA, Macoto; SAKAI, Ken  
**3PA-069** Synthesis, host-guest properties and photoreaction of novel trinuclear and tetranuclear ruthenium cyclic multinuclear complexes. (Tokyo Metropolitan Univ., Graduate School Urban Environmental Sciences, Department of Applied Chemistry) OBARA, Makoto; TSUCHIYA, Hiromitsu; SATO, Kiyoshi; YAMAGUCHI, Motowo  
**3PA-070** The redox potential control by substituent in the uranium(IV) complex having bis(Schiff base) ligands (Graduate School of Science, Osaka Univ.) MATSUDA, Kae; YOSHIMURA, Takasi; SHINOHARA, Atsushi



- 3PA-071** Structural and functional control of nucleic acid: Synthesis of multinuclear zinc complexes stabilized by macrocyclic ligands (Bioinorganic Chemistry and Chemical Biology, Doshisha Univ.) TANABE, Asako; MUTO, Takuya; HITOMI, Yutaka; KODERA, Masahito; HUNABIKI, Takuzo
- 3PA-072** Studies of Multidentate Nitrogen-donor Ligand, TPEN: Structure of Cadmium(II) and Zinc(II) Complexes, Properties of Metal Extraction Separation (Chemical Resources Laboratory, Tokyo Tech) HASU, Ryosuke; INABA, Yusuke; MORI, Atsunori; TAKESHITA, Kenji
- 3PA-073** Structures and properties of tri- and tetra-nuclear Co complexes with bis(catecholate) ligand (Kinki Univ.) NAKAGUCHI, Yuki; FUJISHIMA, Yasuhiro; SUENAGA, Yusaku; KONAKA, Hisashi; OKUDA, Koji
- 3PA-074** Structure and guest-adsorption/desorption property of a Co-bpb-SCN complex with 3D interpenetrated framework. (Faculty of Science and Technology, Kinki Univ., R.I. for Science and Technology, Kinki Univ.) MASUDA, Takayuki; OSHIMA, Yukiko; TOMINAGA, Toshi; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 3PA-075** Molecular packing and magnetic properties of planar CoII-Salphen-complexes (Kinki Univ.) KAWASAKI, Jun; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 3PA-076** Dinuclear Metal Complexes Having Multiple bonds (Kagawa Univ.) KATAOKA, Sou; ISHII, Tomohiko; WATANABE, Yuiji; YAMASAKI, Arisa; SAKANE, Genta
- 3PA-077** Influence of the substituents at the 4-position of the pyrazolyl rings in copper(II) complexes bearing N3 type ligands (Univ. of Tsukuba) JIANG, Hua; ISHIZUKA, Tomoya; FUJISAWA, Kiyoshi; KOJIMA, Takahiko
- 3PA-078** Synthesis and Electronic States of a new Mixed Valence Cu(I)/Cu(II)/Cu(III) Cluster (Kinki Univ.; PRESTO, JST) KUWAMOTO, Hiroyasu; KIM, Kyung Ho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 3PA-079** Switch of channel geometry in a single crystal host responding to structural stimuli of adsorbed guest (Yokohama City Univ.; PRESTO, JST) TAKAMIZAWA, Satoshi; MIYAKE, Ryosuke; AKATSUKA, Takamasa
- 3PA-080** Metal Ion Complexing Behavior of Long Alkane Derivatives Bearing Hydrazone Moieties at Both Ends (Wakayama Univ.) MOTOIKE, Hirotsugu; OSUGA, Hideji; KIMURA, Keiichi; SAKAMOTO, Hidefumi
- 3PA-081** Synthesis and Crystal Structure of Mixed-Valence Trinuclear Iron Complex with Honeycomb Sheet Structure (Univ. of Hyogo) AIGA, Yoko; MITSUMI, Minoru; TORIUMI, Koshiro
- 3PA-082** OEC function model: a new tetranucleating ligand specifically stabilizing a cubane-type tetranuclear complex and its manganese complexes (Bioinorganic and Chemical Biology Laboratory, Doshisha Univ.) TOKUDA, Kentaro; NAKAGAWA, Tomoyuki; KODERA, Masahito; FUNABIKI, Takuzou; HITOMI, Yutaka
- 3PA-083** Investigation of intermolecular interactions of nickel(II) dithiocarbamate complexes with 1,4-dioxane (Osaka Institute of Technology) NOMURA, Ryoki; OGURA, Ryou; KAWAHARA, Michio; SAITOU, Ryuiji; OHTAKA, Atsushi; SHIMOMURA, Osamu
- 3PA-084<sup>†</sup>** Design and synthesis of a new quadruply-stranded complex composed of Pd<sup>2+</sup> and a bidentate ligand that possesses an ester bond (Graduate School of Arts and Sciences, The Univ. of Tokyo; JST ERATO-SORST) FUKUDA, Morihiko; SEKIYA, Ryo; KURODA, Reiko
- 3PA-085** Synthesis of oligomeric Pd complex with thymine moiety (Univ. of Tsukuba TIMS) HOSHINO, Junichi; KUWABARA, Junpei; KANBARA, Takaki
- 3PA-086** Synthesis of an M<sub>12</sub>L<sub>25</sub>L' asymmetric spherical complex (School of Engineering, The Univ. of Tokyo; CREST, JST) ISHIDO, Yoshitaka; SATO, Sota; FUJITA, Makoto
- 3PA-087** Synthesis and Crystal Structure of New Multinuclear Platinum Complexes (Kyushu Univ.) KONNO, Yosuke; SAKAI, Ken
- 3PA-088** synthesis and Structure of Hydrogen Bonding Supramolecular Complexes (Tokyo Univ. of Science) MURAKAMI, Megumi; TADOKORO, Makoto; MIYAZATO, Yuji
- 3PA-089** Synthesis and Crystal Structure of Chiral One-dimensional Rhodium (I)-Semiquinonato Complex (Univ. of Hyogo) EZAKI, Kazunari; MITSUMI, Minoru; TORIUMI, Koshiro
- 3PA-090** Supramolecular Isomerization Controlled by Hydrogen Bonding Ru Complexes (Tokyo Univ. of Science) NISHI, Kazuko; MIYAZATO, Yuji; TADOKORO, Makoto
- 3PA-091** Crystal structural diversity through change in counter cations of sulfur-bridged cysteinato ditungsten complex (Fac. of Science, Okayama Univ. of Science; Res. Inst. of Nat. Sci. Okayama Univ. of Science) HONJO, Ayano; TAMEKIYO, Akio; AKASHI, Haruo; SHIBAHARA, Takashi.
- 3PA-092** Two dimensional layer structure of 4,4'-azobispyridine bridged Yb coordination polymer and its photoresponse (Department of Life and Material Chemistry, Faculty of Engineering, Kanagawa Univ.) KOIDE, Yoshihiro; ORISAKU, Keiko; YAMASHITA, Shinya
- 3PA-093** Synthesis and Structure of Zinc Complexes with Metal-Coordinated Ether Oxygen Atom (Nara Women's Univ.) FUJIWARA, Tomomi; MIKATA, Yuji
- 3PA-094** Preparation and characterization of novel copper(II) complexes and their reactivity to superoxide anion. (Ryukoku Univ.) IKEDA, Shogo; FUJIWARA, Manabu; MATSUSHITA, Takayuki
- 3PA-095** Synthesis and structures of mixed valence coordination polymers using a redox active metal-complex-ligand (Osaka City Univ.) NAKATO, Ayami; YOSHIDA, Yuki; HIROTSU, Masakazu; NISHIOKA, Takanori; HASHIMOTO, Hideki; KINOSHITA, Isamu
- 3PA-096** Phosphate-Phosphate Bond Formation Accelerated by Copper-Bipyridine Complex (Tokyo Univ. of Science) KAWAYAUCHI, Naoto; SAMATA, Tomomi; MIYAZATO, Yuji; TADOKORO, Makoto
- 3PA-097** Synthesis and Oxidation Reaction of Nitrido-Bridged Iron Porphyrins (Dep. of Chemistry, Fac. of Sciences, Kyushu Univ.; Inst. for Materials Chem. and Eng., Kyushu Univ.) WANG, Ang; OHTA, Takehiro; NARUTA, Yoshinori
- 3PA-098<sup>†</sup>** Supramolecular Iridium(III)-Cobalt(II) Polypyridine Complexes: A Visible-Light-Driven Photocatalyst for Hydrogen Generation (CST, Nihon Univ.) OTSUKI, Joe; SK, Jasimuddin
- 3PA-099** Synthesis, emission and CPL spectrum of palladium(0) complex, platinum(0) complex having phosphine ligand (Department of Materials and Life Science, Seikei Univ.) NUMAGUCHI, Satoko; MUKASA, Naoki; TSUKUDA, Toshiaki; TSUBOMURA, Tarou
- 3PA-100** Stepwise Metal-Bridging Reaction of Pd(II) Complexes with Multidentate Phosphine Ligands (Grad. Sch. Sci. Eng., Univ. of Toyama) AIZAWA, Sen-ichi; KAWAMOTO, Tatsuta; ISHIMURA, Chie
- 3PA-101** Synthesis of New Photo-Hydrogen-Evolving Molecular Devices Made up of the Ru and Pt Centers (Kyushu Univ.) FUKUDA, Takuya; MASAOKA, Shigeyuki; SAKAI, Ken
- 3PA-102** Investigation of Photo-Induced Ligand Substitution on the Octahedral Hexarhenium Complex Using 1H NMR Measurement (Osaka Univ.) SUO, Chiaki; YOSHIMURA, Takashi; SHINOHARA, Atsushi
- 3PA-103** Photocatalytic Reduction of CO<sub>2</sub> using Ring-shaped Rhenium(I) Multinuclear Complexes (Tokyo Tech) NAKAGAWA, Yuki; KOIKE, Kazuhide; MORIMOTO, Tatsuki; ISHITANI, Osamu
- 3PA-104** Reactions of Nitrile Compounds Coordinated to a Nitrosyl Ruthenium Complex with Alcohols (Fac. Sci. Technol., Sophia Univ.) ITOHIIYA, Toshiyuki; NAGAO, Hirotaka
- 3PA-105** Reactions of Oxo-Carboxylate Bridged Diruthenium Complexes as Lewis Base with Lewis Acids (Grad. Sch. Sci., Eng., Saitama Univ.; Molecular Analysis and Life Science Center, Saitama Univ) IDO, Yohei; NAGASAWA, Akira; FUJIHARA, Takashi
- 3PA-106** Stopped-flow studies on the oxygen evolution from water catalyzed by mononuclear ruthenium complexes (Kyushu Univ.; JST PRESTO) KIMOTO, Ayano; YAMAUCHI, Kosei; MASAOKA, Shigeyuki; SAKAI, Ken
- 3PA-107** Redox Behavior of Ruthenium Complexes in Ionic Liquids Containing Carbon Dioxide (Fac. Sci. Technol., Sophia Univ.) MORIYA, Shigeki; NAKAZAWA, Masanori; MURAKAMI, Hidefumi; FUJITA, Masahiro; RIKUKAWA, Masahiro; NAGAO, Hirotaka
- 3PA-108** Synthesis and Function of Ru-Co and Ir-Co Supramolecular Complexes (College of Science and Technology, Nihon Univ.) YAMADA, Tomoko; OTSUKI, Joe
- 3PA-109** Oxidation Reactions of Imine Compounds Coordinated to a Bis(2,2'-bipyridine)ruthenium(II) Complex (Fac. Sci. Technol., Sophia Univ.) UEHARA, Ryo; NAGAO, Hirotaka
- 3PA-110** Reactions of Ruthenium Complexes Bearing 2,2'-Bipyridine Derivatives with Hydrazine Derivatives (Sophia Univ.) KANESAKA, Nobuyuki; MORIYA, Shigeki; NAGAO, Hirotaka
- 3PA-111** Reduction Reactions of Mixed-valence Diruthenium Complexes, Triply Bridged by Chloro and Methoxo Moieties (Sophia Univ.; Nagasaki Univ.) MATSUYA, Kazuhiro; FUKUI, Sohei; HOSHINO, Yoshimasa; NAGAO, Hirotaka
- 3PA-112** A reaction of an Alkoxide Ion by the Ruthenium Complex having Nitrosyl and Nitrate as co-existing ligands (Fac. Sci. Technol., Sophia Univ.) NOMURA, Takahisa; NAGAO, Hirotaka
- 3PA-113** The switching of the photodissociation of a monodentate ligand in the new ruthenium complex containing the ferrocene moiety. (Tokyo Metropolitan Univ.) MIZUNO, Yoshitaka; MASANO, Taiga; SATO, Kiyoshi; YAMAGUCHI, Motowo
- 3PA-114** Synthesis and oxygen-evolving activity of multinuclear ruthenium complexes bridged by a biimidazolato ligand (Kyushu Univ.) KOZAKURA, Takashi; MASAOKA, Shigeyuki; SAKAI, Ken
- 3PA-115** Development of Catalysts for Electrochemical and Photochemical Reduction of CO<sub>2</sub> Using Group-VI Metal Complexes (Tokyo Tech) TAKUMA, Ryosuke; ISHITANI, Osamu
- 3PA-116** Study of catalytic sulfur transfer reaction from phosphine sulfide. (Department of Materials and Life Science, Seikei Univ.) YAMAGIWA, Akira; ESUMI, Akiko; TSUKUDA, Toshiaki; TSUBOMURA, Tarou
- 3PA-117** Measurement of Activation volume of solvolysis of closed-shell divalent metal complexes with pyridine-containing hexadentate ligand in aqueous solution (Graduate School of Science and Engineering, Saitama Univ.) KATO, Kenta; SAITO, Singo; SHIBUKAWA, Masami; NAGASAWA, Akira
- 3PA-118** Synthesis, Structure and Photoluminescence Properties of Hexanuclear Ag(I)-Cu(I) Mixed-metal Complexes (Univ. of Hyogo) IMAGAWA, Rie; OZAWA, Yoshiki; TORIUMI, Koshiro
- 3PA-119** Synthesis and Properties of Ionic Benzenedithiolato Au Complexes with alkyl chains (Hokkaido Univ., Faculty of Science) SAKAMOTO, Misaki; YANAGIDA, Mayu; KOMASAKA, Kazuki; MATSUMOTO, Takeshi; CHANG, Ho-chol; KOBAYASHI, Atsushi; KATO, Masako
- 3PA-120** Magnetic interaction of bis (nitronyl nitroxide) gold(I) complex

