

Program

Room S1

Bldg.13 1325

CSJ Award Presentation

Sunday, March 29, PM

Chair: MIYAJIMA, Norio (14:00~15:00)

3S1-01 CSJ Award Presentation Studies on Efficient Strategies for Constructing Complex Organic Molecules (Graduate School of Science and Engineering, Tokyo Institute of Technology) SUZUKI, Keisuke

Chair: KITAGAWA, Teizo (14:00~15:00)

3S1-02 CSJ Award Presentation Developing Time-and Space-resolved Vibrational Spectroscopy and Cultivating New Frontiers of Physical Chemistry (SCHOOL OF SCIENCE, THE UNIV. OF TOKYO) HAMAGUCHI, Hiroo

Microwave Energy for Green & Sustainable Industry

Monday, March 30, AM

Chair: TAKEUCHI, Kazuhiko (9:30~10:10)

4S1-01 Special Program Lecture Chemistry with microwave energy and green sustainable industry. (MINERVA LIGHT LAB.) MATSUMURA, Takeko

4S1-02 Special Program Lecture Microwave and Material Characteristics to Apply Electromagnetic Energy (Kokushikan Univ. School of Science and Engineering) NIKAWA, Yoshio

Chair: TAKIZAWA, Hirotsugu (10:10~10:40)

4S1-03 Special Program Lecture Application of Microwave Energy to Chemical Industries for Low-carbon Society Era (CENTER FOR ADVANCED SCIENCE AND INNOVATION, OSAKA UNIV.) YANAGIDA, Shozo

Chair: HORIKOSI, Satoshi (10:50~11:30)

4S1-04 Special Program Lecture Energy-saving microwave-chemical-reactor by precise control of electro magnetic field (AIST:Research Center for Compact Chemical Process) NISHIOKA, Masateru; SATO, Kouichi; KASAI, Makoto; MIZUKAMI, Fujio

4S1-05 Special Program Lecture Research and Development of Microwave Irradiation Systems for Pretreatment of Woody Biomass toward Bio-ethanol Production (RISH, Kyoto Univ.) MITANI, Tomohiko

Chair: MIZUKAMI, Fujio (11:30~12:00)

4S1-06 Special Program Lecture Research trend of applied microwave chemistry and suggestions for the related experiment (Research Institute for Environmental Management Technology, AIST) KOBAYASHI, Satoru

Chair: MATSUMURA, Takeko (12:00~12:30)

4S1-07# Special Program Lecture Microwave applications in the chemical and pharmaceutical industry in Germany (PUSCHNER GMBH) Peter-Alexander Pueschner

Room S2

Bldg.13 1326

Enhanced Photo-Energy Conversion at Nano/Micro Structures

Friday, March 27, AM

(9:30~9:40)

1S2-01 Special Program Lecture Introductory Talk (Research Institute for Electronic Science, Hokkaido Univ.) MISAWA, Hiroaki

Chair: TORIMOTO, Tsukasa (9:40~10:40)

1S2-02 Special Program Lecture Photochemical reaction and optical property of gold nanoparticles covered with organic molecular layers (Graduate School of Engineering, Osaka Univ.) ASAH, Tsuyoshi

1S2-03 Special Program Lecture Photoelectrochemistry Energy Conversion Systems Based on Nanostructured Interfaces (Univ. of Tokyo) TATSUMA, Tetsu; SAKAI, Nobuyuki; TAKAHASHI, Yukina; MATSUBARA, Kazuki

Chair: ASAH, Tsuyoshi (10:40~11:40)

1S2-04 Special Program Lecture Photoelectric Conversion in Plasmonic Nanostructures with Enhanced Electric Fields (Kyushu Univ.) YAMADA, Sunao

1S2-05 Special Program Lecture Synthesis of gold nanorods and its application (DAI NIPPON TORYO CO.,LTD.; MITSUBISHI MATERIALS CORPORATION) MIZOGUCHI, Daigou; MUROUCHI, Masato; HIRATA, Hiroyuki; TAKATA, Yoshiaki

Chair: YAMADA, Sunao (11:40~12:20)

1S2-06 Special Program Lecture Preparation of Well-defined Metal-Semiconductor Nanocomposite Particles and Their Application to Photochemical Reactions (Nagoya Univ.) TORIMOTO, Tsukasa

1S2-07 Special Program Lecture Closing Remarks (Kyushu Univ.) YAMADA, Sunao

Chemistry, Physics, and Functions of Ordered Assemblies on Surfaces

Friday, March 27, PM

(13:30~13:35)

1S2-08 Special Program Lecture Explanation of Aim (JST/ERATO) MATSUO, Yutaka

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

1S2-09 Special Program Lecture Block Copolymer Templating Process using PEO Nanocylinder Array (Chemical Resources Laboratory, Tokyo Institute of Technology) ITO, Kaori; IYODA, Tomokazu

1S2-10 Special Program Lecture Formation of Self-Organized Molecular Architectures at Electrode Surfaces (Priority Organization for Innovation and Excellence, Kumamoto Univ.) YOSHIMOTO, Soichiro

1S2-11 Special Program Lecture Construction of Complex 2D Molecular Orderings at the Liquid-Solid Interface (Graduate School of Engineering Science, Osaka Univ.) TAHARA, Kazukuni

Chair: HIGUCHI, Masayoshi (14:35~15:35)

1S2-12 Special Program Lecture Catalysis of Transition Metal Complex Monolayer on Gold Surface (Catalysis Research Center, Hokkaido Univ.) HARA, Kenji

1S2-13 Special Program Lecture Synthesis and Potential Control of Molecular Assemblies Composed of Redox-active Transition-metal Clusters (Grad. Sch. of Eng., Kyushu Univ.) ABE, Masaaki

1S2-14 Special Program Lecture Enhancement Effect on Photocurrent Generation Efficiency of Organic Photoelectric Conversion Device using Gold Nanostructure Electrode (Dep. Appl. Chem., Fac. of Eng., Kyushu Univ.) AKIYAMA, Tsuyoshi

Chair: TAKAYA, Hikaru (15:35~16:40)

1S2-15 Special Program Lecture Photocurrent Conversion Functions of Fullerene Derivatives (JST/ERATO) MATSUO, Yutaka

1S2-16 Special Program Lecture Electron Transfer in Helical Peptide Self-Assembled Monolayers (Grad. Sch. of Eng., Kyoto Univ.) MORITA, Tomoyuki

1S2-17 Special Program Lecture Effect of Interfacial Structures of Electrodes on the Electrochemical Reactions of Biomolecules (Kumamoto Univ. Grad. Sch. of Sci. and Tech.) TOMINAGA, Masato

1S2-18 Special Program Lecture Closing Remarks (Priority Organization for Innovation and Excellence, Kumamoto Univ.) YOSHIMOTO, Soichiro

CSJ Award Presentation

Saturday, March 28, AM

Chair: HARAGUCHI, Hiroki (10:00~11:00)

2S2-01 CSJ Award Presentation Development of New Analysis Technologies for DNA and Bio-organic Compounds (Hitachi, Ltd.)

KAMBARA, Hideki

Chair: NISHIHARA, Hiroshi (11:00~12:00)

2S2-02 CSJ Award Presentation Pioneering and Developing Studies on Chemistry of Coordination Space (iCeMS, Kyoto Univ.) KITAGAWA, Susumu

Sunday, March 29, PM

Chair: TSUTSUI, Tetsuo (13:00~14:00)

3S2-01 CSJ Award Presentation Tailoring Nanoscale Functions through Precision Control of Molecular Interactions (Sch. of Eng. The Univ. of Tokyo) AIDA, Takuzo

Chair: YAMANOUCHI, Kaoru (13:00~14:00)

3S2-02 CSJ Award Presentation Vibration and Reaction Dynamics of Single-Molecule at Surfaces (Graduate School of Frontier Sciences, The Univ. of Tokyo; RIKEN) KAWAI, Maki

Room S3

Bldg.14 1421

Chemistry for Constructing a Sustainable "Healthy Future" -Chemistry Lies in the Center of Integrated Projects-

Friday, March 27, AM

(9:30~9:45)

1S3-01 Special Program Lecture Opening Remarks (College of Science and Technology, Nihon Univ.) TAKIDO, Toshio

1S3-02 Special Program Lecture Remarks on the Present Symposium (College of Science and Technology, Nihon Univ.) NISHIMIYA, Nobuyuki

Chair: MORINAGA, Yasufumi (9:45~11:05)

1S3-03 Special Program Lecture Development of advanced application technology of renewable carbon resources (College of Science and Technology, Nihon Univ.) SAWAGUCHI, Takashi

1S3-04 Special Program Lecture Development of environmentally friendly synthetic process using supported reagents (College of Science and Technology, Nihon Univ.) AOYAMA, Tadashi

1S3-05 Special Program Lecture Toward the Sustainable Tourism and Community Development -A Dialogue between Social Science and Technology- (The College of Commerce, Nihon Univ.) AZUMA, Tooru

1S3-06 Special Program Lecture Hydrogen Production from Fossil Fuel and CCS (Carbon Capture and Storage) (INPEX Corporation.) HARADA, Makoto

1S3-07 Special Program Lecture Development of Photocatalysts for Hydrogen Production Using Solar Energy (Sch. of Eng. The Univ. of Tokyo) HISATOMI, Takashi; DOMEN, Kazunari

Chair: NISHIMIYA, Nobuyuki (11:05~12:45)

1S3-08 Special Program Lecture Characterization of environmental samples using synchrotron radiation (Spring-8) TERADA, Yasuko

1S3-09 Special Program Lecture Accelerators in medical science (Research Institute for Science and Engineering, Waseda Univ.) SHINOHARA, Kunio

1S3-10 Special Program Lecture Environmental and industrial applications of compact accelerators (Ritsumeikan Univ. SR Center) OHTA, Toshiaki

1S3-11 Special Program Lecture (Institute of Quantum Science, Nihon Univ.) SATO, Isamu

1S3-12 Special Program Lecture Concluding Remarks (Advanced Research Institute for the Sciences and Humanities, Nihon Univ.) IWAMURA, Hiizu

1S3-13 Special Program Lecture (Institute of Quantum Science, Nihon Univ.) SATO, Isamu

Room S4

Bldg.14 1422

Supramolecular Structures and Nanoassemblies of Organic molecules and Organic-Inorganic Hybrids

Monday, March 30, AM

(9:30~9:40)

4S4-01 Special Program Lecture Overview (Fac. of Eng. Sojo Univ.) SHINKAI, Seiji

Chair: FUJITA, Makoto (9:40~10:40)

4S4-02 Special Program Lecture New Developments of Supramolecular Synthetic Chemistry: Creation of Nano-array, Nano-space, and Nano-motion (SCHOOL OF SCIENCE, THE UNIV. OF TOKYO) SHIONOYA, Mitsuhiko

4S4-03 Special Program Lecture Light-Harvesting Antenna Properties of Mesoporous Organosilicas and Their Applications to Photoreaction Systems (Toyota Central R&D Labs.,Inc.) INAGAKI, Shinji

Chair: NISHIHARA, Hiroshi (10:40~11:40)

4S4-04 Special Program Lecture Supramolecular Liquid Crystals: Hybrid Formation and Functionalization (School of Engineering, The Univ. of Tokyo) KATO, Takashi

4S4-05 Special Program Lecture Design of Functional Metal Nanoclusters based on molecular recognition events at the soft organic-inorganic interface (Graduate School of Environmental Science, Hokkaido Univ.) KONISHI, Katsuaki

Chair: IYODA, Masahiko (11:40~12:20)

4S4-06 Special Program Lecture Design and Construction of Nano-Interfaces based on Self-Assembly and their Characteristics (Grad. Sch. of Eng., Kyushu Univ.; JST CREST) KIMIZUKA, Nobuo

4S4-07 Special Program Lecture Closing Remarks (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) IYODA, Masahiko

Room S5

Bldg.14 1423

Energy Innovation Based on the Photosynthesis

Monday, March 30, AM

(9:30~9:40)

4S5-01 Special Program Lecture Introduction (Fac. of Eng, Oita Univ.) AMAO, Yutaka

Chair: NANGO, Mamoru (9:40~11:00)

4S5-02 Special Program Lecture Photoinduced hydrogen evolution with enzyme (Graduate school of Bioscience and Biotechnology, Tokyo Institute of Technology) ASAKURA, Noriyuki

4S5-03 Special Program Lecture Photochemical Properties of Chlorophyll and Their Application to Devices (College of Pharmaceutical Sciences, Ritsumeikan Univ.) TAMIYAKI, Hitoshi

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

4S5-04 Special Program Lecture Development of Bio Molecular Device for Hydrogen Production (KRI,Inc., Environment and energy technology consulting department) WAKAYAMA, Tatsuki; NAKAMURA, Chikashi; MIYAKE, Jun

4S5-05 Special Program Lecture Artificial Photosynthesis to Stop Global Warming (Graduate School of Engineering, Osaka Univ.) FUKUZUMI, Shunichi

4S5-06 Special Program Lecture Summary (Fac. of Eng, Oita Univ.) AMAO, Yutaka

Room S6

Bldg.14 1431

Molecular Network Information in a Terahertz Frequency Region

Monday, March 30, AM

Chair: AJITO, Katsuhiko (9:30~10:50)

- 4S6-01 Special Program Lecture** (Research Center for Development of Far-Infrared Region, Univ. of Fukui) TANI, Masahiko
- 4S6-02 Special Program Lecture** Terahertz Spectroscopy in the History of Spectroscopy (The Univ. of Tokyo) TASUMI, Mitsuo
- 4S6-03 Special Program Lecture** Advances in terahertz spectroscopic techniques (Research Center for Development of Far-Infrared Region, Univ. of Fukui) TANI, Masahiko
- 4S6-04 Special Program Lecture** Terahertz Pulse Spectroscopy Applied to the Pharmaceutical Industry (Aispec:Advanced Infrared Spectroscopy Co.,Ltd.; Shinshu Univ.) NISHIZAWA, Seizi

Chair: TANI, Masahiko (11:00~12:30)

- 4S6-05 Special Program Lecture** Terahertz Pulse Imaging of Biological Samples (RIKEN) HOSHINA, Hiromichi; HAYASHI, Aya; MIYAMARU Fumiaki; MIYOSHI, Norio; OTANI, Chiko
- 4S6-06 Special Program Lecture** Terahertz Spectroscopy for Label-free Immunoassay (Graduate School of Agricultural Science, Tohoku Univ.) OGAWA, Yuichi
- 4S6-07 Special Program Lecture** Terahertz Spectroscopy and Molecular Network Information (NTT) AJITO, Katsuhiko

Room S7

Bldg.14 1432

Functions of Water under Unusual Conditions and Their Analytical Applications

Monday, March 30, AM

Chair: OKADA, Tetsuo (9:30~10:25)

- 4S7-01 Special Program Lecture** Opening Remarks (Graduate School of Science and Engineering, Tokyo Institute of Technology) OKADA, Tetsuo
- 4S7-02 Special Program Lecture** Structure of Water and Ion Hydration in Ion Exchange Resins (ORGANO CORPORATION) YAMANAKA, Koji
- 4S7-03 Special Program Lecture** Water confined in hydrophobic nano-spaces as a separation medium (Graduate School of Science & Engineering, Saitama Univ.) SHIBUKAWA, Masami

Chair: YAMANAKA, Koji (10:25~11:15)

- 4S7-04 Special Program Lecture** Analytical Advancement with Ice-Glacioanalytical Chemistry (Graduate School of Science and Engineering, Tokyo Institute of Technology) OKADA, Tetsuo
- 4S7-05 Special Program Lecture** Microheterogeneity and Solvation Field Provided by Binary Solvent Mixtures (Saga Univ. Faculty of Science and Engineering) TAKAMUKU, Toshiyuki

Chair: SHIBUKAWA, Masami (11:15~12:35)

- 4S7-06 Special Program Lecture** Structural Change of a Polymer Thin Film Induced by Molecular Water Studied by Infrared MAIR Spectrometry (Graduate School of Science and Engineering, Tokyo Institute of Technology, Associate Professor) HASEGAWA, Takeshi
- 4S7-07 Special Program Lecture** Exotic behaviors of compact water layers spatially confined at solid-liquid interfaces (Graduate School of Science & Engineering, Saitama Univ.) NAKABAYASHI, Seiichi
- 4S7-08 Special Program Lecture** Development of measurement methods of magnetic susceptibility and chirality at liquid-liquid nano-interface (Graduate School of Science, Osaka Univ.) WATARAI, Hitoshi
- 4S7-09 Special Program Lecture** summary (Graduate School of Science & Engineering, Saitama Univ.) SHIBUKAWA, Masami

Room SA

Bldg.11 1112

Tectonics for Molecular-Controlled Materials

Saturday, March 28, AM

(9:00~9:05)

- 2SA-01 Special Lecture** Description of the aim (Graduate School of Engineering, Nagoya Univ.) KOUMOTO, Kunihito

Chair: MATSUDA, Atsunori (9:05~9:35)

- 2SA-02 Special Lecture** Development of Functional Organic/Inorganic Hybrids Formed through Self-Organization Processes Based on Organic Polymers (School of Engineering, The Univ. of Tokyo) KATO, Takashi

Chair: NAKAHIRA, Atsushi (9:35~10:05)

- 2SA-03 Special Lecture** Creation of Smart Materials with Integrated Functions via Hybridization of Heterologous Tectons Using Molecular Assembly Process (Graduate School of Engineering, Nagoya Univ.) KATAGIRI, Kiyofumi; KOUMOTO, Kunihito

Chair: OHTAKI, Michitaka (10:05~10:35)

- 2SA-04 Special Lecture** Materials Tectonics via Multi-Scale Multi-Phase Structural Design (Graduate school of Science, Kyoto Univ.) NAKANISHI, Kazuki; TOKUDOME, Yasuaki; HANADA, Teiichi

Chair: TANAKA, Katsuhisa (10:35~11:05)

- 2SA-05 Special Lecture** Nanophotoceramics prepared via solution-based processing based upon the use of multinuclear metal complexes as tectons (IMRAM, Tohoku Univ.) KAKIHANA, Masato

Chair: KATAGIRI, Kiyofumi (11:05~11:35)

- 2SA-06 Special Lecture** Bottom-up Synthesis of Organic-Mediated Hierarchical Structures of Inorganic Crystals and Their Applications (Science and Technology, Keio Univ.) IMAI, Hiroaki

Chair: TANAKA, Yumi (11:35~12:05)

- 2SA-07 Special Lecture** Development of highly functionalized tectons by hybridization of bio-nanofibers and inorganic compounds (Graduate School of Agricultural and Life Sciences, The University of Tokyo) ISOGAI, Akira

Chair: OHTSUKI, Chikara (12:05~12:35)

- 2SA-08 Special Lecture** Biomedical Applications using Nano Organic-Inorganic Hybrids (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) SASAKI, Yoshihiro; YAMANE, Setsuko; AKIYOSHI, Kazunari

Photochemistry in Microenvironment Surrounding Supra-molecular Systems

Saturday, March 28, PM

Chair: INOUE, Haruo (13:30~14:30)

- 2SA-09 Special Lecture** Opening Remarks (Tokyo Metro. Univ.; SORST, JST) INOUE, Haruo

- 2SA-10 Special Lecture** Expectations to photochemistry from the synthetic studies on inorganic inclusion compounds (Waseda Univ.) KURODA, Kazuyuki

- 2SA-11 Special Lecture** Photochemical Behavior of Porphyrin Derivatives in Nano-Layered Environment (Tokyo Metro. Univ.; PRESTO, JST) TAKAGI, Shinsuke

Chair: USAMI, Hisanao (14:40~16:00)

- 2SA-12 Special Lecture** Structure Control of Nano- and Meso-Materials by Means of Photochemical Processes (Graduate School of Engineering, Nagoya Univ.) SEKI, Takahiro

- 2SA-13 Special Lecture** Flexible Microspaces Organized by Inorganic Nanosheets: Structure and Photochemistry (GRAD.SCHL.OF BIO-APPL. & SYSTEMS ENG., TOKYO UNIV. OF AGRI. & TECH.) NAKATO, Teruyuki

- 2SA-14 Special Lecture** Photochemistry of Chlorophyll Assemblies (College of Pharmaceutical Sciences, Ritsumeikan Univ.) TAMIAMI, Hitoshi

Chair: SASAI, Ryo (16:10~17:20)

- 2SA-15 Special Lecture** Radical-type Intermediates in Microenvironment Surrounding Supramolecular Systems. -Capture with Zeolite and Application to the Organic Light-emitting Diodes- (Graduate School of Engineering, Osaka Pref. Univ.) IKEDA, Hiroshi

- 2SA-16 Special Lecture** Photochemistry in Mesoporous Organosilicas with Organic Chromophores in the Pore Walls (Toyota Central R&D Labs., Inc.) INAGAKI, Shinji
- 2SA-17 Special Lecture** Photochemistry of inorganic-organic hybrid systems (Graduate School of Medicine, Yamaguchi Univ.) KAWAMATA, Jun

Room SB
Bldg.11 1121

Chemistry and Physics of Quantum Electron Systems on Curved Surfaces

Friday, March 27, AM

(9 : 30 ~ 9 : 35)

- 1SB-01 Special Program Lecture** Introduction to This symposium (Research Laboratory for Nuclear Reactors, Tokyo Institute of Technology) ONOE, Jun

Chair: TERANISHI, Toshiharu (9 : 35 ~ 11 : 00)

- 1SB-02 Special Program Lecture** New nanocarbons as a curved quantum system (Research Laboratory for Nuclear Reactors, Tokyo Institute of Technology) ONOE, Jun
- 1SB-03 Special Program Lecture** Topological effects on quasi-one-dimensional materials studied by photo-induced carrier dynamics (Hokkaido Univ. CRIS -Creative Research Initiative 'Sousei'-) TODA, Yasunori
- 1SB-04 Special Program Lecture** Electron Properties of Nanostructures with Curved Geometry (Graduate School of Engineering, Hokkaido Univ.) SHIMA, Hiroyuki

Chair: TODA, Yasunori (11 : 00 ~ 12 : 35)

- 1SB-05 Special Program Lecture** Is the Surface of Single-Nano Buckydiamond (SNBD) Particles Spherical or Polyhedral? (NanoCarbon Research Institute Co., Ltd.) OSAWA, Eiji
- 1SB-06 Special Program Lecture** Inorganic Nanoparticles with Various Curved Surfaces (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) TERANISHI, Toshiharu
- 1SB-07 Special Program Lecture** Nano-spaces consisted of precisely assembled metal complexes (Graduate School of Science, Nagoya Univ.) TANAKA, Kentaro
- 1SB-08 Special Program Lecture** Summary (NanoCarbon Research Institute Co., Ltd.) OSAWA, Eiji

Nano Materials Science for Innovative Hybrid Functions -From Metal Complexes to Nano Hybrid Materials of Next-Generation-

Saturday, March 28, PM

(13 : 30 ~ 13 : 40)

- 2SB-01 Special Lecture** Introduction (Graduate School of Science, Tohoku Univ.) YAMASHITA, Masahiro

Chair: NAKAMURA, Takayoshi (13 : 40 ~ 14 : 40)

- 2SB-02 Special Lecture** Study for novel multi-functional materials based on magnetochemistry (School of Science, The Univ. of Tokyo.) OHKOSHI, Shin-ichi
- 2SB-03 Special Lecture** Construction of Organic-Inorganic Nano-Hybrids for Molecular Storage, Separation, and Catalysis (School of Engineering, The Univ. of Tokyo) UCHIDA, Sayaka; MIZUNO, Noritaka

Chair: YAMASHITA, Masahiro (14 : 40 ~ 15 : 25)

- 2SB-04 Special Lecture** A New Continent in High Temperature Superconductors: Layered Iron-based compounds (Tokyo Institute of Technology) HOSONO, Hideo

Chair: KOJIMA, Norimichi (15 : 35 ~ 16 : 35)

- 2SB-05 Special Lecture** Molecular Optoelectronics Using Organic Molecule and Metal Nanoparticles (Graduate school of Engineering, Kyoto Univ.) MATSUDA, Kenji
- 2SB-06 Special Lecture** Solid-State Electrochemistry of Organic/Inorganic Hybrid Materials (Graduate School of Science, Nagoya Univ.) AWAGA, Kunio

Chair: AWAGA, Kunio (16 : 35 ~ 17 : 30)

- 2SB-07 Special Lecture** Microbial network formation with iron oxide and iron sulfide nano colloids (Sch. of Eng. The Univ. of Tokyo) HASHIMOTO, Kazuhito
- 2SB-08 Special Lecture** Closing Remarks (Graduate School of Science, Nagoya Univ.) AWAGA, Kunio

Frontier of Bio-Mechano Chemistry

Monday, March 30, AM

Chair: HAMACHI, Itaru (9 : 30 ~ 10 : 10)

- 4SB-01 Special Program Lecture** Introduction Remark (IMRAM, Tohoku Univ.) WADA, Takehiko
- 4SB-02 Special Program Lecture** (Inst. of Industrial Sci., the Univ. of Tokyo) TAKEUCHI, Shoji

Chair: SUGIMOTO, Naoki (10 : 10 ~ 11 : 10)

- 4SB-03 Special Program Lecture** Development of Advanced Nanobio-device and its Application to Genomic Medicine (Graduate School of Engineering, Nagoya Univ., Prof/HTRC, AIST, Vice Director) BABA, Yoshinobu
- 4SB-04 Special Program Lecture** Multifunctional envelope-type nano device as a non-viral gene delivery system and application for nano medicine (Graduate School of Pharmaceutical Sciences Hokkaido Univ.) HARASHIMA, Hideyoshi

Chair: SATO, Toshinori (11 : 20 ~ 12 : 30)

- 4SB-05 Special Program Lecture** Highly Sensitive Detection of Marine Toxins using Antibodies (Grad. Sch. of Sci., Osaka Pref. Univ.) TSUMURAYA, Takeshi
- 4SB-06 Special Program Lecture** Detection of biomolecular recognition using biotransistor (NIMS · School of Engineering, The Univ. of Tokyo) MIYAHARA, Yuji
- 4SB-07 Special Program Lecture** Closing Remarks (KAKETSUKEN) NAKASHIMA, Toshihiro

Room SC
Bldg.11 1122

Cutting-Edge Research Areas in Chemical Biology

Friday, March 27, AM

Chair: KIGOSHI, Hideo (9 : 30 ~ 10 : 10)

- 1SC-01 Special Lecture** Opening Remarks (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) KIGOSHI, Hideo
- 1SC-02 Special Lecture** Chemical Glycobiology in self and non-self-recognition (Graduate School of Science, Osaka Univ.) FUKASE, Koichi

Chair: TSUKAMOTO, Sachiko (10 : 00 ~ 10 : 20)

- 1SC-03 Special Lecture** Novel Approaches to Identify Peptide Hormone Candidates in *Arabidopsis* (Graduate School of Bio-agricultural Sciences, Nagoya Univ.) MATSUBAYASHI, Yoshikatsu

Chair: SASAKI, Makoto (10 : 20 ~ 10 : 40)

- 1SC-04 Special Lecture** Chemical Synthesis and Rational Design of Ion Channel Functions (Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo) INOUE, Masayuki

Chair: TADANO, Kin-Ichi (10 : 40 ~ 11 : 00)

- 1SC-05 Special Lecture** Development of Novel Glutamate Analogs (Graduate School of Science, Osaka City Univ.) OHFUNE, Yasufumi

Chair: SUENAGA, Kiyotake (11 : 00 ~ 11 : 20)

- 1SC-06 Special Lecture** Aldolase-catalyzed chemo-enzymatic synthesis of Carbohydrates (AJINOMOTO CO., INC.) SUGIYAMA, Masakazu; Chi-Huey Wong

Chair: CHIDA, Noritaka (11 : 20 ~ 11 : 40)

- 1SC-07 Special Lecture** Total Synthesis of Cyclic Peptidic Natural Products and Their Biological Evaluation (Graduate School of Pharmaceutical Sciences, Tohoku Univ.) DOI, Takayuki

Chair: UEDA, Minoru (11 : 40 ~ 12 : 00)

- 1SC-08 Special Lecture** Target Identification of Bioactive Small Molecules (Institute for Chemical Research, Kyoto Univ.) UESUGI, Motonari

Chair: MURATA, Michio (12 : 00 ~ 12 : 30)

- 1SC-09 Special Lecture** Molecular Analysis of Antibiotic Biosynthesis (Graduate School of Science and Engineering, Tokyo Institute of Technology) EGUCHI, Tadashi
- 1SC-10 Special Lecture** Summary (Graduate School of Science, Osaka Univ.) MURATA, Michio

Development of *in vivo* biomolecular science

Saturday, March 28, AM

Chair: TAMIYA, Eiichi (9:30~10:15)

2SC-01 Special Lecture Development of *in vivo* Biomolecular Science (TOKYO UNIV. OF AGRI. & TECH.) MATSUNAGA, Tadashi

2SC-02 Special Lecture Manipulation of cell and biomolecule in microfluidic device (School of Materials Science, JAIST) TAKAMURA, Yuzuru

Chair: TAKEYAMA, Haruko (10:15~11:15)

2SC-03 Special Lecture (SCHOOL OF SCIENCE, THE UNIV. OF TOKYO) HAMAGUCHI, Hirou

2SC-04 Special Lecture Analysis of differentiation control mechanism by single-cell traceable femto-injection (Department of Biotechnology and Life Science, Tokyo Univ. of Agriculture and Technology) MATSUOKA, Hideaki

Chair: OZAWA, Takeaki (11:15~12:00)

2SC-05 Special Lecture Fluorescence Lifetime Imaging Measurements and Intracellular Environment (RIES, Hokkaido Univ.) OHTA, Nobuhiro

2SC-06 Special Lecture Closing Remarks (Graduate School of Engineering, Osaka Univ.) TAMIYA, Eiichi

Recent Advancements in Catalytic Reactions with the First-row Transition Metals

Saturday, March 28, PM

Chair: TAKAI, Kazuhiro (13:30~14:10)

2SC-07 Special Lecture Introduction (Okayama Univ. Graduate School of Natural and Technology) TAKAI, Kazuhiko

2SC-08 Special Lecture Controlling Iron Catalysis in Selective Carbon-Carbon Bond Formations (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) NAKAMURA, Masaharu

Chair: NAKAMURA, Masaharu (14:10~14:30)

2SC-09 Special Lecture Iron-Catalyzed Direct Functionalization of Aromatic C-H Bonds Using Organometallic Reagents (SCHOOL OF SCIENCE, THE UNIV. OF TOKYO) YOSHIKAI, Naohiko; NAKAMURA, Eiichi

Chair: YOSHIKAI, Naohiko (14:30~15:00)

2SC-10 Special Lecture Reactions of Grignard Reagents Catalyzed Cooperatively by Iron and Copper Complexes (Graduate school of Science, Kyoto Univ.) SHIRAKAWA, Eiji

Chair: SHIRAKAWA, Eiji (15:00~15:20)

2SC-11 Special Lecture Synthetic Organic Reactions Catalyzed by Cobalt (Graduate school of Engineering, Kyoto Univ.) YORIMITSU, Hideki; OSHIMA, Koichiro

Chair: YORIMITSU, Hideki (15:30~15:50)

2SC-12 Special Lecture Manganese-Catalyzed Synthetic Organic Reactions (Okayama Univ. Graduate School of Natural Science and Technology) KUNINOBU, Yoichiro; TAKAI, Kazuhiko

Chair: KUNINOBU, Yoichiro (15:50~16:10)

2SC-13 Special Lecture Nickel Catalyzed Efficient Carbon-Carbon Bond Formation (NAGASAKI UNIV. FACULTY OF ENGINEERING) KIMURA, Masanari

Chair: KIMURA, Masanari (16:10~16:30)

2SC-14 Special Lecture Nickel-catalyzed Insertion of Unsaturated Compounds into C-H and C-C Bonds (Kyoto Univ.) NAKAO, Yoshiaki; HIYAMA, Tamejiro

Chair: NAKAO, Yoshiaki (16:30~17:00)

2SC-15 Special Lecture (Graduate School of Engineering, Osaka Univ.) OGOSHI, Sensuke

New Generation of Bioinorganic Chemistry

Monday, March 30, AM

Chair: ITOH, Shinobu (9:30~10:15)

4SC-01 Special Program Lecture Opening Remarks (RIKEN) SHIRO, Yoshitsugu

4SC-02 Special Program Lecture Attraction of 6 group metal enzyme reaction centers from the viewpoint of synthetic chemistry and potentiality of their synthetic analogues (Graduate School of Science, Osaka City Univ.) SUGIMOTO, Hideki

4SC-03 Special Program Lecture Small Molecule Activation on Dinuclear Complexes Bridged by Chalcogenides (Graduate School of Science, Nagoya Univ.) MATSUMOTO, Tsuyoshi

Chair: AONO, Shigetosh (10:15~10:55)

4SC-04 Special Program Lecture Molecular Mechanism of Heme Oxygenase (IMRAM, Tohoku Univ.) MATSUI, Toshitaka

4SC-05 Special Program Lecture Enzymes Involved in Indolocarbazole Biosynthesis: Structure, Theory, and Mechanism (RIKEN • Spring-8) NAGANO, Shingo; SHIRO, Yoshitsugu; ONAKA, Hiroyasu; ASAMIZU, Shumpei; Sason Shaik

Chair: TOKITA, Yuichi (11:00~11:40)

4SC-06 Special Program Lecture Development of Valuable Molecular Tools Based on Functional Models for Metalloenzymes (Doshisha Univ. Faculty of Science and Engineering) HITOMI, Yutaka

4SC-07 Special Program Lecture Studies of Coordination Chemistry Using Protein Matrices as Research Tools (Graduate School of Engineering, Osaka Univ.) MATSUO, Takashi

Chair: HAYASHI, Takashi (11:40~12:30)

4SC-08 Special Program Lecture Industrial manufacturing of specialty chemicals by metal-containing enzyme, Nitrile Hydratase (MITSUBISHI RAYON CO.,LTD.) MIZUNASHI, Wataru

4SC-09 Special Program Lecture Can a protein be used as an molecular-based device? (Sony Corp.) GOTO, Yoshio

4SC-10 Special Program Lecture Closing Remarks (Graduate School of Science, Nagoya Univ.) WATANABE, Yoshihiro

Room SD

Bldg.11 1141

Concerto Catalysis in Multiple Reaction Spheres

Friday, March 27, AM

Chair: URATA, Hisao (9:30~10:35)

1SD-01 Special Program Lecture opening address (IMS) UOZUMI, Yasuhiro

1SD-02 Special Program Lecture Enantioselective Hydrogenation with Heterogeneous Catalyst in Water (Graduate School of Material Science, Univ. of Hyogo) SUGIMURA, Takashi

1SD-03 Special Program Lecture Catalyst Development with Surface-Immobilized, Compact Phosphine Silica-SMAP (Graduate School of Science, Tohoku Univ.) SAWAMURA, Masaya

1SD-04 Special Program Lecture Development of Catalytic Membrane-Installed Microreaction Devices (RIKEN) YAMADA, Yoichi M. A.