- (Ibaraki Univ.) YOSHIDA, Ayami; ITOI, Ayaka; OCHIAI, Jun; MORI, Seiji; IZUOKA, Akira
- 3PA-121** Preparation and Magnetic Behaviors of Cobalt Trimer Bridged by Tetraoxolane Ligands (Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) NOBUKUNI, Akihiko; YAMABE, Atsumi; KANEGAWA, Shinji; SATOU, Osamu
- 3PA-122** Synthesis and Structures of Novel Cyclometalated Chromium Complexes with Phenylpyridine Derivatives (Hokkaido Univ., Faculty of Science) TOMIDOKORO, Takaaki; CHANG, Ho-chol; KOBAYASHI, Atsushi; KATO, Masako
- 3PA-123** Neutron Scattering Study of Adsorbed H<sub>2</sub> in Coordination Polymers (Department of Chemistry, Graduate School of Science, Hokkaido Univ.; International Graduate School of Arts and Science, Yokohama City Univ.; Institute for Solid State Physics, The Univ. of Tokyo) KAKIZAKI, Yoshiaki; TAKEUCHI, Hiroto; MARUTA, Goro; TAKAMIZAWA, Satoshi; TAKEDA, Sadamu; YAMADA, Takeshi; YAMAMURO, Osamu
- 3PA-124** Structural Conversion and Emission Properties of An Cu(I) Complex Including Pyridylpyrimidine with Various Substituted Groups (The Univ. of Tokyo) NISHIKAWA, Michihiro; KUME, Shoko; NISHIHARA, Hiroshi
- 3PA-125** Enantiomer Separation by chiral HPLC column using homochiral porous metal-organic complex as solid-phase. (Kansai Univ.) HIRAYAMA, Daisuke; TANAKA, Koichi
- 3PA-126** Electronic Structure of oxidized Cu(II)-salen type complexes. (College of Science, Ibaraki Univ.) SHIMAZAKI, Yuichi
- 3PA-127** Double Ring Inversion Behavior Correlated with Electron Transfer in the Bipyridine Copper Complexes (The Univ. of Tokyo) TAKARA, Yusuke; KUME, Shoko; NISHIHARA, Hiroshi
- 3PA-128<sup>#</sup>** Application of copper metal assembled complexes in solar cells (Kinki Univ.; PRESTO, JST; RIKEN) KIM, Kyung Ho; MIMURA, Naoto; YOSITO, Yuma; TANAKA, Naoya; OKUBO, Takasi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 3PA-129** Luminescence change of the Eu-terpy complex by addition of cytosine/methyl-cytosine in solution (Graduate School of Science and Engineering, Aoyama Gakuin Univ.) SUZUI, Yuko; TAKAHASHI, Isao; HASEGAWA, Miki
- 3PA-130<sup>†</sup>** Circularly polarized luminescence of chiral Eu(III) complexes dependent on their distorted coordination structures (Nara Inst. Sci. Tech., Graduate School of Materials Science) HARADA, Takashi; KAWAI, Tsuyoshi; HASEGAWA, Yasuchika
- 3PA-131** Unusual Red Luminescent Properties of Novel Europium Complexes in Various Solvents (Graduate School of Engineering, Kyushu Institute of Technology) KOZAI, Yasuhiro; KAKANO, Hikaru; MORIGUCHI, Tetsuji; TSUGE, Akihiko
- 3PA-132** Effect of hydrogen bonds on the Fe(II)SCO complexes having carboxyl groups. (Faculty of Science and Technology, Kinki Univ., R.I. for Science and Technology, Kinki Univ.) KIMURA, Kana; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 3PA-133** Syntheses of Mixed Crystals of Assembled Iron Complexes Bridged by 1,3-Bis(4-pyridyl)propane and Their Spin States (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) DOTE, Haruka; INOUE, Katsuya; NAKASHIMA, Satoru
- 3PA-134** The effect on ligand field by crystal water of verdazyl radical-Fe(II) complex (Graduate School of Arts and Science, The Univ. of Tokyo) KAMEBUCHI, Hajime; OKAZAWA, Atsushi; ENOMOTO, Masaya; HARADA, Jun; OGAWA, Keiichiro; OKUBO, Masashi; TRAIN, Cyrille; VERDAGUER, Michel; TADOKORO, Makoto; KOJIMA, Norimichi
- 3PA-135** The syntheses and magnetic properties of grid type tetranuclear complexes (Kyushu Univ.; IMCE Sato Lab.) ZHANG, Kuirun; WU, Dayu; KANEKAWA, Shinji; SATO, Osamu
- 3PA-136** Synthesis and electrochemical properties of dinuclear complexes of a fused salphen type ligand (IIS, The Univ. of Tokyo) ITO, Muneyuki; HOUJOU, Hirohiko; ARAKI, Koji
- 3PA-137** Control of intramolecular electron transfer in tetra-nuclear molecular square by chemical stimuli (Univ. of Tsukuba) SEKINE, Yoshihiro; NIHEI, Masayuki; OSHIO, Hiroki
- 3PA-138** Development of novel spin crossover iron(II) complex film whose spin state is controlled by proton concentration (Graduate School of Arts and Science, The Univ. of Tokyo) JO, Taketomo; ENOMOTO, Masaya; OKAZAWA, Atsushi; KOJIMA, Norimichi
- 3PA-139** Effect of monodentate and bidentate ligands on zero-field splitting of highly phosphorescent iridium(III) complexes with a tridentate ligand (Univ. of Toyama; Chuo Univ.) KAWAKAMI, Hiroaki; HAGA, Masaki; NOZAKI, Koichi
- 3PA-140** Kinetic parameters of thermal deactivation process of phosphorescence state in *facial* and *meridional* phenylpyrazoleiridium(III) complexes (Univ. of Toyama; Chiba Univ.) SHIMOTORI, Kota; TSUCHIYA, Kazuyoshi; KARATSU, Takashi; NOZAKI, Koichi
- 3PA-141** Exploration of Mo-Cu complexes showing photo-magnetic and photo-dielectric properties (Interdisciplinary Graduate School of Engineering Science, Kyushu Univ.) YOSHIDA, Kazuta; KANEGAWA, Shinji; SATO, Osamu
- 3PA-142** Luminescence properties of dinuclear Ln(III)-Nd(III) complexes with a tripodal ligand (Aoyama Gakuin Univ.) OSHIKAWA, Koji; HOSHIBA, Tomoyuki; TAKAHASHI, Isao; HASEGAWA, Miki
- 3PA-143** Structure and optical property of hydrogen-bonded assembly composed of Schiff base complex as a module. (IIS, The Univ. of Tokyo) HARA, Satomi; HOUJOU, Hirohiko; ARAKI, Koji
- 3PA-144** Redox Behavior of Porous Crystal Consists of Hydrogen Bonding Metal Complex (Tokyo Univ. of Science) WATANABE, Kazuhiro; MURAYAMA, Akira; MIYAZATO, Yuji; TADOKORO, Makoto
- 3PA-145** Synthesis of supramolecular dendrimers by self-assembly of a quadruply-stranded metallohelicate and anionic dendrons (Graduate School of Arts and Sciences, The Univ. of Tokyo; JST ERATO-SORST) SEKIYA, Ryo; WANG, Sichun; KURODA, Reiko
- 3PA-146** Synthesis and Luminescence Properties in the solidstate of Pt(II) Complex with a Trifluoromethyl-Substituted Terdentate Ligand (Yokohama City Univ.) NISHIUCHI, Yuta; SHINOZAKI, Kazuteru
- 3PA-147** Synthesis, crystal structure and physical properties of a novel one-dimensional platinum complex with methyl viologen having photo-redox function (The Univ. of Tokyo) SEKI, Yasushi; OKAZAWA, Atsushi; ENOMOTO, Masaya; HARADA, Jun; OGAWA, Keiichiro; KOJIMA, Norimichi
- 3PA-148** The characteristics of SO<sub>2</sub> adsorption on the platinum(II) tertiary phosphine complex. (Fukuoka Univ. of Education; Kyushu Univ.) NAGASAWA, Isoroku; HIKITA, Seigou; DOIRA, Yukimi; KITAGAWA, Hiroshi
- 3PA-149** Synthesis and photofunctions of rhenium(I) complexes possessing an electron pool (Tokyo Tech) MORIMOTO, Tatsuki; ISHITANI, Osamu
- 3PA-150** Synthesis and Electrochemical Behavior of New Rhodium-thioamide Complexes (Tokyo Institute of Technology) KAWASE, Marina; TERATANI, Takuya; KOIZUMI, Take-aki
- 3PA-151** Redox potential tuning in Ru complexes having cyclometalated ligand (Chuo Univ.) YOSHIKAWA, Shinpei; KANAIZUKA, Katsuhiko; HAGA, Masa-aki
- 3PA-152** Syntheses of novel Ru/Os dinuclear complexes with strong metal-metal interaction and their layer-by-layer growth on surface. (Chuo Univ.) NAKABAYASHI, Takuya; KANAIZUKA, Katsuhiko; HAGA, Masa-aki
- 3PA-153<sup>#</sup>** Azacycloalkane ligands for use in multi-electron electrochemical reactions. (Tohoku Univ.) BURI-DORABU, buraian ki-su; YAMASHITA, Masahiro
- 3PA-154** Synthesis and properties of ruthenium complex with tethered photoactive sulfoxide moiety (The Univ. of Tokyo) SUZUKI, Shoko; KUME, Shoko; NISHIHARA, Hiroshi
- 3PA-155** A theoretical study on metal dependence of signal transmission through molecular QCA devices (Kyushu Univ., Research and Advancement in Higher Education) TOKUNAGA, Ken
- 3PA-156** Synthesis and Properties of Dihydroxo(phthalocyaninato)-antimony (V) Complex. (National Institute for Materials Science) KAGAYA, Yutaka; ISAGO, Hiroaki; FUJITA, Harumi
- 3PA-157** Effect of two-electron oxidation on crystal structure and single-molecule magnet behavior of Lanthanide-Phthalocyanine complexes (Osaka Univ.) TODA, Yuya; FUYUHIRO, Akira; ISHIKAWA, Naoto
- 3PA-158** Electrolytic preparation of uranium(III) chloride and its structure and magnetism (Institute for Materials Research, Tohoku Univ.) OHTA, Suguru; YAMAMURA, Tomoo; SHIRASAKI, Kenji; TOMIYASU, Hiroshi; SATOH, Isamu; SHIKAMA, Tatsuo
- 3PA-159** Synthesis and Properties of Molecule Based Magnets Based on W(V) ion (Hiroshima Univ.) HIGASHIKAWA, Hiroyuki; ISHIMOTO, Tetsuya; INOUE, Katsuya
- 3PA-160** Synthesis of a triphenylmethane-based hexanuclear complex and its spectroscopic property (IIS, The Univ. of Tokyo) TAKEZAWA, Syunpei; HOUJOU, Hirohiko; MATSUMURA, Kazunari; YOSHIKAWA, Isao; SEINO, Hidetake; MIZOBE, Yasushi; ARAKI, Koji
- 3PA-161** Photooxidation of Some Aromatic Alcohols Using Copper(I) Complex Coordinated by Bidentate Porphyrin (Osaka Municipal Tech. Res. Inst.; Graduate School of Science, Kobe Univ.) TAKAO, Yuko; OHNO, Toshinobu; MORIWAKI, Kazuyuki; MATSUMOTO, Fukashi; SU, Chuenlin; SETSUNE, Jun-ichiro
- 3PA-162** Synthesis of Mixed-Valence Coordination Polymers Bridged by Dithiocarbamate Derivatives and Application to Solar Cells (Kinki Univ.; PRESTO, JST) YAMADA, Takeshi; MIMURA, Naoto; KIM, Kyung Ho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA, Takayoshi
- 3PA-163** Complex formation of heavy metal ions and Hydroxamic acids derived from synthetic resin and its application to analysis of heavy metal (Kyushu Inst. of Technol Grad. Sch.; Kyushu Kyoritu Univ.; Kyushu Inst. of Technol) TAHARA, Chiaki; YOSHINAGA, Tetsutaro; MATSUO, Masatomo; YAMAYE, Makoto; OGAWA, Hiroaki
- 3PA-164** Theoretical study of the ligand field splitting of Octahedral metal complex (Kagawa Univ.) WATANABE, Ryosuke; ISHII, Tomokiko; SAKANE, Genta
- 3PA-165** Synthesis and properties of organic acceptor TANC(5,6,11,12-tetraazaphthalene) anion radical (Tokyo Univ. of Science) YAMADA, Masaki; MIYAZATO, Yuji; TADOKORO, Makoto
- 3PA-166** Crystal Structure and Properties of Water Nanotube Cluster in Molecule-Based Nanoporous Crystal (Tokyo Univ. of Science) HORII, Mayumi; TADOKORO, Makoto
- 3PA-167** Solvent Isotope Effect on the Photorelaxation Process of Ruthenium Complexes (Yokohama City Univ.) KURIMOTO, Haruhiko; SHINOZAKI, Kazuteru
- 3PA-168** Synthesis of ruthenium binuclear pyrene-bridged complex and