Chair: KOMIYA, Sanshiro (10:45~11:25)

1SD-05 Special Program Lecture Zeolite having high Si/Al ratio, as an heterogeneous single-site catalyst (Mitsubishi Chemical Co., Ltd.) SETOYAMA, Tohru; YAMAGUCHI, Masashi; TAKIGUCHI, Makoto; FUJII, Masaru

1SD-06 Special Program Lecture Novel Concerto Catalysts for Complete Oxidation of Volatile Organic Compounds at Moderate Temperatures (Graduate School of Engineering, Osaka Univ.) IMANAKA, Nobuhito

Chair: TADA, Mizuki (11:25~12:30)

1SD-07 Special Program Lecture Control of Multiple Contiguous Stereocenters Using Imidazoline-aminophenol/metal Catalyst (Graduate School of Science, Chiba Univ.) ARAI, Takayoshi

1SD-08 Special Program Lecture Redox-mediated Donor • Acceptor Bifunctional Catalyst (RCMS, Nagoya Univ.) KITAMURA, Masato

1SD-09 Special Program Lecture

1SD-10 Special Program Lecture Closing Remarks (Graduate School of Engineering, Tokyo Institute of Technology) IKARIYA, Takao

Room SE

Auditorium 大

CSJ Public Lecture

Saturday, March 28, PM

Chair: YOKOYAMA, Hiromi (13:30~14:20)

2SE-01 Special Lecture How can we manage the natural disaster, earthquake or climate change. ~Present is key for future~ (Japan

Broadcasting Corporation) YAMAGUCHI, Masaru

Chair: KONDOH, Hiroshi (14 : 20~15 : 00)

2SE-02 Special Lecture (Nagoya Univ.) OHMINE, Iwao

Chair: SHIONOYA, Mitsuhiro (15 : 10~15 : 50)

2SE-03 Special Lecture Evolution of Life: from Darwin to modern biology (Director, Komaba Natural Science Museum, The Univ. of Tokyo) ITO, Motomi

Chair: KANO, Naokazu (15 : 50~16 : 30)

2SE-04 Special Lecture (Department of Aeronautics and Astronautics, Graduate School of Engineering, The Univ. of Tokyo) NISHINARI, Katsuhiko

Chair: OZAWA, Takeaki (16 : 30~17 : 10)

2SE-05 Special Lecture (CALPIS Co., LTD) EZAWA, Kunio

Room S1

Bldg.13 1325

ATP Plenary Lecture

Friday, March 27, PM

Chair: TAKAHASHI, Satomi (13 : 00~14 : 00)

1S1-01 ATP Keynote Lecture (Shimadzu Corporation.) TANAKA, Koichi

Room A1

Bldg.14 1421

The Forefront of Technology and Materials for Ultrafine Patterning

Friday, March 27, PM

EUV Lithography

Chair: TAGAWA, Seiichi (14 : 30~16 : 40)

- 1A1-34** Introduction Talk (ISIR, Univ. of Osaka) TAGAWA, Seiichi
1A1-36 ATP Special Invite Lecture Current Status of EUV Resist Materials & Processing (Selete) ITANI, Toshiro
1A1-40 ATP Special Invite Lecture Our Approaches To EUV Resist Materials (FUJIFILM Corp.) OHSHIMA, Naoto
1A1-44 ATP Invite Lecture Development of Double Patterning Material for 32nm Node and Beyond (JSR corporation, Semiconductor Material Laboratories) FUJIWARA, Koichi

Saturday, March 28, AM

EUV Lithography

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

- 2A1-07 ATP Keynote Lecture** (Selete) MORI, Ichiro
2A1-12 ATP Special Invite Lecture EUV resist development in Tokyo Ohka Kogyo Co., Ltd (TOKYO OHKA KOGYO CO., LTD.) ONODERA, Junichi; IWAI, Takeshi; HIRAYAMA, Taku; MIMURA, Takeyoshi; IWASHITA, Jun
2A1-16 ATP Invite Lecture Materials Development of Negative Tone Imaging for ArF Double Patterning Process (FUJIFILM Corp.) TARUTANI, Shinji

Saturday, March 28, PM

Chair: MORI, Ichiro (13 : 30~15 : 20)

- 2A1-28 ATP Special Invite Lecture** Latent image formation in EUV resists (ISIR, Osaka Univ.) KOZAWA, Takahiro; TAGAWA, Seiichi
2A1-32 ATP Special Invite Lecture EUV lithography material Development (Semiconductor Materials Research Laboratories, JSR Corp.) SHIMOKAWA, Tsutomu; KAI, Toshiyuki; MARUYAMA, Ken; SHIMIZU, Makoto; HIRAI, Yuuki
2A1-36 ATP Invite Lecture Development of Highly Sensitive Molecular Resist Based on New Amorphous Molecule (Corporate Research & Development Center, TOSHIBA CORPORATION, Semiconductor Company, TOSHIBA CORPORATION) HATTORI, Shigeki; YAMADA, Arisa; SAITO, Satoshi; ASAKAWA, Koji; KOSHIBA, Takeshi; NAKASUGI,

Tetsuro

Chair: OONISHI, Yasunobu (15 : 30~16 : 20)

2A1-40 Oral D The application of magnetic polishing technology to Post-CMP process (Grad. School of Eng., Utsunomiya Univ.) YOSHIIHARA, Sachio; CHIKUGO, Yuka

2A1-43 Oral C Development of Positive-tone Chemically Amplified Molecular Resist Based on Fullerene Derivative (ISIR, Univ. of Osaka) YAMAMOTO, Hiroki; KOZAWA, Takahiro; TAGAWA, Seiichi; ANDO, Tomoyuki; OHMORI, Katsumi; SATO, Mitsuru; ONODERA, Junichi

Room A2

Bldg.14 1422

The Forefront of Technology and Materials for Ultrafine Patterning

Friday, March 27, AM

Nanoimprint

Chair: HIROSHIMA, Hiroshi (9 : 00 ~10 : 40)

- 1A2-01** Opening Remarks (Univ. of HYOGO) MATSUI, Shinji
1A2-02 ATP Keynote Lecture Present Status of Nanoimprint Technology Development in the World (Univ. of HYOGO) MATSUI, Shinji
1A2-07 ATP Special Invite Lecture Recent trends in Nanoimprint process and technical issues for its industrialization (TOSHIBA MACHINE CO.,LTD) GOTO, Hiroshi

Chair: MATSUI, Shinji (10 : 50~12 : 10)

- 1A2-12 ATP Special Invite Lecture** Nano-scale patterning by chemically directed self-assembly of block copolymer (Materials Research Laboratory, Hitachi Ltd.; Department of Polymer Chemistry, Graduate School of Engineering, Kyoto Univ.; San Jose Research Center, Hitachi Global Storage Technologies) YOSHIDA, Hiroshi; TADA, Yasuhiko; AKASAKA, Satoshi; Ricardo, Ruiz; Elizabeth, Dobisz; Dan, Kercher; TAKENAKA, Mikihito; HASEGAWA, Hirokazu; Thomas, R. Albrecht
1A2-16 ATP Special Invite Lecture Study on resist forming process and material properties in Nanoimprint lithography (Graduate School of Engineering, Osaka Prefecture Univ.) HIRAI, Yoshihiko

Friday, March 27, PM

Nanoimprint

Chair: HIRAI, Yoshihiko (14 : 30~16 : 00)

- 1A2-34 ATP Special Invite Lecture** UV-Nanoimprint lithography (Advanced Manufacturing Research Institute, AIST) HIROSHIMA, Hiroshi
1A2-38 ATP Invite Lecture UV-curable Resins for Nanoimprint (DAICEL CHEMICAL INDUSTRIES, LTD.) MIYAKE, Hiroto; YUKAWA, Takao; YOSHI, Shuso
1A2-41 Oral C Transfer Film for UV Curing Type Nanoimprinting (Bridgestone Corporation) INAMIYA, Takato; HASHIMOTO, Masashi; KOTSUBO, Hidefumi; MORIMURA, Yasuhiro

Chair: MIYAKE, Hiroto (16 : 10~18 : 00)

- 1A2-44 ATP Invite Lecture** Quartz Mold Fabrication for UV nanoimprint (HOYA CORPORATION) NAGAREKAWA, Osamu
1A2-47 ATP Invite Lecture Fabrication of Nanoimprint Molds (NTT-AT Nanofabrication Corporation) DEGUCHI, Kimiyoshi
1A2-50 ATP Invite Lecture Introduction of TOK nanoimprint materials (TOKYO OHKA KOGYO CO., LTD.) TAKAGI, Toshiya; TAKEUCHI, Yoshiyuki; MAEDA, Masatoshi; SHIMATANI, Satoshi
1A2-53 Oral C Development of microfabrication technology of thermal-responsive gel sheet (Toyama Industrial Technology Center,JAIST) YOKOYAMA, Yoshiyuki; YAMAMURA, Shouhei; FUJIKI, Satoshi; TANINO, Katsumi; TAKAMURA, Yuzuru; TAMIYA, Eiichi

Room B1

Bldg.14 1431

The Latest Development of Display Materials

Friday, March 27, AM

FPD

Chair: SHIMODAIRA, Yoshifumi (9:50~12:10)

- 1B1-06** Opening Remarks (Graduate School of Science and Technology, Shizuoka Univ.) SHIMODAIRA, Yoshifumi
1B1-07 ATP Invite Lecture Optical Films for LCD (NITTO DENKO CORP.) OOSUKA, Tatsuya
1B1-10 Incubation Time
1B1-11 ATP Invite Lecture A rollable TFT substrate for an active matrix LCDs (TRADIM) EGUCHI, Toshimasa; TAKECHI, Kazushige; AZUMA, Kazufumi
1B1-14 Incubation Time
1B1-15 ATP Special Invite Lecture Pleasant Image Processing for Hi-Fi Display (Organization for Academic-industrial Collaboration and Intellectual Property, Chiba Univ.) KOTERA, Hiroaki
1B1-19 Incubation Time

Friday, March 27, PM

Chair: KOTERA, Hiroaki (14:30~16:30)

- 1B1-34** ATP Invite Lecture Current Status of FED (Research Institute of Electronics, Shizuoka Univ.) MIMURA, Hidenori
1B1-37 Incubation Time
1B1-38 ATP Invite Lecture (Panasonic Corp., AVC Networks Company) KAWAHARA, Isao
1B1-41 Incubation Time
1B1-42 ATP Invite Lecture Trend and Prospect in Development of LCDs (SHARP Corp.) ISHII, Yutaka
1B1-45 Incubation Time

Saturday, March 28, AM

Electronic Paper

Chair: KOBAYASHI, Norihisa (9:00~11:20)

- 2B1-01** Opening Remarks (Chiba Univ, Graduate Schools of Advanced Integration Science) KOBAYASHI, Norihisa
2B1-02 ATP Special Invite Lecture Electronic paper in the present situation and the future (Dai Nippon Printing Co., Ltd.) TAKAHASHI, Tatsumi
2B1-06 Incubation Time
2B1-07 ATP Invite Lecture An Approach to Seek Readable Electronic Paper (SCHOOL OF ENGINEERING, TOKAI UNIV.) OMODANI, Makoto; INOUE, Sonomi
2B1-10 Incubation Time
2B1-11 ATP Invite Lecture Electronic Paper QR-LPD by using Electronic Liquid Powder (Bridgestone Corp.) MASUDA, Yoshitomo
2B1-14 Incubation Time

Chair: TAKAHASHI, Tatsumi (11:20~12:30)

- 2B1-15** Oral C Reflective Real-Full-Color Display -Multi-layer Structure of Electrochromic Compounds- (RICOH Co.Ltd; YAMADA CHEMICAL Co. Ltd; CHIBA university) HIRANO, Shigenobu; SHIBUYA, Takeshi; YASHIRO, Tohru; MANABE, Yousuke; HAYASHI, Satoshi; NARIZUKA, Toshiro; TANAKA, Satomi; KOBAYASHI, Norihisa
2B1-17 Incubation Time
2B1-18 ATP Invite Lecture Color appearance of e-paper (Chiba Univ, Graduate Schools of Advanced Integration Science) YAGUCHI, Hirohisa
2B1-21 Incubation Time

Saturday, March 28, PM

Chair: KAWAGUCHI, Seigou (13:30~15:00)

- 2B1-28** ATP Special Invite Lecture (E-ink) KUWADA, Ryosuke
2B1-32 Incubation Time
2B1-33 ATP Invite Lecture Preservation of Writing and Printing Paper (Paper Museum) TSUJIMOTO, Naohiko
2B1-36 Incubation Time

Chair: HIRO, Tomoki (15:00~17:10)

- 2B1-37** ATP Invite Lecture Display devices with electrochromic materials (NRI, AIST; Yamagata Univ.) KAWAMOTO, Tohru; TANAKA, Hisashi; KURIHARA, Masato; SAKAMOTO, Masatomi
2B1-40 Incubation Time

- 2B1-41** ATP Special Invite Lecture Development of Polymer Microspheres Applicable to Electric Paper (Graduate School of Science and Engineering, Yamagata Univ.) KAWAGUCHI, Seigou

2B1-45 Incubation Time

- 2B1-46** ATP Invite Lecture Color Photo-Addressable Electronic Paper (Fuji Xerox Co., Ltd.) HARADA, Haruo

2B1-49 Incubation Time

Room B2

Bldg.14 1432

The Latest Development of Display Materials

Friday, March 27, AM

OLED:Materials(1)

Chair: NOZAKI, Koichi (9:30~12:00)

- 1B2-04** Opening Remarks (School of Materials Science, JAIST) MURATA, Hideyuki
1B2-05 ATP Keynote Lecture Molecular Design of Organic Light-emitting materials and the behavior of the excited states (Tsukuba Univ.) TOKUMARU, Katsumi
1B2-10 ATP Invite Lecture New Electron Transport Materials achieving the Low Power Consumption and Long Lifetime (TOSOH CORPORATION; Sagami Chemical Research Center) TANAKA, Tsuyoshi; AIHARA, Hidenori
1B2-13 ATP Invite Lecture Development of Toray Organic EL Material (Electronic & Imaging Materials Research Laboratories, Toray Industries, Inc.) TANAKA, Daisaku
1B2-16 ATP Invite Lecture Latest Challenges to Create High-performance OLED (Idemitsu Kosan Co., Ltd.) IWAKUMA, Toshihiro

Friday, March 27, PM

OLED:Materials(2)

Chair: SUZURI, Yoshiyuki (14:30~17:00)

- 1B2-34** ATP Special Invite Lecture Analyses and theoretical predictions of photophysical properties of highly emissive transition metal complexes (TOYAMA Univ.) NOZAKI, Koichi
1B2-38 ATP Invite Lecture Development of Novel Blue and Green Phosphorescent Materials for Organic Electroluminescent Devices (FUJIFILM Corporation) ISE, Toshihiro
1B2-41 Oral C Electroluminescent Properties of Blue Emissive Iridium Complexes with Tridentate Ligands (Idemitsu KosanCo.,Ltd.; Chuo Univ.) OKUDA, Fumio; OGIWARA, Toshinari; NAGASHIMA, Hide-aki; ASHIZAWA, Misa; HAGA, Masa-aki
1B2-43 ATP Invite Lecture High Efficient Phosphorescent Organic Light Emitting Diodes with a Double-Emitting Layer Structure (HNK Science & Technical Research Laboratories) FUKAGAWA, Hirohiko; TOKITO, Shizuo
1B2-46 ATP Invite Lecture Horizontal molecular orientation in organic amorphous films and its effects on device characteristics (Kyushu Univ. Center for Future Chemistry; J.A.Woollam Japan Corp.) YOKOYAMA, Daisuke; SAKAGUCHI, Akio; SUZUKI, Michio; ADACHI, Chihaya

Saturday, March 28, AM

OLED:Analytical Technology(1)

Chair: MORI, Tatsuo (9:00~10:50)

- 2B2-01** ATP Special Invite Lecture Interfacial electronic structures of organic electronics (CENTER FOR FRONTIER SCIENCE, CHIBA Univ.) ISHII, Hisao
2B2-05 ATP Invite Lecture Raman and Infrared Spectroscopic Analyses of Organic Light-Emitting Diodes (WASEDA Univ. School of Advanced Science and Engineering) FURUKAWA, Yukio
2B2-08 ATP Invite Lecture Analysis of Charge Transport in Organic LEDs (Institute for Chemical Research, Kyoto Univ.) KAJI, Hironori; YAMADA, Tomonori; KAWAGUCHI, Hisafumi
2B2-11 Incubation Time

OLED:Analytical Technology(2)

Chair: KAJI, Hironori (10:50~12:30)

- 2B2-12** ATP Special Invite Lecture Analysis of Electronic Conduction in Organic Light Emitting Diode with Device Simulation (Graduate School of Information Science and Electrical Engineering, KYUSHU UNIV.) HATTORI, Reiji
2B2-16 ATP Invite Lecture Charge-carrier injection and transport in

organic thin films (School of Materials Science, JAIST) MATSUSHIMA, Toshinori; JIN, Guang-He; KANAI, Yoshihiro; KITADA, Seiki; KISHI, Toshiyuki; YOKOTA, Tomoyuki; MURATA, Hideyuki

2B2-19 ATP Invite Lecture Carrier Dynamics in a Multilayer OLED Device Probed by Impedance Spectroscopy (FUJIFILM Corporation) OGAWA, Kyohei; KAWATO, Kouji; KINOSHITA, Masaru; SATOU, Tasaku; TOBISE, Manabu; MISHIMA, Masayuki

Saturday, March 28, PM

OLED:Device Technology

Chair: MISHIMA, Masayuki (13:30~15:20)

2B2-28 ATP Special Invite Lecture Optical Simulation Analysis of Organic Light Emitting Devices and Enhancement Technology of Out Coupling Efficiency (KANAZAWA INSTITUTE OF TECHNOLOGY) MIKAMI, Akiyoshi; KOYANAGI, Takahiro

2B2-32 ATP Invite Lecture State of the arts WOLED Technology applied for large OLED display (KODAK JAPAN LTD. OLED Systems) YONEDA, Kiyoshi

2B2-35 ATP Invite Lecture Polymer Light Emitting Diode (SHARP Corp.; Nara Institute of Science and Technology) KODEN, Mitshuhiro; YAMAMOTO, Emi; UCHIDA, Hideki; MITSUI, Seiichi

2B2-38 Incubation Time

OLED:Manufacturing Technology

Chair: KODEN, Mitsuhiro (15:20~16:50)

2B2-39 ATP Invite Lecture (DAINIPPON SCREEN MFG. CO., LTD.) ABE, Makoto

2B2-42 ATP Invite Lecture Evaporation System with Very Low Organic Material Consumption (ULVAC, Inc.) FUJIMOTO, Hiroshi; NAKAMURA, Toshimitsu; KOSHIDA, Tatsuhiko; HIRAIWA, Hideyuki; NEGISHI, Toshio

2B2-45 ATP Invite Lecture Current technology of OLED manufacture, and future technology (TOKKI CORPORATION) MATSUMOTO, Eiichi

Room A3

Bldg.14 1423

Recent Advances in Optical Materials

Friday, March 27, AM

Polymer Optical Materials

Chair: KOIKE, Yasuhiro (11:00~12:00)

1A3-13 Introduction Talk (Keio Univ.) KOIKE, Yasuhiro

1A3-14 ATP Keynote Lecture Potential and application of electro-optical polymers (TOHOKU Univ.) KAINO, Toshikuni

Friday, March 27, PM

Chair: KOIKE, Yasuhiro (14:20~15:40)

1A3-33 ATP Special Invite Lecture Recent Development of Optical Polymeric Material (Polytechnic Institute of NYU • Research Professor) OKAMOTO, Yoshiyuki

1A3-37 ATP Special Invite Lecture Development of Noncontact Rewritable Label Systems by a Laser Light (RIKEN, Supramolecular Science Laboratory) WADA, Tatsuo

Chair: FUNAKI, Yoshinori (15:50~17:10)

1A3-42 ATP Special Invite Lecture Development of polymer waveguide and its application to optical interconnection technology (NEC Corp. Nano Electronics Research Laboratories) NAKANO, Kaichiro; MAEDA, Katsumi; KOUTA, Hikaru; KURATA, Kazuhiko; URANO, Yuichi; ANDO, Shinji

1A3-46 Oral C Advances in optical properties of polymer optical waveguide using polysilane material with novel photo-sensitizer system (Nippon Paint Co., Ltd.) SUZUKI, Yasuhiro; TSUSHIMA, Hiroshi

1A3-48 Oral C Development of optical fiber materials for home-network (Keio Univ.) KOIKE, Kotaro; SATOH, Zen; KADO, Takahiro; OKAMOTO, Yoshiyuki; KOIKE, Yasuhiro

Saturday, March 28, AM

Organic Optical Materials

Chair: INOUE, Shin-ichiro (10:00~11:30)

2A3-07 Introduction Talk (IMCE, Kyushu Univ.) YOKOYAMA, Shiyoshi

2A3-08 ATP Special Invite Lecture Photonic Devices using Liquid

Crystal Nanostructures (Tokyo Institute of Technology) ARAOKA, Fumito; TAKEZOE, Hideo

2A3-12 ATP Special Invite Lecture Present Situation and Future Prospects of Fast Liquid Crystal Materials (IMCE, Kyushu Univ.) KIKUCHI, Hirotsugu

Saturday, March 28, PM

Chair: INOUE, Shin-ichiro (14:00~14:40)

2A3-31 ATP Special Invite Lecture Self-Organized Photonic Crystals of Organic ad Polymer Materials for Optical Device Applications (Opitronic Materials Center, NIMS) FURUMI, Seiichi

Chair: KIKUCHI, Hirotsugu (14:40~16:10)

2A3-35 ATP Special Invite Lecture Status of Photonic Polymer towards Fiber-To-The-Display (Keio Univ.) KOIKE, Yasuhiro

2A3-39 Oral C Development of nonlinear optical devices in two-dimensional polymer photonic crystals (Kyushu Univ.) INOUE, Shin-ichiro; YOKOYAMA, Shiyoshi

2A3-41 ATP Invite Lecture Time-Correlated Single Photon Counting Systems under High Vacuum Conditions and Analysis of Fluorescent Characteristics of Single Emitters (NiCT) YAMADA, Toshiki; GOUSHI, Kenichi; OTOMO, Akira

Room A4

Bldg.14 1424

Recent Advances in Optical Materials

Friday, March 27, AM

Inorganic Optical Materials

Chair: NISHII, Junji (10:00~12:00)

1A4-07 Introduction Talk (AIST) NISHII, Junji

1A4-08 ATP Special Invite Lecture Preparation of silica and organic-inorganic hybrid thin films using polysilazane as precursor and their properties (Fac. of Chem., Mater. Bioeng., Kansai Univ) KOZUKA, Hiromitsu; YAMANO, Akihiro; KAWAMURA, Takanori; FUJITA, Masahiro

1A4-12 ATP Invite Lecture Preparation of monodisperse spherical ceramics nano-particles (AIST) MATSUBARA, Ichiro; IZU, Noriya; ITOH Toshio

1A4-15 ATP Special Invite Lecture Development of Photo-functional Metal Chalcogenide Nanocrystals (Nara Inst. of Sci. and Technol.) KAWAI, Tsuyoshi

Friday, March 27, PM

Chair: FUJIWARA, Takumi (14:20~15:50)

1A4-33 ATP Special Invite Lecture Optical Oxynitrides Prepared by Nitridation through Gelation (Hokkaido Univ.) KIKKAWA, Shinichi

1A4-37 ATP Invite Lecture Development of automotive IR-cut glasses (Central Glass Co., Ltd.) KUMON, Soichi

1A4-40 Oral C Fabrication of colloidal crystal Laser using Monodispersed Mesoporous silica spheres (Toyota Central R&D Labs., inc.) YAMADA, Hisashi; NAKAMURA, Tadashi; YAMADA, Yuri; YANO, Kazuhisa

Chair: TAKAHASHI, Masahide (16:00~17:40)

1A4-43 ATP Special Invite Lecture Localization and Amplification of Light in Multiple Scattering Media Prepared by Using Liquid-Phase Reactions (Kyoto Univ.) FUJITA, Koji

1A4-47 ATP Invite Lecture Development of space-selectively fiber and their applications (ASAHI GLASS CO., LTD) OHARA, Seiki; MASAI, Hirokazu; TAKAHASHI, Yoshihiro; FUJIWARA, Takumi; KONDO, Yuki; SUGIMOTO, Naoki

1A4-50 ATP Invite Lecture Development of Optical Glasses for Anti-Reflection Lenses via Imprinting Process (Nihon Yamamura Glass Co., Ltd.; AIST) NAKAMURA, Junichi; KITAMURA, Naoyuki; NISHII, Junji

Room B8

Bldg.14 1444

The Development Forefront of Materials for Print and Data Storage

Friday, March 27, AM

Chair: KOSEKI, Kenichi (9:00~12:00)

- 1B8-01** Opening Remarks (Chiba Univ., Grad. Sch. of Advanced Integration Science) KOSEKI, Kenichi
- 1B8-02 ATP Keynote Lecture** Application of Ink Jet Technology for Electronics (ICTECH corporation) TERAUCHI, Kenichi
- 1B8-07 ATP Special Invite Lecture** Application to the field of electronics of NanoPaste® (Harima Chemicals, Inc.) UEDA, Masayuki; TERADA, Nobuto; MATSUBA, Yorishige
- 1B8-11 ATP Special Invite Lecture** Development of a New Cationic UV Curable Inkjet Ink (Konica Minolta Holdings, Inc.) TOMOTAKE, Atsushi; NAKAJIMA, Atsushi; KIDA, Shuji
- 1B8-15 ATP Special Invite Lecture** Inkjet Micro Liquid Process (SEIKO EPSON CORPORATION) SAKAI, Shinri

Friday, March 27, PM

Chair: SHIMURA, Tsutomu (14:30~17:30)

- 1B8-34** Opening Remarks (IIS, The Univ. of Tokyo) SHIMURA, Tsutomu
- 1B8-35 ATP Keynote Lecture** Basics and applications of Holography (CST, Nihon Univ.) YOSHIKAWA, Hiroshi
- 1B8-40 ATP Special Invite Lecture** (IIS, The Univ. of Tokyo) SHIMURA, Tsutomu
- 1B8-44 ATP Special Invite Lecture** (Faculty of Science, Japan Women's Univ.) WATANABE, Eriko; KODATE, Kashiko
- 1B8-48 ATP Special Invite Lecture** Hologram applications and its future developments (Technical Research Institute, TOPPAN PRINTING CO., LTD) TAKAHASHI, Susumu

Room B3

Bldg.14 1433

Future Materials

Friday, March 27, AM

Advanced Functional Materials

Chair: SHIMAKAWA, Yuichi (9:50~12:00)

- 1B3-06** Opening Remarks (Tokyo Institute of Technology) HOSONO, Hideo
- 1B3-07 Oral C** A Novel Synthesis of Fullerene Derivatives using FeCl₃ - For the industrialization of the fullerene derivatives - (Mitsubishi Chemical Corporation) HASHIGUCHI, Masahiko; WATANABE, Kazuhiro
- 1B3-09 Oral C** Development of Plasma Treatment Technique for Reductively-Sintering Cu Nanoparticle layer at low Temperature (Dai Nippon Printing Co.,Ltd.; Micro DenshiCo.,Ltd.; Consultant Office PTC) HOUJOU, Mikiko; YONEDA, Shinya; YOSHI, Naonobu; TAKE, Seiji; TAKIZAWA, Tsutomu; SAKAMOTO, Yuichi
- 1B3-11 Oral C** Synthesis of Low-temperature Sinterable Copper Ultra Fine Particles and their Application for Electroconductive Materials (ISHIHARA SANGYO KAISHA, LTD) IDA, Kiyonobu; TOMONARI, Masanori
- 1B3-13 Oral D** Local Thermal Analysis by Nano-Thermal Analysis (Nihon Thermal Consulting Co.) URAYAMA, Norio; KJOLLER, Kevin; KASUGA, Chisaka
- 1B3-16 Oral D** Syntheses and Physical Properties of Thermostable Titanium Precursors for CVD and ALD Thin Film Formations. (Sagami Chemical Research Center; TOSOH Corporation) YAMAMOTO, Toshiki; TADA, Ken-ichi; IWANAGA, Kouhei; INABA, Koichiro; FURUKAWA, Taishi; CHIBA, Hirokazu; MANIWA, Atsushi; YOTSUYA, Tadahiyo; YAMAKAWA, Tetsu; OSHIMA, Noriaki

Friday, March 27, PM

Advanced Functional Materials

Chair: YAMANAKA, Shoji (14:30~16:20)

- 1B3-34 ATP Keynote Lecture** New Areas born in Research on Transparent Oxides (Tokyo Institute of Technology) HOSONO, Hideo
- 1B3-39 ATP Invite Lecture** Organization of Oxide Nanosheets into

Highly Ordered Nanostructures and Their Applications (NIMS) SASAKI, Takayoshi; EBINA, Yasuo; OSADA, Minoru; SHIBATA, Tatsuo

1B3-42 ATP Invite Lecture New Functions of Nano Cluster Solids (Tohoku Univ.) TANIGAKI, Katumi

Chair: SASAKI, Takayoshi (16:30~18:00)

- 1B3-46 ATP Special Invite Lecture** Development of New Superconductors (Hiroshima Univ.) YAMANAKA, Shoji
- 1B3-50 ATP Invite Lecture** Crystal and Electronic Structures of Perovskite-Type Oxides: Exploring for New Functional Properties (Institute for Chemical Research, Kyoto Univ.) SHIMAKAWA, Yuichi
- 1B3-53 Oral C** Dispersed Multipolar Single-Nano Buckydiamond (SNBD) Particles (NanoCarbon Research Institute Limited) OSAWA, Eiji; YAJIMA, Motoyuki

Saturday, March 28, AM

Advanced Functional Materials

Chair: FUNAHASHI, Masahiro (10:10~12:00)

- 2B3-08 Oral C** Photo Acceleration of Molecular Transport in Azobenzene Modified Silica Column Chromatography (AIST-Kansai; Osaka Inst. Technol.) FUJIWARA, Masahiro; AKIYAMA, Minako; HATA, Momoko; SHIOKAWA, Kumi; NOMURA, Ryoki
- 2B3-10 Oral D** Structures and properties of core-shell type nano-hybrids of organic pigments and crystals (Toho Univ. Fac. Sci., Toho Univ. HRC, AIST, NRI) ICHIMURA, Kunihiko; HORIUCHI, Shin
- 2B3-13 Oral C** Photomechanical Crystals and the Molecular Machines (Ehime Univ.) KOSHIMA, Hideko; OJIMA, Naoko; TAKECHI, Kyoko; NAKAYA, Hidemitsu; UCHIMOTO, Hidetaka
- 2B3-15 ATP Special Invite Lecture** Photomobile Polymer Materials - Toward Light-Driven Plastic Motors- (Tokyo Institute of Technology) IKEDA, Tomiki

Saturday, March 28, PM

Advanced Functional Materials

Chair: MAJIMA, Yutaka (13:40~15:30)

- 2B3-29 ATP Special Invite Lecture** Atomic switch and nanoionics (NIMS WPI Ctr.(MANA)) AONO, Masakazu
- 2B3-33 ATP Invite Lecture** Giant Thermoelectric Seebeck Effect of Two-dimensional Electrons Confined in SrTiO₃ Crystal (Grad. Sch./Sch. of Eng., Nagoya Univ.) OHTA, Hiromichi
- 2B3-36 ATP Special Invite Lecture** Quantum Functionalities and Devices at Oxide/Organic Interfaces (TOHOKU Univ.) KAWASAKI, Masashi

Chair: IKEDA, Tomiki (15:40~17:30)

- 2B3-41 ATP Invite Lecture** Development of Single Electron Devices by Bottom-up Processes toward Room Temperature Operation (Tokyo Institute of Technology) MAJIMA, Yutaka
- 2B3-44 ATP Invite Lecture** Recent Development in Organic Ferroelectrics (AIST) HORIUCHI, Sachio
- 2B3-47 ATP Invite Lecture** Thin film formation of liquid crystalline semiconductors and their application to field-effect transistors (The Univ. of Tokyo) FUNAHASHI, Masahiro
- 2B3-50 Oral C** Gas permeation property and its morphology of thin dense layer prepared from blend polymer. (Mitsubishi Rayon Co.,Ltd.) UENISHI, Masamoto; MIZUTA, Masahiko; TERAMACHI, Masashi; FUKUSHIMA, Noriaki

Room B4

Bldg.14 1434

Future Materials

Friday, March 27, AM

Nano-catalyst Materials

Chair: KITAGAWA, Hiroshi (9:20~10:20)

- 1B4-03** Opening Remarks (Nagoya Inst. of Technol.) MASUDA, Hideki
- 1B4-04 ATP Keynote Lecture** New Developments in the Preparation of Mesoporous Materials and the Possibility as Innovative Nanomaterials (Waseda Univ.) KURODA, Kazuyuki

Chair: MIZUNO, Noritaka (10:20~11:30)

- 1B4-09 ATP Invite Lecture** Synthesis of novel nanomaterials using carbon nanospace (Nagoya Univ.) KITAURA, Ryo
- 1B4-12 ATP Special Invite Lecture** Aqua-nano Catalysts for Activation of Dihydrogen in Water (Kyushu Univ.) OGO, Seiji

Chair: KITAGAWA, Susumu (11:30~12:30)

- 1B4-16 Oral C** Hydrogen Evolution Reaction Catalyzed by The Redox Cycle of 4,4'-Bipyridine Adsorbed on Ag electrodes (Hokkaido Univ.) UCHIDA, Taro; YAMAKATA, Akira; SASAKI, Youichi; OSAWA, Masatoshi
- 1B4-18[#] ATP Special Invite Lecture** Metal-organic framework material - potential use in chemical industry (BASF) Ulrich Mueller

Friday, March 27, PM

Nano-catalyst Materials

Chair: OGO, Seiji (14:30~15:40)

- 1B4-34 ATP Special Invite Lecture** Reaction in Nano Space (Kyushu Univ.) KITAGAWA, Hiroshi
- 1B4-38 ATP Invite Lecture** Redesigning Protein Assemblies for Nano-catalysts (iCeMS, Kyoto Univ.) UENO, Takafumi
- Chair: TADA, Mizuki (15:40~16:40)
- 1B4-41 ATP Invite Lecture** Preparation of Metal Nanoparticle as a Catalyst for Environmentally Benign Reactions (Graduate School of Engineering Science, Osaka Univ.) JITSUKAWA, Koichiro
- 1B4-44 ATP Invite Lecture** Catalytic Polymerizations in Coordination Nanospaces (Kyoto Univ.) UEMURA, Takashi

Chair: UENO, Takafumi (16:40~18:00)

- 1B4-47 ATP Special Invite Lecture** Design of Highly Functionalized Nano-Structured Catalysts by Hierarchical Three-Dimensional Control of Structures and Morphologies (The Univ. Tokyo Sch. of Eng. Dept. of Bioeng.) MIZUNO, Noritaka
- 1B4-51 ATP Special Invite Lecture** Advanced Design and Characterization of Catalytically Active Structures at Surfaces (IMS) TADA, Mizuki

Saturday, March 28, AM

Bio-mimetic Catalysts

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

- 2B4-04 ATP Keynote Lecture** Metal Catalyzed Reversible Conversion Between Chemical Energy and Electrical One Intended to Build a Sustainable Society (IMS) TANAKA, Koji

Chair: NARUTA, Yoshinori (10:20~12:00)

- 2B4-09 ATP Special Invite Lecture** Syntheses and Characterization of Multinuclear Metal Complexes exhibiting Catalytic Activity toward the Water Decomposition Reactions (Kyushu Univ.) SAKAI, Ken
- 2B4-13 ATP Invite Lecture** Nitrogen Fixation by Using Metal-Sulfido Clusters (Inst. of Industrial Sci., The Univ. of Tokyo) MIZOBE, Yasushi
- 2B4-16 ATP Invite Lecture** Homogeneous Catalytic Reduction of Carbon Dioxide to Methane (RIKEN Advanced Science Institute) MATSUO, Tsukasa

Saturday, March 28, PM

Bio-mimetic Catalysts

Chair: HISAEDA, Yoshio (13:50~15:40)

- 2B4-30 ATP Special Invite Lecture** Enzymes Operating in Energy Conversion and Catalysts: Problems and Prospects Lying between Ideals and Facts (IMCE, Kyushu Univ.) NARUTA, Yoshinori
- 2B4-34 ATP Special Invite Lecture** Improvement of Cytochrome P450 for Practical Use (Tokyo Univ. Agri. & Technol., Dept. of Biotechnol. & Life Science) NAKAMURA, Nobuhumi
- 2B4-38 ATP Invite Lecture** Chemical Catalysis for the Hydration of Nitriles that Exceeds Restrictions of Biocatalysis (Grad. Sch. of Natural Science and Technology, Okayama Univ.) OSHIKI, Toshiyuki

Chair: SAKAI, Ken (15:40~17:30)

- 2B4-41 ATP Invite Lecture** Design of Bio-inspired Oxidation Catalysts Based on the Active Centers of Metalloenzymes (Nagoya Inst. of Technol.) MASUDA, Hideki
- 2B4-44 ATP Special Invite Lecture** Design of Bio-inspired Catalysts with Vitamin B12-dependent Enzyme Functions and Their Application for Dehalogenation of Organic Halide Pollutants (Kyushu Univ., Grad. School. Eng.) HISAEDA, Yoshio
- 2B4-48 ATP Special Invite Lecture** Design, Synthesis and Biological application of Molecular probes for Visualizing Biological functions (Grad. Sch. of Eng., Osaka Univ.) KIKUCHI, Kazuya

Room H1

Bldg.11 1111

Environment

Friday, March 27, AM

Visible Light Responsive Photocatalysts

Chair: SAEKI, Yoshimitsu (9:00~10:00)

- 1H1-01** Opening Remarks (TOTO LTD.) SAEKI, Yoshimitsu
- 1H1-02 ATP Keynote Lecture** Photocatalyst NEDO project; Frontier towards new market (Sch. of Eng. The Univ. of Tokyo) HASHIMOTO, Kazuhito

Chair: HASHIMOTO, Kazuhito (10:00~11:10)

- 1H1-07 ATP Special Invite Lecture** Ecological Contribution of Photocatalyst Applied Products (TOTO LTD.) SAEKI, Yoshimitsu
- 1H1-11 ATP Invite Lecture** Study on antiviral activity of photocatalytic TiO₂ (Yokohama City Univ.) KUBOTA, Yoshinobu

Chair: KUBOTA, Yoshinobu (11:20~12:30)

- 1H1-15 ATP Special Invite Lecture** Highly efficient WO₃ photocatalyst loaded with co-catalysts for environmental purification under visible light (Energy Technology Research Institute, AIST) SAYAMA, Kazuhiro
- 1H1-19 ATP Invite Lecture** Development of high-sensitive photocatalyst materials (Showa Titanium Co. Ltd.) KURODA, Yasushi

Friday, March 27, PM

Visible Light Responsive Photocatalysts

Chair: KURODA, Yasushi (14:10~15:40)

- 1H1-32 ATP Special Invite Lecture** Development of highly efficient visible light responsive photocatalysts based on tungsten oxide (Hokkaido Univ.) ABE, Ryu
- 1H1-36 Oral C** Visible-light-induced photocatalytic oxidation of gaseous organic substances over N-doped TiO₂ loaded with Fe, Cu or Pt. (Toyota Central Research and Development Labs., Inc.) MORIKAWA, Takeshi; OHWAKI, Takeshi
- 1H1-38 ATP Invite Lecture** (Panasonic Electric Works, Ltd) TAKAHAMA, Koichi

Chair: TAKAHAMA, Koichi (15:40~16:30)

- 1H1-41 ATP Invite Lecture** Nanostructured Tungsten Oxide for Super-Hydrophilic Film (NRI, AIST) MIYAUCHI, Masahiro; SHIBUYA, Masachika
- 1H1-44 Oral C** Photocatalytic activity of organic semiconductors in water phase (ILE Osaka Univ.; Hirosaki Univ.) NAGAI, Keiji; ABE, Toshiyuki; YASUDA, Yuzuri

Chair: ABE, Ryu (16:30~17:50)

- 1H1-46 ATP Special Invite Lecture** Research and Development of Novel Visible Light Sensitive Photocatalytic Materials (Photocatalytic Materials Center, NIMS) YE, Jinhua; KAKO, Tetsuya; WANG, Defa; LI, Xiukai; CHEN Di, KIKUGAWA, Naoki
- 1H1-50[#] Oral C** Niobates Nanostructures: Synthesis and Enhanced Photocatalytic Activities (National Institute for Materials Science) CHEN, Di; YE, Jinhua
- 1H1-52 Oral C** Withdrawn

Chair: MIYAUCHI, Masahiro (17:50~18:30)

- 1H1-54[#] Oral C** Niobate Nanomaterials Derived from Isopoly-niobate Anions (National Institute for Materials Science) TONG, Hua; YE, Jinhua
- 1H1-56[#] Oral C** Preparation and Photocatalytic Properties of Nitrogen-doped Lamellar Solid Acids for Visible Light photocatalysis (Photocatalytic Materials Center, National Institute for Materials Science) LI, Xiukai; KIKUGAWA, Naoki; YE, Jinhua

Saturday, March 28, AM

Innovative Processes for Energy and Resource Conservation

Chair: TATSUMI, Takashi (9:50~10:50)

- 2H1-06** Opening Remarks (Chemical Resources Laboratory, Tokyo Institute of Technology) TATSUMI, Takashi
- 2H1-07 ATP Keynote Lecture** Examples of Developed Chemical Processes for Sustainability (Asahi Kasei Chemicals) NAGAHARA, Hajime

Chair: SHIMADA, Hiromichi (10:50~11:30)

- 2H1-12 ATP Special Invite Lecture** Possible Innovations in Chemical

Processes by Gold Catalysts (Tokyo Metro. Univ.) HARUTA, Masatake

Chair: HARUTA, Masatake (11:30~12:10)

2H1-16 ATP Special Invite Lecture Low-Carbon Chemical Industry -Ultimate Efficiency and Transfer to Renewable Resources (AIST) SHIMADA, Hiromichi

Saturday, March 28, PM

Innovative Processes for Energy and Resource Conservation

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

2H1-32 Oral C Highly Efficient Decomposition of Biomass and its Wastes by Biophotocatalytic Cell (BPCC) (The Institute of Biophotocatalysis Co. Ltd.) KANEKO, Masao; UENO, Hirohito; NEMOTO, Junichi
2H1-34 ATP Special Invite Lecture Diversification of fuels and feedstocks for chemicals (Nippon Oil Corp. Central Technical Research Laboratory) OKAZAKI, Hajime

Chair: INOUE, Kenji (15:10~16:40)

2H1-38 ATP Invite Lecture Development for Catalytic Conversion of Biomass (INSTITUTE OF MATERIALS SCIENCE, UNIVERSITY OF TSUKUBA) TOMISHIGE, Keiichi
2H1-41 ATP Invite Lecture Environmentally benign cellulose saccharification by using a heterogeneous catalyst (Materials and Structures Laboratory, Tokyo Institute of Technology) HARA, Michikazu
2H1-44 ATP Invite Lecture The Smart Hydrolysis of Nitriles Directed toward the Zero Emission Process (Graduate School of Natural Science and Technology, Okayama Univ.) OSHIKI, Toshiyuki

Chair: TADA, Keishi (16:40~17:50)

2H1-47 ATP Invite Lecture (DAICEL CHEMICAL INDUSTRIES, LTD.) NAKANO, Tatsuya
2H1-50 Oral C Development of flow-type microwave reactor for gas-phase and liquid phase chemical reaction (National Institute of Advanced Industrial Science and Technology (AIST)) NISHIOKA, Masateru; KASAI, Makoto; OKAMOTO, Tadashi; MATSUMURA, Takeko
2H1-52 Oral C High speed synthesis of heavy metal complexes with real time monitoring precise microwave reactors (Minerva Light Laboratory) MATSUMURA, Takeko; NISHIOKA, Masateru; OKAMOTO, Tadashi; SHIMIZU, Takehiko; MAYAMA, Nobuo

Room H2

Bldg.11 1112

Environment

Friday, March 27, AM

Energy-Conservative Separation Technology

Chair: KOBORI, Yoshihiro (9:00~10:40)

1H2-01 Opening Remarks (NIPPON OIL CORPORATION) KOBORI, Yoshihiro
1H2-02 ATP Keynote Lecture Perspective on Carbon Dioxide Capture and Storage (CCS) and Expectation for Capture Technology (Energy Technology Research Institute, AIST) NISHIO, Masahiro
1H2-07 ATP Special Invite Lecture Development of advanced reforming system for H₂ station using CO converter equipped with CO₂ facilitated transport membrane (Kobe Univ.) MATSUYAMA, Hideto; TERAMOTO, Masaaki; SHIMADA, Keiko; KUZUSHITA, Kaori; KAMIO, Eiji; OKADA, Osamu

Chair: MATSUYAMA, Hideto (10:40~12:10)

1H2-11 ATP Invite Lecture Application of Polymeric Membranes for CO₂ Separation (Graduate School of Urban Environmental Sciences, TOKYO METROPOLITAN UNIVERSITY) KAWAKAMI, Hiroyoshi
1H2-14 ATP Invite Lecture (Japan Coal Energy Center) KIGA, Takeshi
1H2-17 ATP Invite Lecture Development of environmentally-friendly CO₂ capture process for CCS (JGC Corp.) HORIKAWA, Aiko

Friday, March 27, PM

Chair: HENMI, Masahiro (14:10~14:50)

1H2-32 ATP Special Invite Lecture Separation and Reaction Processes Using Inorganic Membranes (Research Center for Compact Chemical Process, AIST) MIZUKAMI, Fujio