- examination of electrochromism. (Dept. Appl. Chem., Fac. Urban Environ. Sci., Tokyo Metropolitan Univ.) TSUYUKI, Sara; YAMAGUCHI, Motowo; SATO, Kiyoshi; TANABE, Ryouuta; OBARA, Makoto
- 3PA-169** Synthesis of vitamin B<sub>12</sub>-human serum albumin hybrid catalyst with photosensitizer (Kyushu Univ.) IKEDA, Kazutoshi; AOKI, Junichi; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio
- 3PA-170** Synthesis and Properties of a New Copper Model of Multi-Copper Oxidase and pMMO (Dept. of Chem., Kyushu Univ., and Inst. for Mater. Chem. and Eng., Kyushu Univ.) ABE, Yoshirou; OHTA, Takehiro; NARUTA, Yoshinori
- 3PA-171** DNA-Binding of Copper(II)-1,10-Phenanthroline Complexes Containing Various Amino Acids (Kansai Univ.) KIMURA, Yusuke; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 3PA-172** Dioxygen activation at the heme-copper binuclear site of CcO model bearing a N3 copper complex (Inst. for Mater. Chem. and Eng., Kyushu Univ.) OHTA, Takehiro; CHISHIRO, Takefumi; TANI, Fumito; NARUTA, Yoshinori
- 3PA-173** Oxidation Reaction Catalyzed by Mononuclear Iron-monoamidate Complex (Doshisha Univ.) HITOMI, Yutaka; TANIKAWA, Tomoe; ARAKAWA, Kengo; FUNABIKI, Takuzou; KODERA, Masahito
- 3PA-174<sup>#</sup>** Dithiolate-Bridged Iron-Nickel Complexes Modeling the Active Site of Reduced Form of [NiFe] Hydrogenase: [(CO)<sub>2</sub>(CN)Fe(μ-ndt)Ni(CO)<sub>2</sub>] and [(CO)<sub>2</sub>Fe(μ-CO)(μ-ndt)Ni(ndt)]<sup>2-</sup> (Department of Chemistry, Graduate School of Science, and Research Center for Materials Science, Nagoya Univ.) LI, Zilong; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 3PA-175** Synthesis and characterization of cytochrome c modified with a disulfide group at lysine residue (Faculty of Science, Nara Women's Univ.) HIRATA, Haruka; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 3PA-176** Synthesis of Structural Analogues of the [NiFe] Hydrogenase Active Site using Nickel Complexes Having a Multidentate N<sub>2</sub>S<sub>2</sub> Ligand or a TMEDA Ligand (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) OHNISHI, Koshi; TANINO, Soichiro; LI, Zilong; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 3PA-177<sup>#</sup>** Synthesis, Reaction and X-ray Structures of Site-Differentiated [4Fe-4S] Clusters (Graduate School of Science, Nagoya Univ.) LIU, Dong; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 3PA-178** Dinuclear nickel complexes carrying isocyanide and thiolate as a model of the active site of Acetyl CoA Synthase (Graduate School of Science and Research Center for Material Science, Nagoya Univ.) ARAE, Sachie; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 3PA-179** Photophysical and catalytic properties of carbonic anhydrase inhibitor containing tris(2,2'-bipyridine ruthenium(II) derivatives (Faculty of Science, Nara Women's Univ.) FUKUDA, Misa; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 3PA-180** Synthesis and characterization of the dendrimer-type of carbonic anhydrase inhibitor containing tris(2,2'-bipyridine) ruthenium(II) complex (Faculty of Science, Nara Women's Univ.) AWANO, Pirika; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 3PA-181** Synthesis, Characterization and Oxidative DNA Cleaving Activity of Cyclometallated Ruthenium(II) Complexes (Kansai Univ.) SUGIYAMA, Hiroshi; SHINPUKU, Yoshiki; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 3PA-182** Spectrochemical Behavior of Dinuclear Ruthenium(II) Complexes Containing Various Bridged-Ligands in H<sub>2</sub>O-DMSO (Kansai Univ.) YAMADA, Takeshi; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 3PA-183** Photochemical Reaction of Ruthenium(II) Complexes Containing Bipyridinium Cations as Prodrugs (Kansai Univ.) KUBOTA, Yuya; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 3PA-184** Synthesis and Properties of Reconstituted Myoglobin Modified with a Guanidinium Group at the Active Site (Faculty of Science, Nara Women's Univ.) SEGAWA, Chiho; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 3PA-185** Synthesis and properties of zinc porphyrins appending a carbonic anhydrase inhibitor (Faculty of Science, Nara Women's Univ.) NAKAGAWA, Asami; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 3PA-186** Polarized spectroscopy of photochromic compounds showing Weigert's Effect and Chiral Cu(II) and some Complexes (Tokyo Univ. of Science, Faculty of Science) AKITSU, Takashi; TANAKA, Rieko
- 3PB-005** Development of a teaching material for the unit "aliphatic hydrocarbons" in Chemistry I : Ideas from chemical education in the UK. (Graduate School of Education, Hiroshima Univ.) OKAMOTO, Ryuhei; ISOZAKI, Tetsuo
- 3PB-006** The convenient detection of esters by chemical color reaction-Induction from esters to hydroxamic acids accelerated with cationic surfactants - (Tokyo Univ. of Sci.) BANBA, Wataru; INOUE, Masayuki
- 3PB-007** Development of experimental materials using the gold (III) compound supported on chitin (Tokyo Univ. of Sci.) KITO, Mayumi; INOUE, Masayuki
- 3PB-008** Microscale Experimental Material of Cumene Process (II) (Tokyo Univ. of Sci.) HIROSE, Jun; INOUE, Masayuki
- 3PB-009** The flower pigments as the teaching material (Waseda Univ. Faculty of Science and Engineering) KANZAKI, Natsuko; TAKANO, Takeko; KITAGAWA, Masanobu
- 3PB-010** An environmental education from the viewpoint of high school-chemistry.-Through the research of seasonal changes in water quality of reservoir ponds.- (Akashi Shimizu Pref. High School; Univ. of Hyogo) EBISUI, Kazushi; IDA, Tomoya; KAWAI, Ryota; FCHITA, Sho; IFUKU, Akane; KITAHIRA, Moeha; AKAI, Mikayo; SUGAUCHI, Masamichi; NISHIOKA, Hiroshi
- 3PB-011** Development and Trial of Teaching Material on Entropy at Senior High-school (Taikyuu High-school in Wakayama Prefecture) NASU, Etsuyo
- 3PB-012** Introduction of Dye sensitized solar cells into Elementary Practice of Engineering IV (Osaka Pref. College of Tech.) HIGASHIDA, Suguru
- 3PB-013** A Simple Experimental Setup for Observations of Chemical Oscillations for Undergraduate Laboratory (Univ. of Toyama) KATAOKA, Hiroshi; MATSUI, Haruka; HARA, Minoru
- 3PB-014** Development of Teaching Material based on Calculation of "I + H<sub>2</sub> -> HI + H" and its Application (Graduate School of Tokyo Gakugei Univ.) NAGASHIMA, Hiroshi; IKUO, Akira; YOSHINAGA, Yusuke; OGAWA, Haruo
- 3PB-015** Construction of Inexpensive Photometer in Chemical Experiment for Undergraduate Students (Univ. of Toyama) HARA, Minoru; KATAOKA, Hiroshi
- 3PB-016** About Normality and equivalent on Acid-Base reaction(Neutralization reaction) (Kyoto College of Nutritional & Medical Sciences) KITAMURA, Shinzou
- 3PB-017** On the contents of the general chemistry for the students who dose not major in chemistry (12) - study of basic chemicals with a handmade molecular model- (Tomakomai National College of Technology) YAMAGUCHI, Kazumi; SASAMURA, Yasuaki
- 3PB-018** Electrochemical synthesis and characterization of conducting polymer in general chemistry laboratory (Kyushu Univ.) YAMADA, Shuto; TOKUNAGA, Ken; TAKEHARA, Ko; KOGA, Nobuyoshi
- 3PB-019** Approach to Environment Safety Education Targeting at Students outside the chemical field (Toyama National College of Technology) TOIDE, Hisae; THUMORI, Nobuko; ITO, Michiko; KAWAGOE, Miyuki
- 3PB-020** The application of the periscope-type DVD spectroscopy to the field study in environmental education. (Faculty of Engineering, Toin Univ. of Yokohama; Graduate School of Engineering, Toin Univ. of Yokohama) TOBARI, Shotaro; SAITO, Kiyoshi
- 3PB-021** Some Investigations of Nominal Compounds in Chemistry Papers written in English using the PERC Corpus (Sophia Univ.) HARADA, Munenori; INOMATA, Yoshie; HASHIMOTO, Takeshi; HOWELL, F.S.
- 3PB-022** Practice of openseminar linked chemistry with perfume (Ibaraki National College of Technology) TANIGUCHI, Shozo; SUDA, Takeshi

## Analytical Chemistry

### Analytical chemistry

- 3PB-025** X-ray analysis of calcium in iron and steel slag (Tokyo City Univ.) EBA, Hiromi; HIRAI, Shouji
- 3PB-026<sup>†</sup>** Evaluation of available iodine in povidone-iodine ointments using X-ray absorption spectroscopy (KEK-PF) KANEKO, Takuma; KUBO, Tadakazu; MIKI, Tatsuro; TAKAHASHI, Kei; KONISHI, Takehisa; FUJIKAWA, Takashi
- 3PB-027** A pH Optode Based on a Fluoroionophore Immobilized to a Mesoporous Silica Thin Film (Keio Univ.) HIRUTA, Yuki; CITTERIO, Daniel; SUZUKI, Koji
- 3PB-028** Electrochemical behavior of a water-soluble porphyrin on carbon nanotube modified electrodes (Tokyo National College of Technology) GOTO, Satoki; KUDO, Setsuko; SHINDO, Daisuke; AKASE, Zentaro; ISHII, Masao
- 3PB-029** Synthesis of surface-modified titania nanotube and application to SALDI-MS (Kansai Univ.) SUGANUMA, Takasi; OKUMURA, Kouji; KAWASAKI, Hideya; ARAKAWA, Ryuiti
- 3PB-030** Synthesis of Fe<sub>3</sub>O<sub>4</sub> nanoparticles for LDI-MS and their surface functionalization (Kansai Univ.) IWAKI, Yuichi; KAWASAKI, Hideya; ARAKAWA, Ryuichi
- 3PB-031** Instrumentation of a laser post ionization secondary neutral mass spectrometer (Research Institute of Instrumentation Frontier, AIST) NAGAI, Hidekazu; NAKANAGA, Taisuke
- 3PB-032** Study on Dissolution State of Lanthanide Using Lanthanide

Sunday, March 28, PM

(12 : 30~14 : 00)

## Education and History

- 3PB-001** Development of the novel chemical experiment using proverb as a familiar material (Ibaraki Univ.) MATSUKAWA, Satoru; UENO, Satoshi
- 3PB-002** Visualization of systematically-designed chemical demonstrations with sodium chloride and water for recognizing the presence of atoms and ions and for understanding of chemistry. (Hokkaido Univ. of Educ. Sapporo) TAGUCHI, Satoshi; YOSIKAWA, Satoshi; SATO, Hisanori
- 3PB-003** Laboratory activities using sodium salts of carbonate ion and bicarbonate ion (Hiroshima Univ.) KIMURA, Tomoyasu; SHIGEDOMI, Kana; KOGA, Nobuyoshi
- 3PB-004** Trial teaching for redox reaction using iodine and iodine compounds. - based on "context-based approach" - (Graduate School of Education, Hiroshima Univ.) KUTSUNUGI, Yuki; ISOZAKI, Tetsuo

- Contraction and Their Physical Character by ESI-MS (Tokyo Univ. of Marine Science and Technology) OIKAWA, Tomohiro; URABE, Tatsuya; TANAKA, Miho
- 3PB-033** nondestructive ionization technique with using nonpolar solvent (Tokyo Metropolitan Univ.) TAKAMIZAWA, Atsushi; NIIZUMA, Naoto; KORENAGA, Takashi
- 3PB-034** Establishment of FIA system for urea in serum using woody functional material immobilized enzyme. (Dept. Appl. Chem., Coll. Eng., Chubu Univ.) MIYACHI, Yasutaka; SUZUKI, Masashi; HAYASHI, Daiki; MIYAUCHI, Toshiyuki; MORI, Hidehiko
- 3PB-035** Determination of phytic acid in seeds of weed in the Tamariver basin. (Kogakuin Univ.) SATO, Ayumu; KAMAYA, Minoru; NAGASHIMA, Kunio
- 3PB-036** Investigation of Electrode Configuration and Plasma Gas Species in an Atmospheric Pressure Plasma Detector for Gas Chromatograph (GC) (Department of Energy Sciences, Tokyo Institute of Technology) TAKAHASHI, Yuichiro; NAGATA, Yoichi; FUJITA, Osamu; MIYAHARA, Hidekazu; TOYOURA, Yukio; OKINO, Akitoshi
- 3PB-037** Colorimetry of amine derivatives with nitrophenyl pyridinium reagent (Interdisciplinary Graduate School of Medicine and Engineering, Univ. of Yamanashi) TAO, Xuanyi; KUWABARA, Tetsuo
- 3PB-038** The development of the extraction photometric determination of trace metal ions by using easily-solidifying organic solvent (Kanazawa Institute of Technology Advanced Materials Science Research and Development Center) SUGIYAMA, Hiroko; WATANABE, Yuujirou; OSHIMA, Syunichi; KOMATSU, Yu; FUJINAGA, Kaoru
- 3PB-039** Syntheses and Evaluation as Radical Trapping Agent Having Adamantan unit in their structure 2-Evaluation as a Radical Trapping Agent- (Yamagata Univ. Graduate School of Science and Engineering) SATO, Rikiya; IWANO, Kousuke; MABUCHI, Masashi
- 3PB-040** Liquefied-Liquefied Extraction of Divalent Metal Ions Due to Bineuclear Complex Formation Using 4,5-Bis(diphenylphosphino)-1,2,3-triazole (Kyoto Univ. of Educ.) MUKAI, Hiroshi; ONO, Shota
- 3PB-041** Development of the Concentration method for valuable metal ions by using functional silica gel retaining ionic liquid and chelate extractant (Kanazawa Institute of Technology Advanced Materials Science Research and Development Center) TANIGUCHI, Hiroyuki; WATANABE, Yujiro; OSHIMA, Syunichi; KOMATSU, Yu; FUJINAGA, Kaoru
- 3PB-042** Design of Boronic acid Azoprobe Sensors Possessing with Sugar Recognition (Sophia Univ.) HASHIMOTO, Takeshi; MOTOI, Kanako; HATTORI, Yuka; ENDO, Akira; HAYASHITA, Takashi
- 3PB-043** Construction and Ion Selectivity of Pseudo-crown Coordination Site by Supramolecular Interactions (Osaka Kyoiku Univ.; Kanazawa Institute of Technology) TANIGUCHI, Tomohiro; KUBONO, Koji; OSHIMA, Syunichi; YOKOI, Kunihiro
- 3PB-044** Design and Emission Behavior of Fluorescent Receptors Containing Urea Derivatives toward Anions. (Osaka Kyoiku Univ.) INORI, Risa; KUBONO, Koji; TANI, Keita; YOKOI, Kunihiro
- 3PB-045** Fluorescence Properties of Metal Ion Sensors Based on Carbazole Chromophore (Osaka Kyoiku Univ.) KUSUMOTO, Nao; KUBONO, Koji; TANI, Keita; YOKOI, Kunihiro
- 3PB-046** Detection Membrane for Zinc Ion at PPB Level Loaded with Nanocomposite of Zinc and Trimethylamine-Modified Latex Nanoparticle (Nagaoka Univ. of Technology) YOSHIDA, Takuya; TAKAHASHI, Yukiko
- 3PB-047** VOC adsorption properties of woodceramics prepared from wastes (Kanagawa Univ.) ONUKI, Satomi; TAKAYAMA, Yoshiki; OKABE, Toshihiro; NISHIMOTO, Yuko
- 3PB-048** Basic study of Boron separation in environmental water 2 (Kanagawa Univ.) SHIMOZU, Hideyo; TSURUTA, Yusuke; NISHIMOTO, Yuko
- 3PB-049** Basic study on the bactericidal effects of electrolyzed water containing hypochlorous acid - Influence of magnetic treatment - (Kanagawa Univ.) YASUTOMI, Mao; IWASAWA, Atsuo; UTSUMI, Kyuhei; KUBOTERA, Hayato; NISHIMOTO, Yuko
- 3PB-050** Novel multi-target SNP detection method based on capillary electrophoresis (Graduate School of Environmental Studies, Tohoku Univ.) TAKAHASHI, Toru; SAKURAI, Takao; HOSHINO, Hitoshi
- 3PB-051** Detection of DNA point mutations by oligonucleotide ligation (Faculty of Science and Engineering, Doshisha Univ.) FUJITA, Taku; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 3PB-052** Study of nucleic acid binding affinity of hairpin-type peptide nucleic acid (ISIR, Osaka Univ.) OHZAWA, Takuya; KATO, Nobuo; KAIHATSU, Kunihiro
- 3PB-053** Synthesis of radiolabeled oxoimidazolidynylmethyluracil utilizing [<sup>14</sup>C]phosgene and its preliminary evaluation as a potential tumor imaging probe (Hokkaido Univ.; Health Sciences Univ. of Hokkaido) SEKI, Koh-ichi; NISHIJIMA, Ken-ichi; TAKAHASHI, Masayuki; ZHAO, Songji; MUKAIDA, Rie; AKIZAWA, Hiromichi; KUGE, Yuji; TAMAKI, Nagara; OHKURA, Kazue
- 3PB-054** Development of a radiolabeled thymidine phosphorylase inhibitor as a potential tracer for angiogenic enzyme expression in tumors (Health Sciences Univ. of Hokkaido; Hokkaido Univ.) OHKURA, Kazue; AKIZAWA, Hiromichi; TAKAHASHI, Masayuki; ZHAO, Songji; OSHIMA, Nobuhiro; FUJIOKA, Yuka; NISHIJIMA, Ken-ichi; KUGE,