Chair: ITO, Akira (14:50~16:00)

1H2-36 ATP Special Invite Lecture Seawater Desalination Technol-

ogy with Reverse Osmosis Membrane (Global Environment Research Laboratories, Toray Industries, Inc.) HENMI, Masahiro

1H2-40 ATP Invite Lecture Fabrication of Efficient Nano-Separation Membranes by Using Inorganic Nanostrands (Organic Nanomaterials Center, NIMS) ICHINOSE, Izumi

Chair: ICHINOSE, Izumi (16:00~17:20)

1H2-43 ATP Invite Lecture Membrane Distillation -Principles, Applications and Recent Development- (Faculty of Engineering, Niigata Univ.) ITO, Akira

1H2-46 ATP Invite Lecture Selective Separation of Alcohol by Hydrophobic and Porous Glass Membrane (Research Institute for Innovation in Sustainable Chemistry, AIST) JIN, Tetsuro

1H2-49 Oral C Depolymerization of waste PET by microwave heating and re-polymerization using recovered terephthalic acid to PET (DAIWA CAN) YAMAMOTO, Masahiro; DEGURA, Tuyoishi; KAMEYAMA, Takehiko; IKENAGA, Kazutoshi

Room B5

Bldg.14 1441

New Energy Technology

Friday, March 27, PM

Next Generation Solar Cells

Chair: SEGAWA, Hiroshi (14:20~15:20)

1B5-33 Opening Remarks (RCAST, The Univ. of Tokyo) SEGAWA, Hiroshi
1B5-34 ATP Keynote Lecture Low carbon society explored by innovative solar photovoltaics (Research Center for Photovoltaics, AIST) KONDO, Michio

Chair: MIYASAKA, Tsutomu (15:30~16:30)

1B5-40 ATP Invite Lecture Low-temperature Growth of c-Si and its Related Thin Films By Chemical Vapor Deposition Featuring Chemical Reactions of Source Materials (Graduate School of Engineering, Tokyo Institute of Technology) HANNA, Jun-ichi
1B5-42 ATP Invite Lecture Development of new chemical processes for increasing efficiency and lowering production cost of crystalline silicon solar cells (RCSEC, Osaka Univ.) MATSUMURA, Michio
1B5-44 ATP Invite Lecture Photosensitization of Semiconductor Quantum Dots and Their Application to Photovoltaic Devices (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) TOYODA, Taro; SHEN, Qing

Chair: SUGIHARA, Hideki (16:40~18:00)

1B5-47 ATP Invite Lecture Printable dye-sensitized photovoltaic cells toward green device development (Toin Univ. of Yokohama) MIYASAKA, Tsutomu
1B5-49 ATP Invite Lecture Thin, light-weight flexible Dye Sensitized Solar Cells (RCAST, The Univ. of Tokyo) UCHIDA, Satoshi; SEGAWA, Hiroshi
1B5-51 ATP Invite Lecture Recent Development and Efficiency Improvement of Dye-sensitized Solid-state Solar Cells (Graduate School of Science and Technology, Shizuoka Univ.) KONNO, Akinori
1B5-53 Oral C Effect of viscosity of the electrolyte on the generating characteristics of dye-sensitized solar cells (Hayashibara Biochemical Lab. Inc. R&D Center) OHTAKA, Hideo; KURAOKA, Daisuke; MITEKURA, Hirofumi; KAWATA, Toshi; MATSUI, Fumio

Saturday, March 28, AM

Chair: ITOU, Shogo (9:00~9:50)

2B5-01 Oral C Tuning of HOMO level of organic dyes for Dye-Sensitized Solar Cells (AGC SEIMI CHEMICAL CO.,LTD.) KOBAYASHI, Kana; IIDA, Katsumi; FURUYA, Kenji
2B5-03 ATP Invite Lecture Approach to Highly Efficient Dye-sensitized Solar Cells (Energy Technology Research Institute, AIST) SUGIHARA, Hideki

Chair: KONNO, Akinori (10:00~10:50)

2B5-07 ATP Invite Lecture Ionic-Liquid Electrolyte Based Bifacial Dye-Sensitized Solar Cells (Graduate School of Engineering, Univ. of Hyogo) ITOH, Seigo
2B5-09 ATP Invite Lecture High efficiency-dye-sensitized solar cells consisting of 3D-electrodes (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) HAYASE, Shuji

Chair: UCHIDA, Satoshi (10 : 50~12 : 10)

- 2B5-12 ATP Special Invite Lecture** Development of Dye-sensitized Solar Cells for indoor applications (Panasonic Electric Works, Ltd) SEKIGUCHI, Takashi; KAMBE, Shingo; YAMAKI, Takeyuki; TAKAHAMA, Koichi
- 2B5-16 ATP Special Invite Lecture** Perspective of Dye-Sensitized Solar Cells Toward The Practical Use (AISIN SEIKI Co., LTD; TOYOTA CENTRAL R&D LABS., INC.) TOYODA, Tatsuo; HIGUCHI, Kazuo

Room B6

Bldg.14 1442

New Energy Technology

Friday, March 27, PM

Future Energy Storage Devices

Chair: OSAKA, Tetsuya (14 : 10~15 : 10)

- 1B6-32** Opening Remarks OSAKA, Tetsuya
- 1B6-33 ATP Keynote Lecture** Recent Trend and Development of Lithium-ion Battery for Automotive Application (Automotive Energy Supply Corporation) UTSUMI, Kazuaki
- Chair: TOBISHIMA, Shin-ichi (15 : 10~16 : 10)
- 1B6-38 ATP Invite Lecture** Study on searching novel positive electrode materials for rechargeable lithium battery (Research Institute for Ubiquitous Energy Devices, AIST) TABUCHI, Mitsuharu; NABESHIMA, Yoko; TAKEUCHI, Tomonari; TATSUMI, Kuniaki; AKITA, Tomoki; KIKKAWA, Jun; KOHYAMA, Masanori
- 1B6-41 ATP Invite Lecture** Manganese- and Iron-based Materials for Lithium Ion Batteries (Tokyo Univ. of Sci.) KOMABA, Shinichi

Chair: MOMMA, Toshiyuki (16 : 10~17 : 00)

- 1B6-44 Oral C** Microwave Synthesis and Electrochemical Properties of Iron Oxide Nanoparticles (AIST) KIJIMA, Norihito; AKIMOTO, Junji
- 1B6-46 ATP Invite Lecture** Degradation behavior of Surface of Li (NiCo)O₂-based Positive Electrode Materials for Rechargeable Lithium-ion Cells after Degradation Tests (Research Institute for Ubiquitous Energy Devices, AIST) TATSUMI, Kuniaki; SHIKANO, Masahiro; KOIKE, Shinji; MORI, Daisuke; NITANI, Hiroaki; SAKAEBE, Hikari

Chair: KOMABA, Shinichi (17 : 00~17 : 30)

- 1B6-49 Oral D** Characterization of Positive Electrode Materials Coated with Lithium Ion Conducting Solid Electrolytes in Lithium Cells (Gunma Univ., Toyota Motor Corporation) MORIMOTO, Hideyuki; AWANO, Hiroki; ARAI, Yasuhito; TOBISHIMA, Shin-ichi
- 1B6-52 Oral C** Photo-rechargeable air batteries (Shimane Univ.) AKUTO, Keiji

Saturday, March 28, PM

Chair: OUSAKI, Takahisa (14 : 00~14 : 40)

- 2B6-31 ATP Special Invite Lecture** Development of "Plug-in STELLA Concept" (Fuji Heavy Industries Ltd.) ARAI, Kazumasa
- Chair: KUBOKI, Takashi (14 : 40~15 : 10)
- 2B6-35 ATP Invite Lecture** R&D on Advanced Lithium Battery Materials (Research Institute for Ubiquitous Energy Devices, AIST) SAKAI, Tetsuo

Chair: OUSAKI, Takahisa (15 : 10~16 : 30)

- 2B6-38 ATP Special Invite Lecture** Development of advanced separators for lithium ion batteries (Asahi Kasei Chemicals Corporation.) IKEMOTO, Takashi
- 2B6-42 ATP Special Invite Lecture** Development of Functional Electrolytes for Lithium-ion batteries (Ube Industries, Ltd.) ABE, Koji

Chair: KUBOKI, Takashi (16 : 30~17 : 20)

- 2B6-46 Oral C** Development of Lithium Secondary Batteries in Ionic Liquid Electrolytes based on Bis(fluorosulfonyl)imide (Elexcel Co. Ltd., Kansai Univ., Dai-ichi Kogyo Seiyaku Co. Ltd.) SUGIMOTO, Toshinori; ISHIKO, Eriko; HIGASHIZAKI, Tetsuya; KIKUTA, Manabu; ISHIKAWA, Masashi; YAMAGATA, Masaki; KONO, Michiyuki
- 2B6-48 ATP Invite Lecture** Research for Next Generation of Electric Double Layer Capacitor (Graduate School of Engineering, Gunma Univ.) SHIRAIISHI, Soshi

Chair: SHIRAIISHI, Soshi (17 : 20~18 : 00)

- 2B6-51 ATP Invite Lecture** High Performance Electrochemical Capacitors Utilizing Oxide Electrodes (Faculty of Textile Science & Technology,

Shinshu Univ.) SUGIMOTO, Wataru; TAKASU, Yoshio

- 2B6-54** Closing Remarks OHSAKI, Takahisa

Room B7

Bldg.14 1443

New Energy Technology

Friday, March 27, AM

Fuel Cells Hydrogen Energy Technology

Chair: OTA, Ken-Ichiro (9 : 20 ~10 : 20)

- 1B7-03** Opening Remarks (Yokohama National Univ.) OTA, Ken-Ichiro
- 1B7-04 ATP Keynote Lecture** Recent Progress of Hydrogen Fuel Cell Vehicles (Toyota Motor Co., Ltd) HIROSE, Katsuhiko

Chair: IKEMATU, Masaki (10 : 20~11 : 00)

- 1B7-09 ATP Special Invite Lecture** The status and the future prospect on phosphoric acid fuel cell (PAFC) generation system (Fuji Elec. Adv. Technol. Co., LTD.) OKA, Yoshihiro

Chair: OKA, Yoshihiro (11 : 00~12 : 00)

- 1B7-13 ATP Invite Lecture** Residential Fuel Cell Extensive Demonstration Project in Japan (New Energy Foundation) OKUDA, Makoto
- 1B7-16 ATP Invite Lecture** The latest status of petroleum-fueled home Fuel Cell system (NIPPON OIL CO., LTD) IKEMATU, Masaki

Friday, March 27, PM

Chair: MIYAKE, Naoto (14 : 30~15 : 40)

- 1B7-34 ATP Special Invite Lecture** Direct Methanol Fuel Cell (DMFC) for Mobile Applications (Corporate Research & Development Center, TOSHIBA CORPORATION) GOTO, Yasuhiro
- 1B7-38 ATP Invite Lecture** Development of High Temperature PBI-based PEFC (BASF Japan Ltd.) YAMAMOTO, Osamu; Thomas J. Schmidt

Chair: GOTO, Yasuhiro (15 : 40~16 : 50)

- 1B7-41 ATP Invite Lecture** Improvement on Performance and Durability of Polymer Electrolyte Membrane (Asahi Kasei Chemicals) MIYAKE, Naoto; Honda, Masatoshi; TANABE, Tsuneaki
- 1B7-44 ATP Special Invite Lecture** Development of Small SOFC System with High Electric Efficiency (KYOCERA Corp.) YOSHIDA, Makoto

Chair: YAMAMOTO, Osamu (16 : 50~17 : 30)

- 1B7-48 Oral C** Improvement of durability using platinum / conductive polymer composite catalyst loaded on carbon (Kobe Univ.) MIZUHATA, Minoru; MIYACHI, Yoshikazu; MATSUMOTO, Katsumasa; DEKI, Shigehito
- 1B7-50 Oral C** The application of coals used as electrocatalysts for fuel cell (Tokyo Univ. of Agri. and Tech.) MURAOKA, Mitsuyoshi; SHAMSUL, Izhar; SANPEI, Fumihito; NAGAI, Masatoshi

Saturday, March 28, AM

Chair: ISHIHARA, Akimitsu (9 : 00 ~9 : 50)

- 2B7-01 ATP Keynote Lecture** Hydrogen Energy toward Carbon-Free Society (Tokyo Institute of Technology) OKAZAKI, KEN

Chair: NAKAMURA, Junji (9 : 50 ~11 : 00)

- 2B7-06 ATP Invite Lecture** Development of Technology for Huge Amount of Hydrogen Storage and Long Distance Transportation (CHIYODA CORPORATION) OKADA, Yoshimi
- 2B7-09 ATP Special Invite Lecture** Metal oxide-based oxygen reduction electrocatalyst without platinum for PEFC (Yokohama Nat. Univ.) ISHIHARA, Akimitsu

Chair: OKADA, Yoshimi (11 : 00~12 : 00)

- 2B7-13 ATP Invite Lecture** Development of electrocatalysts for fuel cells and surface science (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) NAKAMURA, Junji
- 2B7-16 ATP Invite Lecture** Highly CO-Tolerant Anode Catalysts (Clean Energy Research Center, Univ. of Yamanashi) UCHIDA, Hiroyuki

Saturday, March 28, PM

Chair: KIKUKAWA, Shigeki (14 : 20~15 : 30)

- 2B7-33 ATP Special Invite Lecture** Liquid hydrogen and Iwatani's activities (Iwatani CO., LTD) TATEMOTO, Akira
- 2B7-37 ATP Invite Lecture** New Trends in Hydrogen Storage with

Hydrides (Institute for Advanced Materials Research, Hiroshima Univ.)
KOJIMA, Yoshitsugu

Chair: TATEMOTO, Akira (15:30~16:40)

2B7-40 ATP Special Invite Lecture Safety Evaluation of Hydrogen and Fuel Cell Vehicle (Japan Automobile Research Institute) WATANABE, Shogo

2B7-44 ATP Invite Lecture Risk assessment for Hydrogen Fueling Stations (Japan Petroleum Energy Center) KIKUKAWA, Shigeki

Chair: WATANABE, Shogo (16:40~17:30)

2B7-47 Oral C Development of Fundamental Technologies into building Infrastructures of Hydrogen Energy Society- the Hydrogen Storage Properties of Porous Coordination Polymers - (Nippon Oil Corporation; Hydrogen & New Energy Research Laboratory; Graduate School of Engineering, Kyoto Univ.) WATANABE, Daisuke; OSHIMA, Shinji; KATAOKA, Takeshi; KOBORI, Yoshihiro; HIGUCHI, Masakazu; KITAGAWA, Susumu

2B7-49 Oral D Development of catalysts for DME that is "clean fuel of the 21st century" and "storage and carrier of hydrogen" (Shizuoka Univ.) TAKEISHI, Kaoru

Room P

Rikoh Sports Hall

Saturday, March 28, AM

(12:30~14:00)

Recent Advances in Optical Materials

2PB-117 Two-photon absorption characterization of salen type complexes. (Ricoh Co.,Ltd.; Yamada Chemical Co.,Ltd.) MIKI, Takeshi; SATOH, Tsutomu; AOKI, Akira; MANABE, Yousuke; ASAI, Tatsuro

2PB-119 Development of endurance humidity coat technology with polarizing plate (TOPCON CORPORATION) TANAKA, Nobuki; TAKAHASHI, Takashi

Future Materials

2PB-121 Charge distribution of the phosphonium ionic liquids and their application to DSCs (Tokai Univ.; Nippon Chemical Industrial Co.,Ltd.) KIDA, Takayuki; HAMADA, Naoki; TSUNASHIMA, Katsuhiko; SUGIYA, Masashi; KUNUGI, Yoshihito

2PB-123 Single crystal organic field-effect transistors based on chrycene derivatives (Tokai Univ., Ushio Chemix Co.) KOBAYASHI, Norihito; IKEDA, Daisuke; OKAMOTO, Kazuo; KUNUGI, Yoshihito

2PB-125 The development of thermoplastic epoxy resins and the applications them to FRPs (Nagase ChemteX) TSUJIMURA, Yutaka; NISHIDA, Hirofumi; HIRAYAMA, Norio

2PB-127 Mass Production of Metal-Complex-Type Organic Nanotubes and Their Application (NTRC-AIST; JST-SORST) KOGISO, Masaki; AOYAGI, Masaru; ASAKAWA, Masumi; SHIMIZU, Toshimi

Environment

2PB-129 Development of type water hammerton one liquid paints (TOPCON CORPORATION) MOTOMIYA, Shinsuke; KOJIMA, Tatsuya; TAKAHASHI, Takashi

New Energy Technology

2PB-131 Withdrawn

Next Generation Solar Cells

2PB-133 The construction of thin film organic photovoltaic cells using tetrabenzoporphyrins prepared by solution process of the soluble precursors (Graduate School of Science and Engineering, Ehime university) OKAZAKI, Yukinori; YAMADA, Hiroko; HASHIMOTO, Yusuke; OKUJIMA, Tetsuo; CHIKAMATSU, Masayuki; AZUMI, Reiko; ONO, Noboru

Room H1

Bldg.11 1111

ATP Plenary Lecture

Sunday, March 29, PM

Chair: WATANABE, Eiichi (13:00~14:00)

3H1-25 ATP Keynote Lecture (JST) KITAZAWA, Koichi

Green Biotechnology

Chair: KONOIKE, Toshiro (14:10~15:10)

3H1-32 ATP Keynote Lecture Research and Development of Novel Pesticide (NIHON NOHYAKU CO.,LTD) HAMAGUCHI, Hiroshi

Frontier Biotechnology

Chair: AKIYOSHI, Kazunari (15:20~16:20)

3H1-39 ATP Keynote Lecture Continuous hydrogen production by a hyperthermophile (Ritsumeikan Univ.) IMANAKA, Tadayuki

Green Biotechnology

Monday, March 30, AM

Bioconversion

Chair: KONOIKE, Toshiro (9:00~10:00)

4H1-01 ATP Special Invite Lecture Synthesis of biologically active natural products using hydrolases (Toho Univ.) AKITA, Hiroyuki

4H1-06 Incubation Time

Chair: SUGAI, Takeshi (10:00~11:00)

4H1-07 ATP Special Invite Lecture Discovery of a dipeptide-synthesizing enzyme and its application for dipeptide production (Technical Research Laboratories, KYOWA HAKKO BIO Co.,Ltd) HASHIMOTO, Shinichi

4H1-12 Incubation Time

Chair: MANDAI, Tadakatsu (11:00~11:50)

4H1-13 ATP Invite Lecture Recent Advances in Hydrolase-Catalyzed Asymmetric Synthesis (Univ. of Shizuoka) AKAI, Shuji

4H1-17 Incubation Time

Chair: KUDO, Fumitaka (11:50~12:40)

4H1-18 ATP Invite Lecture Introduction of Application of Bioprocess in Mitsubishi Chemical and the Future Industrial Biotechnology (Mitsubishi Chemical Functional Products) UEDA, Makoto

4H1-22 Incubation Time

Monday, March 30, PM

Bioconversion

Chair: EMA, Tadashi (13:30~14:30)

4H1-28 ATP Special Invite Lecture Recent Advances in Catalytic antibodies: Molecular Design and Generation of Holoabzyme (Graduate School of Engineering, Osaka Prefecture Univ.) FUJII, Ikuo

4H1-33 Incubation Time

Chair: MIYAMOTO, Kenji (14:30~15:30)

4H1-34 ATP Special Invite Lecture Discovery and Application of Novel Peptide Synthesizing Enzymes (Waseda Univ.) KINO, Kuniki

4H1-39 Incubation Time

Chair: SHIMODA, Kei (15:30~16:20)

4H1-40 ATP Invite Lecture Integrated chemo-enzymatic approaches in synthetic organic chemistry (Keio Univ. Faculty of Pharmacy) SUGAI, Takeshi

4H1-44 Incubation Time

Chair: NAKAMURA, Kaoru (16:20~17:10)

4H1-45 ATP Invite Lecture Pravastatin Sodium Production by Two Step Fermentation (DAIICHI SANKYO CO., LTD.) HOSOBUCHI, Masahiko

4H1-49 Incubation Time

Room H2

Bldg.11 1112

Green Biotechnology

Monday, March 30, AM

New Applications for Biomass

Chair: ATOMI, Haruyuki (9:00~11:50)

4H2-01 ATP Special Invite Lecture Application of Marine Microalgae toward Biofuel Production (Tokyo Univ. Agri. & Technol. Division of Biotechnology and Life Science) MATSUNAGA, Tadashi

4H2-06 Incubation Time

4H2-07 ATP Special Invite Lecture Biochemical Recycling of Green Plastics (Keio Univ.) MATSUMURA, Shuichi

4H2-12 Incubation Time

4H2-13 ATP Invite Lecture Efficient Production of Lactic Acid by Metabolically Engineered *Saccharomyces cerevisiae* (TOYOTA MOTOR CORPORATION; TOYOTA CENTRAL R&D LABS., INC) TADA, Nobuki; MATSUSHITA, Hibiki; SHIMAMURA, Takashi; ISHIDA, Nobuhiro; OHNISHI, Toru

4H2-17 Incubation Time

Chair: OOHASHI, Takehisa (11:50~12:40)

4H2-18 ATP Invite Lecture Challenge for the Practical Use of Microbial Polyhydroxyalkanoate (Innovation Planning Department, Kaneka Corporation; Frontier Biochemical & Medical Research Laboratories, Kaneka Corporation) FUJIKI, Tetsuya; OKUBO, Yuji; UEDA, Yasuyoshi

4H2-22 Incubation Time

Monday, March 30, PM

New Applications for Biomass

Chair: OOHASHI, Takehisa (13:30~16:20)

4H2-28 ATP Special Invite Lecture Effective biofuel production from biomass (Kobe Univ.) FUKUDA, Hideki

4H2-33 Incubation Time

4H2-34 ATP Invite Lecture Present and Future of Domestic bio-fuels in Japan-from a view of policy perspective (Mitsubishi Research Institute, Inc.) INOUE, Takashi

4H2-38 Incubation Time

4H2-39 ATP Special Invite Lecture Plant Biotechnology Researches are Going in Practical Applications of Gene Functions to Global Issues (Nara Inst. of Sci. and Technol.) YOKOTA, Akiho

4H2-44 Incubation Time

Chair: ATOMI, Haruyuki (16:20~17:10)

4H2-45 ATP Invite Lecture Glucose Polymers as Functional Carbon-neutral Materials (EZAKI GLICO CO., LTD.) KURIKI, Takashi

4H2-49 Incubation Time

Room H3

Bldg.11 1113

Frontier Biotechnology

Monday, March 30, AM

Nanobiotechnology, Biosensing

Chair: AKIYOSHI, Kazunari (9:00~10:00)

4H3-01 ATP Special Invite Lecture Construction of Functional Nanostructures made by biomineralization and self-organization of protein supramolecules (Nara Inst. of Sci. and Technol.) YAMASHITA, Ichiro

4H3-06 Incubation Time

Chair: WATANABE, Eiichi (10:00~11:00)

4H3-07 ATP Special Invite Lecture Toward a science of human life system (Sony Computer Science Laboratories, Inc.) SAKURADA, Kazuhiro

4H3-12 Incubation Time

Chair: ISOBE, Naohiko (11:00~12:40)

4H3-13 ATP Invite Lecture Hazard Assessment by Inhalation Study-nano/inhaled/fiber particles- (UNIVERSITY OF OCCUPATIONAL AND ENVIRONMENTAL HEALTH) TANAKA, Isamu

4H3-17 Incubation Time

4H3-18 ATP Invite Lecture Application of polymer material technology to biotechnology (SUMITOMO BAKELITE Co., Ltd) NAKANISHI, Hisao; KAWAMURA, Kenji; FUJIWARA, Kazuhiko; MOCHITATE, Katsumi; MATSUSAKI, Michiya; AKASHI, Mitsuru

4H3-22 Incubation Time

Monday, March 30, PM

Biomaterial, Frontier Biomedical Engineering

Chair: FUKASE, Koichi (13:30~15:30)

4H3-28 ATP Special Invite Lecture Nano-structure Controlled Biomaterials and its development for practical use (Graduate School of Engineering, Osaka Univ.) AKASHI, Mitsuru; FUNAKI, Takafumi

4H3-33 Incubation Time

4H3-34 ATP Special Invite Lecture (O S A K A U n i v .) MORISHITA, Ryuichi

4H3-39 Incubation Time

Chair: TAKAYANAGI, Teruo (15:30~17:10)

4H3-40 ATP Invite Lecture Development of novel therapeutics using atelocollagen-mediated nucleic acid delivery system (KOKEN CO., LTD) IOKA, Ryoichi

4H3-44 Incubation Time

4H3-45 ATP Invite Lecture Advanced printing technologies for biomaterial (Dai Nippon Printing Co., Ltd.) ITO, Kenichi; TAKAHASHI, Yoichi

4H3-49 Incubation Time

Room P

Rikoh Sports Hall

Sunday, March 29, AM

(10:00~11:30)

Green Biotechnology

Bioconversion

3PA-181[†] Chemo-enzymatic approach towards novel sialic acid derivatives (Faculty of pharmacy, Keio university) JORDI, Calveras; NAGAI, Yasuhiro; UEDA, Yuuji; HIGASHI, Toshinori; SUGAI, Takeshi

3PA-182 Study on chemo-enzymatic synthesis of ipsdienol, an insect pheromone (Faculty of Pharmacy, Keio Univ.) NAGAMOTO, Masashi; MATSUDA, Akiko; NAKAMURA, Kaoru; UMEZAWA, Kazuo; SUGAI, Takeshi

3PA-183 High active and stable aspartame precursor synthesis enzyme (Osaka Prefecture Univ.) OGINO, Hiroyasu

3PA-184[†] Synthesis of carbaacycles and related substances by means of hydrolase-catalyzed reactions (Faculty of pharmacy, Keio university) HAMADA, Manabu; INAMAI, Yoshikazu; HIGASHI, Toshinori; OGAWA, Seiichiro; UMEZAWA, Kazuo; SUGAI, Takeshi

3PA-185 Chemoenzymatic approach to a synthesis of (-)-DHMEQ, and inhibitor on NF- κ B (Faculty of pharmacy, Keio university) HAMADA, Manabu; NIITU, Yukihiko; HIRAOKA, Chihiro; HIGASHI, Toshinori; UMEZAWA, Kazuo; SUGAI, Takeshi

New Applications for Biomass

3PA-186 Extraction and conversion of photosynthetic pigments in logging residues (Graduate School of Engineering, Utsunomiya Univ.) OBA, Toru; TANAKA, Haruna; ITO, Satoshi; HIRATANI, Kazuhisa

Frontier Biotechnology

Nanobiotechnology, Biosensing

3PA-189 Electrochemical Biosensor with Carbon Nanotube and Plasma-polymerized Film (Shibaura Institute of Technology) YOSHIZAWA, Masahiro; MATSUI, Yasunori; HOSHINO, Tatsuya; MUGURUMA, Hitoshi

3PA-190 Cell assay utilizing cell patterning and concentration gradients in microfluidic channels (Nagoya Univ.) SUGIURA, Kanako; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu

3PA-191 The Enhancement of Fluorescence Intensity from The Fluorescent Dye-Labeled Protein by The Surface Plasmon Resonance on Nanostructures (AIST) HORI, Hironobu; TAWA, Keiko; KINTAKA, Kenji; NISHII, Junji; TATSU, Yoshiro

3PA-192 Detection of telomerase activity by FND-based electrochemical technique (Kyushu Inst. Tech.) SATO, Shinobu; OHTSUKA, Keiichi; ENDO, Hiroshi; MORIMOTO, Kimio; TAKENAKA, Shigeori

- 3PA-193** Investigation of PS-tag conjugated protein-DNA interaction detection system (Grad. Sch. of Natur. Sci. & Tech., Okayama Univ.) IMANAKA, Hiroyuki; MAEKAWA, Masami; IMAMURA, Koreyoshi; KONDO, Eisaku; NAKANISHI, Kazuhiro
- 3PA-194** Development of a new analysis device for membrane protein (Nagoya Univ.) NISHIKAWA, Katsuhiko; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu
- 3PA-195** A rapid and easy 3 step SNPs analysis of quinolone-resistant *Escherichia coli* by microchip gel electrophoresis (Graduate School of Engineering, Nagoya Univ.) YOSHIKAWA, Eri; KAJI, Noritada; YOSHIDA, Risa; KAWAMURA, Kumiko; OKAMOTO, Yukihiko; TOKESHI, Manabu; OHTA, Michio; BABA, Yoshinobu
- 3PA-196** Analysis of a single enzyme reaction by microfabricated structures (Nagoya Univ.) IJIMA, Kazuki; NIKKA, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu
- 3PA-197** Development of a microchip for real-time PCR (Nagoya Univ.) YATSUHASHI, Ai; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu
- 3PA-198** Intracellular imaging of cationic liposomes with Quantum Dots (Nagoya Univ.) WATANABE, Masaki; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu
- 3PA-199** Evaluation for Dynamic Behavior and Stability of Biomacromolecules in Organic Nanotube Channels (NTRC-AIST, SORST-JST, Tokyo Univ. Sci.) KAMETA, Naohiro; MINAMIKAWA, Hiroyuki; YUI, Hiroharu; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 3PA-200** Protein Patterning Technique with Dry Process Part2 (Shibaura Institute of Technology) TAKAHASHI, Hayato; KIMBARA, Tatsuya; MUGURUMA, Hitosi
- 3PA-201** Application of fullerenes to life science field-Introduction of recent studies in cosmetic science and drug discovery- (Vitamin C60 BioResearch Corporation) HYODO, Sayuri; MIWA, Nobuhiko; KOKUBO, Ken; YAMANA, Shuichi
- 3PA-202** Au-PMMA-Au Nanolayer for a new class protein detection platform (Graduate School of Bioscience and Biotechnology, and Interdisciplinary School of Science and Engineering, Tokyo Institute of Technology) AMIR, Syahir; KAJIKAWA, Kotaro; MIHARA, Hisakazu
- 3PA-203** Screening of cell penetrating activity of novel peptides toward construction of cell-array (Tokyo Institute of Technology) KIKUCHI, Takuya; USUI, Kenji; TAKAHASHI, Tsuyoshi; MIHARA, Hisakazu
- 3PA-204** Development and application of novel hybrid beads encapsulated fluorescence and magnetism (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) SAKAMOTO, Satoshi; MOCHIZUKI, Yusuke; KITA, Yoshinori; HATAKEYAMA, Mamoru; KAWATA, Shintaro; OKADA, Akira; NISHIO, Kosuke; HANDA, Hiroshi

Biomaterial, Frontier Biomedical Engineering

- 3PA-205** Design of polyion complex nanogels (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) HAYASHI, Jungo; SAWADA, Shinichi; KURITA, Kimio; AKIYOSHI, Kazunari
- 3PA-206** Synthesis of Potent Ligands of Intracellular Innate Immune Receptor Nod1 and Their Biological Activities (Osaka Univ) FUJIMOTO, Yukari; FUKASE, Koichi; KAWASAKI, Akiko; SHIMOYAMA, Atsushi
- 3PA-207** Design and Synthesis of Polysaccharide-Siloxane Nanogels with Sol-Gel Process (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) YAMANE, Setsuko; SASAKI, Yoshihiro; AKIYOSHI, Kazunari
- 3PA-208** Design and Synthesis of Dynamic Bioconjugator Targeting Amines (Tokyo Medical and Dental Univ.) TSUCHIDO, Yuji; SASAKI, Yoshihiro; AKIYOSHI, Kazunari
- 3PA-209** Human mesenchymal stem cells as a stable source of VEGF production (National Institute of Advanced Industrial Science and Technology) KAGIWADA, Harumi; YASHIKI, Tetsuya; OHSHIMA, Akira; MIKA, Tadokoro; OHGUSHI, Hajime
- 3PA-210** Preparation and Antigenic Properties of Nano-Encapsulated Synthetic Antigen from *Plasmodium falciparum* (Gunma Univ.) OKU, Hiroyuki; YANO, Kazuhiko; HANAOKA, Hirofumi; HASEGAWA, Shin; YAMADA, Keiichi; KATAKAI, Ryoichi; IIDA, Yasuhiko; ENDO, Keigo; MAEKAWA, Yasunari; KANO, Shigeyuki; SUZUKI, Mamoru
- 3PA-211** New Labeling Method of Biomolecules via Rapid Azaelectrocyclization and Application to PET Imaging (Osaka Univ., Department of Chemistry; RIKEN, Center for Molecular Imaging Science; Kishida Chemical Co.Ltd) TANAKA, Katsunori; MINAMI, Kaori; SIWU, Eric R. O.; KOYAMA, Koichi; HASEGAWA, Koki; TAHARA, Tsuyoshi; MIZUMA, Hiroshi; WADA, Yasuhiro; WATANABE, Yasuyoshi; FUKASE, Koichi
- 3PA-212** Preparation and Functional Evaluation of Channel Forming Membrane Protein Containing Liposome for Molecular Communication (NTT DOCOMO Inc., Tokyo Med. and Dent. Univ.; Kyoto Univ.; Univ. California, Irvine) MORITANI, Yuki; NOMURA, Shin-ichiro; HIYAMA, Satoshi; SUDA, Tatsuya; AKIYOSHI, Kazunari

Others

- 3PA-213** NanoBioNow(23) Property of UV spectra of UV irradiated salmon

milt DNA (FIBER, Konan Univ.; Fine Co., Ltd.; Fac. of Sci. and Eng., Konan Univ.) SASAKI, Yoshiharu; MIYOSHI, Daisuke; SUGIMOTO, Naoki

- 3PA-214** Design and Synthesis of External Stimuli Responsible Split-GFP for Fluorescence Detection System (IMRAM, Tohoku Univ.) SAKAMOTO, Seiji; TERAUCHI, Mika; ARAKI, Yasuyuki; WADA, Takehiko

Room A2 Bldg.14 1422

Resources Utilization Chemistry

Saturday, March 28, AM

Chair: KOBORI, Yoshihiro (9:30 ~ 11:30)

* 9:20-9:30: interval for laptop PC connection.(2A2-04, 2A2-05, 2A2-06, 2A2-07, 2A2-08, 2A2-09)

- 2A2-04** Elucidation of thermal property and stability of polysulfides (Tokyo Univ. of Agriculture and Technology, Department of Chemical Engineering, Qian Lab.) CHEE, JUN NIAN; QIAN, Eika
- 2A2-05** Development of oxidant and catalyst for ultra-deep oxidative desulfurization of distillates (TOKYO UNIVERSITY OF AGRICULTURE AND TECHNOLOGY) AHMAD FAUZI, Firdawos; QIAN, Eika
- 2A2-06** Study on the degradation mechanism of the polymer modified asphalts during the outdoor exposure (College of Science and Technology, Nihon Univ.) SHITARA, Naonari; SEINO, Tomohumi; SATOH, Yuiko; SUGANO, Motoyuki; KAKUTA, Yuusuke; HIRANO, Katsumi; MASHIMO, Kiyoshi
- 2A2-07** Synthesis of hydrophobic zeolite and application for CO₂ adsorption (Nara Institute of Science and Technology, Research Institute of Innovative Technology for the Earth(RITE)) KATO, Minako; MIYAMOTO, Manabu; YOGO, Katsunori; FUJIOKA, Yuichi
- 2A2-08** Production of syn-gas or hydrogen from CH₄ using lattice oxygen of Fe-Cr complex oxides (Department of Chemical, Energy and Environmental Engineering, Kansai Univ.) OKAMOTO, Na-oya; IKENAGA, Na-oki; MIYAKE, Takanori; SUZUKI, Toshimitsu
- 2A2-09*** Effect of additives on hydrogen production reaction of aluminum with water (Muroan Institute of Technology) KANDA, Yasuharu; KAMEDA, Miki; KONDO, Shinji; KOBAYASHI, Takao; UEMICHI, Yoshio; SUGIOKA, Masatoshi

* 10:40-10:50: interval for laptop PC connection.(2A2-12)

- 2A2-12 CSJ Award for Technical Development** Direct Methyl Esterification Route for MMA -Development of its Catalytic Chemistry and Process Engineering- (Asahi Kasei Chemicals Corp.) YAMAMATSU, Setsuo; YAMAGUCHI, Tatsuo; AOSHIMA, Atsushi; CYONO, Masazumi; NAGANO, Osamu

Saturday, March 28, PM

Biomass

Chair: QIAN, Eika W. (14:30 ~ 15:30)

* 14:20-14:30: interval for laptop PC connection.(2A2-34, 2A2-35, 2A2-36, 2A2-37, 2A2-38, 2A2-39)

- 2A2-34** Development of Functional Materials using Disposal Biomass (Tokyo college of Medico-pharmaco technology, Department of Bio-technology) MINAMISAWA, Mayumi; OGAWA, Toru; KANEKAWA, Masakazu; YOSHIDA, Shoichiro; MINAMISAWA, Hiroaki
- 2A2-35** Development of Functional Materials using Natural Biomass (Tokyo college of Medico-pharmaco technology, Department of Bio-technology) MINAMISAWA, Mayumi; OGAWA, Toru; KANEKAWA, Masakazu; YOSHIDA, Shoichiro
- 2A2-36** Degradation of Cellulose by Supported Metal Catalysts (Hokkaido Univ.; Catalysis Research Center) KOMANOYA, Tasuku; HARA, Kenji; FUKUOKA, Atsushi
- 2A2-37** Degradation of Beet Fiber by Supported Metal Catalysts (Hokkaido Univ.; Catalysis Research Center) FUKUOKA, Atsushi; WATANABE, Mizuho; HARA, Kenji; KIKUCHI, Hiroto; ARITSUKA, Tsutomu
- 2A2-38** The Tenacious Epoxy Adhesives consisted of Lignin Metabolic Intermediate "PDC" and Acid-Anhydride Curing Agent (Tokyo Univ. of Agriculture and Technology) HASEGAWA, Yuki; SHIKINAKA, Kazuhiro; MASAI, Eiji; OTSUKA, Yuichiro; NAKAMURA, Masaya; OHARA, Seiji; KATAYAMA, Yoshihiro; SHIGEHARA, Kiyotaka
- 2A2-39** Dissolving as energy saving of plant biomass with polar ionic liquids (Tokyo Univ. of Agri. & Tech.) ABE, Mitsuru; FUKAYA, Yukinobu; OHNO, Hiroyuki

Biomass

Chair: FUKUOKA, Atsushi (15:40 ~ 16:30)

* 15:30-15:40: interval for laptop PC connection.(2A2-41, 2A2-42, 2A2-44,

2A2-45)

- 2A2-41** Analysis of celluloses with HPLC method using polar ionic liquid as a mobile phase (Tokyo Univ. of Agri. & Tech.) TSUKAMOTO, Atsushi; FUKAYA, Yukinobu; OHNO, Hiroyuki
- 2A2-42*** Fuel Gas Production from Woody Biomass in Supercritical Water over Supported Metal Catalysts (National Institute of Advanced Industrial Science and Technology) YAMAGUCHI, Aritomo; HIYOSHI, Norihito; SATO, Osamu; BANDO, Kyoko; OSADA, Mitsumasa; SHIRAI, Masayuki
- 2A2-44** Saccharification of model compound in food waste by hydrothermal treatment. (College of Science and Technology, Nihon Univ.) KATOH, Harumi; OOZEKI, Yukiko; WAKAI, Takazumi; SUGANO, Motoyuki; KOMATSU, Akihiro; KAKUTA, Yuusuke; HIRANO, Katsumi; MASHIMO, Kiyoshi
- 2A2-45** Saccharification of Ligno-Cellulosic Biomass using solid acidic catalysts (Tokyo Univ. of Agriculture and Technology; Department of Chemical Engineering) UEHARA, Satoshi; QIAN, Eika

Biomass

Chair: YAMAGUCHI, Aritomo (16:40~17:10)

- * 16:30-16:40: interval for laptop PC connection.(2A2-47, 2A2-48, 2A2-49)
- 2A2-47** Elucidation of Reactivity of Biomass Derived Oil in Catalytic Steam Reforming (Tokyo Univ. of Agriculture and Technology, Department of Chemical Engineering) TOYODA, Takashi; QIAN, Eika
- 2A2-48** Utilization of acidity with sulfonic acid type woody biomass functional material. (Department of applied Chemistry, College of Engineering Chubu Univ.) TOYONAGA, Daichi; MIYACHI, Yasutaka; KUROKI, Kazushi; MIYAUCHI, Toshiyuki; MORI, Hidehiko
- 2A2-49** New Biogasoline and New Biodiesel Fuel (Tsuruoka National College of Technology) KANETSUNA, Hidenori