Yuji; SEKI, Koh-ichi; TAMAKI, Nagara

- 3PB-055** Discrimination between kaempferol-3-Glc and -7-Glc with MS/MS in MALDI-TOF MS. (SUNBOR) TANAKA, Masaki; YAMAGAKI, Tohru
- 3PB-056** Elemental analysis of ancient coins (Kanagawa Univ.) NISHIMOTO, Yuko; ISHIZUKA, Kaori
- 3PB-057** Generation of singlet oxygen with heat-treated fullerene in gas phase (Kogakuin Univ.) NAKANISHI, Azusa; KAMAYA, Minoru; NAGASHIMA, Kunio
- 3PB-058** Development of Atmospheric Plasma Soft Ablation method (Tokyo Institute of Technology) IWAI, Takahiro; TAKAHASHI, Yuichiro; SHIGETA, Kaori; MIYAHARA, Hidekazu; OKINO, Akitoshi

## Polymer

### Polymer Synthesis (Radical Polymerization)

- 3PB-061** Polymerization of Methyl Methacrylate Initiated with Pyrrolidinium Based Ionic Liquids (Tohoku Seikatsu Bunka Junior College) KANNO, Shuichi
- 3PB-062** Polymerization of Styrene Initiated with Imidazolium Ionic Liquids Having Bis(trifluoromethylsulfonyl)imide Anion (Tohoku Seikatsu Bunka Junior College) KANNO, Shuichi; SUDA, Atsushi
- 3PB-063** Polymerization of mono-dispersed polymer particles with pigments using RAFT agents (Kinki Univ.) ARITA, Naofumi; KOBAYASHI, Natsuko; SUENAGA, Yusaku
- 3PB-064** Radical Copolymerization of Mannopyranosyloxyethyl Methacrylate with Dimethylaminoethyl Methacrylate (Univ. of Yamanashi) OBATA, Makoto

### Polymer Synthesis (Polymerization Catalyst)

- 3PB-065** Synthesis of Poly(phenyleneethynylene) Derivatives with Axial Chirality in the Side Chains and Their Application (Kanazawa Univ.) FUJIWARA, Daiki; MAEDA, Katsuhiko; IKAI, Tomoyuki; KANOH, Shigeyoshi

### Polymer Synthesis (Polycondensation, Polyaddition)

- 3PB-066** Investigation for controlled condensation polymerization based on continuous addition of amino acid monomers (Nara Institute of Science and Technology) IKOMA, Kazuaki; ANDO, Tsuyoshi; TERADA, Kayo; HIROHARA, Shihou; TANIHARA, Masao
- 3PB-067** Study on polymer synthetic new method using azines (Yamagata Univ. Graduate School of Science and Engineering) SATO, Rikiya; ABE, Takuya

### Polymer Synthesis (Copolymer)

- 3PB-068** Synthesis of poly[2]catenane using alpha,omega-Diyne by 1,3-Dipolar Cycloaddition (Nihon Univ.) TOMITA, Masatoshi; HAGIWARA, Toshiki; HOSHI, Toru; SAWAGUCHI, Takashi
- 3PB-069** Synthesis and characterization of commodity polymercrosslinked by catenanes (Nihon Univ.) HIRANO, Mao; HAGIWARA, Toshiki; HOSHI, Toru; SAWAGUCHI, Takashi
- 3PB-070** Development of Novel Template Polymerization by using Cyclohexanediones (Nihon Univ.) ARAI, Toshiya; HAGIWARA, Toshiki; HOSHI, Toru; SAWAGUCHI, Takashi
- 3PB-071** Graft Polyrotaxane: Synthesis and Characterization of Polymers with Movable Graft Chains. (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) KOHSAKA, Yasuhiro; KOYAMA, Yasuhiro; KONISHI, Gen-ichi; TAKATA, Toshikazu
- 3PB-072** Synthesis of Amphiphilic Block Copolymers Bearing Optically Active *pai*-Conjugated Polymer Chains and Their Chiroptical Properties (Kanazawa Univ.) NOZAKI, Satoru; MAEDA, Katsuhiko; IKAI, Tomoyuki; KANOH, Shigeyoshi
- 3PB-073** Synthesis of Functionalized Polysilsesquioxane by Use of Diels-Alder Reaction (National Defense Academy) YAMAMOTO, Shin-ichi; YAMAMOTO, Youhei; MINAMI, Fukutarou; MORIYA, Osamu
- 3PB-074** Estimation of temperature sensitivity of PTFE-g-P(NIPAAm-co-HPAAm) plate surfaces by photografting polymerization (College of Industrial Technology, Nihon Univ.) ITOU, Yuuki; KASHIWADA, Ayumi; MATSUDA, Kiyomi; YAMADA, Kazunori; HIRATA, Mitsuo
- 3PB-075** Oxidative polymerization behavior of diphenylamine with bridged structure (Nagoya Municipal Industrial Research Institute; Aichi Institute of Technology; National Institute for Materials Science; Aichi Medical Univ.) HAYASHI, Hideki; INOUE, Hiroyoshi; NAKAO, Hidenobu; HATTORI, Hideki; ONOUCHI, Yukio
- 3PB-076** Biocompatible Polymer Micelle Cross-Linked by Gold Nano Particles (Univ. of Hyogo Graduate School of Engineering) GOTO, Fumi; YUSA, Shin-ichi; MORISHIMA, Yotaro; ISHIHARA, Kazuhiko

### Polymer Synthesis (Others)

- 3PB-077** Utilization of Alkyne [2+2+2] Cycloaddition Reactions to Macro-

molecule Synthesis (Kanagawa Univ.) TAKEGOSHI, Chie; SUGIYAMA, Yuuki; MATSUNO, Chikasi; OKAMOTO, Sentaro

**3PB-078** Withdrawn

**3PB-079** synthesis of oxidatively degradable polymers by oxidative coupling polymerization (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) NAGASHIMA, Kentaro; KIHARA, Nobuhiro

**3PB-080** Synthesis and Properties of Cross-linked Polymer by Diels-Alder Reaction of Saturated Castor Oil Bearing Furan Rings and Maleimide Derivatives (TRI-Osaka) INOUE, Yohtarou; SAKURAI, Yoshiaki

### Polymer Reaction

**3PB-081** Synthesis of polymers having catechol ring and their application as polymer supports for solid phase synthesis (Osaka Institute of Technology) SHIMOMURA, Osamu; SUDA, Masanori; SEKIYA, Kenta; OHTAKA, Atsushi; NOMURA, Ryoki

**3PB-082** Reaction of Nylon Fibers with Reducing Sugar in Aqueous Solution and their Anti-yellowing Effects (Osaka Municipal Technical Research Institute) OHE, Takeru; YOSHIMURA, Yurika

**3PB-083** Spin-trapping Analysis for Thermal Degradation of Polymer Solid (Kyoto Institute of Technology) SONO, Masayo; SAKAI, Wataru; TSUTSUMI, Naoto; MANABE, Norio

### Polymer Structure and Physical Property

**3PB-084** Folded Polymers with H-Like Stacking of Conjugate Units (Kanagawa Univ.) HOSHINO, Tohru; KUDOH, Masaru; WATANABE, Jun-ichi; OKAMOTO, Sentaro

**3PB-085** Folded Polymers with J-Like Stacking of Conjugate Units (Kanagawa Univ.) KUDOH, Masaru; HOSHINO, Tohru; WATANABE, Jun-ichi; OKAMOTO, Sentaro

**3PB-086** AFM Observation of Oligoleucine Derivatives Adsorbed onto HOPG Membrane (Faculty of Education, Chiba Univ.; National Institute of Advanced Industrial Science and Technology) HAMAJIMA, Atsumasa; KOYAMA, Emiko; KIKKAWA, Yoshihiro; KANESATO, Masatoshi; YAMADA, Norihiro

**3PB-087<sup>#</sup>** Metal-ion induced chirality induction in chiral polyfluorene conatin-ing open chiral crown types substituents (NIMS) PAL, Ravindra; HIGUCHI, Masayoshi

### Functional Polymer (Polymer Catalyst)

**3PB-088** Synthesis and Evaluation of Sulfonated Polyanthracene (The Nippon Dental Univ.; Niigata Univ.) TANEMURA, Kiyoshi; NISHIDA, Yoko; SUZUKI, Tsuneo; HORAGUCHI, Takaaki

**3PB-089** Preparation and Catalytic Activities of Pd Nanoparticles on Porous Ultra-High-Molecular-Weight Polyethylene Film for Carbon-Carbon Reactions (Coll. Ind. Tech., Nihon Univ.) OMORI, Hiroaki; FUJII, Takayoshi; HIRATA, Mitsuo

### Photo Functional Polymer

**3PB-090** Synthesis of photoresponsive polymer containing leuco dye (Univ. of Hyogo Graduate School of Engineering) KOUZAKA, Shouta; YUSA, Shin-ichi; MORISHIMA, Yotaro

**3PB-091** Fabrication of Photomobile Polymer Materials Crosslinked by Photochemical Reactions (Chemical Resources Laboratory, Tokyo Institute of Technology) WATANABE, Yukari; NAKA, Yumiko; MAMIYA, Jun-ichi; SHISHIDO, Atsushi; IKEDA, Tomiki

**3PB-092** Creation of Photomobile Composite Polymer Materials Crosslinked by Chemical Bonding (Chemical Resources Laboratory, Tokyo Institute of Technology) MIYASATO, Ryo; YAMADA, Munenori; KONDO, Mizuho; MAMIYA, Jun-ichi; IKEDA, Tomiki

**3PB-093** Formation of Bragg Hologram in Azotolane Copolymer Films (Chemical Resources Laboratory, Tokyo Institute of Technology) SAKAI, Yosuke; SHISHIDO, Atsushi; IKEDA, Tomiki

**3PB-094** Development of Nano Photomobile Polymer Materials using Photoresponsive Polymer Particles (Chemical Resources Laboratory, Tokyo Institute of Technology) TAKAMIYA, Yuki; SHISHIDO, Atsushi; IKEDA, Tomiki

### Functional Polymer (Biomedical)

**3PB-095** Preparation of biocompatible hydrogel polymers with UV absorber group and their characterization (Department of Biotechnology and Chemistry, Faculty of Engineering, Kinki Univ.) TOMINAGA, Akihiro; YAMASAKI, Kouta; SHIRAIISHI, Kohei; SUGIYAMA, Kazuo

**3PB-096** Preparation of hydrogel polyurethane films based on hyper-branched polymer and surface characterization of the films (Department of Biotechnology and Chemistry, Faculty of Engineering, Kinki Univ.) SUGIYAMA, Kazuo; YOKOYAMA, Akihito; SHIRAIISHI, Kohei; SIMOJI, Ryohei; OHGA, Koji

**3PB-097** Preparation of cell microarray modified with thermoresponsive polymer and cell non-attached polymer surface (Department of Biotechnology and Chemistry, Faculty of Engineering, Kinki Univ.) SHIRAIISHI, Kohei;

YONE, Yashunori; KOBAYASHI, Ryota; YAMADA, Yasue; SUGIYAMA, Kazuo; OKAMOTO, Keishi; NAKATANI, Tatsuyuki

**3PB-098** Shell Cross-linked Nanoparticles Fabricated from ROMP-based Copolymers and Their Application to Tumor Imaging (Grad. Sch. Eng., Kyoto Univ.) KIMURA, Akinori; MIKI, Koji; ORIDE, Kazuaki; MATSUOKA, Hideki; HARADA, Hiroshi; HIRAOKA, Masahiro; OHE, Kouichi

**3PB-099** Antimicrobial Films Based on ROMP Polymers Functionalized with Covalently Linked Pyridine-Silver Complexes (Nihon Univ.) OGATA, Seitaro; ITO, Toshihiro; TAMEGAI, Hideyuki; OGAWA, Shoujiro; IIDA, Takashi; WAKATSUKI, Yasuo

**3PB-100** Thermoresponsive imprinted polymer prepared by copolymerization of N-isopropylacrylamide and cyclodextrin (RCAST, The Univ. of Tokyo) WANG, Yanyan; SUMAOKA, Jun; KOMIYAMA, Makoto

**3PB-101** Permeation Control of Insulin and evaluation of Double Grafted ePTFE film with PAAc and immobilized GOD & Catalase (Graduate School of Industrial Technology, Nihon Univ.) YARIMIZU, Aki; MATSUDA, Kiyomi; KASHIWADA, Ayumi; YAMADA, Kazunori; HIRATA, Mitsuo

### Functional Polymer (Gel)

**3PB-102** Evaluation of Drug Release Carrier Using pH Responsibility of Chitosan / Polyethyleneglycol semi-Interpenetrating Polymer Network Gel (Graduate School of Industrial Technology, Nihon Univ.) HARAMOTO, Ayaka; KASHIWADA, Ayumi; MATSUDA, Kiyomi

**3PB-103** Preparation of Lipopolysaccharide (LPS) Imprinted Gel (Tokyo Univ. of Technol. Bionics) OGAWA, Keiichi; HYUGA, Masumi; OKADA, Tomoko; MINOURA, Norihiko

**3PB-104** Sorption property of metal ion using gel prepared from supergiant polysaccharide "Sacran" (JAIST) OKAJIMA, Maiko; NAKMURA, Masatoshi; MITSUMATA, Tetsu; KANEKO, Tatsuo

### Other Functional Polymers

**3PB-105** Synthesis of Thermoresponsive Polymers Having Imidazolyl Groups as a Side Chain and Their Utilization as Polymer Catalysts. (Kinki Univ.) TSUJI, Junya; ISHIFUNE, Manabu

**3PB-106** Synthesis of a Nonionic Surfactant Having Photocleavable Moiety and the Photocleavage Reaction in Water (Faculty of Engineering, Kanagawa Institute of Technology) MORIKAWA, Hiroshi; KOIKE, Shintaro; TESHIMA, Youeuke

**3PB-107** Synthesis of Stereo Block Poly Lactic Acid from Racemic-Lactide by Stereoselective Polymerization (Graduate School of Industrial Technology, Nihon Univ.) TADOKORO, Takao; KASHIWADA, Ayumi; MATSUDA, Kiyomi

**3PB-108** Development to molecularly imprinted polymers crosslinked by noncovalent bonding between functional groups (Kanagawa Univ.) KATOH, Masaki; KIHARA, Nobuhiro

**3PB-109** Studies on Amidinoure Resins with Poly(methyl methacrylate) Chain (Tokyo Denki Univ.) NAGAI, Junya; SHIMIZU, Takeshi; TANAKA, Satomi; SHIBA, Ryuichi

### High Performance Polymer

**3PB-110** Effect by zinc nanoparticles for the adhesion of human cuticle cells (Panasonic Electric Works Co., Ltd.; Research & Development Center; Home Appliances Manufacturing Business Unit) HANATO, Yumi; NODA, Misa; IDA, Kyoko; HAMADA, Tadashi; JOKO, Kyohai

**3PB-111** Preparation of Poly(chitosan-alt-terephthalic acid) Microcapsule and Its pH-responsibility (Saga Univ.) OGATA, Etsuko; NARITA, Takayuki; OISHI, Yushi

**3PB-112** Relationship between the spatial patterns of induced by galation of alginate-Ca and the structure of its particle composition (Saga Univ.) MATSUMAE, Haruki; NARITA, Takayuki; TOKITA, Masayuki; OISHI, Yushi

**3PB-113** Preparation of nanoparticle of elastin by gamma-irradiation and its application for drug release device in response to pH (Kyushu Institute of Technology) MIYAKE, Masato; FURUTA, Masakazu; MAEDA, Iori; OKAMOTO, Kouji

**3PB-114** Development of novel biomaterial based on coexistence of elastin and collagen (Kyushu Institute of Technology) MAEGAWA, Yosuke; WATANABE, Ryota; YAMADA, Hiroshi; OKAMOTO, Koji

### Catalysts and Catalysis

**3PB-117<sup>†</sup>** The selective methane oxidation by the layered Li-Ni compound oxide (KEK-PF) SUMII, Ryohei; AMEMIYA, Kenta; MKIYAZAKI, Takahumi

**3PB-118** Adsorption and reactivity of CO over highly dispersed Rh over CaSiO<sub>3</sub> observed by infrared spectroscopy (Graduate School of Science and Engineering, Yamaguchi Univ.) SAKURA, Teruki; YAMASHITA, Tatsuyoshi; TANABE, Etsuko; SAKATA, Yoshihisa; IMAMURA, Hayao

**3PB-119** Preparation of fibrous titanium oxide photocatalyst by self-organization (Kinki Univ.) KIMATA, Erica; IHARA, Tatsuhiko

**3PB-120** Preparation of acid-tolerant of cobalt-encapsulated hollow silica microspheres and particle size control (Shinshu Univ.) WATANABE,

- Nodoka; OKADA, Tomohiko; HAEIWA, Tetsuji; SAKAI, Toshio; MISHIMA, Shoji
- 3PB-121** Influences of support on the selective hydrogenation of an acetate over supported Ag catalysts (Graduate School of Science and Engineering, Yamaguchi Univ.) SAKATA, Yoshihisa; SADAKUNI, Atsuko; MAEDA, Yuuki; ITOU, Takuma; IMAMURA, Hayao
- 3PB-122** Preparation of fluorine modified mesoporous silica containing sulfonic acid groups and their catalytic properties (Osaka Univ.) MIZUNO, Atsushi; KAMEGAWA, Takashi; YAMASHITA, Hiromi
- 3PB-123** Evaluation of strong acid sites formed on  $\text{WO}_3/\text{Al}_2\text{O}_3$  with low calcination temperature (Tokyo Gakuji Univ.) INOISHI, Atsushi; OGAWA, Haruo; YOSHINAGA, Yusuke
- 3PB-124** Transformation from Glucose to Furan Derivatives using  $\text{MgCl}_2$  supported by Silica gel (Univ. of Miyazaki) NAKAMURA, Yasuhisa; MATSUMOTO, Jin; SHIRAGAMI, Tsutomu; YASUDA, Masahide
- 3PB-125** FAU- $\beta$ BEA conversion in the absence of organic structure-directing agent (Hiroshima Univ.) YASHIKI, Ayako; HONDA, Koutarou; ITAKURA, Masaya; OUMI, Yasunori; SADAKANE, Masahiro; SANO, Tsuneji
- 3PB-126** Dissociative alcohol adsorption on 1-butyl-3-methylimidazolium exchanged mordenite (Univ. of Yamanashi) YODA, Eisuke
- 3PB-127** Selective synthesis of terpene from limonene with zeolite (Yamagata Univ.) KUMAGAI, Takunori; KURIYAMA, Yasunao; ITOH, Hiroki
- 3PB-128** Properties of Porous Alumina Prepared by the Sol-Gel Process in the Presence of Sugars (Osaka Univ.) HASHIDZUME, Akihito; FUJIMOTO, Taku; MASAOKA, Makoto; SANADA, Yusuke; SATO, Takahiro
- 3PB-129** Synthesis of aluminophosphate incorporated mesoporous silica by using dodecyl phosphate (Hiroshima Univ.) GOTOU, Ikuhiro; SUMIYA, Sadanobu; FUJIWARA, Jun; OUMI, Yasunori; SADAKANE, Masahiro; SANO, Tsuneji
- 3PB-130** Preparation of axially chiral ligand supported PMOs toward heterogeneous catalysts (Queen's Univ. Dept. of Chem.) SEKI, Tomohiro; MCELENEY, Kevin; MACQUARRIE, Stephanie; CRUDDEN, Cathleen
- 3PB-131** Modification of potassium-doped  $\text{Co}_3\text{O}_4$  catalysts for direct decomposition of  $\text{N}_2\text{O}$  (Kyoto Univ.) NISHIYAMA, Tomoki; YOSHINO, Hiroaki; HOSOKAWA, Saburo; WADA, Kenji; INOUE, Masashi
- 3PB-132**  $\text{DeNO}_x$  activity of  $\text{NH}_3$ -treated  $\gamma\text{-Ga}_2\text{O}_3\text{-Al}_2\text{O}_3$  with methane as a reducing agent (Kyoto Univ.; The Kansai Electric Power Company) MIKI, Yoshihisa; WATANABE, Tsunenori; HOSOKAWA, Saburo; KANAI, Hiroyoshi; INOUE, Masashi
- 3PB-133** Effect of Pd loading amount and pretreatment conditions on catalytic activity of Pd/Cab-O-Sil for  $\text{N}_2\text{O}$  reduction (Tokyo Gakuji Univ.) MORISHIMA, Yuriko; UESUGI, Yasutaka; OGAWA, Haruo; YOSHINAGA, Yusuke
- 3PB-134** Synthesis and Characterization of Water Soluble Catalysts for Generating Hydroxyl radical (TRI-Osaka) HAYASHI, Hirokazu; NAKASHIMA, Yoichi
- 3PB-135** Highly enhanced hydrodechlorination and hydrogenation reactions over supported palladium catalyst (Nat'l Inst Adv Ind Sci & Technol (AIST)) UKISU, Yuji
- 3PB-136** Effect of a water-repellent treatment of silica-supported platinum catalyst on the catalytic hydrogenation of chloroacetophenone in an aqueous solvent (Nihon Univ.) YONEDA, Tetsuya; SHINODA, Miki; KOIZUMI, Koshiro; TAKIDO, Toshio; KONUMA, Kenji
- 3PB-137** Hydrogen generation from water over cadmium sulfide supported on nitrogen doped titanium dioxide photocatalyst (Osaka Inst. Technol.) NAKAMURA, Kouta; HIGASHIMOTO, Shinya; AZUMA, Masashi
- 3PB-138** Study on Stability of  $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$  Loaded with  $\text{Rh}_2\text{-Cr}_2\text{O}_3$  in Overall Water Splitting Reaction (Sch. Eng., The Univ. of Tokyo) BAI, Lu; HISATOMI, Takashi; MAEDA, Kazuhiko; KUBOTA, Jun; DOMEN, Kazunari
- 3PB-139** Correlation between physical properties and activity of photocatalysts in hydrogen formation from biomass (Kinki Univ.) MAKINO, Yui; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3PB-140**  $\text{Fe}/\text{SiO}_2$  as a Catalyst for Photo-Induced Reduction of Nitrobenzenes with Hydrazine (Osaka Univ.) OHARA, Hiroshi; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 3PB-141** Photocatalytic reduction of nitrate over various metal doped  $\text{TiO}_2$  (Tokyo Gakuji Univ.) HOSAKA, Satoki; IKUO, Akira; OGAWA, Haruo; YOSHINAGA, Yusuke
- 3PB-142** Effects of hole scavenger and metal cocatalyst on reduction of nitro aromatics with titanium(IV) oxide photocatalyst (Kinki Univ.) IMAMURA, Kazuya; IWASAKI, Shin-ich; MAEDA, Tsuyoshi; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3PB-143** Photocatalytic hydrogenation of benzoyl or naphthoyl substituted carbonyl compounds on polycrystalline titanium dioxide (Hyogo Univ. of Health Sciences; Tokyo Univ. of Sciences) KOHTANI, Shigeru; YOSHIOKA, Eito; SAITOH, Kenji; KUDO, Akihiko; MIYABE, Hideto
- 3PB-144** Oxidation reactions of phenanthrene derivatives using  $\text{TiO}_2$  photocatalyst (Osaka Pref. College of Tech; Research Center for Solar Energy Chemistry, Osaka Univ.) JINNAI, Seiho; HIGASHIDA, Suguru; MATSUMURA, Michio
- 3PB-145** Synthesis of tungsten(VI) oxide-silica composites and their photocatalytic activities. (Kinki Univ.) NAKAMURA, Yoshitaka; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3PB-146** Establishment of evaluation technique for crystallization phase of titania (Nagoya Municipal Ind. Res. Inst.) KAWASE, Satoru; SUGIMOTO, Kenichi; FUJIWARA, Rise; ONO, Satomi
- 3PB-147** Shape Effect of Ni Loaded  $\text{TiO}_2$  Nanoparticles on Photocatalytic Activity (IMRAM, Tohoku Univ.) KIMIJIMA, Takeshi; NAKAYA, Masafumi; KANIE, Kiyoshi; MURAMATSU, Atsushi
- 3PB-148** Photocatalyst activity of metal ion loaded brookite type  $\text{TiO}_2$  (-KIT) SAITO, Hirofumi
- 3PB-149** Anatase  $\text{TiO}_2$  nanoparticles loaded with Fe ions and its photocatalytic activity under visible light (KIT) ICHIKAWA, Akiko
- 3PB-150** Effect of codopant on photocatalytic property of Ni-doped  $\text{SrTiO}_3$  (Faculty of Science, Tokyo Univ. of Science) SASAKI, Mai; NAKAZAWA, Ryoma; SAITO, Kenji; KUDO, Akihiko
- 3PB-151** Behavior of N and S ions in the preparation of N-doped  $\text{TiO}_2$  with visible-light activity (National Institute of Advanced Industrial Science and Technology (AIST)) SANO, Taizo; NEGISHI, Nobuaki; TAKEUCHI, Koji
- 3PB-152** Visible-light induced photocatalytic activity of  $\text{TiO}_2$  modified by organic compounds involving carbon and nitrogen source (Osaka Inst. Technol.) NAKAGAWA, Asuka; HIGASHIMOTO, Shinya
- 3PB-153** Preparation of mesoporous silica supported  $\text{TiO}_2$  photocatalysts with thin layer carbon coating and their applications for the decomposition of organic compounds (Osaka Univ.) YAMAHANA, Daiki; KAMEGAWA, Takashi; YAMASHITA, Hiromi
- 3PB-154** Homogeneous photocatalytic mineralization of water-soluble organic compounds in aqueous solutions of iron ions. (Kinki Univ.) IMANISHI, Masachio; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3PB-155** Intramolecular Cyclization of *ortho*-Disubstituted Benzenes over Halide Cluster Catalysts (Saitama Univ.; RIKEN) NAGASHIMA, Sayoko; SASAKI, Tomoaki; KUDO, Kentaro; KAMIGUCHI, Satoshi; CHIHARA, Teiji
- 3PB-156** Borylation of Benzylic Carbon via C-H Bond Activation Catalyzed by Metal Oxide-supported Palladium (Kyoto Univ.) SATO, Yosuke; MIURA, Hiroki; WADA, Kenji; HOSOKAWA, Saburo; INOUE, Masashi
- 3PB-157** Hydrogen-deuterium exchange of methane on nickel catalyst prepared from nickel oxide (Univ. of Toyama) OSAWA, Tsutomu; HAMANO, Yuki; SAGA, Sachio; TAKAYASU, Osamu
- 3PB-158** Preparation of alumina-supported Cu-ZnO nanoparticles with tunable size by using liquid-phase reduction (Tohoku Univ.) OHNUMA, Ami; YAGIHASHI, Noritoshi; NAKAYA, Masahumi; KANIE, Kiyoshi; MURAMATSU, Atsushi

## Resources Utilization Chemistry

- 3PB-161** Propylene synthesis from ethylene via two-stage reaction (AIST) TAKAHARA, Isao; INABA, Megumu; MURATA, Kazuhisa; INOUE, Kenichi
- 3PB-162** Electrochemical Reduction of Carbon Dioxide in Methanol -Electrolysis with Improved Electrode - (Mie Univ.) OHYA, Shinya; KANECO, Satoshi; KATSUMATA, Hideyuki; SUZUKI, Tohru; OHTA, Kiyohisa
- 3PB-163** Enzymatic polymerization of lacquer lipids and structural analysis of polymerized components (Meiji Univ., Sch. Sci. & Tech.) ISHIMURA, Takahisa; MIYAKOSHI, Tetsuo
- 3PB-164** Development of Functional Materials using Disposal Biomass (Synthesis and Functional Development of Calcium Phosphate Derivatives) (Tokyo College of Medico-Pharmaco Technology, Department of Biotechnology) MINAMISAWA, Mayumi; YAMAZAKI, Tomoya; SUZUKI, Takayuki; YOSHIDA, Shoichiro; MINAMISAWA, Hiroaki
- 3PB-165** Ethanol production from waste paper: saccharification with sulfuric acid (Toho Univ.) OHNO, Takeru; NISHIGAKI, Atsuko; OHSHIMA, Shigeru
- 3PB-166** Dominant Factors in Reactivity of Acid-Catalyzed Biodiesel Fuel Synthesis (College of Industrial Technology, Nihon Univ.) UEHARA, Yoshihiro; FURUKAWA, Shigeki
- 3PB-167** Development of woody biomass functional and characterization for adsorption of dye (Dept. Appl. Chem., Coll. Eng., Chubu Univ.) SUZUKI, Masashi; HAYASI, Daiki; MIYACHI, Yasutaka; MIYAUTI, Toshiyuki; MORI, Hidehiko
- 3PB-168** Thermal decomposition of cellulose in high-boiling solvents (Research Center for Solar Energy Chemistry, Osaka Univ.) SANO, Emi; HARADA, Takashi; IKEDA, Shigeru; MATSUMURA, Michio
- 3PB-169** Effect of Hydrothermal Pretreatment on Enzymatic Hydrolysis of Kombu (Res. Lab. Hydrothermal Chem., Fac. Sci., Kochi Univ.) OKUDA, Kazuhide; YANAGISAWA, Kazumichi
- 3PB-170** Influence of acidity of ZSM-5 type zeolite on conversion of ethanol to light olefins. (Hiroshima Univ.) FURUMOTO, Yoshiyasu; GOTO, Daisuke; HARADA, Yasumitsu; OUMI, Yasunori; TAKAHASHI, Atsushi; HUIJITANI, Tadahi; SADAKANE, Masahiro; SANO, Tsuneji
- 3PB-171** Chemical Reforming of Polysaccharides by UV-photolysis and Advanced Oxidation Process (Toho Univ.) KAMOGAWA, Keiji; OHSHIMA, Sigeru

Sunday, March 28, PM

(15 : 00~16 : 30)

## Natural Products Chemistry

- 3PC-001** Studies toward the total synthesis of naturally-occurring tetrahydrofurans (Aoyama Gakuin Univ.) TOYODA, Chikahiro; TSUJIMOTO, Takashi; SUGIMURA, Hideyuki
- 3PC-002** Reaction behavior hydroxytyrosol with active oxygen species using apolyaniline/oxygen/aqueous system (Faculty of Biomedical Engineering, Toin Univ. of Yokohama; Graduate School of Engineering, Toin Univ. of Yokohama) YOUTA, Taichi; SAITO, Kiyoshi
- 3PC-003** Analyses of synthetic catechin oligomers (Graduate School of Science and Technology, Tokyo Institute of Technology) TAKAHASHI, Haruko; SHONO, Tomohiro; YANO, Takahisa; OHMORI, Ken; KUSUMI, Takenori; SUZUKI, Keisuke
- 3PC-004** Structure-activity relationship of membrane sterol for ion influx activity of amphotericin B (Osaka Univ.) NONOMURA, Kenichi; TAKANO, Tetsuro; MATSUMORI, Nobuaki; MURATA, Michio