Sunday, March 29, AM

Polymer

Chair: TSUJI, Toshiro (9:30~10:20)

- * 9:20-9:30: interval for laptop PC connection.(3A2-04, 3A2-05, 3A2-06, 3A2-07, 3A2-08)
- 3A2-04** Study on chlorine removal by glass upon liquefaction process of hydrothermally treated waste mixture containing plastics (College of Science and Technology, Nihon Univ.) SHIMIZU, Takayuki; TAKEDA, Yasuhiro; SUGANO, Motoyuki; KOMATSU, Akihiro; KAKUTA, Yuusuke; HIRANO, Katsumi; MASHIMO, Kiyoshi
- 3A2-05** Chemical modification of PVC using sulfur-containing dianions (Tohoku Univ.; Graduate School of Environmental Studies) YOSHIHARA, Makoto; GRAUSE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 3A2-06** Pyrolysis behavior of high impact polystyrene containing brominated flame retardant (Tohoku Univ.; Graduate School of Environmental Studies) KARAKITA, Daiki; GRAUSE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 3A2-07** Low temperature dechlorination of poly(vinyl chloride) in the presence of Fe₃O₄ (Shinshu Univ.) ISHIHARA, Syun; OKADA, Tomohiko; KOSUDA, Takasi; MISHIMA, Shozi
- 3A2-08** Thermal degradation of organosolid parts of FRP solubilized in supercritical FRP (Faculty of Engineering, Yamaguchi Univ., Yamaguchi Prefectural Industrial Technology Institute) WATANABE, Takeru; TOMONAGA, Humiaki; YAMADA, Kazuo; KAMIMURA, Akio

Polymer

Chair: NISHIKITANI, Yoshinori (10:30~11:10)

- * 10:20-10:30: interval for laptop PC connection.(3A2-10, 3A2-11, 3A2-13)
- 3A2-10** Effect of CaO and steam on the pyrolysis of mixed plastics in the fluidized bed (Tohoku Univ.; Graduate School of Environmental Studies) MATSUMOTO, Shotaro; GURAUZE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 3A2-11*** Hydrolysis of Polycarbonate Using a Fluidized Bed. (Graduate School of Engineering, Hokkaido Univ.) TSUJI, Toshiro; SUGAWARA, Toshiaki
- 3A2-13** Hydrolysis of PBT in Water at High Temperature (National Institute of Advanced Industrial Science and Technology (AIST)) SATO, Osamu; MASUDA, Yoshio; HIYOSHI, Norihito; YAMAGUCHI, Aritomo; BANDO, Kyoko; SHIRAI, Masayuki

Room A4

Bldg.14 1424

Theoretical Chemistry, Informatics Chemistry and Computational Chemistry

Saturday, March 28, AM

Electronic structure

Chair: SHIGETA, Yasuteru (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(2A4-01, 2A4-02, 2A4-04, 2A4-05, 2A4-06)
- 2A4-01** Resonating coupled-cluster configuration interaction (Res-CC CI) approach for ion-radical system (Graduate School of Science, Osaka Univ.) NISHIHARA, Satomichi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka; YAMAGUCHI, Kizashi
- 2A4-02*** A spin contamination error in optimized structures by the broken-symmetry method (Osaka Univ.) KITAGAWA, Yasutaka; SAITO, Tohru; NAKANISHI, Yasuyuki; KAWAKAMI, Takashi; OKUMURA, Mitsutaka; YAMAGUCHI, Kizashi
- 2A4-04** Theoretical study on the spin-component-scaled Moeller-Plesset perturbation theory (Sch. of Adv. Sci. & Eng., Waseda Univ.) KAWASAKI, Sora; SATO, Takeshi; NAKAI, Hiromi
- 2A4-05** Quantum chemical calculations of spin-orbit terms for zero-field splitting tensors (Graduate School of Science, Osaka City Univ.) SUGISAKI, Kenji; TOYOTA, Kazuo; SATO, Kazunobu; SHIOMI, Daisuke; TAKUI, Takeji
- 2A4-06** Development of the exchange functional based on the exchange hole modeled by wave functions in hydrogenic atoms (Osaka Univ.) TAKAHASHI, Hideaki; KISHI, Ryohei; NAKANO, Masayoshi

Chair: NAKAI, Hiromi (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(2A4-08, 2A4-10, 2A4-12)
- 2A4-08*** Theoretical analysis of the variationally optimized complex orbital exponent in autoionization region (Department of Chemistry Faculty of Science and Technology, Keio Univ.) MORITA, Masato; YABUSHITA, Satoshi
- 2A4-10*** Theoretical study on the f-f transition intensities of lanthanide trihalide systems (Keio Univ.) HATANAKA, Miho; YABUSHITA, Satoshi
- 2A4-12*** Theoretical Study of the Inverted Sandwich Type Complex: Significant Differences between the First, Second, and Third-row Transition Metal Analogues (Kyoto Univ.; Fukui Inst., Kyoto Univ.) KUROKAWA, Yusaku; NAKAO, Yoshihide; SAKAKI, Shigeyoshi

Chair: YABUSHITA, Satoshi (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(2A4-15, 2A4-17, 2A4-19, 2A4-20)
- 2A4-15*** The Local Hamiltonian method : Low-order scaling four-index transformation for electron correlation methods (Institute for Molecular Science) MIZUKAMI, Wataru; KURASHIGE, Yuki; YANAI, Takeshi
- 2A4-17*** Band Structure Calculations based on screened Fock exchange potential (AIST-RICS) SHIMAZAKI, Tomomi; ASAI, Yoshihiro
- 2A4-19** Optical property calculations based on the divide-and-conquer (DC) method (Sch. of Adv. Sci. & Eng., Waseda Univ.) TOUMA, Tsuguki; KOBAYASHI, Masato; NAKAI, Hiromi
- 2A4-20** Numerical assessment and theoretical development of bond energy density analysis (Bond-EDA) (Sch. of Adv. Sci. & Eng., Waseda Univ.) OHASHI, Hideaki; IMAMURA, Yutaka; KIKUCHI, Yasuaki; NAKAI, Hiromi

Saturday, March 28, PM

Dynamics

Chair: YAMASHITA, Koichi (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(2A4-28, 2A4-31, 2A4-33)
- 2A4-28** CSJ Award for Young Chemists Dynamic Molecular Theory of Quantum and Thermal Fluctuations (Graduate School of Life Science, Univ. of Hyogo) SHIGETA, Yasuteru
- 2A4-31*** Analysis of quasi-free rotation of CO trapped in para-hydrogen cluster (Grad. Sch. of Sc., Tohoku Univ.) MIZUMOTO, Yoshihiko; OHTSUKI, Yukiyoshi
- 2A4-33** Path integral molecular dynamics simulation of proton transfer in a model aqueous electrolyte solution (Tohoku Univ.; JST-CREST) IMAI, Hajime; MIZUMOTO, Yoshiyiko; OHTSUKI, Yukiyoshi; KONO, Hirohiko

Chair: KATO, Tsuyoshi (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(2A4-35, 2A4-37, 2A4-38, 2A4-40)
- 2A4-35*** Control of ring currents and nonadiabatic nuclear dynamics in a chiral

- aromatic molecule excited by a linearly polarized laser pulse (Tohoku Univ.) KANNO, Manabu; KONO, Hirohiko; FUJIMURA, Yuichi
- 2A4-37** Designing optimal gate pulses robust against decoherence (Tohoku Univ.; JST-CREST) OHTSUKI, Yukiyo
- 2A4-38*** Optimal molecular alignment control via rovibrational transitions under the influence of dissipation (Department of Chemistry, Graduate School of Science, Tohoku Univ.; JST-CREST) NAKAGAMI, Kazuyuki; OHTSUKI, Yukiyo
- 2A4-40** Optimal alignment control of linear molecules by using polarized shaped laser pulses (Tohoku Univ.; JST-CREST) ABE, Hiroya; NAKAGAMI, Kazuyuki; OHTSUKI, Yukiyo; KONO, Hirohiko

Chair: YASUIKE, Tomokazu (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2A4-42, 2A4-44, 2A4-45, 2A4-46, 2A4-47)
- 2A4-42*** Macro Model Analysis of Laser Induced Rotation of Malaria-Infected Red Blood Cells. (Tohoku Univ.) YAMADA, Toshihiro; KATO, Tsuyoshi; KONO, Hirohiko; FUJIMURA, Yuichi
- 2A4-44** Theoretical study of the vibrational excitation and the dissociation control of C₆₀ by a near-infrared intense laser field (Tohoku Univ.) NIITSU, Naoyuki; IKEDA, Hayato; NAKAI, Katsunori; KONO, Hirohiko
- 2A4-45** Theoretical study of the rotatory dynamics of exciton in ring-shaped aggregate after irradiating circular-polarized laser field (Osaka Univ.) MINAMI, Takuya; FUKUI, Hitoshi; NAGAI, Hiroshi; YONEDA, Kyohei; KISHI, Ryohei; TAKAHASHI, Hideaki; NAKANO, Masayoshi
- 2A4-46** The mechanism of the occurrence of intramolecular diamagnetic ring currents in aromatic hydrocarbons (Institute for Innovative Science and Technology, Graduate School of Engineering, Nagasaki Institute of Applied Science) KATO, Takashi
- 2A4-47** Constrained density functional study on intramolecular electron transfer (Univ. of Tsukuba) SHIMODO, Yasuyo; OGAWA, Tomofumi; MORIHASHI, Kenji

Sunday, March 29, AM

Chemical Reactions · Simulations

Chair: NAKAO, Yoshihide (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(3A4-01, 3A4-02, 3A4-03, 3A4-04, 3A4-05)
- 3A4-01** The theoretical study of the molecular device designed by the molecule doping (Dept. of Chemical System Engineering, Univ. of Tokyo) SUDO, Shotaro; NAKAMURA, Hisao; YAMASHITA, Koichi
- 3A4-02[†]** Theoretical investigation on the electronic transport effects of modified artificial metal-DNA (Graduate school of science, Univ. of Osaka) NAKANISHI, Yasuyuki; KITAGAWA, Yasutaka; SHIGETA, Yasuteru; SAITO, Toru; MATSUI, Toru; MIYACHI, Hideaki; KAWAKAMI, Takashi; OKUMURA, Mitsutaka; YAMAGUCHI, Kizashi
- 3A4-03** The catalytic activity of cathode for nitrides and band structure (Tokyo Univ. of Agri. and Tech.; Faculty of Engineering) TOMINAGA, Hiroyuki; NAGAI, Masatoshi
- 3A4-04** First Principle Study of Charge Density Wave on In/Cu(001) Using Jahn-Teller Effect (Univ. of Tokyo; Yamashita & Ushiyama lab.) OHTO, Tatsuhiko; NOJIMA, Akihiro; NAKAMURA, Hisao; USHIYAMA, Hiroshi; YAMASHITA, Koichi
- 3A4-05** Theoretical study of proton transfer in H₂O/OH clusters on Pt (Dept. of Chemical System Engineering, Univ. of Tokyo) CHIFU, Yuki; MANZHOS, Sergei; USHIYAMA, Hiroshi; YAMASHITA, Koichi

Chair: KAMISAKA, Hideyuki (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(3A4-07, 3A4-08, 3A4-09, 3A4-10, 3A4-11)
- 3A4-07** Exploration and construction of potential energy surface of CH₄O by the scaled hypersphere search method (Graduate School of Science, Tohoku Univ.) OSADA, Yuto; MAEDA, Satoshi; OHNO, Koichi
- 3A4-08** Theoretical Study on the Overtone Intensity of XH Stretching Vibrations with the Atoms In Molecules Method (Univ. of Keio Faculty of Science and Technology) TAKAHASHI, Hirokazu; YABUSHITA, Satoshi
- 3A4-09** Raman bands of low-frequency functional modes in thioanisole analogues: an investigation on resonance Raman effect (Department of Chemistry, Graduate School of Science, Tohoku Univ.) OKAZAKI, Tomohiro; YAMAKITA, Yoshihiro; OHNO, Koichi
- 3A4-10** Mechanism of proton conducting in the electrolyte of PEMFC with quantum chemistry - ZrP-SPES - (Dept. of Chemical System Engineering, Univ. of Tokyo) OGAWA, Takaya; USHIYAMA, Hiroshi; YAMASHITA, Koichi
- 3A4-11** Theoretical Study of Chemical Reaction Catalyzed by Ruthenium Hydroxide Supported on Inorganic Oxide (Dept. of Chemical System Engineering, Univ. of Tokyo) NIKAIIDOU, Fumiya; USHIYAMA, Hiroshi; YAMASHITA, Koichi

Chair: USHIYAMA, Hiroshi (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(3A4-13, 3A4-14, 3A4-15, 3A4-16, 3A4-17)
- 3A4-13** On the mechanism of phosphotransfer reaction of PSP: Acid catalytic

mechanism (RIKEN) RE, Suyong; JUNG, Jaewoon; TEN-NO, Seichiro; SUGITA, Yuji

- 3A4-14** Transition metal complexes of cyclopropene and the C-C bond activation reaction. Theoretical Study (Kyoto Univ.) TANIMURA, Yudai; NAKAO, Yoshihide; SATO, Hirohumi; SAKAKI, Shigeyoshi
- 3A4-15** Theoretical study on polarizability of a singlet diradical molecule containing a boron atom in polar solvents by QM/MM simulations (Osaka Univ.) KUBOTA, Kazuki; TAKAHASHI, Hideaki; MARUYAMA, Kunihiko; FUKUI, Hitoshi; NAGAI, Hiroshi; YONEDA, Kyohei; MINAMI, Takuya; KISHI, Ryohei; KUBO, Takashi; NAKANO, Masayoshi
- 3A4-16** Free Energy Analysis of the Solvation of H₃O⁺ at Aqueous Interface by the QM/MM-ER Simulations (Osaka Univ.) MARUYAMA, Kunihiko; TAKAHASHI, Hideaki; KUBOTA, Kazuki; KISHI, Ryohei; NAKANO, Masayoshi
- 3A4-17** Theoretical study of MgF_n²⁻ⁿ (n=3,4,5,6) in aqueous solution by means of RISM-SCF-SEDD method (Univ. of Kyoto) SHIBATA, Naoto; YOKOGAWA, Daisuke; SATO, Hirofumi; SAKAKI, Shigeyoshi

Asian International Symposium -Theoretical and Computational Chemistry

Sunday, March 29, PM

Chair: TAKANO, Keiko (13 : 30~15 : 10)

- 3A4-28[#]** Opening remarks (The Univ. of Tokyo) YAMASHITA, Koichi
- 3A4-29[#] Invited Lecture** Development of the density matrix renormalization group algorithm, with applications to metal compounds (IMS) KURASHIGE, Yuki
- 3A4-31[#] Invited Lecture** New coupled cluster method for potential energy surfaces (Kyushu Univ.) KINOSHITA, Tomoko
- 3A4-33[#] Keynote Lecture** Structure and electronic properties of DNA base-pairs and modified DNA (JNCASR) PATI, Swapan K
- 3A4-36[#] Invited Lecture** Chiral molecular motors driven by linearly polarized laser pulses (Tohoku Univ.) HOKI, Kunihito

Chair: YOSHIZAWA, Kazunari (15 : 20~16 : 50)

- 3A4-39[#] Invited Lecture** Photoinduced coherent adsorbate dynamics on metal surface: An open system approach (IMS) YASUIKE, Tomokazu
- 3A4-41[#] Invited Lecture** DFT-based first-principle calculation of N-doped anatase TiO₂ and its interactions with oxygen vacancies and interstitial oxygen (Univ. of Tokyo) OKAMISAKA, Hideyuki · HITOSUGI, Taro · SUENAGA, Takahiro · HASEGAWA, Tetsuya · YAMASHITA, Koichi
- 3A4-43[#] Invited Lecture** Time correlation function for quantum fluids (Hokkaido Univ.) NAKAYAMA, Akira
- 3A4-45[#] Keynote Lecture** Understanding protein misfolding and molecular function (Sookmyung Women's Univ.) LEE, Chewook · HONG, Jooyeon · KANG, Guipeun · HAM, Sihyun

Theoretical Chemistry, Informatics Chemistry and Computational Chemistry

Monday, March 30, AM

biochemistry

Chair: MORIHASHI, Kenji (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4A4-01, 4A4-02, 4A4-03, 4A4-04, 4A4-05)
- 4A4-01** Theoretical Approach To Understand the Reactivity of a Mononuclear Cu(II)-Hydroperoxo Complex in Oxygenation Reactions (IMCE Kyushu Univ.; Ewha Womans Univ.) NISHIMI, Tomonori; KAMACHI, Takashi; LEE, Yong-min; CHO, Jaehung; NAM, Wonwoo; YOSHIZAWA, Kazunari
- 4A4-02** Electrostatic effect of protein environment on electronic structures of the active site of hemerythrin (Institute for Protein Research, Osaka Univ.) TAKANO, Yu; KOIZUMI, Kenichi; YAMAGUCHI, Kizashi; NAKAMURA, Haruki
- 4A4-03[†]** Electronic structure of active site of sweet potato purple acid phosphatase (Institute for Protein Research, Osaka Univ.) KOIZUMI, Ken-ichi; TAKANO, Yu; YAMAGUCHI, Kizashi; NAKAMURA, Haruki
- 4A4-04** Coarse graining of protein based on dipole moment (Hiroshima Univ. Graduate School of Science) MIEDA, Shunsuke; AIDA, Misako
- 4A4-05*** A theoretical study on the intramolecular hydrogen transfer of amino acid in aqueous solution. (Hiroshima university) MIYAMOTO, Hidenori; AIDA, Misako

Chair: AIDA, Misako (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4A4-08, 4A4-10, 4A4-12, 4A4-13)
- 4A4-08*[†]** Theoretical research on reaction mechanism of fluorine elimination by fluoroacetate dehalogenase (Kyushu Univ. ; IMCE) NAKAYAMA, Tomonori; KAMACHI, Takashi; SHITAMICHI, Osamu; JITSUMORI, Kenji; KURIHARA, Tatsuo; ESAKI, Nobuyoshi; YOSHIZAWA, Kazunari
- 4A4-10*** Theoretical study on the mechanism of coenzyme B12-dependent enzymes (IMCE) KAMACHI, Takashi; M. Kozlowski, Pawel; TORAYA,

Tetsuo; YOSHIZAWA, Kazunari

- 4A4-12** Density Functional Study on Catalytic Effect of Class A β -Lactamase (Univ. of Tsukuba) MORIHASHI, Kenji; YAGI, Hideki; SHIMODO, Yasuyo
- 4A4-13** Density Functional Calculations of Enzymatic Activity in DNA Polymerase (Univ. of Tsukuba) KURANOO, Kazuhiro; SIMODOU, Yasuyo; MORIHASHI, Kenji

Chair: YOSHIZAWA, Kazunari (11:20~12:10)

- * 11:10-11:20: interval for laptop PC connection.(4A4-15, 4A4-16, 4A4-17, 4A4-18, 4A4-19)
- 4A4-15** A theoretical study of the 3D solvation structure around Coil-Ser by a highly parallelizable method (Kyoto Univ.) HIRANO, Kenji; YOKOGAWA, Daisuke; SATO, Hirofumi; SAKAKI, Shigeoyoshi
- 4A4-16** Fragment density functional study on nucleic acid base pairs; interaction analysis with parameterized dispersion correction (Univ. of Tsukuba) SHIMODO, Yasuyo; HAYASHI, Takuya; MORIHASHI, Kenji
- 4A4-17** Fragment-DFT calculations of HIV-1 protease complex (Univ. of Tsukuba) HOSHINO, Masakazu; SHIMODO, Yasuyo; MORIHASHI, Kenji
- 4A4-18** Investigation on the accuracy of the side-chain separation approximation method used in the single amino acid potential force field (Tokai Univ.) IWAOKA, Michio; MINEZAKI, Toshiya
- 4A4-19** Theoretical studies on chemical-bonding state with oxygen molecule in type 3 copper proteins. (Osaka Univ.) SAITO, Toru; NAKANISHI, Yasuyuki; KITAGAWA, Yasutaka; KAWAKAMI, Takashi; OKUMURA, Mitsutaka; YAMAGUCHI, Kizashi

Room B3

Bldg.14 1433

Inorganic Chemistry

Sunday, March 29, AM

Layered Compound

Chair: FUKUDA, Katusoshi (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3B3-01, 3B3-02, 3B3-03, 3B3-04, 3B3-05, 3B3-06)
- 3B3-01** Synthesis of alumina-pillared micas using novel Ge-substituted swellable fluorine micas. (Shinshu Univ.) OHBA, Hironobu; YAMAGUCHI, Tomohiro; TARUTA, Seiichi; KITAJIMA, Kunio
- 3B3-02** Control of interlayer distance of layered titanosilicate (Hiroshima Univ.) MIYANO, Tetsuyuki; OUMI, Yasunori; IKEDA, Takuji; SANO, Tsuneji
- 3B3-03** Ethylenediamine intercalation in layer structured TiNCl and its superconductivity. (Hiroshima Univ.) UMEMOTO, Keita; YAMANAKA, Shoji
- 3B3-04** Electronic Structure and Intercalation behavior of Graphite-like Layered Material BC₂N (Osaka Electro-Communication Univ.; Univ. of Hyogo) KAWAGUCHI, Masayuki; OHNISHI, Katsuya; YAMAMOTO, Hiroshi; MURAMATSU, Yasuji
- 3B3-05** Intercalation reactions of layered Zn-1,3,5-benzenetriphosphonate (Tokyo Univ. A&T) KAWAWA, Kanako; HATASAWA, Haruna; MATSUSHIMA, Yuta; MAEDA, Kazuyuki
- 3B3-06[†]** Synthesis and Adsorption Behavior of Anion-Exchange Layered Compounds via Modification on Layered Silicate (Faculty of Science and Engineering, Waseda Univ.; Kagami Memorial Laboratory for Materials Science and Technology, Waseda Univ.) TAKAHASHI, Nobuyuki; KURODA, Kazuyuki

Thin Film

Chair: OUMI, Yasunori (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(3B3-08, 3B3-09, 3B3-10, 3B3-11, 3B3-12)
- 3B3-08** A TEM Study on the In-plane Ordering of Birnessite-type K_{0.33}MnO₂ (Yamaguchi Univ.) NAKAYAMA, Noriaki; OHMOTO, Katsuhiko; FUJIWARA, Keiko; NAKATSUKA, Akihiko
- 3B3-09** Synthesis and Exfoliation of Layered Perovskites Having a Variable Thickness Composed of (NbO₆)_n (n=4-6) (MANA, NIMS; Univ. Tsukuba) EBINA, Yasuo; AKATSUKA, Kosho; SASAKI, Takayoshi
- 3B3-10** Fabrication of flexible and transparent conducting thin film composed of ruthenium oxide nanosheets (Shinshu Univ. NanoFIC) FUKUDA, Katsutoshi; KATO, Hisato; SUGIMOTO, Wataru; TAKASU, Yoshio
- 3B3-11** Synthesis and Properties of Boron Nitride Thin Films by PLD Method. (Hiroshima Univ. Graduate School of Eng.) ANZAI, Atsushi; FUCHIGAMI, Masayo; INUMARU, Kei; YAMANAKA, Shoji
- 3B3-12*** Enhancement of the relative emission (host excitation / direct photoactivator excitation) intensity by exfoliation of the lanthanide-activated

layered oxide phosphors into nanosheets (International Center for Materials Nanoarchitectonics, NIMS) OZAWA, Tadashi C.; FUKUDA, Katsutoshi; AKATSUKA, Kosho; EBINA, Yasuo; SASAKI, Takayoshi

Synthesis

Chair: KURASHINA, Masashi (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(3B3-15, 3B3-16, 3B3-17, 3B3-18, 3B3-19)
- 3B3-15** Controlled thermal decomposition of NaSi to derive silicon clathrate compounds (Hiroshima Univ.Department of Applied Chemistry) HORIE, Hiroomi; KIKUDOME, Takashi; TERMURA, Kyosuke; YAMANAKA, Shoji
- 3B3-16** Synthesis and physical properties of δ -vanadium bronzes Ag_xV₂O₈ (0.65 ≤ x ≤ 0.90) (The Univ. of Tokyo) ISOBE, Masahiko; YAMAUCHI, Touru; UEDA, Hiroaki; UEDA, Yutaka
- 3B3-17** High pressure synthesis of AF-TiF₃ (A = K, Rb) ternary compounds with coordinated pentagonal bipyramids [TiF₇] (Hiroshima Univ. Graduate School of Eng.) YASUDA, Akira; MIYATA, Hajime; YAMANAKA, Shoji
- 3B3-18** Integration of metal clusters using low molecular Pt complex (Tokyo Univ. of Science) ITOU, Shouta; MIYAZATO, Yuji; TADOKORO, Makoto
- 3B3-19*** New iron oxide Sr₃Fe₂O₈ obtained by low-temperature reduction reaction with metal hydride (Graduate School of Science, Kyoto Univ.) KAGEYAMA, Hiroshi; TSUJIMOTO, Yoshihiro; TASSEL, Cedric; WATANABE, Takashi; YOSHIMURA, Kazuyoshi; HAYASHI, Naoki; TAKANO, Mikio

Sunday, March 29, PM

Heavy Element

Chair: YOSHIMURA, Takashi (13:30~14:20)

- * 13:20-13:30: interval for laptop PC connection.(3B3-28, 3B3-29, 3B3-30, 3B3-31, 3B3-32)
- 3B3-28** Separation and Recovery of Rare-Earth Elements from Neodymium Magnet Grinding Sludge (Wakayama Univ., Faculty of Systems Engineering) KITANO, Kouji; YAJIMA, Setuko; KIMURA, Keiichi
- 3B3-29** Anion-exchange behavior of element-105 (Db) in HF/HNO₃ solutions using a newly developed on-line experimental system (JAEA) TSUKADA, Kazuaki; KASAMATSU, Yoshitaka; ASAI, Masato; TOYOSHIMA, Atsushi; ISHII, Yasuo; LI, Zijie; KIKUCHI, Takahiro; SATO, Tetsuya; NISHINAKA, Ichiro; NAGAME, Yuichiro; GOTO, Shin-ichi; HASEGAWA, Taichi; KUDO, Hisaaki; FUJISAWA, Hiroyuki; OOE, Kazuhiro; YAHAGI, Wataru; SATO, Wataru; SHINOHARA, Atsushi; NANRI, Tomohiro; ARAKI, Mikio; YOKOYAMA, Akihiko; FAN, Fang Li; KUDO, Yuki; OURA, Yasuji
- 3B3-30** ⁵⁷Mn in-beam Moessbauer spectroscopy in HIMAC (RIKEN;ICU; Tokyo Univ. Sci.;Osaka Univ.;NIRS) KOBAYASHI, Yoshio; KUBO, Kenya; YAMADA, Yasuhiro; SATO, Wataru; MIHARA, Mototsugu; SATO, Shinji; KITAGAWA, Atsushi
- 3B3-31** Stability of hydrogen-like atom muonium in calcium phosphate (ICU;RIKEN;KEK) KUBO, Kenya; WATANABE, Isao; NISHIYAMA, Kusuo
- 3B3-32** Development of an on-line isothermal gas chromatographic apparatus for gas chemistry of Sg(Z=106) (JAEA) SATO, Tetsuya; ASAI, Masato; TSUKADA, Kazuaki; TOYOSHIMA, Atsushi; KASAMATSU, Yoshitaka; LI, Zijie; ISHII, Yasuo; HABA, Hiromitsu; GOTO, Shin-ichi; KUDO, Hisaaki; NAGAME, Yuichiro

Monday, March 30, AM

Porous Compound

Chair: UCHIDA, Sayaka (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(4B3-01, 4B3-02, 4B3-03, 4B3-05)
- 4B3-01** Synthesis of GTS-type Titanosilicates (Na,K)₄Ti₄Si₃O₁₆·yH₂O and their dehydration-hydration reaction (Yamaguchi Univ.) FUJIWARA, Keiko; SHIODE, Tomoyuki; SUGIMOTO, Hirokazu; NAKATSUKA, Akihiko; NAKAYAMA, Noriaki; NIKORAVA, Rositsa
- 4B3-02** Water Nanotube Cluster Stabilizing in Molecular Nanoporous Crystal Selforganized from Metal Complexes and Polyoxometalates (Tokyo Univ. of Science) SAITOU, Takahito; IIDA, Chihiro; MIYAZATO, Yuji; TADOKORO, Makoto
- 4B3-03*** A new and stable XeCu⁺ compound prepared by utilizing a reaction pot having dimension in sub-nanometer size (Okayama Univ.) TORIGOE, Hiroe; MORI, Toshinori; OHKUBO, Takahiro; YAMASHITA, Hiroki; YUMURA, Takashi; KOBAYASHI, Hisayoshi; KURODA, Yasushige
- 4B3-05*** Unusual behaviors of the Xe atom inside a nanometer-scaled space of ZSM-5 zeolite: A theoretical study (Kyoto Institute of Technology and Okayama Univ.) YAMASHITA, Hiroki; TORIGOE, Hiroe; YUMURA, Takashi; KOBAYASHI, Hisayoshi; KURODA, Yasushige

Chair: TADOKORO, Makoto (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(4B3-08, 4B3-09, 4B3-10,

- 4B3-12, 4B3-13)
4B3-08[#] Dramatic Thermodynamic Rearrangement of a Crystalline Coordination Network via an Amorphous Phase (School of Engineering, The Univ. of Tokyo) MARTI-RUJAS, Javier; OHARA, Kazuaki; KAWANO, Masaki; HASHIZUME, Daisuke; FUJITA, Makoto
4B3-09[†] Room-temperature single-step synthesis and mesoporous properties of n-alkylammonium/MnO₂ layered hybrids (Kyoto Univ.) KAI, Kazuya; YOSHIDA, Yukihiko; KAGEYAMA, Hiroshi; TOKIDOME, Yasuaki; NAKANISHI, Kazuki; SAITO, Gunji
4B3-10* Highly Selective Sorption of Small Unsaturated Hydrocarbons by Polyoxometalate-based Compound with Silver Ion (School of Engineering, The Univ. of Tokyo) UCHIDA, Sayaka; KAWAMOTO, Ryosuke; TAGAMI, Hanae; NAKAGAWA, Yoshinao; MIZUNO, Noritaka

Polyoxometalate

- 4B3-12** Hydrogen evolution from water catalyzed by visible-light-response TiO₂-based materials sensitized by Keggin-type rhenium(V)-substituted polyoxometalate (Shizuoka Univ., Faculty of Science) HARA, Kazunobu; ENDO, Miho; KATO, Chika
4B3-13 Synthesis and X-ray crystal structure of a dimeric, Keggin-type dialuminum(III)-containing polyoxometalate (Shizuoka Univ., Faculty of Science) KATAYAMA, Yurika; KATO, Masao; KATO, Chika

Chair: ITO, Takeru (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(4B3-15, 4B3-16, 4B3-17, 4B3-18, 4B3-19)
4B3-15 Fabrication and Optical Properties of Transparent Films of Rare-earth Decatungstate [LnW₁₀O₃₆]-Salts (Tokyo Institute of Technology Chemical Resources Laboratory) ISHIHARA, Noritaka; NARUKE, Haruo
4B3-16 Structure of sandwich-type polyoxometalates [Ce^{III/IV}(PW₁₁O₃₉)₂]^{11-/10-} and its spontaneous resolution. (Chemical Resources LaboratoryTokyo Institute of Technology) IJIMA, Jun; NARUKE, Haruo
4B3-17 Crystal structure of nickel molybdate hydrate NiMoO₄·nH₂O (Graduate School of Sciences, Kobe Univ.) EDA, Kazuo; OHSHIRO, Yu; SATO, Hirotohi
4B3-18 Size-Selective Sorption of Small Organic Molecules by Polyoxometalate-based Compound with Aromatic Ligands (Univ. of Tokyo; Mizuno Lab.) TAGAMI, Hanae; UCHIDA, Sayaka; MIZUNO, Noritaka
4B3-19*[†] Synthesis of a Dialuminum-Substituted Silicotungstate and the Diastereoselective Cyclization of Citronellal Derivatives (Univ. of Tokyo) KIKUKAWA, Yuji; YAMAGUCHI, Syuhei; NAKAGAWA, Yoshinao; UEHARA, Kazuhiro; UCHIDA, Sayaka; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

Monday, March 30, PM

Physical Property

Chair: NISHIMOTO, Shunsuke (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(4B3-28, 4B3-29, 4B3-30, 4B3-32, 4B3-33)
4B3-28 Synthesis and magnetic and charge transport properties of the correlated 4d post-perovskite CaRhO₃ (NIMS, Gakushuin Univ.) KAZUNARI, Yamaura; SHIRAKO, Yuichi; KOJITANI, Hiroshi; ARAI, Masao; YOUNG, David; AKAOGI, Masaki; NAKASHIMA, Mamoru; KATSUMATA, Tetsuhiro; INAGUMA, Yoshiyuki; MUROMACHI, Eiji
4B3-29 Synthesis of new amorphous proton conductors of transition metal tripolyphosphates (Hiroshima Univ.) FUKUOKA, Hiroshi; KUBOTA, Yuji; YAMANAKA, Shoji
4B3-30* La-Si Binary Phase Diagram under High-Pressure and New Superconductors (Hiroshima Univ.) YAMANAKA, Shoji; IZUMI, Satoshi

Layered Double Hydroxide

- 4B3-32** Intercalation of fluorescein into layered double hydroxide by coprecipitation method (Iwate Univ.) TANAKA, Miyuki; AISAWA, Sumio; YASUTAKE, Aiko; TAKAHASHI, Satoshi; HIRAHARA, Hidetoshi; NARITA, Eiichi
4B3-33 Synthesis of 5-fluorouracil/layered double hydroxide with peptide coating and its cell cytotoxicity (Iwate Univ.) AISAWA, Sumio; YASUTAKE, Aiko; TAKAHASHI, Satoshi; HIRAHARA, Hidetoshi; NARITA, Eiichi

Chair: AISAWA, Sumio (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(4B3-35, 4B3-36, 4B3-37, 4B3-38, 4B3-39, 4B3-40)
4B3-35 Solid phase reaction of layered double hydroxide with sodium valproate (Kobe Pharm. Univ.) HAYASHI, Aki; NAKAYAMA, Hirokazu
4B3-36 Intercalation of Cubic Octameric Silicate into Layered Double Hydroxide and the Properties of the Products (WASEDA Univ.) OGAWA, Takashi; KURODA, Yoshiyuki; KURODA, Kazuyuki
4B3-37 Intercalation of Photofunctional Dendrimer into Layered Double Hydroxide (Department of Material and Energy Science, Graduate School of Environmental Science, Okayama Univ.) TANAKA, Toshiyuki;

NISHIMOTO, Shunsuke; TAKAGUCHI, Yutaka; MATSUDA, Motohide; MIYAKE, Michihiro

- 4B3-38** Withdrawn
4B3-39 Reversible changes in the basal spacing of Mg/Al layered double hydroxide with interlayer [Cu(edtmp)]. (Univ. of Tokushima; Univ. of Tokushima) KAMO, Yuichi; KANEZAKI, Eiji; KURASHINA, Masasi
4B3-40 Intercalation of Eu(EDTMP) into Mg/Al layered double hydroxide (Univ. of Tokushima; Univ. of Tokushima) FUNAKOSHI, Toshihiro; KURASHINA, Masashi; KANEZAKI, Eiji

Room B4

Bldg.14 1434

Organic Crystals

Sunday, March 29, AM

structure and properties

Chair: SATO, Naoki (9:30~10:20)

- * 9:20-9:30: interval for laptop PC connection.(3B4-04, 3B4-05, 3B4-06, 3B4-07, 3B4-08)
3B4-04 The crystal structure of a metachromatic dyeToluidine blue (Yokohama Natl. Univ.; Univ. of Latvia; Rigaku Co.) SATO, Saori; MATSUMOTO, Shinya; FREIVALDS, Talivaldis; ERENPREISA, Jekaterina; SHIRO, Motoo
3B4-05 Structure-property relationship in three crystal modifications of 5-*t*-butyl-2,3-dicyano-6-[4-(dimethylamino)styryl]pyrazine (Yokohama Natl. Univ.;Musashino Univ.;Osaka Pref. Univ.;Rigaku Co.) ETO, Ryohei; SATO, Saori; MATSUMOTO, Shinya; Horiguchi-BABAMOTO, Emi; YASUI, Eiko; TAKAMURA, Norio; KOBAYASHI, Takashi; NAITO, Hiroyoshi; SHIRO, Motoo
3B4-06 Isostructurality of 5-*t*-butyl-2,3-dicyano-6-[4-(dialkylamino)styryl]pyrazine derivatives (Yokohama Natl. Univ.; Musashino Univ.; Rigaku Co.) SHINOHARA, Youhei; ETO, Ryohei; MATSUMOTO, Shinya; Horiguchi-BABAMOTO, Emi; SHIRO, Motoo
3B4-07 Analysis on Polymorph-dependence of the Solid-state ES IPT luminescence (IIS, Univ. of Tokyo; Shibaura Inst. Tech.) MUTAI, Toshiaki; OHKAWA, Tatsuya; TOMODA, Haruhiko; YABE, Yuji; ARAKI, Koji
3B4-08 Control of the Molecular Arrangements and Solid-state Luminescence Properties for the CT complexes using Organic Salts with Tetracyanobenzene. (Graduate School of Engineering, Osaka Univ.) NAKAJIMA, Hiromi; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji

crystal structure and molecular structure

Chair: MUTAI, Toshiaki (10:30~11:30)

- * 10:20-10:30: interval for laptop PC connection.(3B4-10, 3B4-11, 3B4-12, 3B4-13, 3B4-14, 3B4-15)
3B4-10 Synthesis and characterization of a molecule fabricated by connecting donor and acceptor segments with a quinoid bridge carrying two thiazole rings: BDTBP (Institute for Chemical Research, Kyoto Univ.) FUKUHARA, Sho; HIRAMATSU, Takaaki; YOSHIDA, Hiroyuki; SATO, Naoki
3B4-11 Crystal structure of dimethylamino-substituted pyridinium 1,3-dihydro-1,3-dioxo-2H-inden-2-ylide (PI) (Institute for Chemical Research, Kyoto Univ.) KAWAUCHI, Tatsuro; TSUTSUMI, Jun'ya; YOSHIDA, Hiroyuki; SATO, Naoki
3B4-12 Supramolecular Assemblies in Crystal Phases of Cinchona Alkaloid Borane Complexes (Graduate School of Engineering, Osaka Univ.) SHIZUKI, Norie; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
3B4-13 Structure comparison of inclusion crystals of 1,1,2,2-tetrakis(4-hydroxyphenyl)ethane and imidazole derivatives (Tokyo Institute of Technology) TAKEDA, Takenori; UEKUSA, Hidehiro; SEKINE, Akiko; AMANOKURA, Natsuki; KANEKO, Masami; SUZUKI, Hiroshi
3B4-14 Construction of Helical Structure Using Conformational Property of Aromatic Sulfonamides (Tokushima Bunri Univ.) IKEDA, Takashi; MASU, Hyuma; KATAGIRI, Kosuke; TOMINAGA, Masahide; MATSUMURA, Mio; TANATANI, Aya; AZUMAYA, Isao
3B4-15 Synthesis and Conformational Analysis of Aromatic Cyclic Triamides Bearing Carboxyl Groups (Ochanomizu Univ.) MATSUMURA, Mio; KOMATSU, Daisuke; MASU, Hyuma; KATAGIRI, Kosuke; AZUMAYA, Isao; KAGECHIKA, Hiroyuki; TANATANI, Aya

Sunday, March 29, PM

solid-state photo-reaction

Chair: SAKAMOTO, Masami (14:30~15:30)

- * 14:20-14:30: interval for laptop PC connection.(3B4-34, 3B4-36, 3B4-38)
3B4-34* Structures and properties of anionic weak acceptors and their Donor-

Anion type organic conductors (Univ. of Hyogo) AKUTSU, Hiroki; SASAI, Takashi; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi

3B4-36* Mechanism Analysis of Phase Transition and Photoisomerization of Muonic Derivative Polymorphs (Osaka City Univ.) NISHIZAWA, Natsuko; MATSUMOTO, Akikazu