## terpenoids, steroids

- 3PC-005** Chemical and Genetic Study of *Ligularia anoleuca* and *L. confertiflora* (Asteraceae) in China (Ochanomizu Univ.; Rikkyo Univ.; Kunming Institute of Botany) NAGANO, Hajime; KANDA, Midori; YAMADA, Hiroka; HANAI, Ryo; GONG, Xun; KURODA, Chiaki
- 3PC-006** A novel and practical synthetic method for (E)/(Z)-3-methyl-2-cyclopentadecanone and application to the synthesis of (R)-muscone (Grad. School of Sci. and Tech., Niigata Univ.; Faculty of Eng., Niigata Univ.) HAGIWARA, Hisahiro; ADACHI, Teppi; DOYA, Masaharu; HOSHI, Takashi; SUZUKI, Toshiro
- 3PC-007** Synthesis of A-Ring Unit for 2-Alkoxy Vitamin D (Kanagawa Univ.) KENMOTSU, Kiyohide; HAYASHI, Naoto; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 3PC-008** A New Synthetic Strategy toward Clerodane Diterpenoid, Methyl Barbascoate (Grad. School of Sci. and Tech., Niigata Univ.; Faculty of Eng., Niigata Univ.) HAGIWARA, Hisahiro; HONMA, Naomi; HOSHI, Takashi; SUZUKI, Toshiro
- 3PC-009** Investigation on the construction of the decalin skeleton of Hynapene B via Diels-Alder reaction (Aoyama Gakuin Univ.) TOYOMURA, Taichi; TSUJIMOTO, Takashi; SUGIMURA, Hideyuki
- 3PC-010** Studies on the bioactive natural products isolated from the marine sponge *Petrosia* sp. (Graduate School of Science and Engineering, Kagoshima Univ.) HIGASHI, Kazuhiko; TANQUE, Minami; TOSHIMITU, Yuki; OKAMURA, Hiroaki; IWAGAWA, Tetsuo; HAMADA, Toshiyuki

## alkaloids

- 3PC-011** Synthetic study on Benthocyanin A, a potent radical scavenger (Faculty of Science and Engineering, Kinki Univ.) OKAJIMA, Fuminori; HIGUCHI, Takuma; YMAGIWA, Yoshiro
- 3PC-012** Bioactive Compounds from Marine Organisms in Ehime Prefecture (Ehime Univ.) YOKOO, Yoshitaka; MIYAKE, Norimichi; NINOMIYA, Takahiro; KURAMOTO, Makoto; UNO, Hidemitsu
- 3PC-013** Synthesis of C-Glycosides and Their Self-Assembly Behavior (Tokai Univ.) MATSUDA, Sho; INAZU, Toshiyuki
- 3PC-014** Synthetic studies on the glycolipid analogs targeted on the detection of infectious diseases (Aoyama Gakuin Univ.) KAGIWADA, Masahiro; TSUJIMOTO, Takashi; SUGIMURA, Hideyuki
- 3PC-015** Studies toward the synthesis of P1-blood-type antigen glycolipids (Aoyama Gakuin Univ.) IGUSA, Hisako; TSUJIMOTO, Takashi; SUGIMURA, Hideyuki

## sugars

- 3PC-016** A transglycosylation to artificial acceptor using Endo-M (Tokai Univ.) TOMABECHI, Yusuke; HANEDA, Katsuji; INAZU, Toshiyuki
- 3PC-017** Synthetic Studies on TMG-chitotriomycin related sugar chains (The Institute of Physical and Chemical Research (RIKEN); Saitama Univ.) KITAMURA, Yujiro; MATSUOKA, Koji; KOSHINO, Hiroyuki; TAKAHASHI, Shunya
- 3PC-018** Synthesis and reevaluation of orsellide C and its analog for their antimicrobial activity (Kanagawa Univ.) AOSHIMA, Keita; AKAI, Shoji; SATO, Ken-ichi

## amino acids, peptides

- 3PC-019** Syntheses and properties of Cyclo(-X-Leu-X-D-Phe-Pro-)<sub>2</sub> (X = Lys, Orn, Dab, Dap) (Faculty of Science, Toho Univ.) TAMAKI, Makoto; TANIGUTI, Maki; IMAZAKI, Yuki; SASAKI, Ichiro; SHINDO, Mitsuno; KIMURA, Masahiro; UCHIDA, Yoshiki
- 3PC-020** Syntheses and properties of cyclic undecapeptides related to gramicidin S containing one added Lys residue (Faculty of Science, Toho

- Univ.) SASAKI, Ichiro; HIROSE, Humito; TANABE, Satoshi; SHINDO, Mitsuno; KIMURA, Masahiro; UCHIDA, Yoshiki; TAMAKI, Makoto
- 3PC-021** Synthetic Study of Cross-Linking Amino Acids of Elastin (Graduate School of Science and Technology, Sophia Univ.) YAMADA, Haruka; KOSEKI, Yohei; YANUMA, Hiroto; USUKI, Toyonobu
- 3PC-022** Design and synthesis of glycolipopeptide (Tokai Univ.) KURAMACHI, Mayuko; SUZUKI, Ayumi; SUZUKI, Yasushi; INAZU, Toshiyuki
- 3PC-023** Optical Resolution of *N*-Phenyl-DL- $\alpha$ -phenylglycine (Kansai Univ.) KITANO, Miki; YAJIMA, Tatsuo; SHIRAIWA, Tadashi
- 3PC-024** Optical Resolution of 2-Amino-3-methylpentanoic Acid (Kansai Univ.) KIMURA, Makiko; YAJIMA, Tatsuo; SHIRAIWA, Tadashi
- 3PC-025** Synthesis of optically active  $\alpha$ -alkylserine (Kansai Univ.) OGATA, Hidetoshi; YAJIMA, Tatsuo; SHIRAIWA, Tadashi
- 3PC-026** Preparation of D-allothreonine via *N*-acetylation (Kansai Univ.) ICHIMUIRA, Serina; YAJIMA, Tatsuo; SHIRAIWA, Tadashi
- 3PC-027** Design and synthesis of a PET probe for imaging a novel receptor involved in allodynia induction (Gifu Univ.) KANAZAWA, Masakatsu; MORI, Tomoko; DOI, Hisashi; ITO, Seiji; MINAMI, Toshiaki; SUZUKI, Masaaki; FURUTA, Kyoji
- 3PC-028** Synthetic Study of Jamaicamides (Graduate School of Science and Technology, Sophia Univ.) WATANABE, Sho; AOKI, Naoto; USUKI, Toyonobu
- 3PC-029** Structural and Functional Analysis of Stress Response Esterase RsbQ from *Bacillus subtilis* (Spring-8/JASRI) HOSHINO, Takeshi; MAKINO, Masatomo; BABA, Seiki; KUMASAKA, Takashi
- 3PC-030** Total synthesis of Zinnimidine (Faculty of Life and Medical Sciences, Doshisha Univ.) TSUJIMURA, Yu; ONISHI, Keiichiro; OE, Youhei; OHTA, Tetsuo
- 3PC-031** Development of the new synthetic method for the preparation of carbamates (Kochi Univ.) ICHIKAWA, Yoshiyasu; MORISHITA, Yukinori
- 3PC-032** Study on the Stereoselective Synthesis of Purine Nucleosides by Using Intramolecular Glycosylation (Aoyama Gakuin Univ.) NITTA, Daisuke; TSUJIMOTO, Takashi; SUGIMURA, Hideyuki

## Bifunctional Chemistry ; Biotechnology

## Functional Small Molecule, Molecular Recognition

- 3PC-035** Reassociation of rhodopin analogue into the LHI antenna pigment-protein complex from purple photosynthetic bacteria and its evaluation (Graduate School of Science, Osaka City Univ.; Graduate School of Engineering, Nagoya Institute of Technology; CREST/JST) YAMAMOTO, Mai; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; HORIBE, Tomoko; NISHISAKA, Yoshiaki; FUJII, Ritsuko; NAKAGAWA, Katsunori; NANGO, Mamoru; HASHIMOTO, Hideki
- 3PC-036** The molecular recognition between low molecular weight compounds using the pyridine and the thymine derivatives immobilized on gold nanoparticles (Okayama Univ. of Science) YAMADA, Haruo; YAMASHITA, Norikazu; MACHIDA, Kazufumi
- 3PC-037** Synthesis of Ferulic Acid-based Surfactant and Variation of Critical Micelle Concentration with pH Change (Fac. of Systems Engineering, Wakayama Univ.) KAGEN, Kazuhi; OSUGA, Hideji; KIMURA, Keiichi; SAKAMOTO, Hidefumi
- 3PC-038** Anthracene derivatives bearing two sulfamide groups as fluorescent receptor for anion (Yamagata Univ.) MIYOSHI, Katsunori; ITO, Kazuaki
- 3PC-039** Synthesis and Anion Recognition Properties of Squaramide Derivatives (Yamagata Univ.) MIDORIKAWA, Takuya; ITO, Kazuaki
- 3PC-040** Recognition of perfluorooctanoic acid (PFOA) by molecularly imprinted fluororous polymer (FIRST, Konan Univ.) TAKAYOSE, Megumi; MATSUI, Jun
- 3PC-041** Development of Artificial Chloride Ion Channel Based upon the Properties of *o*-Carborane Cage (Tohoku Pharm. Univ.; Tokushima Bunri Univ. at Kagawa) OHTA, Kiminori; YAMAZAKI, Hiroto; KAWAHATA, Masatoshi; YAMAGUCHI, Kentaro; ENDO, Yasuyuki
- 3PC-042** Syntheses of europium complexes having two succinimidyl groups for labeling of proteins (Nara Inst. Sci. Tech.) MUKAI, Ryusuke; YUASA, Junpei; HASEGAWA, Yasuchika; KAWAI, Tsuyoshi
- 3PC-043** Organic/Inorganic Hybrid Thin Film Containing L-Lysine Oligomer For Protein Recognition (Grad. Sch. Eng., Kobe Univ.) HATA, Yusaku; OOYA, Tooru; TAKEUCHI, Tshifumi
- 3PC-044** Protein sensing using a water-soluble pyrene monomer (Grad. Sch. Eng., Kobe Univ.) MATSUOKA, Masahiro; OOYA, Tooru; TAKEUCHI, Tshifumi
- 3PC-045** Development of Cytochalasin E Sensing System (Grad. Sch. Eng., Kobe Univ.) OKAMURA, Satoshi; KINOMOTO, Masaya; TAKANO, Eri; TANAKA, Fujimaru; OOYA, Tooru; TAKEUCHI, Toshihumi
- 3PC-046** Synthesis of bidentate and tripodal hexadentate ligands containing dihydroxypyrimidine and their application to PDT-promoting agents (Faculty of Science and Technology, Seikei Univ.; Faculty of Biomedical Engineering, Toin Univ. of Yokohama) KATOH, Akira; NIWA, Yuichi; MATSUMURA, Yuriko; ISHII, Takuya; TOKUOKA, Yoshikazu
- 3PC-047** Effect of novel pyrimidine and pyridine iron chelators on 5-aminolevulinic acid-induced protoporphyrin IX accumulation in U937 (Toin

- Univ. of Yokohama) ISHII, Takuya; TOKUOKA, Yoshikazu; TAMANOCHI, Yasuaki; MATSUMURA, Yuriko; KATOU, Akira
- 3PC-048** Design and Synthesis of Artificial Hydrolases Having Tris(picoly) amine Scaffold (Faculty of Pharmaceutical Sciences, Tokyo Univ. of Science; Center for Technologies against Cancer (CTC)) HANAYA, Kengo; KITAMURA, Masanori; AOKI, Shin
- 3PC-049** Synthesis of Zn(II) complexes with tropolones and their application to metabolic syndrome-improving agents (Faculty of Science and Technology, Seikei Univ.; Kyoto Pharm. Univ.; Suzuka Univ. of Med. Sci.; Tokyo Univ. of Sci.) KATOH, Akira; KATO, Hirotsuka; MATSUMURA, Yuriko; YOSHIKAWA, Yutaka; YASUI, Hiroyuki; SAKURAI, Hiromu; AOKI, Shin
- 3PC-050** Synthesis of Vanadyl and Zinc(II) Complexes of 5-Hydroxy-4-(1*H*)-pyridinethiones Directed to the Treatment of Diabetes and Metabolic Syndromes (Faculty of Science and Technology, Seikei Univ.; Kyoto Pharm. Univ.; Suzuka Univ. of Med. Sci.) KATOH, Akira; MATSUMURA, Yuriko; IKEDA, Mizuyo; OMACHI, Yasushi; FUKUDA, Satoshi
- 3PC-052** Photoregulated Generation of Reactive Oxygen Species by a Binuclear Copper Complex: Evaluation of Oxidative DNA Cleavage Activity (Grad. Sch. Eng., Kyoto Univ.) ITO, Takeo; TAKEUCHI, Kouhei; TANABE, Kazuhito; YAMADA, Hisatsugu; HATTA, Hiroshi; NISHIMOTO, Sei-ichi
- 3PC-053** The self-aggregation of porphyrin P(V) and Zn complexes in the mixing solvent of water/ethanol (Shizuoka Univ.) HIGASHINO, Toshiaki; HANAOKA, Jun; HIRAKAWA, Kazutaka
- 3PC-054** Synthesis and properties of chlorophyll derivatives connected with a water-soluble polymer (Ryukoku Univ.) MIYATAKE, Tomohiro; OKADA, Kazuma
- 3PC-055** Towards synthesis of Triazaporphycene (Graduate School of Engineering, Osaka Univ.) FUKUDA, Takaki; CHATTOPADHYAY, Prosenjit; ONODA, Akira; HAYASHI, Takashi
- 3PC-056** Synthesis of tetrahydrocorrin metal complex as an artificial prosthetic group for hemoproteins. (Osaka Univ.) OHBAYASHI, Jun; CHATTOPADHYAY, Prosenjit; HAYASHI, Takashi
- 3PC-057** Synthesis of porphyrin-fluorene composite conjugated with ethynyl group (Univ. of Yamanashi; Graduate School of Yamanashi) TAKANO, Yusuke; OGAWA, Kazuya
- 3PC-058<sup>#</sup>** Spectroscopic characterization of side-on, end-on peroxo and hydroperoxo-heme intermediates (Inst. for Materials Chem. and Eng., Kyushu Univ.) LIU, Jin-gang; OHTA, Takehiro; SHIMIZU, Yuta; NARUTA, Yoshinori
- 3PC-059** Photo-damage of a water-soluble protein by fluorinated porphyrin P(V) complex (Shizuoka Univ.) AZUMI, Keito; HIRAKAWA, Kazutaka
- 3PC-060** The Kinetic Analysis of Photoinduced Electron Transfer Reaction in Self-Assembly Porphyrin Heptamer. (Kyoto Institute of Technology) YAMAMOTO, Taku; KURODA, Yasuhisa; SASAKI, Ken; MORISUE, Mitsuhiro
- 3PC-061** Control of the electron transfer in photoexcited state of porphyrin through an interaction with anionic polymer (Shizuoka Univ.) HARADA, Mari; HIRAKAWA, Kazutaka
- 3PC-062** Inclusion behavior of cyclodextrins-modified tetraphenylporphyrin linked by adamantane (Kyoto Institute of Technology) HOGOURI, Jun-ichi; KURODA, Yasuhisa; SASAKI, Ken; MORISUE, Mitsuhiro
- 3PC-063** Steric effect for intramolecular and intermolecular recognition of Tetraphenylporphyrins Bearing Four Cyclodextrins (Dept. Biomol. Engineering, Kyoto Inst. of Tech.) YOSHIKAWA, Hiroto; MORISUE, Mitsuhiro; SASAKI, Ken; KURODA, Yasuhisa
- 3PC-064** NMR analysis of cyclodextrin-doxorubicin inclusion complexes (The Noguchi Institute; Wayo women's Univ. School of Human Ecology) ODA, Yoshiki; KATSURAYA, Kaname; YAMANOI, Takashi
- 3PC-065** Synthesis of poly-aminocyclodextrin by aza-Wittig reaction (Nagoya Institute of Technology, Graduate School of Engineering) OHKAWA, Hisayo; NIYAGAWA, Atsushi; YAMAMURA, Hatsuo
- 3PC-066** Synthesis and Properties of a New Crosslinking Dye to Analyze Helical Peptides Orientation (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.; RIKEN) KAMIMURA, Yasuhiro; YAMASHITA, Megumi; YAMAGUCHI, Shoichi; TAHARA, Tahei; HOSOI, Haruko; WATANABE, Soichiro
- 3PC-067** Affinity Evaluation between Glycolipid (Gb3) and Fragment Peptide of HIV-1 Envelope Protein (Tokyo Univ. of Technol. Bionics) KIMURA, Arisa; TOGAWA, Yoshuke; OKADA, Tomoko; MINOURA, Norihiko; HATANAKA, Kenichi
- 3PC-068** Development of Artificial Peptides with High Affinity to Lipopolysaccharide (LPS) (Tokyo Univ. of Technol. Bionics) INOUE, Hiroki; HYUGA, Masumi; OKADA, Tomoko; MINOURA, Norihiko
- 3PC-069** Inhibition of self-catalyzed hydrolysis of  $\beta$ -alanine ester by the platform on which His and Ser are presented (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) SHIRATORI, Ai; KIHARA, Nobuhiro
- 3PC-070** Synthesis, characterization, and interaction with DNA of optically active bis-acridinium derivatives (Faculty of Science, Nara Women's Univ.)