3B4-38* Crystalline-state [2+2] photodimerization and photopolymerization of fluorinated diphenylpolyenes (National Institute of Advanced Industrial Science and Technology (Nanotechnology Research Institute, Technical Center, Research Institute of Computational Sciences)) SONODA, Yoriko; GOTO, Midori; TSUZUKI, Seiji; AKIYAMA, Haruhisa; TAMAOKI, Nobuyuki

Chair: MATSUMOTO, Akikazu (15:40~16:30)

* 15:30-15:40: interval for laptop PC connection.(3B4-41, 3B4-43, 3B4-44)

3B4-41* Control of molecular alignment and solid-state photodimerization of 4-azachalcones through cation- π interactions (Ochanomizu Univ.) TOKUGAWA, Yoko; YAMADA, Shinji

3B4-43 Solid-state Photodimerization of Chromone Derivatives (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; KANEHIRO, Masayuki; MINO, Takashi; FUJITA, Tsutomu

3B4-44* Photochromic Behavior Based on the Photo-induced Linkage Isomerization of a Luminescent Copper(I) Complex (Hokkaido Univ.) KATO, Masako; KAMADA, Waka; KOBAYASHI, Atsushi; CHISHINA, Yoko; TSUGE, Kiyoshi

crystal and structure

Chair: UEKUSA, Hidehiro (16:40~17:40)

* 16:30-16:40: interval for laptop PC connection.(3B4-47, 3B4-49, 3B4-51)

3B4-47* Electrocrystallized Formation of One-dimensional Nanowire of Fullerene Stabilized by triarylmethane Dyes (Toho Univ) MORIYAMA, Hiroshi; SUGIURA, Takahito; MORI, Hatsumi

3B4-49** Unique assembling behaviors of [70]fullerene on addition of aliphatic amines (Graduate school of Engineering, Kyushu Univ.) MATSUOKA, Ken-ichi; AKIYAMA, Tsuyoshi; YAMADA, Sunao

3B4-51* Study of adsorption process of benzene on silicalite-1 zeolite (National Defense Academy; Applied Chemistry) KUDO, Tomokazu; KAMIYA, Natsumi; NISHI, Koji; YOKOMORI, Yoshinobu

Monday, March 30, AM

molecular recognition

Chair: TAMURA, Rui (9:30~10:20)

* 9:20-9:30: interval for laptop PC connection.(4B4-04, 4B4-05, 4B4-06, 4B4-08)

4B4-04 Synthesis and characterization of organic ionic plastic crystals (Department of Materials and Life Sciences, Sophia Univ.) MURAMATSU, Yuusuke; FUJITA, Masahiro; TAKEOKA, Yoko; RIKUKAWA, Masahiro

4B4-05 Double headed trifluoroacetates with aromatic ring moiety (Department of Applied Chemistry, Faculty of Engineering, Okayama Univ.) KATAOKA, Keisuke; KATAGIRI, Toshimasa; YANAGI, Masato; MANABE, Yousuke; TAKAHASHI, Satoshi

4B4-06* Gas storage in soft 1D nano-tunnels by the induced fit of a serration structure (Okayama Univ.; Industrial Technology Center of Okayama Prefecture; Chiba Univ.) KATAGIRI, Toshimasa; TAKAHASHI, Satoshi; TANAKA, Yasuhiro; KAWABATA, Kouji; HATTORI, Yoshiyuki; KANEKO, Katsumi; UNEYAMA, Kenji

4B4-08 Molecular Recognition of (S)-Threonyl-(S)-phenylglycine with Alcohols (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; TOMA, Shusaku; MATSUMOTO, Shoji; OGURA, Katsuyuki

Chair: AKAZOME, Motohiro (10:30~11:20)

* 10:20-10:30: interval for laptop PC connection.(4B4-10, 4B4-11, 4B4-12, 4B4-14)

4B4-10 Synthesis and Chirality Recognition Ability of Bulky Primary Chiral Amines (Univ. of Tokyo) ANDO, Tetsuo; KOBAYASHI, Yuka; ITO, Hiroshi; SAIGO, Kazuhiko

4B4-11 Development of a Heterogeneous Asymmetric Reaction by Using Chiral Two-Component Crystals (Univ. of Tokyo) MATSUMOTO, Akiko; KOBAYASHI, Yuka; ITO, Hiroshi; SAIGO, Kazuhiko

4B4-12* Optical resolution of alcohol by cholic amide: Analysis of optical selectivity by lattice energy calculations with first principle methods (National Institute of Advanced Industrial Science and Technology, Graduate School of Engineering, Osaka Univ.) TSUZUKI, Seiji; ORITA, Hideo; HONDA, Kazumasa; MIKAMI, Masahiro; ABURAYA, Kazuaki; WATABE, Tsuyoshi; ICHIRO, Hisaki; TOHNAI, Norimitsu; MIYATA, Mikiji

4B4-14 Intercalation by Cholamide Inclusion Crystals: Enantioselectivity and Layer Inversion. (Graduate School of Engineering, Osaka Univ.) MURAI, Taketoshi; ABURAYA, Kazuaki; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji

Chair: MIYATA, Mikiji (11:30~12:30)

* 11:20-11:30: interval for laptop PC connection.(4B4-16, 4B4-17, 4B4-18,

4B4-19, 4B4-20, 4B4-21)

4B4-16 Chiral Breaking of *N*-Arylpyrimidinethiones by Crystallization (Graduate school of Eng., Chiba Univ.) SAKAMOTO, Masami; SASAHARA, Yuichi; ANDOU, Masaru; MINO, Takashi; FUJITA, Tsutomu

4B4-17 Application of Preferential Enrichment to Amino Acids (Kyoto Univ) IWAMA, Sekai; Horiguchi, Masahiro; TAKAHASHI, Hiroki; TSUE, Hirohito; TAMURA, Rui

crystal and light

4B4-18 Substituent effect on the Patterning of Vapor Deposited Crystalline Films of Diarylethenes (Ryukoku Univ.; Osaka Kyoiku Univ.; Mitsubishi Chemical Group Science and Technology Research Center) UCHIDA, Kingo; CHAKI, Yurie; AKAZAWA, Masako; TSUJIOKA, Tsuyoshi; YAMAZOE, Seiji; KAMITANAKA, Takashi; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro

4B4-19 Photomechanical Behavior of Salicylideneaniline Crystals (Ehime Univ.) TAKECHI, Kyoko; Miyoshi, Saya; KOSHIMA, Hideko

4B4-20 Measurement of Optical Rotatory Dispersion of Phenylalanine Crystals (Ehime Univ.) KATO, Kentaro; KOSHIMA, Hideko

4B4-21 Laser polarization dependence on laser trapping crystallization for glycine (Nara Institute of Science and Technology) SUGIYAMA, Teruki; YUYAMA, Ken-ichi; MASUHARA, Hiroshi

Room B5

Bldg.14 1441

Asian International Symposium -Resources, Energy, Geo Chemistry, Nuclear Chemistry, Radiation Chemistry

Saturday, March 28, PM

(13:00~13:10)

2B5-25* Introductory remarks (The Univ. of Tokyo) HASHIMOTO, Kazuhito

Chair: UCHIDA, Satoshi (13:10~14:30)

2B5-26* Keynote Lecture The efficient organic sensitizers for dye-sensitized solar cells (Ecole Polytechnique Federale de Lausanne) YUM, Jun-Ho

2B5-29* Invited Lecture Proposal of logical directions towards high efficiency dye sensitized solar cells (Fukuoka Industry, Sci. & Tech. Found.) OPANDEY Shyam S. • HAYSE Shuzi

2B5-31* Keynote Lecture Graded TiO₂ film for flexible dye-sensitized solar cell (Tsinghua Univ.) LIN, Hong • LI, Xin • HAO, Feng • LIU, Yizhu • LI, Jianbao

Chair: TAJIMA, Keisuke (14:30~15:50)

2B5-34* Invited Lecture Novel solar cells based on surface complexes of TiO₂ with dicyanomethylene compounds (The Univ. of Tokyo) FUJISAWA, Jun-ichi • NAGATANI, Toshiyuki • SANEHIRA, Yoshitaka • NAKAZAKI, Jotaro • UCHIDA, Satoshi • KUBO, Takaya • SEGAWA, Hiroshi

2B5-36* Keynote Lecture Polymer-PCBM blend cells - Film properties and photovoltaic performance (The Univ. of Hong Kong) DJURISIC, Aleksandra B.

2B5-39* Plenary Lecture Interfacial design and spectroscopic study of polymer-based solar cells (Kyoto Univ.) OHKITA, Hideo

Chair: OHKITA, Hideo (16:00~17:00)

2B5-43* Invited Lecture Furanone-based copolymers towards n-type materials in polymer photovoltaic cells (ERATO, JST) YANG, Chunhe

2B5-45* Invited Lecture The development of fullerene-based materials for Organic Photovoltaic Cells (Miyagi National College of Tech.; Tohoku Univ.; Univ. of California) ENDO, Tomoaki • YOSHIDA, Shin-ichiro • MONMA, Hiroyuki • KONDO, Takeyoshi • YOKOYAMA, Hiromi • KWON, Eunsang • WUDL, Fred

2B5-47* Invited Lecture Nanostructure control in polymer photovoltaic devices by self-organization (The Univ. of Tokyo) TAJIMA, Keisuke

Chair: KUBO, Takaya (17:00~17:30)

2B5-49* Plenary Lecture Conjugated polymer photovoltaic materials (Chinese Academy of Sci.) LI, Yongfang

Energy and Related Chemistry

Sunday, March 29, AM

Photosynthesis, Photo-induced Electron Transfer

Chair: NAKAZAKI, Jotaro (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3B5-01, 3B5-02, 3B5-04, 3B5-05)
- 3B5-01** Construction of a Micro-environment with Porphyrinatotin-SnO₂ for Artificial Photosynthetic Reaction System. (Tokyo Metropolitan Univ., SORST/JST) YAMAZAKI, Tatsufumi; MASUI, Dai; SHIMADA, Tetsuya; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo
- 3B5-02*** Photoinduced Electron Transfer and Photosensitization of Dendrimers with an Organic Dye (Keio Univ.) IMAOKA, Takane; INOUE, Naoki; YAMAMOTO, Kimihisa
- 3B5-04** Development of Self-Assembled Photosynthetic Supramolecules by Substitution of Long Alkyl Chains of Chlorophyll Molecules (Kinki Univ.; Ritsumeikan Univ.) SAGA, Yoshitaka; NISHIMORI, Risato; NAKAI, Yuichi; TAMIYAKI, Hitoshi
- 3B5-05*** Photoinduced electron transfer reactions of oxygen species adsorbed on TiO₂ (Hiroshima Univ.) KOMAGUCHI, Kenji; MARUOKA, Takanori; OYAMA, Yousuke; IMAE, Ichiro; HARIMA, Yutaka

Solar Cell

Chair: UMEYAMA, Tomokazu (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(3B5-08, 3B5-09, 3B5-10, 3B5-12, 3B5-13)
- 3B5-08** Comparison of solar cell performance of dye-sensitized solar cells using ruthenium complexes with different bipyridine ligands (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) SUDO, Hideaki; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 3B5-09** Study on performance improvement of dye sensitized solar cell (DSC) using series-connected tandem structure (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) MOTOMURA, Kenichi; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 3B5-10*** Push-Pull type organic dyes for Dye-Sensitized Solar Cell (RCAST, The Univ. of Tokyo) KOMATSU, Makoto; TAMAKI, Koichi; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 3B5-12** Photovoltaic Properties of Dye Sensitized Solar Cell based on a Series of Carbazooxazole-type Fluorescent Dyes (Hiroshima Univ.) SHIMADA, Yoshihito; OYAMA, Yousuke; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka
- 3B5-13** Fabrication of dye-sensitized solar cells based on phosphorous(V) tetrakis(dimethylaminophenyl)porphyrins (RCAST, The Univ. of Tokyo) FUJINUMA, Naohiro; NAKAZAKI, Jotaro; SANEHIRA, Yoshitaka; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

Chair: OYAMA, Yousuke (11:20~12:30)

- * 11:10-11:20: interval for laptop PC connection.(3B5-15, 3B5-16, 3B5-18, 3B5-19, 3B5-21)
- 3B5-15** Synthesis of Asymmetrically π -elongated Porphyrins for Dye-Sensitized Solar Cells (Kyoto Univ., Kyoto Univ., iCeMS) MATSUBARA, Yusuke; UMEYAMA, Tomokazu; MATANO, Yoshihiro; ITO, Seigo; IMAHORI, Hiroshi
- 3B5-16*†** Dye-sensitized Solar Cells Using Triply-fused Heterometallic Porphyrin Dimers (RCAST, The Univ. of Tokyo) TAMAKI, Koichi; DY, Joanne Ting; NAKAZAKI, Jotaro; SANEHIRA, Yoshitaka; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 3B5-18** Multilayer effect and water additional effect of photocurrent in the dye-sensitized solar cell for zinc porphyrin complexes with ionic groups and N-oxide group. (Faculty of Engineering, Kochi Univ. of Technology) DOI, Tomoya; NINOMIYA, Shouta; SUMI, Katsuhiro
- 3B5-19*†#** Acetylene-linked porphyrin oligomers for high-performance dye-sensitized solar cells (RCAST, Univ. of Tokyo) DY, Joanne Ting; TAMAKI, Koichi; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 3B5-21** Dye-sensitized solar cell using a novel ethynyl-linked porphyrin trimer (RCAST, The Univ. of Tokyo) HAMAMURA, Tomofumi; DY, Joanne Ting; TAMAKI, Koichi; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

Sunday, March 29, PM

Chair: TAJIMA, Keisuke (13:40~14:50)

- * 13:30-13:40: interval for laptop PC connection.(3B5-29, 3B5-30, 3B5-32, 3B5-33, 3B5-34, 3B5-35)
- 3B5-29** Single mode microwave irradiation to improve the efficiency of polymer solar cell (Kyoto Univ.) YOSHIKAWA, Osamu; SONOBE, Taro; SAGAWA, Takashi; YOSHIKAWA, Susumu
- 3B5-30*** Photovoltaic properties of inverted type organic thin film solar cells with surface-treated zinc sulfide (Univ. of Kanazawa) KUWABARA,

Takayuki; NAKAMOTO, Masayuki; YAMAGUCHI, Takahiro; TAKAHASHI, Kohshin

- 3B5-32** Clay electrolyte for High Performance Quasi-Solid Dye Sensitized Solar Cells (the Univ. of Tokyo) INOUE, Tomoyuki; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 3B5-33** Study on dye solution and electrolyte for performance improvement of Black dye-sensitized solar cells (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) AWA, Megumi; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 3B5-34** Study on the improvement of long-term stability of black dye sensitized solar cell (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) NOGUCHI, Kyohei; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 3B5-35** Study on dye sensitized solar cell using stainless steel as a counter electrode. (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) TOYOHARA, Nobuaki; YAMAGUCHI, Takeshi; ARAKAWA, Hironori

Capacitor, Secondary Battery

Chair: TOMITA, Yasumasa (16:40~17:40)

- * 16:30-16:40: interval for laptop PC connection.(3B5-47, 3B5-49, 3B5-50, 3B5-51, 3B5-52)
- 3B5-47*†** Energy-Storable Dye-Sensitized Solar Cells with Tungsten Oxide Electrode (The Univ. of Tokyo, RCAST) SAITO, Yosuke; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 3B5-49** Withdrawn
- 3B5-50** Electrochemical characterization of all-solid-state electric double layer capacitors using inorganic-organic hybrid membrane based on 3-glycidoxypolytrimethoxysilane (Osaka Prefecture Univ.) TADANAGA, Kiyoharu; AOKI, Mami; MIYATA, Akira; TATSUMISAGO, Masahiro
- 3B5-51** Electric double layer capacitors with activated carbons prepared from old newsprint paper (O.I.T) UEDA, Noriaki; TANAHASHI, Ichiro
- 3B5-52** The synthesis of SnP active material by hot soap technique and its application to all-solid-state lithium secondary batteries (Osaka Prefecture Univ.) HAYASHI, Akitoshi; ASO, Keigo; KITAURA, Hirokazu; TATSUMISAGO, Masahiro

Conductor

Chair: KOBAYASHI, Koichi (17:50~18:40)

- * 17:40-17:50: interval for laptop PC connection.(3B5-54, 3B5-55, 3B5-57, 3B5-58)
- 3B5-54** Structural change of Li₂S-P₂S₅ solid electrolytes in the atmosphere (Osaka Prefecture Univ.) HAYASHI, Akitoshi; MURAMATSU, Hiromasa; MINAMI, Keiichi; HAMA, Shigenori; TATSUMISAGO, Masahiro
- 3B5-55*** Synthesis of solid electrolyte, Li₃InBr_{6-y}X_y (X=F, Cl, I) and its ionic conductivity (Univ. of Shizuoka; Univ. of Nihon) TOMITA, Yasumasa; NISHIYAMA, Hiroo; KOBAYASHI, Kenkichi; YAMADA, Koji
- 3B5-57** Anomalous proton conductivities of the polyamide thin films (Tohoku Univ.) NAGAO, Yuki; NAITO, Nobuhiro; YUGAMI, Hiroo
- 3B5-58** Nano-size effect on conduction behavior of Pr₂NiO₄-based mixed conductor (Kyushu Univ.) TOMINAGA, Ken; MATSUMOTO, Hiroshige; ISHIHARA, Tastumi

Monday, March 30, AM

Energy Conversion

Chair: KANEKO, Masao (9:00~9:50)

- * 8:50-9:00: interval for laptop PC connection.(4B5-01, 4B5-02, 4B5-03, 4B5-04)
- 4B5-01** α -O₂ releasing reaction of reactive ceramics by rapid heating. (Research Center for Carbon Recycling and Energy, Tokyo Institute of Technology) TAMAURA, Yutaka; NAGANUMA, Yuuki; HASEGAWA, Noriko; KANEKO, Hiroshi
- 4B5-02** Solar thermochemical reforming of methane(20) Double-walled reactor tube using alkaline carbonate/ceramic composites as a thermal storage medium-III (Niigata Univ.) YAMASHITA, Shingo; INUTA, Shin-ichi; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya
- 4B5-03** Solar thermochemical reforming of methane (21) Catalytically-activated ceramic foam device for CO₂ reforming of methane at high temperature (Niigata Univ.) YAMAWAKI, Yuuhei; NAKAZAWA, Daisuke; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya
- 4B5-04*** Effects of Initial Water Content on Steam Reforming of Aliphatic Hydrocarbons Using Nonthermal Plasma (AIST; Res. Inst. Environ. Manage. Tech.) SUGASAWA, Masami; TERASAWA, Tomoyuki; FUTAMURA, Shigeru

Chair: TAMAURA, Yutaka (10:00~10:50)

- * 9:50-10:00: interval for laptop PC connection.(4B5-07, 4B5-08, 4B5-09, 4B5-10, 4B5-11)
- 4B5-07** Highly Efficient Decomposition of Biomass and its Wastes by Biophotocatalytic Cell (BPCC) (The Institute of Biophotocatalysis Co.

Ltd.) KANEKO, Masao; UENO, Hirohito; NEMOTO, Junichi

- 4B5-08[†]** Highly efficient decomposition of livestock wastes and its model compounds by biophotocemical cell (BPCC) (The Institute of Biophotocemionics Co. Ltd.; Ibaraki Univ.) SAITO, Rie; UENO, Hirohito; NEMOTO, Junichi; FUJII, Yuki; IZUOKA, Akira; KANEKO, Masao
- 4B5-09** Highly-efficient photodecomposition of food wastes by biophotocemical cell (BPCC) (The Institute of Biophotocemionics Co.Ltd.;Ibaraki Univ.) YAMAGUCHI, Saori; UENO, Hirohito; NEMOTO, Junichi; FUJII, Yuki; IZUOKA, Akira; KANEKO, Masao
- 4B5-10** Photocatalytic and/or photochemical dechlorination of chlorinated aromatic compound (Kinki Univ.) FUKU, Koujirou; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 4B5-11** Encapsulation of atomic hydrogen into octasilsesquioxane cages by high-voltage electric discharge (Hiroshima Univ.) OKA, Kazuyuki; MARUOKA, Takanori; KOMAGUCHI, Kenji; IMAE, Ichiro; OYAMA, Yousuke; HARIMA, Yutaka

Hydrogen Evolution

Chair: GOKON, Nobuyuki (11:00~12:00)

- * 10:50-11:00: interval for laptop PC connection.(4B5-13, 4B5-14, 4B5-15, 4B5-16, 4B5-17, 4B5-18)
- 4B5-13** Two-step water splitting reaction with CeO₂-Ta₂O₅ system (Tokyo Tech.; Dep. of Chem.) ISHIHARA, Toshihiko; KANEKO, Hiroshi; HASEGAWA, Noriko; TAMAURA, Yutaka
- 4B5-14** Chemical Energy Conversion of Concentrated Solar Energy(84) Structure Control of CeO₂ for Two-step Water Splitting Reaction (Tokyo Institute of Technology) HOSOGOE, Koichiro; KANEKO, Hiroshi; HASEGAWA, Noriko; TAMAURA, Yutaka
- 4B5-15** Chemical Energy Conversion of Concentrated Solar Energy (85) Specific Surface Area and Reactivity on Two-Step Water Splitting Process of Ceramics (Tamaura Lab, Tokyo Tech.) ISHIKAWA, Yosuke; KANEKO, Hiroshi; HASEGAWA, Noriko; TAMAURA, Yutaka
- 4B5-16** Effects of stichometry on photo-electrochemical characteristics of CuGaS₂ semiconductor electrodes (The Univ. of Tokyo) MINEGISHI, Tsutomu; YOKOYAMA, Daisuke; OZAKI, Yutaka; KATAYAMA, Masao; TAKATA, Tsuyoshi; KUBOTA, Jun; DOMEN, Kazunari
- 4B5-17[†]** Photoelectrochemical properties of Cu₂ZnSnS₄ (CZTS) thin film in aqueous solution of supporting electrolyte (School of Engineering, the university of Tokyo) YOKOYAMA, Daisuke; MINEGISHI, Tsutomu; OZAKI, Yoshitaka; KATAYAMA, Masao; KUBOTA, Jun; TAKATA, Tsuyoshi; DOMEN, Kazunari
- 4B5-18** Withdrawn

Monday, March 30, PM

Chair: TADANAGA, Kiyoharu (13:10~14:00)

- * 13:00-13:10: interval for laptop PC connection.(4B5-26, 4B5-27, 4B5-28, 4B5-29, 4B5-30)
- 4B5-26** Withdrawn
- 4B5-27** Solar gasification of coal by Direct Irradiation (9)Solar gasification with a fluidized bed of coal cokes by 3kW beam irradiation. (Niigata Univ.) TAKADA, Yasuhiro; ITO, Shota; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya
- 4B5-28** Thermochemical water-splitting by reactive ceramic materials (16) A new reactor system with an internally circulating fluidized bed under direct solar irradiation-IV (Niigata Univ.) KONDOU, Nobuyuki; YAMAMOTO, Hiroki; GOKON, Nobuyuki; KODAMA, Tatsuya
- 4B5-29** Chemical Energy Conversion of ConcentratedSolar Energy (85)- Electric properties of CeO₂-ZrO₂ system reactive ceramics at high temperature- (Tamaura Lab, Tokyo Tech.) LEE, Chong-il; KANEKO, Hiroshi; HASEGAWA, Noriko; TAMAURA, Yutaka
- 4B5-30** Conversion of Concentrated Solar Energy to Chemical Energy (87) Performance of Rotary-type Solar Reactor for CSIRO Solar Concentration System (Tokyo Institute of Technology, Research Center for Carbon Recycling & Energy) KANEKO, Hiroshi; ISHIKAWA, Yosuke; HOSOGOE, Koichiro; LEE, Chon-il; HASEGAWA, Noriko; TAMAURA, Yutaka

Laser Induced, Photo Reaction

Chair: KOMINAMI, Hiroshi (14:10~15:00)

- * 14:00-14:10: interval for laptop PC connection.(4B5-32, 4B5-33, 4B5-34, 4B5-35)
- 4B5-32** Examination of laser-induced splitting of Au and Ag flakes to produce nanoparticles in solutions (Institute of Science and Technology, The Univ. of Tokushima) HASHIMOTO, Shuichi; WERNER, Daniel; UWADA, Takayuki
- 4B5-33** Preparation of Li₂O-SiO₂-P₂O₅ thin films by pulsed laser deposition (Osaka Prefecture Univ.) HAYASHI, Akitoshi; SAKURAI, Yuki; SAKUDA, Atsushi; TATSUMISAGO, Masahiro
- 4B5-34[†]**PHOTOCHROMIC INDUCED FLUORESCENCE RESONANCE ENERGY TRANSFER IN MANGANESE DOPED ZINC SELENIDE NANOCRYSTALS (Graduate School of Science and Engineering, Saitama Univ.) EMIN, Saim; SOGOSHI, Norihito; NAKABAYASHI, Seiichiro

- 4B5-35*** Ab initio study of ultrafast photochemical ring-opening reaction of 1,3-cyclohexadiene (Mitsubishi Chemical. Gr. Sci. and Tech. Res. Center; JAERI) KOBAYASHI, Takao; SHIGA, Motoyuki; MUTAKAMI, Akinori; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro

Room B8

Bldg.14 1444

Education and History

Saturday, March 28, AM

Chair: KIMURA, Isao (9:10~10:20)

- * 9:00-9:10: interval for laptop PC connection.(2B8-02, 2B8-03, 2B8-04, 2B8-05, 2B8-07)
- 2B8-02** Development of environmental-benign teaching material using ionic liquids; Nobel magnetic ionic liquids (Faculty of Education, Kagawa Univ.) TAKAGI, Yumiko; KUSUNOKI, Yoriko
- 2B8-03** Development of environmental-benign teaching material using ionic liquids;application for open campus (Faculty of Education, Kagawa Univ.) TAKAGI, Yumiko; IRIE, Akiko; SASAKI, Nobuyuki; NISHIHARA, Hiroshi
- 2B8-04** Development of environmental-benign teaching material using ionic liquids;application for science partnership project (Faculty of Education, Kagawa Univ.) TAKAGI, Yumiko; IGA, Tatsuya; TAKAHASHI, Chika
- 2B8-05*** The best room temperature condition of alums crystal with Twe tanks type crystal promotion device (Ibaraki Univ.) YAMAMOTO, Katsuhiko
- 2B8-07*** Observation system of NaCl crystallization from its aqueous solution droplet under controlling experimental conditions with a computer and the microscope mounted to a video camera (Hokkaido Univ. of Edu. Sapporo) TAGUCHI, Satoshi; SATOH, Hisanori

Chair: YAMAMOTO, Katsuhiko (10:30~11:30)

- * 10:20-10:30: interval for laptop PC connection.(2B8-10, 2B8-11, 2B8-12, 2B8-13, 2B8-14, 2B8-15)
- 2B8-10** On Determining Conditions of Oscillating Reaction at Events for High School Students (Niigata Univ.) KIMURA, Isao; HIRAKAWA, Manabu
- 2B8-11** Introduction of the oscillating reaction to the experiment of an oxidation-reduction reaction. (Mie prefectural Yokkaichi Yogo High School) FUKUDA, Takeshi; MATSUMURA, Takeko
- 2B8-12** Reduction of nitrobenzene utilizing Pd catalyst supported on chitin (Tokyo Univ. Sci.) ITO, Yuichi; INOUE, Masayuki
- 2B8-13** Reduction of nitrobenzene utilizing VitaminC, iron salt and anionic surfactant (Tokyo Univ. sci.) TSUSHIMA, Takashi; INOUE, Masayuki
- 2B8-14** Teaching material for understanding of oxidation-reduction reaction (Chiba Univ.) HAYASHI, Hideko
- 2B8-15** Teaching practice that measures residual level of synthetic detergent using a simple colorimetric analysis by PVC-film-adsorbent. (Univ. of the Ryukyus) YOSHIDA, Akira; YASUI, Syouchi

Saturday, March 28, PM

Chair: MATSUMOTO, Shinya (14:20~15:20)

- * 14:10-14:20: interval for laptop PC connection.(2B8-33, 2B8-35, 2B8-37, 2B8-38)
- 2B8-33*** Nonadditivity of Volume through Mixing Alkanol with Water (Univ. Electro-Commun.) NAKAGAWA, Tetsuo
- 2B8-35*** Chemical Experiments with the Use of Reaction Calorimetry (Hiroshima Univ.) TATSUOKA, Tomoyuki; MISHIMA, Saki; KOGA, Nobuyoshi; FURUKAWA, Yoshihiro
- 2B8-37** Development of O₂/CO₂ measurement system for science education (Tokyo National College of Technology) TAKAHASHI, Mitsuo; YAMAMOTO, Katsuhiko; HORI, Tesuo; MATSUBARA, Shizuo
- 2B8-38** Effect on risk cognition in chemistry experiment by students' drawing dangerous chart(Hazards Drawings) (Shitennoji Habikigaoka Junior and Senior High School) TAKANO, Hiroe

Chair: TAKAHASHI, Mitsuo (15:30~16:30)

- * 15:20-15:30: interval for laptop PC connection.(2B8-40, 2B8-41, 2B8-43, 2B8-45)
- 2B8-40** Involvement of Field and Laboratory Experiences in College Education of Natural Sciences for Non-Science Majors: A Case Study in Musashi University (Musashi Univ., Fac. of Humanities) MINAI, Yoshitaka; MARUHASHI, Tamaki; IKEDA, Makoto; KATO, Soichi
- 2B8-41*** Electron negativity of atoms in molecule and ion (Tokyo Univ.of Science) INOUE, Masayuki
- 2B8-43*** New chemical structural formula fills up a gap between Valence-bond method and Molecular orbital method (Lab.of Global Energy System) SANO, Hiroshi
- 2B8-45** Practice of a model for Environmental Education based on mobile phone technologies II (Yokohama Natl. Univ.) NARITA, Asami;

NAKAHARA, Yasutaka; INOUE, Hiroki; MATSUMOTO, Shinya; NAKAMURA, Eiko

Chair: NAKAGAWA, Tetsuo (16 : 40~17 : 20)

* 16:30-16:40: interval for laptop PC connection.(2B8-47, 2B8-48, 2B8-49)

2B8-47 Teaching basic chemistry in combination with a web-based self-training system (Tokoha Gakuen Univ.; Tokai Univ.) NAKAGAWA, Kuniaki; OIKAWA, Yoshimichi

2B8-48 Lesson plan of Chemistry based on "context-based approach" in upper secondary school. (Graduate School of Education in Hiroshima Univ.) KUTSUNUGI, Yuki

2B8-49* Investigation and development status of organomolecular devices and its surroundings: bibliographical studies (National Institute of Science and Technology Policy) KAWABATA, Hiroshi

Sunday, March 29, AM

Chair: INOUE, Masayuki (9 : 30 ~10 : 40)

* 9:20-9:30: interval for laptop PC connection.(3B8-04, 3B8-05, 3B8-07, 3B8-09)

3B8-04 The Present condition and Problem in Hokkaido SCOT(Science Collabo Teacher) (Hokkaido Science Education Center) NAKAMURA, Takanobu

3B8-05* The installation of the latest Chemical exhibit space in the domestic Science Museum (Osaka Science Museum) ONO, Masahiro; TAKEGAWA, Yukiko; IYAMA, Ohmi; HASEGAWA, Yoshimi

3B8-07* Science Museum education of plastics from the historical viewpoint (Osaka Science Museum) TAKEGAWA, Yukiko

3B8-09* The idea and lesson deployment of the science study with which the science museum and the junior high school cooperated: the unit of a chemical change, and an atom and a molecule. (Izumo Board of Education; Izumo Science Center) NAKAYAMA, Shinya

Chair: WAKABAYASHI, Fumitaka (10 : 50~11 : 50)

* 10:40-10:50: interval for laptop PC connection.(3B8-12, 3B8-15)

3B8-12 CSJ Award for Merits for Chemical Education Contribution to Chemical Education in Tokai Area with Special Emphasis on Laboratory Exercises for High School Student and Teachers (Inazawa High School) SUGIYAMA, Masaaki

3B8-15 CSJ Award for Merits for Chemical Education Contribution about Spread of Education (Hokkaido Tomakomai West High School) SUZUKI, Satoshi

Sunday, March 29, PM

Chair: MINAL, Yoshitaka (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(3B8-25)

3B8-25 CSJ Award for Chemical Education Contribution to Practice of Science Education from Mass Spectrometry and Physical Chemistry (Faculty of Education and Regional Studies, Univ. of Fukui) ISA, Kimio

Chair: SUGAHARA, Yoshiyuki (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(3B8-32)

3B8-32 CSJ Award for Chemical Education Contribution to High-School Chemistry Education and to Dissemination of Chemical Knowledge (Institute of Industrial Science, the Univ. of Tokyo) WATANABE, Tadashi

Chair: SAITO, Koichi (15 : 20~16 : 50)

* 15:10-15:20: interval for laptop PC connection.(3B8-39, 3B8-42, 3B8-45)

3B8-39 CSJ Award for Merits for Chemical Education Development of Chemical Teaching Materials and Dissemination of Chemistry to Society (Mimomi High School) YAMAMOTO, Kouji

3B8-42 CSJ Award for Merits for Chemical Education Organization of Activities for Chemical Education and Development of Experimental Materials (Tottori Technical High School) ASHIKAGA, Hiroto

3B8-45 CSJ Award for Merits for Chemical Education Practice and Dissemination of Science Education Developing Their Curiosity (Keio Yochisha Elementary School) TAKANASHI, Masahide

Room C1

Bldg.7 734

Polymer

Saturday, March 28, AM

Polymer Structure and Property

Chair: OYAIZU, Kenichi (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2C1-01, 2C1-02, 2C1-03, 2C1-04, 2C1-05)

2C1-01# Effect of Water on the Changes in Polymer/Water Interface for the Hydrocarbon Polymer Electrolyte Membrane for Fuel Cell (FC-Cubic, AIST) BARIQUE, A. Mohammad; OHIRA, Akihiro; KIDENA, Koh; TAKIMOTO, Naohiko

2C1-02 Dispersion-Flocculation Transition in Suspension of PMMA/Silica Nano-Particle Hybrids:Effect of Water (College of Science and Technology, Nihon Univ.) SHIMAMOTO, Hibiki; SAKURAI, Atsushi; HATAI, Suguru; SAWAGUCHI, Takashi; HOSHI, Toru; HAGIWARA, Toshiki; YANO, Shoichiro

2C1-03 Plasticizing effects on guest exchange process of syndiotactic polystyrene (Graduate School of Science, Osaka Univ.) KANEKO, Fumitoshi; TSUCHIDA, Tsuyoshi; OKUYAMA, Kenji

Polymer Engineering

2C1-04 Variations in Tensile Strength and Spin-lattice Relaxation Time of Plastic Films Alloyed with Ligno-p-cresol during Photodegradation Process (Mie Industrial Research Institute) FUNAKI, Atsuo; KONISHI, Kazuyori

Polymer Structure and Property

2C1-05* Functional Materials of Cyclic Organic Modules. (NIMS) SHOMURA, Ryo; HIGUCHI, Masayoshi

Chair: KANEKO, Fumitoshi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2C1-08, 2C1-09, 2C1-11, 2C1-12)

2C1-08 Synthesis of Nitroxide Radical Derivative and Supramolecular Structure via Hydrogen Bonding (Dept. Appl. Chem., Waseda Univ.) MINATOZAKI, Masayuki; NAKAJIMA, Satoshi; NISHIDE, Hiroyuki

2C1-09* Development of Dendritic Materials with Potential Gradient (Keio Univ.) ALBRECHT, Ken; YAMAMOTO, Kimihisa

2C1-11 Programming of potential gradient by using dendrimer (Univ. of Keio Faculty of Science and Technology) SAKANE, Noriko; ALBRECHT, Ken; YAMAMOTO, Kimihisa

2C1-12* Synthesis and Evaluation of Hard-Soft Convertible Network Polymers: Dependence of Molecular Weight of Crystallizable Prepolymer (Univ. of Tokyo) ISHIDA, Kazuki; NISHIYAMA, Yoshitake; MICHIMURA, Yuta; YOSHIE, Naoko

Chair: HIGUCHI, Masayoshi (11 : 20~12 : 00)

* 11:10-11:20: interval for laptop PC connection.(2C1-15, 2C1-17, 2C1-18)

2C1-15* Synthesis and Function of Novel on Polyrotaxane. 1. Polymer Capable of Changing Graft Chain Length (Tokyo Institute of Technology) KOHSAKA, Yasuhiro; KOYAMA, Yasuhiro; KONISHI, Gen-ichi; TAKATA, Toshikazu

2C1-17 Synthesis and Function of Novel on Polyrotaxane 2. Recyclable Network Polymer. (Tokyo Institute of Technology) KOHSAKA, Yasuhiro; KOYAMA, Yasuhiro; TAKATA, Toshikazu

2C1-18* Synthesis of pi-Conjugated Polymers Containing Selenophene 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

Saturday, March 28, PM

Polymer Reaction

Chair: YAMAMOTO, Kimihisa (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 and Properties of Low Band Gap Heterocycle-containing pi-conjugated Polymers from Organotitanium Polymers (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) FUKUSHIMA, Mizuki; TOMITA, Ikuyoshi

2C1-27 New Grafting Method and Cross-linking Exploiting Nitrile N-Oxide (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) KOYAMA, Yasuhiro; YONEKAWA, Morio; TAKATA, Toshikazu

2C1-28 Synthesis and characterization of structure-definite graft polyrotaxane and polyrotaxane network (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) TAKASHIMA, Tomoyuki; KOYAMA, Yasuhiro; NAKAZONO, Kazuko; TAKATA, Toshikazu

2C1-29 Direct synthesis of cyclic polymer from linear polymer using rotaxane. (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) KUNIMOTO, Akinobu; MAKITA, Yoshimasa; KOYAMA, Yasuhiro; TAKATA, Toshikazu

2C1-30 Anti-yellowing Reaction of Nylon 6 Fiber by using reducing Sugar (Osaka Municipal Technical Research Institute) OHE, Takeru; YOSHIMURA, Yurika

Polymer Synthesis

Chair: TOMITA, Ikuyoshi (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(2C1-32, 2C1-33, 2C1-34, 2C1-36)
- 2C1-32** Preparation and characteristics of ultra-thin PEEK-based polymer electrolyte membranes (Graduate School of Engineering, Gunma Univ.; Japan Atomic Energy Agency) LI, Dengrong; CHEN, Jinhua; ZHAI, Maolin; ASANO, Masaharu; MAEKAWA, Yasunari; OKU, Hinoyuki; YOSHIDA, Masaru
- 2C1-33** Mechanism of radiation-induced graft polymerization of styrene into alicyclic polyimide films. (Faculty of science and Technology, Tokyo Univ. of Science; Japan Atomic Energy Agency) PARK, June; ENOMOTO, Kazuyuki; YAMASHITA, Takashi; MAEKAWA, Yasunari
- 2C1-34*** Introduction of functional molecular chains on perfluoropolymer films by photografting (Japan Atomic Energy Agency (JAEA)) YOSHIDA, Masaru; CHEN, Jinhua; ASANO, Masaharu; MAEKAWA, Yasunari
- 2C1-36*** Synthesis of Poly(fluorene) Derivatives Containing Difluoromethylene Bridged Structure through Electrochemical Polymer Reaction and Their Optoelectric Properties (tokyo institute of technology) HAYASHI, Shotaro; INAGI, Shinsuke; FUCHIGAMI, Toshio

Chair: KOYAMA, Yasuhito (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2C1-39, 2C1-40, 2C1-42, 2C1-43)
- 2C1-39** Microflow System Controlled Anionic Polymerization of Alkyl Methacrylates (Kyoto Univ.) NAGAKI, Aiichiro; MIYAZAKI, Atsuo; TOMIDA, Yutaka; YOSHIDA, Jun-ichi
- 2C1-40*†** Synthesis of Structural Well-defined Polymers by Means of Microflow System Living/Controlled Anionic Polymerization of Styrenes (Kyoto Univ.) TOMIDA, Yutaka; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 2C1-42** Synthesis of Novel Conjugated Polymers via Aza-Wittig Polymerization (Kyoto Univ.) TSUJI, Yuichi; MIYAKE, Junpei; CHUJO, Yoshiki
- 2C1-43*** Aza-Wittig Polymerization: Development and Application (Kyoto Univ.) MIYAKE, Junpei; CHUJO, Yoshiki

Chair: MORISAKI, Yasuhiro (16 : 30~17 : 40)