- SHIBATA, Satomi; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 3PC-071** Synthesis and Properties of New Crosslinking Reagents to Detect DNA-Protein Interaction (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) YAMAUCHI, Shoi; YAMAGISHI, Hideaki; TOYOSHIMA, Takuya; YANAI, Keiko; HASWAGAWA, Takashi; YANAI, Kazuyuki; WATANABE, Soichiro
- 3PC-072** Preparation of molecules which bind to the minor groove of DNA for optical sensing applications (College of Science and Technology, Nihon Univ.) SUWA, Kazuya; OTSUKI, Joe; ARITA, Juzo; THOMAS, JIM A.

## Nucleic Acids

- 3PC-073** Synthesis of photochromic molecule - modified DNA by DNA polymerase (Kobe Univ.) MATSUBA, Hiroyuki; TANAKA, Nobuyuki; EBARA, Yasuhito
- 3PC-074** Synthesis of Crown ether modified dUTP for Recognition of Metal Ions (Kobe Univ.) MATSUMOTO, Hitoshi; TANAKA, Nobuyuki; EBARA, Yasuhito
- 3PC-075** Interaction Analysis between Sialic acid-modified DNA and Lectin (Kobe Univ.) FUJITA, Akira; TANAKA, Nobuyuki; EBARA, Yasuhito
- 3PC-076** Synthesis of Phenylboronic Acid modified dUTP for Recognition of Saccharides (Kobe Univ.) YAMAMOTO, Naoki; TANAKA, Nobuyuki; EBARA, Yasuhito
- 3PC-077** Photo-mediated gene regulation using calbazole-modified antisense oligonucleotide (JAIST) SHIGENO, Atsuo; OHTAKE, Tomoko; YOSHIMURA, Yoshinaga; SAKAMOTO, Takashi; FUJIMOTO, Kenzo
- 3PC-078** Development of carbazole-modified triple-helix forming oligonucleotide for photo-mediated gene regulation (JAIST) YOSHIO, Yasumasa; YOSHIMURA, Yoshinaga; SAKAMOTO, Takashi; FUJIMOTO, Kenzo
- 3PC-079** Synthesis of caged nucleotides having biotin tag (Toho Univ.) TERAOKA, Aoi; HOSHIDA, Tomoko; MANABE, Kaori; FURUTA, Toshiaki
- 3PC-080** Synthesis and photochemistry of nucleobase-caged peptide nucleic acids (Toho Univ.) KISHI, Mariko; SUZUKI, Akinobu; MATSUURA, Junichi; FURUTA, Toshiaki
- 3PC-081** Synthesis of fluorescent nucleoside containing quinoline chromophore. (College of Engineering, Nihon Univ.) SAITO, Yoshio; KOZAKAI, Ryota; MATSUMOTO, Katsuhiko; SHINOHARA, Yuta; TAKAHASHI, NAHYA; SAITO, Isao
- 3PC-082** Synthesis of substituted 8-arylethynyl guanosine derivatives. (College of Engineering, Nihon Univ.) SAITO, Yoshio; KUGENUMA, Kenji; KOUDA, Makio; SHINOHARA, Yuta; MATSUMOTO, Katsuhiko; SUZUKI, Azusa; SAITO, Isao
- 3PC-083** Synthesis and the photochemical property of substituted 5-arylethynyl uridine (College of Engineering, Nihon Univ.) SAITO, Yoshio; OGUMA, Kazuhiro; MATSUMOTO, Katsuhiko; TAKEUCHI, Yoshiki; SAITO, Isao
- 3PC-084** Synthesis and fluorescence of oligodeoxyribonucleotides carrying pyrene residues (Kanagawa Univ.) KOYAMA, Yuko; KITADA, Sayaka; OKAMOTO, Itaru; ONO, Akira
- 3PC-085** The new synthetic method of 2'-O-pyrenylmethyl-3'-deoxyuridine derivative for the construction of fluorescent probe using amide-linked RNA (Teikyo Univ. Sci. Tech.) MATSUDA, Noriko; IWASE, Reiko
- 3PC-086** Study of solid-phase synthesis of modified RNA having photo-removable MeNP group at the O6 position of guanosine (Teikyo Univ. Sci. Tech.) IJIMA, Rie; SHIMOYAMA, Sakiko; OOTAKE, Tomoko; TOYAMA, Takaaki; IWASE, Reiko
- 3PC-087** Synthesis and properties of the morpholino nucleic acids containing 2-thiouracil bases (Tokyo institute of technology) HIRAKAWA, Taro; OSAWA, Sho; TSUNODA, Hirosuke; OKUBO, Akihiro; SEIO, Koji; SEKINE, Mitsuo
- 3PC-088** Synthesis of a new PNA unit having 3-aminopyridazine skeleton (Tokyo Institute of Technology) SEIO, Kohji; SATO, Yuta; KANAMORI, Takashi; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEKINE, Mitsuo
- 3PC-089** Synthesis of (5'*S*)-8,5'-cyclo-2'-deoxyadenosine 5'-triphosphate and its biochemical study (Osaka Univ.) KAMAKURA, Naoto; KURAOKA, Isao; BROOKS, P.J.; IWAI, Shigenori
- 3PC-090** Synthesis of citarabine phosphates (Kobe Pharm. Univ.) MAEDA, Hideko; KUSUHARA, Takuma; NAKAYAMA, Hirokazu
- 3PC-091** Synthesis and cross-linking properties of the photoregulatory alpha-chloroaldehyde-conjugated oligodeoxyribonucleotides. (Kyoto Institute of Technology) YAMAUCHI, Takemune; YAMAYOSHI, Asako; MURAKAMI, Akira; KOBORI, Akio
- 3PC-092** Photoreversible DNA end capping for the stabilization of hairpin structures (JAIST) OKADA, Hajime; AMI, Takehiro; YOSHIMURA, Yoshinaga; FUJIMOTO, Kenzo
- 3PC-093** Silencing of bcr/ablgene by chemically modified siRNA (Faculty of Humanity-Oriented Science and Engineering, Kinki Univ.) FUJII, Masayuki
- 3PC-094** Resolution of translational control mechanism through nucleic acid binding protein, TLS (Shizuoka Univ.) UCHIYAMA, Yumiko; TAKADA, Asami; TAKAHAMA, Kentaro; OYOSHI, Takanori
- 3PC-095** The cellular transcriptional activation machinery by RNA oligomer (Shizuoka Univ.) SAITO, Yu; TAKAHAMA, Kentaro; USHIMARU, Takashi; OYOSHI, Takanori
- 3PC-096** Alteration of RNA editing profile of 5HT<sub>2C</sub> mRNA depending on



- the dose of editing enzyme, ADARs (Dept. of Chem., Fac of Sci., Fukuoka Univ.) TANAKA, Yasuyoshi; ICHIMARU, Satoshi; SUZUKI, Tomomi; KITAMURA, Haruna; DESHIMARU, Masanobu
- 3PC-097** Significant stabilization of DNA triplex by silver ion (Dept. Appl. Chem. & Biochem., Kumamoto Univ.) IHARA, Toshihiro; ISHII, Tatsuaki; JYO, Akinori
- 3PC-098** Non Watson-Crick base pairs stabilized parallel duplexes (Kanagawa Univ.) ONO, Takashi; OKAMOTO, Itaru; ONO, Akira
- 3PC-099** RNA cleavage by nucleic acid oligomers with two terpyridine-Cu(II) complex-linked base moieties at the central part (Osaka City Univ.) SASAKI, Daisuke; TANIGUCHI, Michihiro; KITAMURA, Masaya; INOUE, Hideo
- 3PC-100** Base selective RNA cleavage by Cu(II) complexes of bis-terpyridine derivatives (Univ. of Osaka-City Technology) TSUGAWA, Tomohiro; KITAMURA, Masaya; INOUE, Hideo
- 3PC-101** Identification of DNA and RNA binding specificity for TLS (Shizuoka Univ.) TAKADA, Asami; TAKAHAMA, Kentaro; OYOSHI, Takanori
- 3PC-102<sup>†</sup>** Enhancement of conformational stability and affinity of thrombin binding aptamer by introducing 8-bromodeoxyguanosine (FIRST, Konan Univ.) GOJI, Shou; MATSUI, Jun
- 3PC-103** Characterization of the G-quadruplex DNA-RGG protein complex (Shizuoka Univ.) SUGIMOTO, Chieri; TAKAHAMA, Kentaro; OYOSHI, Takanori
- 3PC-104** New SELEX Strategy for screening of DNA Aptamer by AFM (Kobe Univ.) HAYASE, Taiji; OGINO, Chiaki; MIYACHI, Yusuke; KONDO, Akihiko
- 3PC-105** Analysis of G-quadruplex recognition peptides (Shizuoka Univ.) TAIDE, Tomoya; TAKAHAMA, Kentaro; SUGIMOTO, Chieri; DOHRA, Hideo; OYOSHI, Takanori
- 3PC-106** In vitro selection of DNA aptamers which bind Dapoxyl : an environmentally sensitive fluorophore (Tokyo Univ. of Technol.) SHIMADA, Ipppei; HYUGA, Masumi; KATO, Teru
- 3PC-107** Sol-gel reaction of task-specific ionic liquid using DNA as a template: synthesis of silica nano-structure (JAEA) SHIMOJO, Kojiro; MITAMURA, Hisayoshi; NAGANAWA, Hirochika
- 3PC-108** Binding interaction between cationic blue-color photosensitizers and DNA (Shizuoka Univ.) OTA, Kazuhiro; HIRAKAWA, Kazutaka
- 3PC-109** Rotation Behavior of Molecular Motor conjugated with Oligo DNA (IMRAM, Tohoku Univ.) SAKURABA, Tomoya; NAGAYA, Naoto; KUWAHARA, Shunsuke; HARADA, Nobuyuki; NAGATSUGI, Fumi
- 3PC-110** Evaluation of homologous recombination using artificial restriction DNA cutter (RCAST, The Univ. of Tokyo) HARUMOTO, Toshimasa; KATADA, Hitoshi; SHIGI, Narumi; KOMIYAMA, Makoto
- 3PC-111** The development of a technique for artificial site-specific mutation of DNA by using non-enzymatic procedure (JAIST) TAKEMURA, Yumiko; OGINO, Masayuki; HIRATSUKA, Kaoru; YOSHIMURA, Yoshinaga; FUJIMOTO, Kenzo
- 3PC-112** The development and applications of a sequence-selective ethenoadenosine-forming reaction using furan-conjugated oligodeoxyribonucleotides. (Kyoto Institute of Technology) MORITA, Junpei; YAMAYOSHI, Asako; MURAKAMI, Akira; KOBORI, Akio
- 3PC-113** Detection of methylated DNA based on the formation of branched DNA structures (Tokyo Univ. of Technol.) TAKANASHI, Kenta; KATO, Teru
- 3PC-114** Detection of Nucleic Acids Using Reduction Triggered Fluorescent Probe (Waseda Univ.; RIKEN) TAMURA, Yasutsugu; FURUKAWA, Kazuhiro; ABE, Hiroshi; TSUNEDA, Satoshi; ITO, Yoshihiro