- * 16:20-16:30: interval for laptop PC connection.(2C1-46, 2C1-47, 2C1-48, 2C1-49, 2C1-50, 2C1-51)
- 2C1-46** Synthesis of polymers containing fluorinated tetrahydropyran unit based on Prins cyclization (Tokyo Tech) INAGI, Shinsuke; DOI, Yuta; FUCHIGAMI, Toshio
- 2C1-47** Synthesis of γ -Polyketone Bearing Ester Groups and Its Application (The Univ. of Tokyo) NAKAMURA, Akifumi; MUNAKATA, Kagehiro; KOCHI, Takuya; NOZAKI, Kyoko
- 2C1-48** Alternating Copolymerization of Epoxides with Carbon Dioxide Catalyzed by Cr-salalen Complexes (The Univ. of Tokyo) NAKANO, Koji; NAKAMURA, Mitsuru; NOZAKI, Kyoko
- 2C1-49** Synthesis and Applications of Polyolefin-Polyester Block Copolymers (College of Science and Technology, Nihon Univ.) SASAKI, Daisuke; SUZUKI, Yoshihiro; HOSHI, Toru; HAGIWARA, Toshiki; SAWAGUCHI, Takashi
- 2C1-50** Synthesis and Application of Polypropylene-Poly(Acrylic acid) Block Copolymer. (College of Science and Technology, Nihon) HASEGAWA, Shinya; SASAKI, Daisuke; HOSHI, Toru; HAGIWARA, Toshiki; SAWAGUCHI, Takashi
- 2C1-51*** Poly(vinylacetylene) block copolymers as precursors for nanocarbon materials (Carnegie Mellon Univ.) AIMI, Junko; MATYJASZEWSKI, Krzysztof

Asian International Symposium -Polymer-
New Wave in Polymer Chemistry-

Sunday, March 29, PM

(13 : 00~13 : 10)

- 3C1-25***
- Introductory remarks (Kyoto Univ.) CHUJO, Yoshiki

Chair: AOKI, Toshiki (13 : 10~14 : 10)

- 3C1-26*** Keynote Lecture New optical functions and applications of poly(diphenylacetylene) derivatives (Kyungpook National Univ.) KWAK, Giseop
- 3C1-30*** Invited Lecture Development of chirality-responsive dynamic helical polymers (Kanazawa Univ.) MAEDA, Katsuhiko

Chair: SHIBAYAMA, Mitsuhiro (14 : 10~14 : 50)

- 3C1-32*** Invited Lecture Design and fabrication of a high-strength hydrogel with ideally homogeneous network structure from tetrahedron-like macromonomers (The Univ. of Tokyo) SAKAI, Takamasa
- 3C1-34*** Invited Lecture Synthesis of novel olefin block copolymers using fluorenylamidodimethyltitanium-based catalyst (Hiroshima Univ.) OCAI, Zhengguo • NAKAYAMA, Yuushou • SHIONO, Takeshi

3C1-36* Intermission

Chair: KAMIGAITO, Masami (15 : 00~16 : 00)

- 3C1-37*** Keynote Lecture Organic-inorganic hybrid polymers for electronic applications (Industrial Tech. Res. Inst.) CHIOU, Kuo-Chan
- 3C1-41*** Invited Lecture Synthesis and properties of π -stacked polymers: A new type of molecular wires (Kyoto Univ.) MORISAKI, Yasuhiro

Chair: TAKATA, Toshikazu (16 : 00~17 : 00)

- 3C1-43*** Invited Lecture Single molecular imaging of a chiral π -conjugated polymer toward the molecular devices based on precise polymer chemistry (JAIST) SHINOHARA, Ken-ichi
- 3C1-45*** Keynote Lecture Chemical aspects of semiconducting polymers for polymer solar cells (Kyungpook National Univ.) KIM, Young-Kyoo

Chair: IHARA, Eiji (17 : 00~17 : 30)

- 3C1-49***
- Special Lecture Electroluminescent polymers and dendrimers for PLED (Chinese Academy of Sci.) WANG, Lixiang

(17 : 30~17 : 40)

- 3C1-52***
- Concluding remarks (Ehime Univ.) IHARA, Eiji

Polymer

Monday, March 30, AM

Polymer Synthesis

Chair: TAKEUCHI, Daisuke (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4C1-01, 4C1-02, 4C1-04, 4C1-05)
- 4C1-01** Synthesis and Properties of Polycarbonate Derived from 9,9-Diarylfuorene Trimer as Monomer (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) HASEGAWA, Toshihide; KOYAMA, Yasuhito; TAKATA, Toshikazu
- 4C1-02*** Synthesis and optical property of polyester and polycarbonate containing spirobifluorene moieties in the main chain (Dept. of Organic and Polymeric Materials, Tokyo Inst. of Tech.) SETO, Ryota; SATO, Takashi; KOJIMA, Takahiro; KOYAMA, Yasuhito; TAKATA, Toshikazu
- 4C1-04** Synthesis and optical properties of polythioethers consisting of spirobifluorene moieties in the main chain (Dept. of Organic and Polymeric Materials, Tokyo Inst. of Tech) OKUDA, Hitoshi; ISHIWARI, Fumitaka; SETO, Ryota; KOYAMA, Yasuhito; TAKATA, Toshikazu
- 4C1-05*†** Formation of a Catenane via the Cyclization of a Telechelic Polymer Having a Hydrogen-Bonding Unit (Tokyo Tech) ISHIKAWA, Kazuyuki; YAMAMOTO, Takuya; TEZUKA, Yasuyuki

Polymer Synthesis

Chair: ONIMURA, Kenjiro (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(4C1-08, 4C1-09, 4C1-11, 4C1-12)
- 4C1-08** Synthesis of Di- and Tricyclic Paddle-Shaped Polymers through Click Chemistry (Tokyo Tech) SUGAI, Naoto; YAMAMOTO, Takuya; TEZUKA, Yasuyuki
- 4C1-09*** Synthesis and Structure of Polyacetylene Bearing Rotaxane Moieties on the Side Chain (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) ISHIWARI, Fumitaka; FUKASAWA, Keiichi; SATO, Takashi; KOYAMA, Yasuhito; TAKATA, Toshikazu
- 4C1-11** SStructure-determination of optically active helical polymers containing C₂ chiral spirobifluorene moiety in the main chain (Dept. of Organic and Polymeric Materials, Tokyo Inst. of Tech.) SETO, Ryota; SATO, Takashi; KOYAMA, Yasuhito; TAKATA, Toshikazu
- 4C1-12** Preparation of Azidated Polyrotaxanes for Well-defined Functionalization through Click Chemistry (The school of materials science Japan Advanced Institute of Science and Technology; CREST, JST) HYUN, Hoon; KATOONO, Ryo; SAITO, Yusuke; MIURA, Yoshiko; YUI, Nobuhiko

Polymer Synthesis

Chair: YAMAMOTO, Takuya (11 : 10~11 : 50)

- * 11:00-11:10: interval for laptop PC connection.(4C1-14, 4C1-15, 4C1-17)
- 4C1-14** Synthesis of Polymers having chiral bisoxazoline pendant group via Click Reaction (Yamaguchi Univ.) ONIMURA, Kenjiro; TSUCHIYA, Sinichi; YAMABUKI, Kazuhiro; OISHI, Tsutomu
- 4C1-15*** Synthesis of Main Chain-Type Polyrotaxanes Using New Click Chemistry Directed Toward Well-Defined Polyrotaxanes (Tokyo Institute of Technology; Department of Organic and Polymeric Materials.) LEE, Younggi; KOYAMA, Yasuhito; YONEKAWA, Morio; TAKATA, Toshikazu
- 4C1-17** Synthesis of Stable Ditopic Nitrile N-oxide and Its Application to Polymer Synthesis. (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) YONEKAWA, Morio; KOYAMA, Yasuhito; TAKATA, Toshikazu

Monday, March 30, PM

Polymer Synthesis

Chair: SHIONO, Takeshi (13:00~14:10)

* 12:50-13:00: interval for laptop PC connection.(4C1-25, 4C1-26, 4C1-27, 4C1-28, 4C1-29, 4C1-31)

- 4C1-25** The polymerization of vinylsulfonic acid and its characteristics (Dept. Appl. Chem., Waseda Univ.) HIBINO, Toshiyasu; OKAYASU, Teruyuki; NISHIDE, Hiroyuki
- 4C1-26** Inhibition effect of fullerene in photoradical polymerization of methacrylate (RIKEN) DOBASHI, Ryouhei; SASAKI, Takeo; NUMATA, Youhei; MATUURA, Takanori; TAJIMA, Yusuke
- 4C1-27** Synthesis of poly(tetramethylsilylenesiloxane) derivatives with di-benzosilole moiety (Nihon Univ.) IMAI, Kazutoshi; KIHARA, Yoshihiko; TAMAI, Yasufumi; NEMOTO, Nobukatsu
- 4C1-28** Synthesis and Complexation Behavior of Optically Active Polymers Containing Chiral Phosphorus Atoms in the Main Chain (Graduate School of Engineering, Kyoto Univ.) SUZUKI, Kentaro; IMOTO, Hiroaki; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 4C1-29*** Synthesis of Bio-based Polyesters Using Curcumin (Nagoya Univ.) MATSUMI, Noriyoshi; NAKAMURA, Namiko; AOI, Keigo
- 4C1-31** Synthesis of Polymer Particles by Living Coordination Dispersion Polymerization of p-Aminophenoxyallene (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) IWAMOTO, Tadashi; TOMITA, Ikuyoshi

Polymer Synthesis

Chair: SUGINOME, Michinori (14:20~15:30)

* 14:10-14:20: interval for laptop PC connection.(4C1-33, 4C1-34, 4C1-35, 4C1-36, 4C1-37, 4C1-38, 4C1-39)

- 4C1-33** Synthesis of poly(ester-urethane)s from poly(L-lactide) having amino group in the main chain and their ionization (Hiroshima Univ.) INABA, Takamichi; NAKAYAMA, Yuusyou; CAI, Zhengguo; SHIONO, Takeshi
- 4C1-34** Copolymerization of norbornene and nonconjugated dienes using ansa-fluorenylamidodimethyltitanium complex (hiroshima university: graduate school of engineering) TAKENAKA, Takuma; CAI, Zhengguo; NAKAYAMA, Yuusyou; SHIONO, Takeshi
- 4C1-35[#]** Alternating and Random Copolymerization of Isoprene with Ethylene Catalyzed by Cationic Half-Sandwich Scandium Catalysts (Organometallic Chemistry Laboratory, RIKEN) LI, Xiaofang; NISHIURA, Masayoshi; MORI, Kyouchi; HOU, Zhaomin
- 4C1-36** Additive effects of phosphines on polymerization of butadiene with CoCl₂-MAO (Polymer Chemistry Group, Graduate School of Engineering, Hiroshima Univ.) SHINZAWA, Masahito; CAI, Zhengguo; NAKAYAMA, Yuusyou; SHIONO, Takeshi
- 4C1-37** Synthesis and Structure Analysis of Poly(propargylester)s Using Rh Complex Catalyst (Muroran Institute of Technology) YOSHIDA, Yoshiaki; MAWATARI, Yasuteru; SEKI, Chigusa; MATSUYAMA, Haruo; TABATA, Masayoshi
- 4C1-38** Effect of Substituents on the Palladium-catalyzed Polycondensation of Substituted Propargyl Carbonates and Bisphenols. (Department of Applied Chemistry, National Defense Academy) NISHIOKA, Noriyuki; KOIZUMI, Toshio
- 4C1-39** Synthesis of Various π -Conjugated Polymers by Palladium-Catalyzed Three-Component Coupling Polymerization of Aryl Dihalides, 1,4-Divinylbenzene, and Various Acetylenes. (Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology) AOMATSU, Keiichi; TOMITA, Ikuyoshi

Polymer Synthesis

Chair: AOI, Keigo (15:40~16:50)

* 15:30-15:40: interval for laptop PC connection.(4C1-41, 4C1-42, 4C1-43, 4C1-44, 4C1-45, 4C1-46, 4C1-47)

- 4C1-41** Thermodynamic Control of Helical Chirality of Poly(quinoxaline)s using Cooperative/Cancelling Screw-sense Induction with Chiral Side Chains and a Chiral Terminal Group (Kyoto Univ.) YAMADA, Tetsuya; NAGATA, Yuuya; SUGINOME, Michinori
- 4C1-42** Poly(quinoxaline-2,3-diyl)s with Crown Ether Side Chains : Their Synthesis and Asymmetric Helical-Sense Induction by Inclusion of Chiral Guest Molecules (Kyoto Univ.) NAGATA, Yuuya; YASUI, Ryosuke; SUGINOME, Michinori
- 4C1-43** Synthesis and luminescent properties of oligo(quinoxaline-2,3-diyl)s with pendant thiophene units (Graduate School of Engineering, Kyoto Univ.) NAGATA, Yuuya; SUGINOME, Michinori
- 4C1-44** Synthesis and Properties of All-cis Poly(arylene vinylene)s Containing Thiophene Cores (Institute for Chemical Research, Kyoto Univ. and Nippon Shokubai Co.,Ltd.) KIKUZAKI, Yuuta; YAMAMOTO, Yasutaka; WAKIOKA, Masayuki; TAKITA, Ryo; OZAWA, Fumiyouki; NAKAMURA, Jun-ichi; IIDA, Toshiya

Functional Polymer

- 4C1-45** Hybridization of Sulfonated Polyaniline and Transition Metals (Osaka Univ.) AMAYA, Toru; SAIO, Daisuke; HIRAO, Toshikazu
- 4C1-46** New copolymers of cycloaliphatic epoxide compound and alpha-olefines (R&D Center Chiba, SHOWA DENKO K.K.) FUJITA, Toshio; KOBAYASHI, Takamitsu; HARA, Masanao; UCHIDA, Hiroshi
- 4C1-47** Charge separation reaction with using rigid phenylazomethine dendrimer (Univ. of Keio) INOUE, Naoki; IMAOKA, Takane; YAMAMOTO, Kimihisa

Room C2

Bldg.7 741

Polymer

Saturday, March 28, AM

Functional Polymer

Chair: ITO, Kaori (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** Dielectric Properties of Poly(TEMPO-substituted methacrylate) Thin Film Devices (Dept. Appl. Chem., Waseda Univ.) ITO, Masayasu; SUGA, Takeo; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2C2-02** Organic Thin Film Devices Based on Poly(TEMPO-Cationic Salt): Fabrication and their Electric and Dielectric Properties. (Dept. Appl. Chem., Waseda Univ.) TAKEUCHI, Shunya; SUGA, Takeo; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2C2-03** Fabrication of Organic Thin Film Transistor with DNA (Faculty of Engineering, Chiba Univ.) YUKIMOTO, Tomoyoshi; HASEGAWA, Masatoashi; ISHIKAWA, Takayuki; KOBAYASHI, Norihisa; UEMURA, Sei; KAMATA, Toshihide
- 2C2-04*** Development of transparent conductive films with polymer composites containing the mixed-valence TTF nanofibers (Kyoto Univ.) TANAKA, Kazuo; KUNITA, Tomoyuki; CHUJO, Yoshiki
- 2C2-06** Synthesis of Benzotrithiophene-linked Polyamine and Derived Poly(aminium cationic radical). (Dept. Appl. Chem. Waseda Univ.) ISHIYAMA, Jun; IBE, Takeshi; NISHIDE, Hiroyuki

Chair: SEKI, Takahiro (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(2C2-08, 2C2-09, 2C2-10, 2C2-12)

- 2C2-08** Simple stabilization of microphase separated structure formed by amphiphilic diblock copolymers with liquid crystalline side chains containing stilbene mesogen (Chemical Resources Laboratory, Tokyo Institute of Technology) OHBA, Motoya; SUZUKI, Yukimitsu; IYODA, Tomokazu; KOMURA, Motonori
- 2C2-09** Integrated Zinc Porphyrin to Histidine Residues at Microphase Segregation Interface of Amphiphilic Diblock Copolymers (Chemical Resources Laboratory, Tokyo Institute of Technology) TANABE, Takafumi; ASAOKA, Sadayuki; IYODA, Tomokazu; SUZUKI, Yukimitsu
- 2C2-10*** Fabrication of nanoporous polymers thin film using thermally cleavage of amphiphilic liquid crystalline block copolymers with sulfonic ester linker (Univ. of Japan Chemical; Japan Chemical Co.Ltd) SUZUKI, Yukimitsu; ITO, Kaori; KOMURA, Motonori; IYODA, Tomokazu
- 2C2-12*** Photoinduced Movement of Crosslinked Azobenzene Liquid-Crystalline Polymer Films Prepared by Electron-Beam Irradiation (Chemical Resources Laboratory, Tokyo Institute of Technology) NAKA, Yumiko; MAMIYA, Jun-ichi; SHISHIDO, Atsushi; WASHIO, Masakazu; IKEDA, Tomiki

Chair: NAKA, Kensuke (11:20~12:10)

* 11:10-11:20: interval for laptop PC connection.(2C2-15, 2C2-16, 2C2-17, 2C2-18, 2C2-19)

- 2C2-15** Synthesis and Properties of Linear and End-Grafted Thermo-sensitive Random Copolymers with LCST (Graduate School of Engineering Nagoya Univ.) KUMANO, Naomi; SUZUKI, Hiromasa; TAKEOKA, Yukikazu; SEKI, Takahiro; KAWAMOTO, Taisuke; HAGA, Hisasi; KAWAVBATA, Kazushige
- 2C2-16** Unexpected thermal responsive behavior of Poly(*N*-isopropylacrylamide) brush by surface initiated polymerization (Graduate School of Engineering Nagoya Univ.) SUZUKI, Hiromasa; KUMANO, Naomi; TAKEOKA, Yukikazu; SEKI, Takahiro; KAWAMOTO, Taisuke; HAGA, Hisasi; KAWAVBATA, Kazushige
- 2C2-17[†]** Layer-By-Layer Thin Films by Water-soluble Conjugated Polymers and SWNT Composites using Self-Assembly (Faculty of Textile Science and Technology, Shinshu Univ.) ADACHI, Naoya; KIMURA, Mutsumi; SHIRAI, Hirofusa

2C2-18 Electrophoresed Composite Films made of Conjugated Polymers and SWNT (Shinshu Univ. Faculty of Textile & Technology/Department of Functional Polymer Science) KAMADA, Shigenori; ADACHI, Naoya; TATEWAKI, Yoko; FUKAWA, Tadashi; KIMURA, Mutsumi; SHIRAI, Hirofusa

2C2-19 Preparation of Hole-Conductive Mesostructured Films Consisting of Phenylenevinylene-Silica Hybrid Frameworks (Toyota Central R&D Labs., Inc.; JST-CREST) MIZOSHITA, Norihiro; IKAI, Masamichi; TANI, Takao; INAGAKI, Shinji

Saturday, March 28, PM

Chair: KOKUBO, Hisashi (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(2C2-27, 2C2-29, 2C2-31)

2C2-27* 2D Sheet-Shaped Macromolecules and Covalent Organic Frameworks: (I) A Luminescent and Semiconducting Poly(triphenylene-pyrene) Belt (IMS; PRESTO; Soukendai) JIANG, Donglin; WAN, Shun; GUO, Jia

2C2-29** 2D Sheet-Shaped Macromolecules and Covalent Organic Frameworks: (I) A Photofunctional Cube from Poly(pyrene) (IMS; PRESTO; Soukendai) JIANG, Donglin; WAN, Shun; GUO, Jia

2C2-31*† Spectral Properties of Polythiophenes in Supramolecular Confinement by Helical Schizophyllan (Graduate School of Engineering, Kyushu Univ.) HARAGUCHI, Shuichi; TSUCHIYA, Yoichi; SHIRAKI, Tomohiro; SADA, Kazuki; SHINKAI, Seiji

Chair: YASUDA, Takuma (14 : 30~15 : 20)

* 14:20-14:30: interval for laptop PC connection.(2C2-34, 2C2-35, 2C2-37, 2C2-38)

2C2-34 Synthesis of aromatic polyamines bearing thienothiophene/thiophenediamine unit and the oxidative derivation of their poly(cationic radical)s. (Dept. Appl. Chem., Waseda Univ.) OTANI, Shunsuke; IBE, Takeshi; NISHIDE, Hiroyuki

2C2-35* Preparation and optical properties of polyether-grafted polythiophenes, and controlling thermosensitive fluorescence properties (Yokohama National Univ.) KOKUBO, Hisashi; FURUYA, Mitsunori; WATANABE, Masayoshi

2C2-37 Synthesis of TEMPO-substituted polyacrylamide for high capacity cathode in radical batteries and its electrochemical properties in aqueous electrolytes (Dept. Appl. Chem. Waseda Univ.) CHIKUSHI, Natsuru; KOSHIIKA, Kenichiro; OYAIZU, Kenichi; NISHIDE, Hiroyuki

2C2-38 Redox Properties of Anthraquinone Substituted Polymers as an Anode Active Material (Dept. Appl. Chem., Waseda Univ.) HARADA, Daisuke; CHOI, Wonsung; OYAIZU, Kennichi; NISHIDE, Hiroyuki

Chair: HIGUCHI, Masayoshi (15 : 30~16 : 20)

* 15:20-15:30: interval for laptop PC connection.(2C2-40, 2C2-41, 2C2-43)

2C2-40 Synthesis and Electrochemical Property of TEMPO-substituted Polyglycidyl Ether (Dept. Appl. Chem., Waseda Univ.) OKUMURA, Chie; HAYASHI, Naoki; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

2C2-41* Structural Control and Electro- and Photo-Functions of π -Conjugated Liquid-Crystalline Materials (The Univ. of Tokyo; Tokyo Univ. of Agriculture and Technology) YASUDA, Takuma; OOI, Hirotsuka; AKAMA, Yusuke; MINOURA, Kiyoshi; FUNAHASHI, Masahiro; SHIMOMURA, Takeshi; KATO, Takashi

2C2-43* Synthesis of Optically-Active π -Conjugated Polymers Containing *o*-Carborane in the Main Chain (Graduate School of Engineering, Kyoto Univ.) KOKADO, Kenta; CHUJO, Yoshiki

Chair: KATO, Takashi (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(2C2-46, 2C2-48, 2C2-50)

2C2-46** Tuning of optical and fluorescent properties of novel chiral/achiral polyfluorenes with metal ions. (NIMS) PAL, Ravindra; HIGUCHI, Masayoshi

2C2-48* Synthesis and Photo-properties of BODIPY Dye-Based Conjugated Polymers: Construction of Supramolecular Structure by π - π Stacking Interaction. (Graduate School of Engineering, Kyoto Univ.) NAGAI, Atsushi; CHUJO, Yoshiki

2C2-50* Synthesis and Characterization of Novel Ionizable Polyelectrolytes in Non-polar Organic Solvents (Graduate School of Engineering, Kyushu Univ.) ONO, Toshikazu; SADA, Kazuki

Sunday, March 29, PM

Biopolymer

Chair: NOGUCHI, Masato (12 : 40~13 : 30)

* 12:30-12:40: interval for laptop PC connection.(3C2-23, 3C2-25, 3C2-26, 3C2-27)

3C2-23* Gelation of natural polysaccharides using ionic liquid (Kagoshima Univ.) IZAWA, Hironori; KANEKO, Yoshiro; KADOKAWA, Jun-ichi

3C2-25 Chemoenzymatic Synthesis of Amylose-Grafted Alginate (Kagoshima Univ.) OMAGARI, Yuji; KANEKO, Yoshiro; KADOKAWA, Jun-ichi

3C2-26 Preparation of glycogen-based polysaccharide materials using the

chain-elongation reaction catalyzed by phosphorylase. (Kagoshima Univ.) NAWAJI, Mutsuki; KANEKO, Yoshiro; KADOKAWA, Jun-ichi

3C2-27 Preparation of chitin composites using ionic liquids (Kagoshima Univ.) TAKEGAWA, Akihiko; KANEKO, Yoshiro; KADOKAWA, Jun-ichi

Chair: AKIYOSHI, Kazunari (13 : 40~14 : 30)

* 13:30-13:40: interval for laptop PC connection.(3C2-29, 3C2-30, 3C2-32, 3C2-33)

3C2-29 Synthesis of Amylose-Poly(lactide) Inclusion Complex by Vine-Twining Polymerization (Kagoshima Univ.) KANEKO, Yoshiro; UENO, Koji; KADOKAWA, Jun-ichi

3C2-30* Development of introduction of oligosaccharide into protein via chemo-enzymatic method (Graduate School of Engineering, Tohoku Univ.) KOBAYASHI, Atsushi; AIZAWA, Kenta; NOGUCHI, Masato; SHODA, Shin-ichi

3C2-32 Immunological and physicochemical features of monoclonal antibodies Infa for hemagglutinin molecule of influenza virus (Applied chemistry, Oita Univ.) KAWAWAKI, Hirokazu; FUJIMOTO, Naoko; HIFUMI, Emi; UDA, Taizo

3C2-33 Temperature dependence of spatial pattern in gel formed by polysaccharide solution (Saga Univ.) MATSUMAE, Haruki; NARITA, Takayuki; OHNISHI, Isamu; TOKITA, Masayuki; OISHI, Yushi

Functional Polymer

Chair: TAKEOKA, Yuko (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3C2-35, 3C2-36, 3C2-37, 3C2-39)

3C2-35 Design of Nanogel Cross-Linked Hybrid Nanoparticles and Application to Protein Delivery (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) SHIMODA, Asako; AKIYOSHI, Kazunari

3C2-36 Characterization and function of cholesterol group-bearing glycogen (Inst. of biomaterials and bioengineering, Tokyo Medical and Dental Univ.) TAKAHASHI, Haruko; SAWADA, Shin-ichi; AKIYOSHI, Kazunari

3C2-37*† Functional Cycloamylose for Gene Delivery (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) TOITA, Sayaka; SOMA, Yuki; MORIMOTO, Nobuyuki; AKIYOSHI, Kazunari

3C2-39* Interaction Mechanism of Amphiphilic Antimicrobial Polymethacrylates with Lipid Membranes (Nara Inst. of Sci. and Technol.; Univ. of Michigan School of Dentistry) YASUHARA, Kazuma; KURODA, Kenichi

Chair: TERAGUCHI, Masahiro (15 : 50~16 : 40)

* 15:40-15:50: interval for laptop PC connection.(3C2-42, 3C2-43, 3C2-44, 3C2-45)

3C2-42 Synthesis of biodegradable amylose-PLLA AB diblock copolymer by enzymatic polymerization (Kansai Univ.; Tokyo Medical and Dental Univ.) HAMANO, Katsuki; WAKABAYASHI, Kanako; OUCHI, Tatsuro; OHYA, Yuichi; MORIMOTO, Nobuyuki; AKIYOSHI, Kazunari

3C2-43 Fabrication and Evaluation of Poly(L-lactide)/Hydroxyapatite Composites having Bisphosphonate (Department of Materials and Life Sciences, Sophia university) SUGIYAMA, Nami; FUJITA, Masahiro; TAKEOKA, Yuko; AIZAWA, Mamoru; RIKUKAWA, Masahiro

3C2-44 Preparation of Polyion Complex Films from Biological Polysaccharides and Deposition of Hydroxyapatite on Their Surfaces in Simulated Body Fluids (Tokyo Univ. of Science) KOBAYASHI, Hironobu; HASHIZUME, Mineo

3C2-45* Molecular Glue for Supramolecular Modification of Proteins (School of Engineering, The Univ. of Tokyo) OKURO, Kou; KINBARA, Kazushi; TSUMOTO, Kouhei; ISHII, Noriyuki; AIDA, Takuzo

Chair: NAKANO, Koji (16 : 50~18 : 00)

* 16:40-16:50: interval for laptop PC connection.(3C2-48, 3C2-49, 3C2-50, 3C2-52, 3C2-53, 3C2-54)

3C2-48 Synthesis and Gas Permeability of Polydiphenylacetylene membrane-shaving Perfluoroalkyl Side-Chains by Click Reaction in membrane (Graduate School of Sci & Tech, Niigata Univ.; CTR, Niigata Univ.; VBL, Niigata Univ.) KIUCHI, Motohiro; SATO, Takashi; TERAGUCHI, Masahiro; AOKI, Toshiki; KANEKO, Takashi

3C2-49 Preparation of polymeric vinylpyridine cobaltporphyrin complex membrane with microphase-separated structure and facilitated oxygen transport through the membrane (Dept. Appl. Chem., Waseda Univ.) NAKAOKA, Iori; SHOJI, Masami; NISHIDE, Hiroyuki

3C2-50* Temperature Dependence on gas permeability of poly(lactic acid) membranes across their glass transition temperature (Meiji Univ.) KOMATSUKA, Tomomi; TAKAHASHI, Youichi; NAGAI, Kazukiyo

3C2-52 Recovery of oxygenation of the synthesized polymer of degraded cobalt(III) salen complexes by supply of phase-transferring cobalt(II) salen (Functional polymer chemistry laboratory) MATSUSHITA, Yasuyoshi; SUZUKI, Takayuki

3C2-53 Photo-reversible CO₂ absorption of aqueous solution containing polymer spiropyran. (Functional polymer chemistry lab) KOYAMA, Masaki; SUZUKI, Takayuki

3C2-54 Photo-reversible and selective copper(II)-ion adsorption of cationic

copolymers of a quaternized amine and spiropyran in saline solution (Functional polymer chemistry lab) BUN'YA, Kaori; SUZUKI, Takayuki

Monday, March 30, AM

Chair: SUZUKI, Takayuki (9:00~10:10)

* 8:50-9:00: interval for laptop PC connection.(4C2-01, 4C2-02, 4C2-04, 4C2-05, 4C2-06)

4C2-01 Synthesis and Lithium Ion Adsorption Behavior of Thermosensitive Polymer Bearing Quinoline Derivative Moiety as Side Chain (Wakayama Univ., Faculty of Systems Engineering) KURODA, Daisuke; SAKAMOTO, Hidefumi; NAKAHARA, Yoshio; KIMURA, Keiichi

4C2-02* Preferential CO₂ separation properties of poly(ethylene glycol) network incorporating poly(amidoamine) dendrimer and the mechanism (Chem. Res. Gr., RITE) TANIGUCHI, Ikuo; SHIMIZU, Ryosuke; KAZAMA, Shingo; FUJIOKA, Yuichi

4C2-04 Synthesis and characterization of polymeric material having carbon dioxide affinities functional group (NAIST; Department of Materials Science) OOTERA, Yuka; TANIGUCHI, Ikuo; KAZAMA, Shingo; FUJIOKA, Yuichi

4C2-05[†] Chiral recognition abilities of chiral stationary phases for HPLC based on optically active polysulfonamides. (College of Engineering, Nihon Univ.) WATANABE, Toshitaka; SATO, Hiroaki; MIYOTA, Akio; NEMOTO, Nobukatsu; TAMAI, Yasufumi

4C2-06* Observation of Isotactic Poly(methyl methacrylate) Crystallization in Porous Thin Films Prepared by Layer-by-layer Assembly (Osaka Univ.; MEI center) AJIRO, Hiroharu; KAMEI, Daisuke; HONGO, Chizuru; AKASHI, Mitsuru

Chair: SAKAMOTO, Hidefumi (10:20~11:20)

* 10:10-10:20: interval for laptop PC connection.(4C2-09, 4C2-10, 4C2-12, 4C2-13, 4C2-14)

4C2-09 Release behavior of ammonium compound from Glucose-Responsible microcapsule (Saga Univ.) OGATA, Etsuko; CUI, Xoka; TAGAMI, Yasunobu; NARITA, Takayuki; OISHI, Yushi

4C2-10* Improvement of the actuation property for the polymer composites of carbon nanotubes and ionic liquids: the influence of additives (1) (AIST; Research Institute for Cell Engineering) SUGINO, Takushi; KIYOHARA, Kenji; TAKEUCHI, Ichiro; MUKAI, Ken; ASAKA, Kinji

4C2-12 NIR Laser-Driven Reversible Volume Phase Transition of Single-Walled Carbon Nanotubes/Polymer Gel Composites (Kyushu Univ.) MORIMOTO, Tatsuro; FUJIGAYA, Tsuyohiko; NIIDOME, Yasuro; NAKASHIMA, Naotoshi

4C2-13 Effect of Polymer backbone on organogelation property of polymer organogelators with L-isoleucine (Shinshu Univ.) KISHI, Sachiyo; SUZUKI, Masahiro; HANABUSA, Kenji

4C2-14 preparation of phenylenediamine derivative-modified gel and its application (Kinki Univ.) KANNO, Kenichi; TAKAGI, Yuichiro; YOSHIDA, Yuya

Functional Polymer

Chair: SHISHIDO, Atsushi (11:30~12:20)

* 11:20-11:30: interval for laptop PC connection.(4C2-16, 4C2-17, 4C2-18, 4C2-19, 4C2-20)

4C2-16 Specific Interaction of Carbazole Dendrimer and Fullerene (Keio Univ.) KASAI, Yuto; ARUBUREHITO, Ken; YAMAMOTO, Kimihisa

4C2-17 Depolymerization of electropolymerized polycarbazole film (Chiba Univ.; Chisso Petrochem. Co.) OKAZAKI, Masaaki; KIM, Sang-kook; SEKI, Hiroko; SAKABE, Ichiro; HOSHINO, Katsuyoshi

4C2-18 Preparation of the thermoresponsive polymer grafted milled carbon fiber by using reversible addition fragmentation chain transfer (RAFT) polymerization technique (Kinki Univ.) UEMUKAI, Toru; KUDO, Tomoya; ISHIFUNE, Manabu

4C2-19 Incorporation behavior and reactions of organic substrates in aqueous solution of chiral thermoresponsive polymers (Kinki Univ.) TORISAKI, Masashi; TSUNEKA, Katsuhiko; YONEZAWA, Yasushi; ISHIFUNE, Manabu

4C2-20 Crosslinking of Polymeric Micelle by Photodimerization of Anthracene Moieties (Faculty of Engineering, Kanagawa Institute of Technology) MORIKAWA, Hiroshi; KOTAKI, Yasuharu; SAEGUSA, Yasuo

Monday, March 30, PM

Chair: ISHIFUNE, Manabu (13:30~14:30)

* 13:20-13:30: interval for laptop PC connection.(4C2-28, 4C2-29, 4C2-30, 4C2-31, 4C2-32)

4C2-28 Synthesis of Mesomorphic Polymer Particles Containing Azobenzene Moieties and Their Photoresponsive Behavior (Chemical Resources Laboratory, Tokyo Institute of Technology) TAKAMIYA, Yuki; SHISHIDO, Atsushi; IKEDA, Tomiki

4C2-29 Photoresponsive sol-gel transformation of sliding host-guest polyrotaxane (Graduate School of Science, Osaka Univ.) TOYOTA, Yuji; OKUMURA, Yasushi; TAKASHIMA, Yoshinori; YAMAGUCHI, Yasuhiro; HARADA, Akira

4C2-30 Synthesis and circular polarized fluorescence properties of polythiophene-fluorene copolymers having asymmetry fluorene unit (Department of Materials and Life Sciences, Sophia Univ.) HIRAHARA, Takashi; FUJITA, Masahiro; TAKEOKA, Yuka; RIKUKAWA, Masahiro

4C2-31 Preparation and Optical Properties of Methine Bridged Polypyrroles Containing Squaraine Dye Unit (Univ. of Tsukuba) TAKETOSHI, Ayako; KANBARA, Takaki

4C2-32* Synthesis and optical properties of conjugated polymers containing porphyrin units in the main chain (Kyoto Univ., Tohoku Univ., iCeMS) UMEYAMA, Tomokazu; TAKAMATSU, Takeshi; MATANO, Yoshihiro; YOSHIKAWA, Osamu; YOSHIKAWA, Susumu; ARAKI, Yasuyuki; IMAHORI, Hiroshi

Chair: IMAOKA, Takane (14:40~15:40)

* 14:30-14:40: interval for laptop PC connection.(4C2-35, 4C2-36, 4C2-37, 4C2-38, 4C2-39, 4C2-40)

4C2-35 Preparation of Poly(diphenylacetylene)/Poly(vinylidene chloride) Blend Membranes and their Application for in-situ Visualization of Temperature Distribution (Dept. Appl. Chem., Waseda Univ.) HIGUCHI, Yuuya; KATOU, Junji; NISHIDE, Hiroyuki; INUKAI, Junji; WATANABE, Masahiro

4C2-36 Synthesis and electrochemical properties of poly(3-vinyl unsaturated PROXYL) as a high capacity electrode-active material (Dept. Appl. Chem. Waseda Univ.) YAKUSHIJI, Hiroki; KAWAMOTO, Takeshi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

4C2-37 Charge transport and storage properties of poly(p-galvinoxystyrene) thin film as an anode-active material in Radical Batteries. (Dept. Appl. Chem., Waseda Univ.) HARAGUCHI, Kentaro; ANDO, Yuka; OYAIZU, Kenichi; NISHIDE, Hiroyuki

4C2-38 Rocking chair-type radical battery using poly(p-galvinoxyl styrene) as an anode-active material (Dept. Appl. Chem. Waseda Univ.) SUKEGAWA, Takashi; SUGITA, Shuhei; OYAIZU, Kenichi; NISHIDE, Hiroyuki

4C2-39 Photo-electronic properties of conjugated oligomers bearing donor and acceptor segments (Faculty of Textile Science and Technology, Shinshu Univ.) KARASAWA, Masayoshi; SUZUKI, Erika; FUKAWA, Tadasi; KIMURA, Mutsumi; SIRAI, Hirofusa

4C2-40 Self-Organization of Bolaamphiphiles having conjugated oligomers (Shinshu Univ. Faculty of Textile & Technology Department of Functional Polymer Science) OTSUJI, Satoshi; TATEWAKI, Yoko; KIMURA, Mutsumi; SHIRAI, Hirofusa

Chair: KIMURA, Mutsumi (15:50~16:50)

* 15:40-15:50: interval for laptop PC connection.(4C2-42, 4C2-44, 4C2-45, 4C2-46, 4C2-47)

4C2-42* Synthesis of Polysilsesquioxane Having Oligothiophene with Well-defined Structure and Its Application to Transparent Conductive Film (Hiroshima Univ.) IMAE, Ichiro; TAKAYAMA, Shotaro; OYOYAMA, Yousuke; KOMAGUCHI, Kenji; HARIMA, Yutaka; OHSHITA, Joji

4C2-44[†] Synthesis and Properties of Electronegative Polythiophenes Containing Perfluoroacyl Groups (The Institute of Scientific and Industrial Research, Osaka Univ.) NITANI, Masashi; IE, Yutaka; ASO, Yoshio

4C2-45 Synthesis and Properties of Polymer by Cyclopolymerization of Electron-accepting Oligothiophenes Having 1,6-Heptadiene Unit. (The Institute of Scientific and Industrial Research) YOSHIMURA, Atsuki; IE, Tutaka; TAKEUCHI, Daisuke; OSAKADA, Kohtarō; ASO, Yoshio

4C2-46 Recovery and reuse of hydrophilic polymer supported palladium catalyst via intermolecular hydrogen bonding (Osaka Institute of Technology) SAWA, Yasuhiro; OHTAKA, Atsushi; YAMAGUTHI, Takashi; YOSHIDA, Akihiro; SHIMOMURA, Osamu; NOMURA, Ryoki

4C2-47 Suzuki coupling reaction in water with linear polystyrene-supported palladium catalyst (Osaka Institute of Technology) TERATANI, Takuto; OHTAKA, Atsushi; FUJII, Ryohei; IKESHITA, Kanako; SHIMOMURA, Osamu; NOMURA, Ryoki

Room D1

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Colloid and Interface Chemistry

Friday, March 27, AM

Gel

Chair: IKEDA, Masato (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1D1-01, 1D1-02, 1D1-04, 1D1-05, 1D1-06)

1D1-01 Optical resolution of amino acid derivatives in one-dimensional molecular assemblies (Faculty of engineering, The Univ. of Tokyo) OYA, Ryutarō; FUJITA, Norifumi; AIDA, Takuzo

1D1-02* Low-Molecular-Weight Organogelators based on Organic Salt Compound (Shinshu Univ.) SUZUKI, Masahiro; SAITO, Hiroaki;

HANABUSA, Kenji

- 1D1-04** Two-component low-molecular-weight hydrogelators based on L-lysine (Shinshu Univ.) NOSAKA, Yuichi; SUZUKI, Masahiro; HANABUSA, Kenji
- 1D1-05** Organogel Formation with Cyclodextrin Assemblies (Osaka Univ.; NEOS Co. Ltd) MARUI, Yasuhiro; KIDA, Toshiyuki; AKASHI, Mitsuru; MIYAWAKI, Kazuhiro; KATO, Eiichi
- 1D1-06** Supramolecular hydrogel constructed by viologen polymer and cyclodextrin dimer (Graduate School of Science, Osaka Univ.) YANG, Yuting; TAKASHIMA, Yoshinori; OKUMURA, Yasushi; YAMAGUCHI, Hiroyasu; HARADA, Akira

Chair: NAOTA, Takeshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1D1-08, 1D1-09, 1D1-11, 1D1-12, 1D1-13)
- 1D1-08** Fixation of Proteins via Supramolecular Nanotube Hydrogel (NTRC-AIST, SORST-JST, ICR Kyoto Univ.) KAMETA, Naohiro; YOSHIDA, Kaname; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 1D1-09*** New development of supramolecular soft matrix (1): Construction of molecular rail comprising of fluidic supramolecular fiber (Graduate School of Engineering, Kyoto Univ.) IKEDA, Masato; TAMARU, Shun-ichi; TAKEUCHI, Shoji; HAMACHI, Itaru
- 1D1-11** New development of supramolecular matrix (2) : Introduction of an orthogonal domain into supramolecular hydrogel and the development of functional materials (Graduate School of Engineering, Kyoto Univ.) YOSHII, Tatsuyuki; WADA, Atsuhiko; IKEDA, Masato; HAMACHI, Itaru
- 1D1-12** New development of supramolecular soft matrix (3): Stimuli-responsive supramolecular hydrogel droplet. (Graduate School of Engineering, Kyoto Univ.) MATSUI, Toshihiro; KOMATSU, Harunobu; IKEDA, Masato; TAKEUCHI, Shoji; HAMACHI, Itaru
- 1D1-13*** A Strategy for Mechanical Reinforcement of Supramolecular Hydrogel using Zwitter-ion (Graduate School of Engineering, Kyoto Univ.) KOMATSU, Harunobu; IKEDA, Masato; HAMACHI, Itaru

Chair: SUZUKI, Masahiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1D1-15, 1D1-16, 1D1-17, 1D1-18, 1D1-19, 1D1-20)
- 1D1-15** Mesophase Behavior of triphenylene derivatives having azobenzene side chains (Ryukoku Univ.; AIST Kansai) UCHIDA, Kingo; ONISHI, Kazuki; ISHIGURO, Hisato; SHIMIZU, Yo
- 1D1-16** Gelation of haloalkanes using tris-urea low molecular weight gelator (Shizuoka Univ.) FUJII, Hiromitsu; YAMANAKA, Masamichi
- 1D1-17** Development of a low molecular weight hydrogelator bearing sugar unit as hydrophilic group (Shizuoka Univ.) HARAYA, Nana; YAMAMICHA, Sachio; YAMANAKA, Masamichi
- 1D1-18** Heterometallic Aggregation in Ultrasound-Induced Gelation with Mixed System of Binuclear Palladium and Platinum Complexes (Graduate School of Engineering Science, Osaka Univ.) KUWAJIMA, Yuuki; MURAOKA, Takako; IIDA, Masayuki; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 1D1-19** Morphology Control for the Ultrasound-Induced Aggregation of Cyclic Dinuclear Palladium Complex (Osaka Univ.) HORI, Takao; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 1D1-20** Control of Ultrasound-Sensitivity for Gelation of syn- and anti-Mixture of Cyclic Dinuclear Palladium Complexes (Osaka Univ.) HORI, Takao; KOORI, Hiroshi; KOMIYA, Naruyoshi; NAOTA, Takeshi

Friday, March 27, PM

Chair: YAMANAKA, Masamichi (13 : 30~14 : 10)

- * 13:20-13:30: interval for laptop PC connection.(1D1-28, 1D1-29, 1D1-30, 1D1-31)
- 1D1-28** Self-assemblies of oligothiophene-bridged bismelamine supramolecular building blocks Controlled by Complementary Hydrogen Bonds (Grad. Sch. of Eng., Chiba Univ.; PRESTO, JST) YAGAI, Shiki; ISHII, Hiroyuki; KARATSU, Takashi; KITAMURA, Akihide
- 1D1-29** Self-assembly of Merocyanine Dyes Possessing Barbituric Acid Group and Control of Assembled Structures by Complexation with Bismelamines (Graduate School of Engineering, Chiba Univ.; PRESTO, JST) YAGAI, Shiki; NAKANO, Yujiro; KARATSU, Takashi; KITAMURA, Akihide
- 1D1-30** Synthesis and Self-assembly of Flavin Functionalized 1,2-Bis(alkylamido)cyclohexane (Graduate School of Engineering Science, Osaka Univ.) IMADA, Yasushi; NISHIOKA, Shingo; NAOTA, Takeshi
- 1D1-31** Self-Assemblies of π -Conjugated Acyclic Anion Receptors (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST; Interdisciplinary Graduate School of Science and Technology, Shinshu Univ.) MAEDA, Hiromitsu; TERASHIMA, Yoshitaka; HAKETA, Yohei; MUKAI, Hidetomo; SHIMIZU, Masahiro; SHIMOSUGI, Shota; OHTA, Kazuchika

Saturday, March 28, AM

Chair: HASHIZUME, Mineo (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** Characterization and Properties of Water-soluble Fullerene Vesicles with a Fluorous Surface (The Univ. of Tokyo; Tohoku Univ.) HOMMA, Tatsuya; HARANO, Koji; ISOBE, Hiroyuki; NAKAMURA, Eiichi
- 2D1-02** Construction of fullerene bilayer vesicles bearing coumarin groups on the surface and their photoresponsibility (The Univ. of Tokyo) NARITA, Akimitsu; HARANO, Koji; NAKAMURA, Eiichi
- 2D1-03** Formation of Supramolecular Assemblies by Anion Modules (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; NARITANI, Kazumasa
- 2D1-04** Development of Universal pKa Indicator Based on Supramolecular RGB colors (National Institute for Materials Science) ONUMA, Yosuke; SHUNDO, Atsuumi; SAKAI, Hideki; ABE, Masahiko; ARIGA, Katsuhiko
- 2D1-05** Controlled H- and J-aggregation of Perylene Bisimide Dyes through Multiple Hydrogen Bonds and the Formation of Helical Nanostructures (Grad. Sch. of Eng., Chiba Univ.; PRESTO, JST; AIST) YAGAI, Shiki; UNOIKE, Kanako; KARATSU, Takashi; KITAMURA, Akihide; KIKKAWA, Yoshihiro
- 2D1-06** Synthesis and Supramolecular Assemblies of Amphiphilic Acyclic Anion Receptors (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; EIFUKU, Nazuki

Chair: SHIMIZU, Toshimi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2D1-08, 2D1-10, 2D1-12)
- 2D1-08*** Membrane properties of hydrogen-bonded supramolecular vesicles (Institute of Industrial Science, Univ. of Tokyo) SAWAYAMA, Jun; YOSHIKAWA, Isao; ARAKI, Koji
- 2D1-10*** Structures and chromic behavior of molecular assemblies containing mechanochromic moieties (Tokyo Univ. of Sci., Yamaguchi; Inst. for Molecular Sci.) YABUUCHI, Kazuhiro; ABE, Keiichi; HONDA, Natsumi; ODA, Naoki; SAITO, Yohei; INOKUCHI, Makoto; YAKUSHI, Kyuya
- 2D1-12*** Quadruple Helix Formation of a Photoresponsive Peptide Amphiphile and Its Light-Triggered Dissociation into Single Fibers (Northwestern Univ.) MURAOKA, Takahiro; CUI, Honggang; STUPP, Samuel I.

Chair: ARIGA, Katsuhiko (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2D1-15, 2D1-16, 2D1-17, 2D1-18)
- 2D1-15** Hydroxyapatite Deposition on Scaffolds of Supramolecular Dye Assemblies in Simulated Body Fluid (Tokyo Univ. of Science) SAITO, Ryota; HASHIZUME, Mineo
- 2D1-16** Self-Organization of Dye Molecules Based on Formation of Organic Nanotubes (NTRC-AIST, SORST-JST, Osaka City Univ.) KAMETA, Naohiro; TSUKUBE, Hiroshi; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 2D1-17** Construction of Organic Nanotubes with PEG-modified Surfaces (NTRC-AIST, SORST-JST) MASUDA, Mitsutoshi; WADA, Momoyo; KAMETA, Naohiro; MINAMIKAWA, Hiroyuki; SHIMIZU, Toshimi
- 2D1-18** Young Scholar Lectures of CSJ Supramolecular Carbon Nanotube Materials Using Macrocyclic Host Molecules (Kanazawa Univ.) OGOSHI, Tomoki

Saturday, March 28, PM

Chair: AIDA, Takuzo (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2D1-28, 2D1-31, 2D1-33)
- 2D1-28** Young Scholar Lectures of CSJ Construction of Supramolecular Architecture for Light Energy Conversion (School of Materials Science, JAIST) HASOBE, Taku
- 2D1-31*** Synthesis and Characterization of Charge-Transfer Type Interlocked Compounds (National Institute for Materials Science and Technology) IKEDA, Taichi; HIGUCHI, Masayoshi; KURTH, Dirk
- 2D1-33** Structural Change of Metal-Complexed Lipid Nanotube and Its Spectroscopic Analysis (Tokyo Univ. of Science) ARIMIZU, Shoya; YUI, Hiroharu; KOGISO, Masaki; SHIMIZU, Toshimi

Chair: SHIRAI, Hirofusa (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2D1-35, 2D1-36, 2D1-37, 2D1-38, 2D1-39, 2D1-40)
- 2D1-35** Novel liquid crystalline semiconductors based on dibenzonaphthacene building blocks (RIKEN) NAGAMINE, Yuka; OKAMOTO, Toshihiro; KAJITANI, Takashi; FUKUSHIMA, Takanori; AIDA, Takuzo
- 2D1-36** Photocurrent Generation of Self-Assemblies of Chlorophyll Derivatives (Ritsumeikan Univ.) HATANO, Tsukasa; TAMIAMI, Hitoshi
- 2D1-37** Control of molecular arrangement of chlorophyll pigment utilizing semi-artificial polysaccharide as a template (Graduate School of Life and Environmental Sciences Kyoto Prefectural Univ.) KINOSHITA, Daiki; NUMATA, Munenori; KUNIEDA, Michio; TAMIAMI, Hitoshi; SUGIKAWA, Kouta; SADA, Kazuki; SINKAI, Seiji
- 2D1-38** Creation of artificial chlorosome utilizing the unique wrapping properties of helix-forming polysaccharides. (Kyoto prefectural university; Labo of molecular nanosystem) KANO, Toru; NUMATA, Munenori; TAMIAMI, Hitoshi; SHINKAI, Seiji
- 2D1-39** Molecular Design of Dimensional Regulating Agents for Inorganic Materials (School of Engineering, The Univ. of Tokyo) TANAKA, Kazuya; FUJITA, Norifumi; AIDA, Takuzo
- 2D1-40** Supramolecular Nanofibers of Perylene Bisimide Through Hydroden-

bonding and its Charge Transporting Property (Grad. Sch. of Eng., Chiba Univ.; Grad. Sch. of Eng., Osaka Univ.; PRESTO, JST) YAGAI, Shiki; SEKI, Tomohiro; KARATSU, Takashi; KITAMURA, Akihide; HONJOYO, Yoshihito; SEKI, Shuhei

Chair: NUMATA, Munenori (15:50~16:40)

- * 15:40-15:50: interval for laptop PC connection.(2D1-42, 2D1-44, 2D1-45, 2D1-46)
- 2D1-42*** The structures and self-organized processes of conjugated 1D nanomaterials of TTF derivatives. (Shinshu Univ.) TATEWAKI, Yoko; HATANAKA, Tatsuya; KIMURA, Mutsumi; SHIRAI, Hirofusa
- 2D1-44** Dye-sensitized Solar Cells using Unsymmetrical Zinc Phthalocyanines (Faculty of Textile Science and Technology, Shinshu Univ.) YASUTA, Kazumasa; GOTO, Ryouta; MORI, Syougo; KIMURA, Mutsumi; SHIRAI, Hirofusa
- 2D1-45** Multiple-Dyes Hybrids by Click-Chemistry (Faculty of Textile Science and Technology) NAKANO, Yasuhiro; KIMURA, Mutsumi; TATEWAKI, Yoko; SHIRAI, Hirofusa
- 2D1-46** One-dimensional Arrangement of Metal Nanoparticles through Self-organization of Asymmetric Disc-like Molecules. (Shinshu Univ.) HATANAKA, Tatsuya; TATEWAKI, Yoko; KIMURA, Mutsumi; SHIRAI, Hirofusa

Sunday, March 29, AM

Chair: MIZUKAMI, Masashi (9:30~10:10)

- * 9:20-9:30: interval for laptop PC connection.(3D1-04, 3D1-06)
- 3D1-04**** Controllable Synthesis of Uniform Palladium Nanicosahedra via a Facile Polyol Process (Univ. of Tsukuba) LI, Cuncheng; KANEHARA, Masayuki; TERANISHI, Toshiharu
- 3D1-06**** Metallization of compact DNA nanostructures for preparation of nanometal composites (Nagoya Univ., Graduate School of Environmental Studies) ZINCHENKO, Anatoly; CHEN, Ning; BAIGL, Damien; YOSHIKAWA, Kenichi
- Chair: IWAHASHI, Makio (10:20~11:20)
- * 10:10-10:20: interval for laptop PC connection.(3D1-09, 3D1-11, 3D1-13)
- 3D1-09**** Control of micellar growth and temperature sensitivity of rheological properties of wormlike micelles of poly(oxyethylene) surfactant systems (Yokohama National Univ.) AHMED, Toufiq; ARAMAKI, Kenji
- 3D1-11**** Control over the Stereochemical Course of Anthracene Photodimerization in an Organogel System (Graduate School of Engineering, Kyushu Univ.) DAWN, Arnab; FUJITA, Norifumi; HARAGUCHI, Shuichi; SADA, Kazuki; SHINKAI, Seiji
- 3D1-13**** Glycerol Effects on the Rheology of Hexagonal Phase and Related Gel Emulsions (Yokohama National Univ.) ALAM, Mohammad Mydul; ARAMAKI, Kenji

Chair: MATSUDA, Ryotaro (11:30~12:00)

- * 11:20-11:30: interval for laptop PC connection.(3D1-16, 3D1-18)
- 3D1-16**** AFM study of physicochemical properties of Nafion thin film on HOPG surface (Hokkaido Univ.) PANKAJ, Singh; MASUDA, Takuya; UOSAKI, Kohei
- 3D1-18*** Solvent-substituted dehydration and the induced shift of CO₂ gate adsorption of a Cu-MOF (Chiba Univ.) CHENG, Yan; KAJIRO, Hiroshi; NOGUCHI, Hiroshi; KONDO, Atsushi; OHBA, Tomonori; HATTORI, Yoshiyuki; KANEKO, Katsumi; KANO, Hirofumi

Asian International Symposium -Colloid and Interface Chemistry

Sunday, March 29, PM

Chair: OYAMA, Noboru (12:30~13:40)

- 3D1-22*** Keynote Lecture Functional metal-organic porous solid (Jawaharlal Nehru Centre for Advanced Scientific Res.) MAJI, Tapas K.
- 3D1-26*** Invited Lecture Probing the physical and chemical properties of molecules in the nanogap by tip-enhanced Raman spectroscopy (Xiamen Univ.) OREN, Bin • LIU, Zheng • CHEN, Zhao-Bin • WANG, Xiang • DAI, Ke • ZENG, Zhi-Cong • ZHUANG, Mu-De • MAO, Bing-Wei • TIAN, Zhong-Qun

Chair: SAKAI, Hideki (13:40~14:40)

- 3D1-29*** Invited Lecture Gel-emulsion with structured continuous phase (Yokohama National Univ.) ARAMAKI, Kenji
- 3D1-32*** Invited Lecture Antibody-labeled micro/nanobubbles for ultrasound contrast agents (Tokyo Univ. of Sci.) TSUCHIYA, Koji

Chair: KISHIOKA, Sinya (15:00~16:10)

- 3D1-37*** Keynote Lecture A topochemical approach to well-crystallized transition metal LDHs and their delamination into nanosheets (WPI Research Center for Materials Nanoarchitectonics (MANA); Nati. Inst. for Mat. Sci (NIMS)) MA, Renzhi
- 3D1-41*** Invited Lecture Structural control of organized molecular films for comb copolymers containing functionalized groups and its structural

estimation (Yamagata Univ.) FUJIMORI, Atsuhiko

Chair: ARIGA, Katsuhiko (16:20~18:00)

- 3D1-45*** Invited Lecture New avenues to functional mesoporous materials from micelle assemblies (WPI Research Center for Materials Nanoarchitectonics (MANA); Nati. Inst. for Mat. Sci. (NIMS)) YAMAUCHI, Yusuke
- 3D1-48*** Invited Lecture Bio-inspired, smart, multiscale interfacial materials (Chinese Academy of Sci.) JIANG, Lei
- 3D1-51*** Keynote Lecture Modification of carbon nanotube using polymers with assistance of supercritical CO₂ (Zhengzhou Univ.) XU, Qun

Colloid and Interface Chemistry

Monday, March 30, AM

Chair: HIGASHI, Nobuyuki (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(4D1-01, 4D1-02, 4D1-03, 4D1-04, 4D1-05)
- 4D1-01** Effect of Phenylene Linker on Interaction of Cyclodextrins with Alternating Copolymers Bearing Adamantyl Side Chains (Graduate School of Science, Osaka Univ.) TAURA, Daisuke; TANIGUCHI, Yosuke; HASHIDZUME, Akihito; HARADA, Akira
- 4D1-02** Ring-Opening Polymerization of Lactones Initiated by Cyclodextrin Dimer: Clamp Effect of Cyclodextrin on the Polymerization Activity (Osaka Univ.) OSAKI, Motofumi; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 4D1-03** Supramolecular assemblies and its photo switching created by β -1,3 glucan polysaccharide modified cyclodextrins as side chains. (Graduate School of Science, Osaka Univ.) TAMESUE, Shingo; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; SHINKAI, Seiji; HARADA, Akira
- 4D1-04** Migration behavior and supramolecular structure of cyclodextrins esterified with stilbene carboxyl group on the secondary hydroxyl side (Graduate School of Science, Osaka Univ.) KANAYA, Akira; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 4D1-05*** Fullerene Aqueous Solutions Using Cyclodextrin- and Polyethylene Glycol-Attached Dendrimers (Osaka Prefecture Univ.) KOJIMA, Chie; TOI, Yoko; HARADA, Atsushi; KONO, Kenji

Chair: SAKAI, Toshio (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(4D1-08, 4D1-09, 4D1-10, 4D1-12, 4D1-13)
- 4D1-08** Development of a-CyD-rotaxane/DNA conjugate (RCast, Univ. of Tokyo) OHNISHI, Toshiyuki; KUZUYA, Akinori; KOMIYAMA, Makoto
- 4D1-09*** Inclusion Complexation of Cyclodextrins with Asymmetric PEG Derivatives Tethering one-sided Bulky Substituent (JAIST) YAMADA, Ko; KATOONO, Ryo; YUI, Nobuhiko
- 4D1-10*** Preparation and Use of Cyclic Spiroborate-Type Supramolecular Connecting Modules (Tokushima Bunri Univ. Dept. of Pharmaceutical Sciences at Kagawa Campus) DANJO, Hiroshi; HIRATA, Kazuya; YOSHIGAI, Seiki; SHIBUTA, Mayumi; AZUMAYA, Isao; YAMAGUCHI, Kentaro
- 4D1-12** Hydrophilic/hydrophobic polymeric nanocapsules prepared by Living Radical Polymerization (Department of Chemical Engineering, Graduate School of Engineering, Kyushu Univ.) SAKURAI, Daisuke; MATSUNE, Hideki; TAKENAKA, Sakae; KISHIDA, Masahiro
- 4D1-13** Branched collagen-mimetic peptides and their triple-helix formation (Doshisha Univ.) KAWASAKI, Yoichi; KOGA, Tomoyuki; HIGASHI, Nobuyuki

Chair: HARADA, Akira (11:20~12:30)

- * 11:10-11:20: interval for laptop PC connection.(4D1-15, 4D1-16, 4D1-18, 4D1-19, 4D1-20, 4D1-21)
- 4D1-15** Preparation of insoluble assemblies of amphiphilic block copolymers in water (Shinshu Univ.) KUROSAWA, Hiroyoshi; OKADA, Tomohiko; MISHIMA, Shozi; SAKAI, Toshio
- 4D1-16*** Coordination Properties of β -1,3-Glucane/SWNT Composite Bearing Metal Ligand (Graduate School of Engineering, Kyushu Univ.) TSUCHIYA, Youichi; HARAGUCHI, Shuichi; SUGIKAWA, Kouta; SHIRAKI, Tomohiro; SHINKAI, Seiji
- 4D1-18** Creation of Nanostructures Using Semi-Artificial β -1,3-Glucans as an All-in-One Template. (Graduate School of Engineering, Kyushu Univ.) SUGIKAWA, Kouta; TSUCHIYA, Youichi; SHIRAKI, Tomohiro; KANEKO, Kenji; SADA, Kazuki; SHINKAI, Seiji
- 4D1-19** Confocal Raman Mapping of Mixed Immiscible Polymers at Interfaces (Yamagata Univ.) TAKAHASHI, Yoshitaka; SANO, Masahito
- 4D1-20** Novel Stimuli-Responsive Copolymers having *Elastin*-like Peptides as Graft-chains (Doshisha Univ.) FUKAMI, Shiro; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 4D1-21** Nanowire Originated from Polysaccharide-Inclusion of Conjugated Polymer and its Functionalization by Supramolecular Techniques (ISIT Nanotech. Lab.) SHIRAKI, Tomohiro; TSUCHIYA, Youichi; HARAGUCHI, Shuichi; SUGIKAWA, Kouta; SHINKAI, Seiji

Room D2

Bldg.6 634

Colloid and Interface Chemistry

Friday, March 27, AM

Fine particle·Nanoparticle

Chair: TORIGOE, Kanjiro (9 : 30 ~ 10 : 20)

- * 9:20-9:30: interval for laptop PC connection.(1D2-04, 1D2-05, 1D2-06, 1D2-07, 1D2-08)
- 1D2-04** Synthesis of tungsten oxide nanoparticles using microwave heating (School of Engineering, Tokyo Institute of Technology) SHITARA, Masashi; MOCHIZUKI, Dai; WADA, Yuji
- 1D2-05** Formation of Fe/FeO Nanoparticle Film by Plasma Treatment of Prussian Blue Complex (Tokyo Univ. of Agriculture and Technology) WATANABE, Shiro; YAMADA, Mami
- 1D2-06** Synthesis and Property of Magnetic Nanoparticles Protected by Chiral Organic Molecules (Kinki Univ. Faculty of Science and Engineering) UEMURA, Atsushi; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 1D2-07** Synthesis and Electrophoretic Deposition of SrTiO₃ Nanoparticles (Univ. of Yamanashi) JO, Toshihiko; YAN, Hu; OKUZAKI, Hidenori
- 1D2-08** Preparation of mesoporous silica microcapsules using Layer-by-Layer method (Meiji Univ.) ISHII, Tomohiro; KATO, Noritaka

Chair: YAMADA, Mami (10 : 30 ~ 11 : 20)

- * 10:20-10:30: interval for laptop PC connection.(1D2-10, 1D2-12, 1D2-14)
- 1D2-10*** Control of size, shape, physical properties and reactivities for cobalt oxides and hydroxides (Graduate School of Frontier Sciences, The Univ. of Tokyo) SASAKI, Takehiko; MUKAE, Yuusuke; TAKAHASHI, Arata; YANG, Jinhu
- 1D2-12*** Synthesis of monodispersed mesoporous Tin dioxide spheres (Toyota Central R&D Labs., Inc.) TATSUDA, Narihito; NAKAMURA, Tadashi; YANO, Kazuhisa
- 1D2-14** Fabrication of Mesoporous Silica Capsule with Dueltemplate (National Institute for Materials Science) MASHIMO, Masahiro; JI, Qingmin; KAWAZOE, Naoki; CHEN, Guoping; SAKAI, Hideki; ABE, Masahiko; ARIGA, Katsuhiko

Chair: IKEZOE, Yasuhiro (11 : 30 ~ 12 : 20)

- * 11:20-11:30: interval for laptop PC connection.(1D2-16, 1D2-18, 1D2-19, 1D2-20)
- 1D2-16*** Identification of SnO₂-binding peptides and their biomineralization assay (RCAT, The Univ. of Tokyo) MATSUNO, Hisao; KAWASHIMA, Yuki; SERIZAWA, Takeshi
- 1D2-18** One-Dimensional Self-Assembly of Monodispersed Silica Nanospheres (Univ. of Tokyo) FUKAO, Masashi; SUGAWARA, Ayae; SHIMOJIMA, Atsushi; OKUBO, Tatsuya
- 1D2-19** Structure analysis of C₆₀ nanofiber efficiently produced by sonication (Faculty of Science and Engineering, Chuo Univ.) OGAKI, Shohei; MURAYAMA, Haruno; TANAKA, Hideki
- 1D2-20** Photoluminescence behavior of carbon nanoparticles prepared from carbon black (Shinshu Univ.) KAINUMA, Kazuhiro; TAKADA, Yoshihiko; KONDO, Atsushi; OKINO, Fujio; HATTORI, Yoshiyuki

Friday, March 27, PM

Chair: SERIZAWA, Takeshi (13 : 30 ~ 14 : 40)

- * 13:20-13:30: interval for laptop PC connection.(1D2-28, 1D2-30, 1D2-32, 1D2-34)
- 1D2-28*** Preparation of Fluorescent Nanodiamond Stably Dispersed under Physiological Environment for Their Medicinal Applications (Shiga Univ. of Medical Science) TAKIMOTO, Tatsuya; KIMURA, Takahide; MORITA, Masahito; CHANO, Tokuhiko; KOMATSU, Naoki
- 1D2-30*** Growth of Giant Two-Dimensional Crystal of Protein Molecules and Random Number Generation (Flucto-Order Functions (RIKEN ASI), NAIST, Panasonic, Tokyo Institute of Technology) IKEZOE, Yasuhiro; KIM, Song-Ju; YAMASHITA, Ichiro; HARA, Masahiko
- 1D2-32*** One-pot Synthesis of Size and Shape controlled ITO nanoparticles and Evaluation of their Electrical resistivity (IMRAM Tohoku Univ., DOWA ELECTRONICS MATERIALS) SASAKI, Takafumi; ENDO, Yosuke; KANIE, Kiyoshi; MURAMATSU, Atsushi; NAGATOMI, Akira; TANOUE, Koji; SAITO, Kazuhisa
- 1D2-34** Hydrothermal Synthesis of Bismuth Sodium Titanate Nanoparticles and their Piezoelectric Properties (IMRAM Tohoku Univ., Fuji Ceramics) NUMAMOTO, Yoshiki; KANIE, Kiyoshi; MURAMATSU, Atsushi; TANI, Junji; TAKAHASHI, Hirohumi

Saturday, March 28, AM

Chair: KAWAI, Tsuyoshi (9 : 30 ~ 10 : 10)

- * 9:20-9:30: interval for laptop PC connection.(2D2-04, 2D2-05, 2D2-06, 2D2-07)
- 2D2-04** Construction of p/n Conjugated Semiconductor Nano-particle System toward Artificial Photosynthetic System (Tokyo Metropolitan Univ.,SORS/JST) GOTO, Yu; MASUI, Dai; TACHIBANA, Hiroshi; TAKAGI, Shinsuke; INOUE, Haruo
- 2D2-05** Generation of blue/green/red light emitting silicon nanocrystal and understanding mechanism of photoluminescence (N-BARD, Hiroshima Univ.,Department of Chemistry,Graduate School of Science, Hiroshima Univ.,PRESTO, JST) YAMAMURA, Tomoharu; KAJIYA, Daisuke; SAITOW, Ken-ichi
- 2D2-06** Synthesis and characterization of narrow-gap semiconductor InN quantum dots (Jpn. Adv. Inst. Sci. Tech.) MORI, Yasutoshi; MAENOSONO, Shinya
- 2D2-07** Synthesis and Optical Properties of Monodisperse Metal Sulfide Semiconductor Nanoparticles (Univ. of Tsukuba) HONDA, Tetsuya; KANEHARA, Masayuki; TERANISHI, Toshiharu

Chair: KANEHARA, Masayuki (10 : 20 ~ 11 : 00)

- * 10:10-10:20: interval for laptop PC connection.(2D2-09, 2D2-10, 2D2-11, 2D2-12)
- 2D2-09** Photovoltaic characteristics of PbSe quantum dot sensitized ZnO nanocrystal thin film (Jpn. Adv. Inst. Sci. Tec.) HONNA, Yuya; KITAMURA, Daisuke; MAENOSONO, Shinya
- 2D2-10** Chiral-Memory Effects of Optically Active CdTe Nanocrystals and Effects of Surface Treatment. (Graduate School of Materials Science, Nara Institute of Science and Technology) KOBAYASHI, Yuki; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2D2-11[†]** Synthesis and Structure Control of CdS-CdTe Heterojunction Semiconductor Nanocrystals (Nara Inst. Sci. Tech.) NONOGUCHI, Yoshiyuki; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2D2-12** Preparation of Hollow Structured Highly Photoluminescent Glass Beads Incorporating CdTe Nanocrystals (PRI, Nat. Inst. of Adv. Ind. Sci. & Tech. (AIST)) ANDO, Masanori; YANG, Ping; MURASE, Norio

Chair: MAENOSONO, Shinya (11 : 10 ~ 12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(2D2-14, 2D2-16, 2D2-18)
- 2D2-14*[†]** Formation of 3D-superlattice structure of sphere- and cubic-shaped EuS nanocrystals. (Graduate School of Materials Science, Nara Institute of Science and Technology) TANAKA, Atsushi; HASEGAWA, Yasuchika; KAMIKUBO, Hironari; KATAOKA, Mikio; KAWAI, Tsuyoshi
- 2D2-16*** Chloride Ion-Induced Structural Transformation of Cd Chalcogenide Nanoparticles (Univ. of Tsukuba) SARUYAMA, Masaki; KANEHARA, Masayuki; TERANISHI, Toshiharu
- 2D2-18*[†]** Size Control and Large-scale Synthesis of Monodisperse Amine-protected Palladium Nanoparticles. (Univ. of Tsukuba) SATO, Ryota; KANEHARA, Masayuki; TERANISHI, Toshiharu

Saturday, March 28, PM

Chair: KONISHI, Katsuki (13 : 20 ~ 14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(2D2-27, 2D2-28, 2D2-29, 2D2-30, 2D2-31, 2D2-32)
- 2D2-27** Generation of Metal/Metal Oxide Nanoparticle with Discharge in Metallic Salt Aqueous Solution (Tokyo Univ. of Agriculture and Technology) SUEMATSU, Nobuhiko; YAMADA, Mami
- 2D2-28** Synthesis and magnetic properties of hep Ni nanofiber (Univ. of Kyushu) HOSOI, Kohei; KOBAYASHI, Hirokazu; INAGAKI, Yuji; YAMAUCHI, Miho; KITAGAWA, Hiroshi
- 2D2-29** Self-organizing Dimer Formation of Silver Nanocubes through Face Selective Functionalization and Surface Plasmon Coupling at Its Fractal Junction (Research Center for Ultra-Precision Science and Technology, Graduate School of Engineering, Osaka Univ.) MITANI, Munehisa; UCHIDA, Shuhei; YAMAMURA, Kazuya; ENDO, Katsuyoshi; ZETTSU, Nobuyuki
- 2D2-30** Fabrication of silver/polymer nanocomposite opals film (Fac. of Sci. and Eng., Konan Univ.) KUMAZAKI, Shota; NAWAFUNE, Hidemi; AKAMATSU, Kensuke
- 2D2-31** pH-dependent Size Tuning of Rh Nanoparticles (Univ. of Tsukuba) IKEDA, Takahiro; KANEHARA, Masayuki; TERANISHI, Toshiharu
- 2D2-32** Synthesis of Pd@ γ -Fe₂O₃ Core-Shell Nanoparticles for Formation of Exchange-Coupled Nanocomposite Magnets (Univ. of Tsukuba) SUZUKI, Yoshihito; KANEHARA, Masayuki; TERANISHI, Toshiharu

Chair: TERANISHI, Toshiharu (14 : 30 ~ 15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(2D2-34, 2D2-35, 2D2-37)
- 2D2-34[†]** Microwave-assisted synthesis of monodispersed Cu-Ni alloy nanoparticles from their formate complexes with long-chain amine ligands and their magnetic properties. (Graduate School of Engineering, Osaka Univ.) YAMAUCHI, Tomohisa; TSUKAHARA, Yasunori; WADA, Yuji
- 2D2-35*** Interaction/reaction on the metal surface of gold clusters (Hokkaido

Univ. Environmental) MURAKAMI, Yoshitaka; KONISHI, Katsuaki
2D2-37* Asymmetric Suzuki-Miyaura Cross-coupling Reactions by Chiral Metal Nanocatalyst (Kinki Univ. Faculty of Science and Engineering) SAWAI, Koji; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

Chair: AKAMATSU, Kensuke (15 : 30~16 : 20)

* 15:20-15:30: interval for laptop PC connection.(2D2-40, 2D2-41, 2D2-42, 2D2-43, 2D2-44)

2D2-40 Synthesis of Ag nanoparticles capped with self-assembled monolayer of azobenzene derivatives and their photo-response behavior (Tokyo Univ. of Sci.) ISHISONE, Takahiro; KUME, Masakazu; KONDO, Takeshi; KAWAI, Takeshi

2D2-41 Olefin partial oxidation catalyzed by PVP-protected Ag triangular nanoplates produced by photo irradiation (Faculty of Science and Engineering, Chuo Univ.) MURAYAMA, Haruno; HASHIMOTO, Naomi; TANAKA, Hideki

2D2-42 Structural Change of Ag-Rh Alloy Nanoparticles by Hydrogen Absorption/Desorption Cycles (Kyushu Univ.) KUSADA, Kohei; YAMAUCHI, Miho; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi

2D2-43 Synthesis and Hydrogen-storage property of Pd-Ru nanoparticles (Kyushu Univ.) KOTSUBO, Masanobu; YAMAUCHI, Miho; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi

2D2-44 Construction of Photocatalytic Hydrogen-Evolution System Using Photocatalyst-Modified Metal Nanoparticles (Osaka Univ.; SORST(JST)) HANAZAKI, Ryo; KOTANI, Hiroaki; OHKUBO, Kei; FUKUZUMI, Shunichi

Chair: KITAGAWA, Hiroshi (16 : 30~17 : 20)

* 16:20-16:30: interval for laptop PC connection.(2D2-46, 2D2-47, 2D2-48, 2D2-49, 2D2-50)

2D2-46 Surface-coating of gold nanoparticles by *elastin*-like peptides having various LCSTs and their self-assembly (Doshisha Univ.) OCHIAI, Takayuki; KOGA, Tomoyuki; HIGASHI, Nobuyuki

2D2-47 Fabrication of Polymer / Metal Nanoparticles Composite Thin Films (Fac. of Sci. and Eng., Konan Univ.) TODA, Isao; MURASHIMA, Takashi; MATSUI, Jyun; NAWAFUNE, Hidemi; AKAMATSU, Kensuke

2D2-48 Synthesis and characterization of amphiphilic glycopolymer with self-assembling ability (Tokyo Univ. of Science) HAGIWARA, Toshiya; UENO, Koji; OTSUKA, Hidenori

2D2-49 Characterization of the interfacial properties of the graft polymer based on pyridine and PEG. (Tokyo Univ. of Science) SAITO, Yoshihiro; ISHIDUKA, Takashi; OTSUKA, Hidenori

2D2-50 Fractionation of Au nanowires and nanoparticles by phase transfer process between water and organic phases (Tokyo Univ. of Science) IMURA, Yoshiro; MORITA, Clara; KONDO, Takeshi; KAWAI, Takeshi

Sunday, March 29, AM

Chair: TORIMOTO, Tsukasa (9 : 30 ~ 10 : 30)

* 9:20-9:30: interval for laptop PC connection.(3D2-04, 3D2-05, 3D2-06, 3D2-07, 3D2-08, 3D2-09)

3D2-04 Size Control of Gold Nanoparticles by Tetradentate Surface Protecting Ligands Possessing Porphyrin Scaffold (Graduate School of Engineering, Kyoto Univ.) HIGUCHI, Yasuhiro; OHYAMA, Junya; HITOMI, Yutaka; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

3D2-05 Size and shape control of gold nanoparticles synthesized in surfactant- and reducer-free aqueous media (Shinshu Univ.; Tokyo Univ. Sci.) SAKAI, Toshio; ENOMOTO, Hiroto; SAKAI, Hideki; ABE, Masahiko

3D2-06 Preparation of Subnano-Sized Au Nanoparticles by Base-Dependent Adsorption of Nucleic Acid onto Au (Graduate School of Science, Hokkaido Univ.) ISHIKAWA, Ayako; MATSUO, Yasutaka; IJIRO, Kuniharu

3D2-07 Synthesis and Property of Chiral Cavitand-modified Metal Nanoclusters (Kinki Univ. Faculty of Science and Engineering) NISHIMURA, Ryo; SAWAI, Koji; NOURA, Kazuki; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3D2-08 Synthesis of novel alkyl-substituted phenylazomethinedendrimers and metallic nanoparticles (Keio Univ.) SAKURAI, Kozue; OCHI, Yousuke; YAMAMOTO, Kimihisa

3D2-09 Gold nanoparticle synthesis using multifunctional polymers in aqueous media (Shinshu Univ.) ISHIGAKI, Mai; OKADA, Tomohiko; MISHIMA, Shozi; SAKAI, Toshio

Chair: SAKAI, Toshio (10 : 40~11 : 40)

* 10:30-10:40: interval for laptop PC connection.(3D2-11, 3D2-12, 3D2-13, 3D2-14, 3D2-15, 3D2-16)

3D2-11 Investigation of growth process of Au nanoparticles produced on single wall carbon nanotubes by photo irradiation (Institute of Science and Engineering, Chuo Univ.) MUSASHI, Daisuke; NAKAGAWA, Kazusa; MURAYAMA, Haruno; TANAKA, Hideki

3D2-12 Surface structure analysis of Au polyhedral nanocrystals synthesized by photo irradiation (Institute of Science and Engineering, Chuo Univ.) NAKAGAWA, Kazusa; MURAYAMA, Haruno; TANAKA, Hideki

3D2-13 Synthesis and Optical Properties of Gold Nanoparticles Protected by Phthalocyanine Derivatives (Univ. of Tsukuba) ITAKO, Norifumi; KANEHARA, Masayuki; TERANISHI, Toshiharu

3D2-14 Spontaneous Formation of Gold Nanoparticles within the Pigment Reverse Micelle Spheres (Shizuoka Univ.) TAKAHASHI, Masaki; OHNO, Shuhei; SENGOKU, Tetsuya; YODA, Hidemi

3D2-15 Synthesis and Property of Chiral Vinylendron-modified Metal Nanoclusters (Kinki Univ. Faculty of Science and Engineering) SAKAI, Masahiro; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3D2-16 Size Control of Gold Nanoparticles Sputter-deposited in Ionic Liquids by the Heat Treatment (Nagoya Univ.) KURIMOTO, Takashi; OKAZAKI, Ken-ichi; KUWABATA, Susumu; TORIMOTO, Tsukasa

Chair: KANIE, Kiyoshi (11 : 50~12 : 30)

* 11:40-11:50: interval for laptop PC connection.(3D2-18, 3D2-20)

3D2-18* Regulation of Seed Growth of the Gold Nanoparticle in the Polyethylene Glycol-Modified Dendrimer (Osaka Prefecture Univ.) KOJIMA, Chie; UMEDA, Yasuhito; HARADA, Atsushi; KAWAKAMI, Syunsuke; HORINAKA, Hiromichi; KONO, Kenji

3D2-20* Room Temperature Size Evolution of Thiol-Protected Gold Nanoparticles assisted by Proton Acids and Halogen Anions (Univ. of Tsukuba) KANEHARA, Masayuki; SAKURAI, Junichi; TERANISHI, Toshiharu

Sunday, March 29, PM

Chair: KAWAI, Takeshi (13 : 40~15 : 00)

* 13:30-13:40: interval for laptop PC connection.(3D2-29, 3D2-30, 3D2-31, 3D2-32, 3D2-33, 3D2-34, 3D2-35)

3D2-29 Fractal dimension analysis of gold nanonetwork fabricated by intense photon-field reaction in supercritical fluid (Department of chemistry, Hiroshima Univ., Integrated science and Engineering, Ritumeikann Univ., N-BARD, Hiroshima Univ., PRESTO JST) OKAMOTO, Yoshinori; YANO, Youko; KAJIYA, Daisuke; SAITOW, Ken-ichi

3D2-30 Surface-enhanced resonance Raman spectrum of single fluorescence dye molecules adsorbed on gold nanoparticle with specific structure (Department of Chemistry, Hiroshima Univ., N-BARD, Hiroshima Univ., PRESTO JST) ARAKAWA, Minoru; KAJIYA, Daisuke; SAITOW, Ken-ichi

3D2-31 A new method for formulation of Au nanoparticles network via click chemistry (Aoyama Gakuin Univ.) IWASAKI, Koji; KIMOTO, Atsushi; ABE, Jiro

3D2-32 Time-resolved Microspectroscopic Study on Gold Nanostructures (school of science and technology, Kwansai Gakuin Univ.) YOSHII, Shinya; MIZOGUCHI, Daigou; HIRATA, Hiroki; TAMAI, Naoto

3D2-33 Characterization of Silver Ion Complexes adsorbed on Gold Nanorods by using SALDI-MS (Kyushu Univ.) NAKAMURA, Yuki; NAKASHIMA, Naotoshi; NIIDOME, Yasuro

3D2-34 real-time observation of gold nanorods in vivo (Kyushu university) SHIMODA, Kohei; AKIYAMA, Yasuyuki; KATAYAMA, Yoshiki; NAKASHIMA, Naotoshi; NIIDOME, Takuro; NIIDOME, Yasuro

3D2-35* Immobilization of Polyanion Polymers modified Gold Nanorods on Glass Substrates for Localized Plasmon Resonance Sensing of Polypeptide (Kinki University-Kyushu) HONDA, Kanako; NAKASHIMA, Naotoshi; NIIDOME, Yasuro

Chair: NIIDOME, Yasuro (15 : 10~16 : 10)

* 15:00-15:10: interval for laptop PC connection.(3D2-38, 3D2-40, 3D2-41, 3D2-43)

3D2-38* Novel Synthesis of Thiol-Capped Au Nanoparticles in an Organic Solvent (Kobe Univ.; IMRAM, Tohoku Univ.) SUGIE, Atsushi; SOMETE, Takashi; MORI, Atsunori; MATSUBARA, Masaki; KANIE, Kiyoshi; MURAMATSU, Atsushi

3D2-40 Solubilization of Au Thiolate and its Application to Synthesis of Au Nanoparticles (Kobe Univ.; IMRAM, Tohoku Univ.) YAMANAKA, Takeshi; SUGIE, Atsushi; HATTA, Tomomi; MORI, Atsunori; KANIE, Kiyoshi; MURAMATSU, Atsushi

3D2-41* Preparation and properties of aggregates of rod-like nanoparticles (Kumamoto Univ.) KUWAHARA, Yutaka; IWANAGA, Tomoki; KATAYAMA, Kengo; SASAKI, Mitsuru; GOTO, Motonobu

3D2-43 Synthesis of very thin gold nanowires by using long-chain amidoamine derivative: Effect of reductant on gold nanowire formation (Tokyo Univ. of Sci.) TANUMA, Hiromitsu; MATSUE, Keisuke; IMURA, Yoshiro; KONDO, Takeshi; KAWAI, Takeshi

Monday, March 30, AM

Micelle, Microemulsion

Chair: OHARA, Keishi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4D2-01, 4D2-02, 4D2-03, 4D2-04, 4D2-05)

4D2-01 Isomer effect on micellization of surfactants having an aromatic ring, C₁₀H₈ (Tokai Univ.; Shinshu Univ.) FUJIO, Katsuhiko; SHITARA, Masatoshi; YAMADA, Tomoyoshi; OZEKI, Sumio

4D2-02 Micellar properties of a phosphate-type hybrid surfactant (Tokyo Univ. Sci.) KASHIWABA, Shingo; KONDO, Yukishige

4D2-03 Viscosity Boosting Effect of added ionic surfactant in wormlike aqueous micelle solution of nonionic surfactant system water/ nonionic surfactant/ionic surfactant system. (Yokohama National Univ.)