## Protein, Enzyme

- 3PC-115** Elucidation of the protein + cyclodextrin interaction that I used ITC for. (Kinki Univ.) KONISHI, Yusuke; KAMIYAMA, Tadashi; KIMURA, Takayoshi
- 3PC-116** Construction of Novel Chiral Separation Method Using Monoclonal Antibodies (Graduate School of Science, Osaka Univ.) ODAKA, Tomoki; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 3PC-117** Stereoselective Recognition of Monoclonal Antibodies for Ligands in Transition Metal Complexes (Graduate School of Science, Osaka Univ.) GION, Tamaki; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 3PC-118** Control of Photophysical Property of Pyrene Derivatives Utilizing Monoclonal Antibodies (Graduate School of Science, Osaka Univ.) TADA, Mayako; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 3PC-119** Synthesis and Biological Activity of Cathelicidin Peptide LL37 for Human Neutrophil. (Dept. of Chem.; Fac. of Med., Saga Univ.) SHINMACHI, Hirofumi; SUGIYAMA, Daisuke; YAMAGUCHI, Ryo; OSADA, Satoshi; FUJITA, Ichiro; HAMASAKI, Yuhei; KODAMA, Hiroaki
- 3PC-120** Synthesis and Biological Activity of Dimeric FPRL1 Antagonists. (Dept. of Chem.; Fac. of Med., Saga Univ.) AKAO, Chiho; HIRAKAWA, Yuki; SUGIYAMA, Daisuke; OSADA, Satoshi; FUJITA, Ichiro; HAMASAKI, Yuhei; KODAMA, Hiroaki
- 3PC-121<sup>†</sup>** Synthesis of Dimeric Antagonist for Formyl Peptide Receptor and Biological Activities for Human Neutrophils (Dept. of Chem.; Fac. of Med., Saga Univ.) SUGIYAMA, Daisuke; HIRAKAWA, Yuki; SHINMACHI, Hirofumi; OSADA, Satoshi; FUJITA, Ichiro; HAMASAKI, Yuhei; KODAMA, Hiroaki
- 3PC-122** Evaluation of the amino acid modified antimicrobial peptide action on the bacterial outer membrane and biological activity (National Institute for Advanced Industrial Science and Technology; Research Center Borstel) FUKUOKA, Satoshi; HOWE, Joerg; ANDRAE, Joerg; GUTSMANN, Thomas; BRANDENBURG, Klaus
- 3PC-123** Study on the conformational change of the novel EF-hand protein Iba1 by dynamic light scattering (Kagawa Univ.; National Institute of Neuroscience) KAMITORI, Shigehiro; YOSHIDA, Hiromi; OHSAWA, Keiko; KOHSAKA, Shinichi
- 3PC-124** Evaluation of ligand binding affinity of the designed proteins, having a channel structure (Nagoya Inst. of Tech.) UKON, Takuya; MIZUNO, Toshihisa; DEWA, Takehisa; NANGO, Mamoru; TANAKA, Tosiki
- 3PC-125** Fabrication and orientation of supramolecular device composed of protein or peptide. (Utsunomiya Univ.) OBA, Toru; NAGATA, Takuya; ITO, Satoshi; HIRATANI, Kazuhisa
- 3PC-126** Structural Changes of an N-terminal Amyloid-beta Peptide on Copper-Induced Oxidative Stress Reaction (Chubu Univ.; Kinjo Gakuin Univ.) KOJIMA, Chika; INOUE, Koichi; OKA, Hisao; TSUTSUMIUCHI, Kaname
- 3PC-127** A method for immobilization of proteins on the solid substrates using a unique biotinylation reaction (Kyushu Inst. of Tech.) KAWAKAMI, Yuji; NAGAO, Azusa; SUEDA, Shinji
- 3PC-128** Development of fluorescent affinity tag using terbium binding peptides (Kyushu Inst. of Tech.) TANAKA, Shougo; SUEDA, Shinji
- 3PC-129** Click Chemistry on the Surface of Reconstituted Myoglobin (Doshisha Univ.) HITOMI, Yutaka; AKAOKA, Kazushi; TAKEYASU, Toshiyuki; FUNABIKI, Takuzo; KODERA, Masahito
- 3PC-130** Synthesis of Cyclopentadienyl Rhodium(I) Complex towards Covalent Modification of a Protein (Osaka Univ.) FUKUMOTO, Kazuki; ONODA, Akira; HAYASHI, Takashi
- 3PC-131** The roles of zinc and iron ion in peptide amidation (Kurume Univ. School of Medicine) SHIMOKAWA, Chizu; HARADA, Saori; HIGASHIMOTO, Yuichiro; SATO, Hideaki; SUGISHIMA, Masakazu; NOGUCHI, Masato
- 3PC-132** Thermodynamic Studies on the Metal Coordination in Methanol (Doshisha Univ.) INOUE, Haruka; KITAGISHI, Hiroaki; KANO, Koji; KODERA, Masahito; REINAUD, Renaud
- 3PC-133** Design and characterization of metal ion-responsive  $\alpha$ -helical coiled coil (Graduate School of Industrial Technology, Nihon Univ.) ANDO, Shun; KASHIWADA, Ayumi; MATSUDA, Kiyomi
- 3PC-134** Investigation of High Yield Production and Enhancement of Enzymatic Activities by mutagenesis of Multicopper Oxidase from *Bacillus subtilis* (Kanazawa Univ.) SEO, Daisuke; ABE, Koutaro; KATAOKA, Kunishige; SAKURAI, Takeshi
- 3PC-135** Assembly of protein/pigment complex isolated from photosynthetic bacteria onto an ITO electrode (Nagoya Inst. of Tech.) HARADA, Kaori; GOTO, Osamu; AKEGWA, Misaki; KONDO, Masaharu; IIDA, Koji; HASHIMOTO, Hideki; DEWA, Takehisa; AZAI, Chihiro; OH-OKA, Hirozo; NANGO, Mamoru
- 3PC-136** Photocurrent measurement of photosynthetic protein/ pigments complexes isolated from spinach on electrodes (Grad. School Eng., Nagoya Inst. of Tech.; CREST, JST) AMANO, Mizuki; TAKEUCHI, Yoshito; KUZUYA, Koutarou; NAGATA, Morio; KONDO, Masaharu; ISHIGURE, Syuichi; DEWA, Takehisa; NANGO, Mamoru
- 3PC-137** A crystallographic study on the effect of X-ray radiation on the crystal structure of Cu-containing nitrite reductase-substrate complex (Graduate School of Science, Osaka Univ.) INAGAWA, Kaori; NOJIRI, Masaki; KOTEISHI, Hiroyasu; YAMAGUCHI, Kazuya; SUZUKI, Shinnichiro
- 3PC-138** Structural characterization of dimeric myoglobin by NMR spectroscopy (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) AMAGAI, Makoto; NAGAO, Satoshi; HIROTA, Shun
- 3PC-139** Pigment composition of the photosynthetic antenna complexes from a brown alga, *Cladosiphon Okamuraanus* (Osaka City Univ., South Product Ltd.) FUJII, Ritsuko; KITA, Mamiko; IHA, Masahiko; HASHIMOTO, Hideki

## Sugar

- 3PC-140** Automated Synthesis of Glycoconjugates by Chemoenzymatic Protocol (AIST) HACHISU, Masakazu; MATSUSHITA, Takahiko; SHIMIZU, Hiroki; NAGASHIMA, Izuru; SAKUTA, Tomomi; HATANAKA, Kenichi; NISHIMURA, Shin-ichiro
- 3PC-141** Synthesis and functions of new artificial glycopolymers having cellulose-scaffold (Dept. of Lifesciences, Toyo Univ.; Bio-Nano Electronics Research Centre, Toyo Univ.) NEGISHI, Kaori; HASEGAWA, Teruaki
- 3PC-142** Artificial glycoclusters as tools to investigate carbohydrate-carbohydrate interactions: glycosylated ferrocenes (Dept. of Lifesciences, Toyo Univ.; Bio-Nano) SAKURAI, Kunihiko; OKAMOTO, Manami; HASEGAWA, Teruaki
- 3PC-143** Development of a molecular tweezer based on hinge sugar (Graduate School of Biosci. & Biotechnol., Tokyo Tech) ABE, Fumiaki; YUASA, Hideya

- 3PC-144** Synthesis of blood group oligosaccharide mimics using ethyleneglycol as a linker (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) OKURA, Yusuke; KUBOTA, Daijiro; YUASA, Hideya
- 3PC-145** Development of the methods for B-selective glycosidation of 5-thiosugar derivatives (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) MATSUI, Toru; ISHII, Ena; YUASA, Hideya
- 3PC-146** X-Ray Structure Analyses and Electronic Structure of Rare Sugars (Fac. of Engineering, Kagawa Univ.) TAHARA, Yasuhiro; YOSHIDA, Hiromi; YAMAJI, Masatsugu; WATANABE, Yuji; TAKESHITA, Kei; IZUMORI, Ken; KAMITORI, Shigehiro; ISHII, Tomohiko
- 3PC-147** A theoretical study on the interaction between protein and glycans using FMO method (Ochanomizu Univ.) ISE, Seiko; NOTO, Kaori; TAKANO, Keiko
- 3PC-148** Synthesis and photochemical properties of S- and O-glycosylated porphyrin platinum(II) complexes (Nara Institute of Science and Technology; Univ. of Yamanashi) SHARYO, Kohei; KWASAKI, Yuji; OBATA, Makoto; HIROHARA, Shiho; TERADA, Kayo; ANDO, Tsuyoshi; TANIHARA, Masao
- 3PC-149** Synthesis of glycoconjugated porphyrin metal complexes and their X-ray sensitization effect (Nara Institute of Science and Technology; Univ. of Yamanashi) HIROHARA, Shiho; SHARYO, Kohei; KAWASAKI, Yuji; OBATA, Makoto; TERADA, Kayo; ANDO, Tsuyoshi; TANIHARA, Masao
- 3PC-150** Optimization of Biological Transformation of Ethanol from Soft-cellulose (Univ. of Miyazaki) MIURA, Akiteru; MATSUMOTO, Jin; SHIRAGAMI, Tsutomu; YASUDA, Masahide; YOKOI, Haruhiko
- 3PC-151** Efficient Synthesis of Lactosaminyl Lipids for Sensitive Detection of Galectins (AIST, Institute for Biological Resources and Functions) MURAKAMI, Teiichi; SATO, Yukari; YOSHIOKA, Kyoko; YABUKI, Soichi

### Lipid, Biomembrane

- 3PC-152** Autocatalytic Membrane-Formation on a Self-Reproductive Vesicular Surface (Graduate School of Arts and Sciences, The Univ. of Tokyo) TAKAHASHI, Hiroshi; KAGEYAMA, Yosiyuki; TAKAKURA, Katsuto; SUGAWARA, Tadashi; MURATA, Shigeru
- 3PC-153** Preparation and functionality assessment of pH-sensitive liposomes for application of DDS (Keio Univ.) HASHIMOTO, Yuki; OSANAI, Shuichi
- 3PC-154** Budding and Fission of Giant Vesicles Induced by a Chemical Stimuli (Nara Inst. of Sci. and Technol.) ITO, Hiroshi; WANG, Zhong-hua; YASUHARA, Kazuma; KIKUCHI, Jun-ichi
- 3PC-155** Constitution lipid bilayer for membrane protein (Nagoya Univ.) NISHIKAWA, Katsuhiko; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu
- 3PC-156** *In situ* observation by atomic force microscopy of reconstituted photosynthetic membrane using peripheral and core antennae complexes from different species of photosynthetic bacteria (Graduate School of Science, Osaka City Univ.) SUGAI, Yuko; FUJII, Ritsuko; SUGISAKI, Mitsuru; NANGO, Mamoru; HASHIMOTO, Hideki
- 3PC-157** Micro-patterning of amphiphilic peptide on glass surface by focused ion beam milling for applications in immobilization of liposomes (Shibaura Institute of Technology) YAMADA, Daisuke; KASUYA, Yuzo; MATSUMURA, Kazunari

### Cell

- 3PC-158** Development of a protein labeling method based on a small peptide tag and protein ligation by intein (Graduate School of Engineering, Osaka Univ.) HORI, Yuichiro; EGASHIRA, Yuka; KAMIURA, Ryosuke; KIKUCHI, Kazuya
- 3PC-159** Introduction of Artificial Restriction DNA Cutter into human cells (RCAST, The Univ. of Tokyo) NOGUCHI, Eri; KATADA, Hitoshi; CHEN, Hsuan Jung; ITO, Kenichiro; HARUMOTO, Toshimasa; SHIGI, Narumi; KOMIYAMA, Makoto
- 3PC-160** Gene targeting in human cells using artificial restriction DNA cutter (RCAST, The Univ. of Tokyo) CHEN, Hsuan Jung; KATADA, Hitoshi; ITO, Kenichiro; NOGUCHI, Eri; HARUMOTO, Toshimasa; SHIGI, Narumi; KOMIYAMA, Makoto

### Life Information

- 3PC-161** strategy for inhibition of infection by targeting virus genome conserved sequence with peptide nucleic acid (ISIR, Osaka Univ.) TAKAHASHI, Tomoya; KATO, Nobuo; KAIHATSU, Kunihiro

### Environment Biotechnology

- 3PC-162** Development of a Biosensor Based on Immobilization of Amino Alkyl-carbohydrate onto Gold Surface (Institute of Industrial Science, The Univ. of Tokyo) OGISO, Masayo; KOBAYASHI, Junko; IMAMURA, Takeshi; ITOH, Miki; OKADA, Tomoko; MINOURA, Norihiko; HATANAKA, Kenichi

- 3PC-163** BOD measurement using luminous bacteria that immobilized on a silicon gum sheet (Dept. of Environ. Sci., Pref. Univ. of Hiroshima) SAKAGUCHI, Toshifumi; IMOTO, Nobuhiro
- 3PC-164** Measurement of aging odor with aldehyde dehydrogenase modified by polyethylen glycol (Tokyo Univ. of Technol.) YAMAMOTO, Kota; INOUE, Chisa; AKIMOTO, Takuo
- 3PC-165** Highly sensitive detection of E.coli expressing fluorescent protein using multi-layered substrate (Tokyo Univ. of Technol.) ETOH, Hiroki; KASHIWAGI, Masato; YASUDA, Mitsuru; AKIMOTO, Takuo
- 3PC-166** Aptamer-based biosensors for the detection of protein using AFM (Kobe Univ.) AMINO, Tomokazu; OGINO, Chiaki; MIYACHI, Yusuke; KONDO, Akihiko
- 3PC-167** Investigation of the interaction between GPCR and ligand by AFM equipped with bio-molecule modified cantilever (Kobe Univ.) NOSAKA, Kazuki; OGINO, Chiaki; ISHII, Jun; MIYACHI, Yusuke; KONDO, Akihiko
- 3PC-168** Investigation of buffer conditions for measurement of amino acids using combined enzyme reactions (RCAST, The City of Hiroshima) KUGIMIYA, Akimitsu; TAKAMITSU, Eri
- 3PC-169** Fabrication of amperometric amino acids biosensors with enzymatic reaction (RCAST, The City of Hiroshima) KUGIMIYA, Akimitsu; BABE, Fumie
- 3PC-170** Detection of amino acids with enzymatic reaction in absorption spectrometry and thermal-lens spectrometry (RCAST, The City of Hiroshima) KUGIMIYA, Akimitsu; MATSUZAKI, Eri
- 3PC-171** Characteristics of bisphenol A imprinted polymer modified electrode (Soka Univ.; Advanced Industry, Science and Technology) KUBO, Izumi; YOKOTA, Nobuyuki; FUCHIWAKI, Yusuke; AYUMI, Kaori; NAKANE, Yuko
- 3PC-172** Effects of pulsed magnetic field on ice crystal formation in perishable foods (Graduate School of Engineering, Chiba Univ.) IWASAKA, Masakazu; KURITA, Satoru; OWADA, Norio
- 3PC-173** Laser induced formation of noble metal nanoparticles by using biomaterials and analysis of emission properties (Osaka Univ.) YOSHIKAWA, Hiroyuki; YOKOYAMA, Motomi; SATHULURI, Ramachandra Rao; YAMAGUCHI, Yoshinori; TAMIYA, Eiichi

### Medical Biology

- 3PC-174** Investigation of Photoinduced DNA Cleavage and Cell Death by Novel Porphyrin Derivatives (Kyoto Univ.; BITS Pilani) AKAMATSU, Kanako; ITO, Takeo; KUMAR, Dalip; NISHIMOTO, Sei-ichi
- 3PC-175** Synthesis and Application of pH-responsive Biocompatible Polymer Micelle (Univ. of Hyogo Graduate School of Engineering) OKA, Daishiro; YUSA, Shin-ichi; TAKADA, Tadao; MORISHIMA, Yotaro; ISHIHARA, Kazuhiko
- 3PC-176** Withdrawn

### Biocatalysis

- 3PC-177** Synthesis of Sinapoylglucoside Using Lipase (Graduate School of Science, Osaka Prefecture Univ.) USA, Ryosuke; KOJIMA, Hideo
- 3PC-178** Synthesis of optically active compound with fragrance using enzyme (Toyama Pref. Univ.) KAWASAKI, Masashi
- 3PC-179** Effect of an Addition of Albumin to an Enzymatic Hydrolysis of Enol Esters (Meisei Univ.) MATSUMOTO, Kazutsugu; AKASAKA, Takuro; SEKIYA, Naoki