ISHIZUKA, Chika; ARIMA, Satoshi; ARAMAKI, Kenji

4D2-04 Interaction of Polymer Self-assemblies, Lactosome, Composed of Poly (L-lactic acid)-block-poly-(sarcosine) with Poly lactic acid and Low-molecular Compound (Graduate School of Materials Science, Nara Institute of Science and Technology, Shimadzu corporation) OHMAE, Misako; OZEKI, Eiichi; YAMAHARA, Ryo; HARA, Isao

4D2-05* Stabilization of Water-in-Carbon Dioxide type Molecular Assemblies and Their Application for Nanoparticle Syntheses (Hirosaki Univ.) SAGISAKA, Masanobu; OASA, Junichi; KASAI, Shuntaro; HASEGAWA, Satoshi; HINO, Masaya; YOSHIZAWA, Atsushi

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

* 10:00-10:10: interval for laptop PC connection.(4D2-08, 4D2-09, 4D2-10, 4D2-11, 4D2-12, 4D2-13)

4D2-08 Droplet size dependence of singlet oxygen lifetime in vitamin E emulsion (Ehime Univ., Graduate school of Sci. and Eng.) ORIGUCHI, Takashi; OHARA, Keishi; NAGAOKA, Shin-ichi

4D2-09 Inorganic cations-induced formation of ribbon aggregates of hybrid surfactant and their morphology observation. (Tokyo Univ. Sci.) KAISE, Takahiro; KONDO, Yukishige

4D2-10 Structural formation and its process of vesicles and worm-like lamellar domains in a dense region below the Krafft temperature (Tokyo Metropolitan Univ.) KAWABATA, Youhei; YOSHIMURA, Hayato; KATO, Tadashi

4D2-11 Temperature dependence of vesicle formation process below the Krafft temperature (Tokyo Metropolitan Univ.) SHINODA, Tomoaki; KAWABATA, Youhei; KATO, Tadashi

4D2-12 Morphologies of hydrated solid phase in the mixed polyoxyethylene-type nonionic surfactant systems (Kao Corp.; Tokyo Metropolitan Univ.) NAGAI, Yuko; SHINODA, Tomoaki; KAWABATA, Youhei; KATO, Tadashi

4D2-13 Defect-creation processes in the lamellar phase induced by micellar/lamellar phases separation (Tokyo Metropolitan Univ.) OKA, Masato; KAWABATA, Youhei; KATO, Tadashi

Liquid Crystal, Microbubble

Chair: KATO, Tadashi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4D2-15, 4D2-16, 4D2-18, 4D2-19)

4D2-15 Phase behavior of the solid and liquid crystalline phases in the aqueous system of lipophilic lipid and cholesterol mixture (Yokohama National Univ.) YOSHIMURA, Akio; KONNO, Yoshikazu; NAITO, Noboru; ARAMAKI, Kenji

4D2-16* Effect of Surfactant Type on Microbubble Generation (NFRI; Univ. of Tsukuba) XU, Qingyi; NAKAJIMA, Mitsutoshi; NAKAMURA, Nobutaka; SHIINA, Takeo

4D2-18 Gold Nanoparticle Dispersed Polymer-stabilized Blue Phase I with Small Angle X-ray Scattering (Institute for Material Chemistry and Engineering, Kyushu Univ.) HIGASHIGUCHI, Kenji; YASUI, Kei; OZAWA, Masaaki; ODOI, Keisuke; MASUNAGA, Hiroyasu; SASAKI, Sono; KIKUCHI, Hirotugu

4D2-19*† Liquid Crystalline Polymers with Highest Mesogen Density Carrying Two Mesogenic Groups in Constitutional Unit (Tokyo Univ. Agr. Technol.) FUJII, Nozomu; MICHINOBU, Tsuyoshi; TOKITA, Masatoshi; WATANABE, Junji; SHIGEHARA, Kiyotaka

Room D3

Bldg.6 635

Colloid and Interface Chemistry

Friday, March 27, AM

Chair: TERO, Ryugo (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(1D3-07, 1D3-08, 1D3-09, 1D3-10, 1D3-11)

1D3-07 Formation and structure of Langmuir-Blodgett films for organo-modified clay (Graduate School of Science and Engineering, Yamagata Univ.) NOMURA, Rintaro; FUJIMORI, Atsuhiko

1D3-08 Coordination Behavior of Halogen Atoms in a Lead-Based Perovskite Thin Film Prepared on an Air-Water Interface (Saga Univ., Faculty of Science and Engineering) SHIMODA, Masahiko; MORIYAMA, Kenji; NARITA, Takayuki; ERA, Masanao; OISHI, Yushi

1D3-09 Molecular recognition for Nucleo base by Monolayer at the air-water interface (National Institute for Materials Science) SUZUKI, Yasumasa; ENDO, Hiroshi; SINODA, Satoshi; TUKUBE, Hiroshi; KANEKIYO, Yasumasa; OKAMOTO, Ken; ARIGA, Katsuhiko

1D3-10 Control of phase-separated structures in binary mixed Langmuir monolayers containing cationic organosilanes as one component (Utsunomiya Univ.) IIMURA, Ken-ichi; YUZAWA, Tomomi; KATO, Norohiro

1D3-11* Potential-dependence of adsorption at the oil/water interface of novel

surface-active ion having a charged hydrophobic and an uncharged hydrophilic part (Kyoto Univ.) KITAZUMI, Yuki; NISHI, Naoya; YAMAMOTO, Masahiro; KAKIUCHI, Takashi

Chair: NOGUCHI, Hidenori (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(1D3-14, 1D3-15, 1D3-16, 1D3-17, 1D3-18, 1D3-19)

1D3-14 Property and Structures of Mixed Monolayers of Raft Lipids at the Air/Water Interface (Utsunomiya Univ.) TOMITA, Masahiro; OOSHIDA, Syou; BREZESINSKI, Gerald; KATO, Norihiro; IIMURA, Ken-ichi

1D3-15 Adsorption Structure of Amyloid A β Peptide to Leaf Lipid Monolayers on the Water Surface (Utsunomiya Univ.) KAWAGISHI, Akina; URUGA, Tomoya; TANIDA, Hajime; KATO, Norihiro; IIMURA, Ken-ichi

1D3-16 Solid-state structure and formation of organized molecular films of ternary comb copolymers containing s-triazine ring (Graduate School of Science and Engineering, Yamagata Univ.) NEMOTO, Yusuke; FUJIMORI, Atsuhiko

1D3-17 Molecular orientation in Langmuir-Blodgett films of comb copolymers containing functionalised groups studied by polarized NEXAFS spectroscopy (Graduate School of Science and Engineering, Yamagata Univ.) SATO, Natsuki; FUJIMORI, Atsuhiko

1D3-18 Effect of Salt on Lipid Bilayer Detection using Field Effect (NIMS; Univ. of Tokyo) KATAOKA, Chiho; MIYAHARA, Yuji

1D3-19 Formation of Rhodium Complex Monolayers on Gold Surface via Isocyanide Anchoring Moiety (Hokkaido Univ.) KAJI, Yoshinori; HARA, Kenji; FUKUOKA, Atsushi

Friday, March 27, PM

Chair: OYAMA, Noboru (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(1D3-27, 1D3-28, 1D3-29, 1D3-30, 1D3-31)

1D3-27 Nanosheet seed-layer assists oriented growth of luminescent perovskite films (National Institute of Advanced Industrial Science and Technology) TETSUKA, Hiroyuki; EBINA, Takeo; TAKASHIMA, Hiroshi; Ikegami, Keiichi; Nanjo, Hiroshi; Mizukami, Fujio

1D3-28 Design of Hydrophobic Alkyl Chain for A Reaction in Water by Organocatalyst(2) (Kyoto Univ) KAJITA, Harutake; KURAHASHI, Takuya; MATSUBARA, Seiji

1D3-29 Stepwise fabrication of metal complex frameworks on substrates (Univ. of Kyushu) HARA, Takafumi; KANAIZUKA, Katsuhiko; KITAGAWA, Hiroshi

1D3-30 Synthesis of Giant Cross Shaped Multi-Pyridyl Porphyrin Ligand and Its Coordination Behavior to Construct Self-Assembled Multilayers on Electrode Surface (School of Science, The Univ. of Tokyo) TOSHIMITSU, Fumiyuki; KUME, Shoko; NISHIHARA, Hiroshi

1D3-31* Study on Formation Process and structure of Polyproline SAM on Gold Surface (Graduate School of Science, Hokkaido Univ.) HAN, Ying; IWAMA, Takashi; ADACHI, Tatsuhiko; NOGUCHI, Hidenori; SAKAGUCHI, Kazuyasu; UOSAKI, Kohei

Saturday, March 28, AM

Chair: FUJIMORI, Atsuhiko (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2D3-01, 2D3-02, 2D3-03, 2D3-05)

2D3-01 Synthesis and Properties of Tripodal Anchor Units Bearing Pyridyl or Amino Groups and Conductance Measurements of Diphenylacetylene Having Their Anchor Units at Both Terminals (The Institute of Scientific and Industrial Research, Osaka Univ.) HIROSE, Tomoya; IE, Yutaka; KIGUCHI, Manabu; ASO, Yoshio

2D3-02 Adsorption of the Asymmetric Tetraalkylammonium Ions on Binary Self-Assembled Monolayer by Electrostatic Force (Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto Univ.) MOTOKAWA, Toshiyuki; NISHI, Naoya; YAMAMOTO, Masahiro; KAKIUCHI, Takashi

2D3-03* Control of aggregation in mixed LB films containing merocyanine dye using hydrothermal treatment in liquid phase (3) (Kwansei Gakuin Univ.) YAMAZAKI, Asuka; HIRANO, Yoshiaki; KITAHAMA, Yasutaka; OZAKI, Yukihiko

2D3-05* IR reflection-absorption spectrum of merocyanine-dye LB films deposited on ZnO-based transparent electrodes (Nanotechn. R.I., AIST; R. C. Photovoltaics, AIST; Nanoelectron. R.I., AIST) Ikegami, Keiichi; Yoshiyama, Takashi; Maejima, Keigou; Shibata, Hajime; Tampo, Hitoshi; Niki, Shigeru

Chair: IIMURA, Ken-ichi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2D3-08, 2D3-09, 2D3-10, 2D3-11, 2D3-13)

2D3-08 Preparation of a Metamaterial by a self-assembly method (Nihon Univ.) MIYOSHI, Saki; MATUSHITA, Sachiko

2D3-09 Confocal Raman Microscopic Study of Polymerization of Diacetylene Films (Yamagata Univ.) NEMOTO, Yu; SANO, Masahito

2D3-10 Real-time observation of morphological changes of a multi-compo-

ment tubular giant vesicle under static magnetic field (Grad. School of Arts and Sciences, The Univ of Tokyo; Grad. School of Eng., Chiba Univ.) SUZUKI, Kentaro; TOMITA, Takuya; TOYOTA, Taro; IWASAKA, Masakazu; SUGAWARA, Tadashi

- 2D3-11***† Exo- and Endo-Budding Transitions of a Lipid Membrane Controlled by Light (School of Materials Science, Japan Advanced Institute of Science and Technology) ISHII, Ken-ichi; HAMADA, Tsutomu; HATAKEYAMA, Masaomi; SUGIMOTO, Ryoko; NAGASAKI, Takeshi; TAKAGI, Masahiro
- 2D3-13** Construction of Asymmetric Cell-Sized Lipid Vesicles from Lipid-Coated Water-in-Oil Microdroplets (School of Materials Science, JAIST) KISHIMOTO, Yuko; KOMATSU, Yuuki; HAMADA, Tsutomu; TAKAGI, Masahiro

Chair: MATSUSHITA, Sachiko (11:20~12:10)

- * 11:10-11:20: interval for laptop PC connection.(2D3-15, 2D3-17, 2D3-18, 2D3-19)
- 2D3-15*** In situ Observation of Molecular Diffusion in Supported Planar Lipid Bilayers on Oxide Surfaces: Single-Molecule Tracking Applicable to Various Substrates (Inst. for Molecular Sci.) TERO, Ryugo; SAZAKI, Gen; UJIHARA, Toru; URISU, Tsuneo
- 2D3-17** Controlling of self-spreading dynamics of lipid bilayer toward novel molecular separation (Hokkaido Univ.) SUMIDA, Tomoki; TAKIMOTO, Baku; NABIKI, Hideki; MURAKOSHI, Kei
- 2D3-18** Control of molecular diffusion in lipid bilayer by asymmetric nanostructure (Hokkaido Univ.) MOTEGI, Toshinori; TAKIMOTO, Baku; NABIKI, Hideki; MURAKOSHI, Kei
- 2D3-19** Selective growth of silica cylinders on solid surfaces covered by phase-separated monolayers (Utsunomiya Univ.) ITO, Takayuki; NAKAMURA, Ayako; KATO, Norihiro; IIMURA, Ken-ichi

Saturday, March 28, PM

Chair: FURUKAWA, Kazuaki (13:20~14:20)

- * 13:10-13:20: interval for laptop PC connection.(2D3-27, 2D3-29, 2D3-30, 2D3-31, 2D3-32)
- 2D3-27*** Deposition of Oxide Nanoparticle in Perfluorosulfonic Membrane by the Liquid Phase Deposition (Kobe Univ.) MIZUHATA, Minoru; HASEGAWA, Takashi; DEKI, Shigehito
- 2D3-29**† Position-controlled fixation of oligonucleotides on gold nanoparticles using DNA nanostructures as templates (RIKEN) SUZUKI, Kenji; HOSOKAWA, Kazuo; MAEDA, Mizuo
- 2D3-30** Elongation and Pinning of single DNA molecular by Controlling the Position and Number of DNA with Laser on Au Surface (Department of Applied Chemistry, Faculty of Science and Engineering Chuo Univ.) FUJII, Sho; KOBAYASHI, Katsuaki; OKAMOTO, Tetsuaki; TOYABE, Shoichi; MUNEYUKI, Eiro; HAGA, Masa-aki
- 2D3-31** Synthesis and Property of Anionic Polymer Nanotubes (Kinki Univ. Faculty of Science and Engineering) FUJIMOTO, Nobuyuki; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 2D3-32** Synthesis and Property of Semiconductor Nanoparticle-Polymer Nanotube Composites (Kinki Univ. Faculty of Science and Engineering) KOTANI, Michihiko; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

Chair: MIZUHATA, Minoru (14:30~15:20)

- * 14:20-14:30: interval for laptop PC connection.(2D3-34, 2D3-36, 2D3-37)
- 2D3-34*** Size-Dependent Catalytic Activity of Titanium (IV) Dioxide-Supported Gold Nanoparticles for Hydrogen Peroxide Decomposition (School of Science and Engineering, Kinki Univ.) KIYONAGA, Tomokazu; JIN, Qiliang; TADA, Hiroaki; KOBAYASHI, Hisayoshi
- 2D3-36** Detection of single molecular-scale biomolecular reaction on arrayed gold nanorod thin film (NTT Basic Research Labs) NAKASHIMA, Hiroshi; FURUKAWA, Kazuaki; SHINOZAKI, Youichi; SUMITOMO, Koji; TORIMITSU, Keichi
- 2D3-37*** Preparation and Size Control of Gold Nanoframes Using an Electrochemical Deposition Technique (Nagoya Univ.) OKAZAKI, Ken-ichi; YASUI, Jun-ichi; TORIMOTO, Tsukasa

Chair: TAKAKUSAGI, Satoru (15:30~16:30)

- * 15:20-15:30: interval for laptop PC connection.(2D3-40, 2D3-42, 2D3-43)
- 2D3-40*** In situ EQCM measurement on the Au Electro-Dissolution and Deposition Processes in Ionic Liquid (Tokyo Univ. of Agric. & Tech.; Tokyo Institute of Tech.) YAMAGUCHI, Shuichiro; OYAMA, Noboru; OYAMA, Taku; RAHMAN, Md. Rezaur; OKAJIMA, Takeyoshi; OHSAKA, Takeo
- 2D3-42** Photoelectrochemical Properties of Electrode Modified by Silver Nanoparticles Covered with J-Aggregate of Cyanine Dye (Univ. of Tsukuba) ISAKA, Motohiro; KATO, Shuhei; YOSHIMURA, Kei; OMURA, Ayako; SATO, Tomoo
- 2D3-43** Young Scholar Lectures of CSJ Surface Functionalization of Conductive Diamond (Tokyo Univ. of Sci.) KONDO, Takeshi

Chair: OKAZAKI, Ken-Ichi (16:40~17:30)

- * 16:30-16:40: interval for laptop PC connection.(2D3-47, 2D3-48, 2D3-49, 2D3-50, 2D3-51)
- 2D3-47** Fabrication of the Conductive Diamond-Like Carbon by Doping

Boron Atoms and its Electrochemical Reactivity (Ymaguchi Univ.) TANAKA, Yoriko; FURUTA, Masahiro; KURIYAMA, Kouichi; KUWABARA, Ryosuke; FUJISHIMA, Akira; HONDA, Kensuke

- 2D3-48** Fabrication of novel impurity semiconductor based on DLC and its electrochemical properties (Yamaguchi Univ.) FURUTA, Masahiro; TANAKA, Yoriko; KURIYAMA, Kouichi; KUWABARA, Ryosuke; FUJISHIMA, Akira; HONDA, Kensuke
- 2D3-49** Template synthesis of DLC nano dot array using porous alumina and its electrochemical properties (Yamaguchi Univ.) KURIYAMA, Kouichi; KUWABARA, Ryosuke; FURUTA, Masahiro; TANAKA, Yoriko; FUJISHIMA, Akira; HONDA, Kensuke
- 2D3-50** Plasmon assisted nano-lithography of organic monolayers on Si substrates (Graduated school of science, Hokkaido Univ.) HAYASHI, Tariho; IKEDA, Katsuyoshi; UOSAKI, Kohei
- 2D3-51** Surface modification and property of TiO₂ single crystal by wet chemical method (CRC, Hokkaido Univ.) TAKAKUSAGI, Satoru; MIYAZAKI, Kotaro; MIYAMOTO, Takeshi; ASAKURA, Kiyotaka

Sunday, March 29, AM

Chair: NONOMURA, Yoshimune (9:10~10:00)

- * 9:00-9:10: interval for laptop PC connection.(3D3-02, 3D3-03, 3D3-04, 3D3-05, 3D3-06)
- 3D3-02** Fabrication of a surface coordination polymer with a porphyrin derivative on a solid substrate (Kyushu Univ.) MOTOYAMA, Soichiro; MAKIURA, Rie; KITAGAWA, Hiroshi
- 3D3-03** The elucidation of rigid dendritic phenylazomethine assembly action (Keio Univ.) BUKEO, Noriko; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 3D3-04** Design of Dynamic Polymer Surface Based on Water-soluble Polyrotaxane (School of Materials Science Japan, Advanced Institute of Science and Technology; CREST, JST) YAMAGUCHI, Jun; KATOONO, Ryo; MIURA, Yoshiko; YUI, Nobuhiko
- 3D3-05** Preparation of Nano-Multilayered Thin Films with Hydrophobic-in-Air and Hydrophilic-in-Water Property and Effects of Underlayer (Toyoashi Univ. of Tech.; Univ. of Hyogo) EMA, Tomoyuki; DAIKO, Yusuke; MUTO, Hiroyuki; SAKAI, Mototsugu; MATSUDA, Atsunori
- 3D3-06** Commensurate ordering of iron phthalocyanine on Ag(111) surface (Washington State Univ.) TAKAMI, Tomohide; CARRIZALES, Clarisa; HIPPS, K. W.

Chair: FUJII, Masatoshi (10:10~11:00)

- * 10:00-10:10: interval for laptop PC connection.(3D3-08, 3D3-10, 3D3-11, 3D3-12)
- 3D3-08*** Potential-induced structural transitions of organic monolayers on well-defined metal electrodes probed by gap-mode enhanced Raman spectroscopy (Hokkaido Univ.) IKEDA, Katsuyoshi; FUJIMOTO, Norihiro; UOSAKI, Kohei
- 3D3-10** Gap-mode Enhanced Raman Scattering observation of organic monolayers on non-SERS-active metal surfaces (Hokkaido Univ.) SATO, Jun; FUJIMOTO, Norihiro; IKEDA, Katsuyoshi; UOSAKI, Kohei
- 3D3-11** Crystallographic orientation-dependence of surface enhanced Raman spectra (Graduate School of Science, Hokkaido Univ.) SUZUKI, Shuto; IKEDA, Katsuyoshi; UOSAKI, Kohei
- 3D3-12** Orientation of a Small number of molecules at Metal Nano-gap showing Intense Surface-Enhanced Raman Scattering (Hokkaido Univ.) NAGASAWA, Fumika; TAKASE, Mai; NABIKI, Hideki; MURAKOSHI, Kei

Chair: YAMADA, Shinji (11:10~12:00)

- * 11:00-11:10: interval for laptop PC connection.(3D3-14, 3D3-15, 3D3-16, 3D3-17, 3D3-18)
- 3D3-14** Measurement and evaluation of dispersant for ceramic slurries by SPM (Tokyo Institute of Technology) ISOBE, Toshihiro; NAKANO, Yosuke; KAMESHIMA, Yoshihikazu; NAKAJIMA, Akira; OKADA, Kiyoshi
- 3D3-15** Synchrotron X-ray diffraction study of liquid crystal thin film between two gold surfaces (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
- 3D3-16** Surface force measurement between alumina surfaces (Institute of Multidisciplinary Research for Advanced Materials Tohoku Univ.) OSHIMA, Akiko; NOBUTA, Tomoki; NISHIYAMA, Toshihiko; SAKUMA, Hiroshi; KURIHARA, Kazue
- 3D3-17** Simultaneous measurement system of the resonance shear response and the fluorescence spectrum in confined liquids between mica surfaces (Institute of Multidisciplinary Research for Advanced Materials) KASUYA, Motohiro; FUKUSHI, Daisuke; SAKUMA, Hiroshi; KURIHARA, Kazue
- 3D3-18** Tactile impression and frictional properties of water (Yamagata Univ.) NONOMURA, Yoshimune; FUJII, Takaharu; ARASHI, Yuichiro; MIURA, Taku; MAENO, Takashi; TASHIRO, Kaoru; KAMIKAWA, Yasuhisa; MONCHI, Rie

Sunday, March 29, PM

Chair: UEDA, Takahiro (13 : 10~13 : 50)

- * 13:00-13:10: interval for laptop PC connection.(3D3-26, 3D3-27, 3D3-28, 3D3-29)
- 3D3-26** Characterization of silica-modified mesoporous carbon (Institute of Carbon Science and Technology, Shinshu Univ.) TAO, Yousheng; ENDO, Morinobu; KANEKO, Katsumi
- 3D3-27** Change in Hierarchical Structure of Cobalt Coordination Polymers (Chiba Univ.; Shinshu Univ.; Nippon Steel Corp.) NAKAGAWA, Tomohiro; KONDO, Atsushi; KAJIRO, Hiroshi; CHINEN, Ayako; OHBA, Tomonori; KANEKO, Katsumi; KANO, Hirofumi
- 3D3-28** Characterizations and Catalytic Activity of Nanoporous Metallic Platinum (Grad. Sch. Sci., Chiba Univ.) ITOH, Tsutomu; ONOE, Toshinari; ASAI, Michihiro; OHBA, Tomonori; KANEKO, Katsumi; KANO, Hirofumi
- 3D3-29** Structural control of helical silicas due to magnetic fields and their ²⁹Si-NMR spectra (Shinshu university) KUBOTA, Kana; HAMASAKI, Atom; ABE, Haruo; CHE, Shunai; SAKAMOTO, Kazutami; OZEKI, Sumio

Chair: MORISHIGE, Kunimitsu (14 : 00~15 : 00)

- * 13:50-14:00: interval for laptop PC connection.(3D3-31, 3D3-33, 3D3-34, 3D3-35)
- 3D3-31*** Analysis of the Prominent Surface Properties of the MCM-41 Sample by Utilizing Copper ion as a Probe Molecule (Okayama Univ.) KURODA, Yasushige; MORI, Toshinori; KITAKA, Shigeharu; IWAMOTO, Msakazu
- 3D3-33** ¹H NMR study of dynamic behavior of various guest molecules confined in micropore of Zinc-based coordination polymers (Osaka Univ. Grad.Sch.Sci.Dept.Chem.) KAWAMURA, Yoshiki; UEDA, Takahiro; MIYAKUBO, Keisuke; EGUCHI, Tarō
- 3D3-34** Control of Gate Behavior of [Cu(bpy)(H₂O)₂(BF₄)₂](bpy) due to Magnetic Fields (Shinshu Univ.) HASHIKAWA, Koichi; HAMASAKI, Atom; IYAMA, Taku; OZEKI, Sumio
- 3D3-35*** Phase Transition Behaviors of Polymer Assemblies Confined in Coordination Subnano-spaces (Kyoto Univ.) YANAI, Nobuhiro; UEMURA, Takashi; KITAGAWA, Susumu

Chair: KANO, Hirofumi (15 : 10~16 : 10)

- * 15:00-15:10: interval for laptop PC connection.(3D3-38, 3D3-39, 3D3-40, 3D3-41, 3D3-42, 3D3-43)
- 3D3-38** Effect of Pore Geometry on Freezing and Melting of Water (Okayama Univ. of Science) MATSUTANI, Yuki; YASUNAGA, Hiroaki; MORISHIGE, Kunimitsu
- 3D3-39** Dynamics of non-frozen waters formed in the mesopores of FSM-16 as studied by solid-state NMR (Osaka Univ. Grad.Sch.Sci.Dept.Chem.) NAKAMURA, Mayumi; MORI, Takanori; UEDA, Takahiro; MIYAKUBO, Keisuke; EGUCHI, Tarō
- 3D3-40** Capillary Condensation of Nitrogen in Porous Glass (Okayama Univ. of Science) MORISHIGE, Kunimitsu
- 3D3-41** Direct determination of intermolecular Structure of Adsorbed Molecules Applying Reverse Monte Carlo Analysis Based on X-ray Diffraction. (Shinshu Univ.) SEIKE, Atsuko; IYAMA, Taku; HAMASAKI, Atom; SUMIO, Ozeki
- 3D3-42** Nitrate removal from aqueous solution by adsorption onto activated carbons (Department of Applied Chemistry and Biotechnology, Faculty of Engineering, Chiba Univ.) UEDA, Takeshi; AIKAWA, Masami; MATIDA, Motoi
- 3D3-43** The determination of the structure of nano sulfuric acid solution in carbon micropore using XRD and SAXS (Shinshu Univ.) FUTAMURA, Ryusuke; IYAMA, Taku; HAMASAKI, Atom; OZEKI, Sumio

Chair: IYAMA, Taku (16 : 20~16 : 50)

- * 16:10-16:20: interval for laptop PC connection.(3D3-45, 3D3-46, 3D3-47)
- 3D3-45** Enhancement of heavy metals ions adsorption onto magnesium loaded activated carbon in aqueous solution (Department of Applied Chemistry and Biotechnology, Faculty of Engineering, Chiba Univ.) YANAGISAWA, Hiroki; AIKAWA, Masami; MACHIDA, Motoi
- 3D3-46** Dechlorination of chlorophenol on activated carbon in aqueous solution (Department of Applied Chemistry and Biotechnology, Faculty of Engineering, Chiba Univ.) IWANAGA, Masaru; AIKAWA, Masami; MACHIDA, Motoi
- 3D3-47** Adsorption and degradation of trichloroethylene using titanium dioxide-allophone composite (Shinshu Univ.) FURUKAWA, Masaru; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo

Room E1

Bldg.9 931

Physical Organic Chemistry -Structures and Properties-

Friday, March 27, AM

 π -Conjugated Compounds

Chair: KOBAYASHI, Junji (9 : 30 ~10 : 20)

- * 9:20-9:30: interval for laptop PC connection.(1E1-04, 1E1-05, 1E1-06, 1E1-07, 1E1-08)
- 1E1-04** Synthesis of Novel Heteroatom Functionalities Having Three Different Heteroatom Functionalities (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) TANIKAWA, Tomoharu; SAITO, Masaichi
- 1E1-05** Study on physical properties of bithiophene derivatives with C-C triple bonds (Tokyo National College of Technology) YAMASHINA, Masahiro; IDE, Tomohito; MINOURA, Mao; MORI, Atsunori; MACHIDA, Shigeru
- 1E1-06** Synthesis and properties of π -extended cyclic thiophene 6mer, 9mer, and 12mer (Tokyo Metropolitan Univ.) TANAKA, Keita; SUGIBAYASHI, Shun; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko
- 1E1-07** Solvent-Dependent Isomerization of Anthracene Oligomer (Grad. School of Engineering, The Univ. of Tokyo; PRESTO: Chemical Resources Laboratory, Tokyo Institute of Technology) IWASA, Junji; YOSHIZAWA, Michito; ONO, Kosuke; AKITA, Munetaka; FUJITA, Makoto
- 1E1-08** Construction and Property of New Molecular Space Surrounded by Anthracene Rings (Chemical Resources Laboratory, Tokyo Institute of Technology) MIKI, Nahomi; YOSHIZAWA, Michito; AKITA, Munetaka

Chair: YOSHIZAWA, Michito (10 : 30~11 : 20)

- * 10:20-10:30: interval for laptop PC connection.(1E1-10, 1E1-11, 1E1-12, 1E1-13, 1E1-14)
- 1E1-10[†]** Synthesis of Selenophene-Fused Triphenylene Derivatives and Their Properties (The Univ. of Tokyo) FURUKAWA, Shunsuke; KOBAYASHI, Junji; KAWASHIMA, Takayuki
- 1E1-11** Steric Control of π -Dimerization of Oligothiophene Radical Cations (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) TATENO, Masaki; NISHINAGA, Tohru; TAKASE, Masayoshi; KOMATSU, Koichi; IYODA, Masahiko
- 1E1-12** Reactions of Dibenzo[*a,h*]anthracene and its Dianion with Metal Reagents (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) HASHIMOTO, Yoko; SAITO, Masaichi
- 1E1-13** Synthesis and Optical Property of Conjugated Dendrimer Based on Azaborine Framework (The Univ. of Tokyo) KOJIMA, Tatsuo; AGOU, Tomohiro; KOBAYASHI, Junji; KAWASHIMA, Takayuki
- 1E1-14** Synthesis and Properties of Soluble π -Conjugated Molecules with the Skeleton of the Benzo[1,2-*b:4,5-b'*]dithiophene (Faculty of Engineering, Osaka Univ.) KUMAGAI, Jun; HONSHO, Yoshihito; SEKI, Shuuhei; SATOH, Tetsuya; MIURA, Masahiro

Chair: TAKASE, Masayoshi (11 : 30~12 : 20)

- * 11:20-11:30: interval for laptop PC connection.(1E1-16, 1E1-17, 1E1-18, 1E1-19, 1E1-20)
- 1E1-16** Synthesis of (Z)-1,4-Diethynylcyclohexa-2,5-diene-Containing Cyclophanes and Transformation to Their Unsaturated Forms (Graduate School of Engineering, Kyoto Univ.) MIKI, Koji; FUJITA, Michiyasu; OHE, Kouichi
- 1E1-17** Synthesis and Chiroptical Properties of Chiral Molecules Based on Tetraarylmethane Framework (Graduate School of Science, Osaka Univ. Graduate School of Integrated Arts and Sciences, Hiroshima Univ. Department of Chemistry, Univ. of Pisa) MIKI, Kaori; MATSUMOTO, Kouzou; NEHIRA, Tatsuo; PESCIATELLI, Gennaro; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi
- 1E1-18** Synthesis and Properties of Naphto-annelated *p*-Terphenylquinone Derivatives (Graduate School of Science, Osaka Univ.) SAKAI, Kanae; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi
- 1E1-19** Synthesis of Anthracene Ring-Layered Compounds Using a Xanthene Skeleton (Graduate School of Engineering, Kyoto Univ.) SAWAMURA, Toshiyuki; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 1E1-20** Substitution reaction of pentafluorophenyl group (Kyoto Univ.) HORI, Takaaki; OSUKA, Atsuhiko

Friday, March 27, PM

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

- * 13:20-13:30: interval for laptop PC connection.(1E1-28, 1E1-29, 1E1-30, 1E1-31, 1E1-32)
- 1E1-28** Synthesis, Properties and Reactivities of Nonacenequinone (I) (Graduate School of Science, Kyoto Univ.) ASO, Ryotaro; ARATANI,

- Naoki; OSUKA, Atsuhiko
1E1-29 Synthesis, Properties and Reactivities of Nonacenequinone (2) (Graduate School of Science, Kyoto Univ.) ARATANI, Naoki; ASO, Ryotaro; OSUKA, Atsuhiko
1E1-30 Formation and Properties of Pentacene Derivatives Having Dendritic Substituent at 2,9-Position (Okayama Univ.) YAMAKAWA, Akio; TAKAGUCHI, Yutaka
1E1-31 Synthesis and Characterization of 2,3,9,10-Tetradendronized Pentacene: a Novel Pentacene Dendrimer (Okayama Univ.) NAKANO, Masahiro; TAKAGUCHI, Yutaka
1E1-32* Synthesis, Structure, and Properties of Dinaphtho-1,6-tetrahydro[10]annulene and its Transannular Cyclization to Zethrene Derivatives (Osaka Univ.) UMEDA, Rui; HIBI, Daijiro; MIKI, Koji; TOBE, Yoshito

Chair: TOBE, Yoshito (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1E1-35, 1E1-38, 1E1-39, 1E1-40)
1E1-35 CSJ Award for Young Chemists Formation of New π -Conjugated Systems Based on Pyrrole Rings (Institute of Science and Engineering, Ritsumeikan Univ.) MAEDA, Hiromitsu
1E1-38 Synthesis and Properties of 2,2'-Bi(thieno[2,3-c]thiophen)-Containing π -Conjugated Compounds (Graduate School of Science, Nagoya Univ.) TANAKA, Yuki; ZHANG, Hongyu; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro
1E1-39 Synthesis of Chrysenes Derivatives by Intramolecular Photochemical Double Cyclization (Graduate School of Science, Nagoya Univ.) KARASAWA, Takashi; FUKAZAWA, Aiko; ZHANG, Hongyu; YAMAGUCHI, Shigehiro
1E1-40 Properties and syntheses of periacenes (Graduate School of Science, Osaka Univ.) KONISHI, Akihito; SHIMIZU, Akihiro; HIRAO, Yasukazu; KURATA, Hiroyuki; MATSUMOTO, Kouzou; KUBO, Takashi; NAKANO, Masamayoshi; CHAMPAGNE, Benoit

Chair: FUKAZAWA, Aiko (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1E1-42, 1E1-43, 1E1-44, 1E1-45, 1E1-46, 1E1-47)
1E1-42 Synthetic study of crowded triarylphosphine-diarylbenzoquinone oligomer (Department of Chemistry, Graduate School of Science, Tohoku Univ.) IIDA, Naoto; NAKAMURA, Kazuhiro; OGAWA, Kazunobu; SASAKI, Shigeru; MORITA, Noboru
1E1-43 Synthesis, Structure and Properties of Naphto[2,3-b:7,6-b']bisbenzo[b]thiophene (Graduate School of Science and Engineering Yamagata Univ.) YAMAMOTO, Kazuhiro; KATAGIRI, Hiroshi; OHBA, Yoshihiro
1E1-44 Synthesis, structure, and photophysical properties of silicon-bridged [3.3.n](1,3,5) cyclophanes (Institute of Materials Chemistry and Engineering, Kyushu University) CHANG, Yuan; GOTO, Kenta; SHINMYOZU, Teruo
1E1-45 Synthesis and Proton-Responding Behavior of Ethynylantraquinone Connected with Triallylamine. (Univ. of Tokyo ; Nishihara Lab.) INAYOSHI, Kiyotaka; TOSHIMITSU, Fumiyouki; KUSAMOTO, Tetsuro; KUME, Shoko; NISHIHARA, Hiroshi
1E1-46 Photoelectrochemical Sensor with Porphyrin-Deposited Electrodes for Determination of Nucleotides (Graduate School of Materials Science, Nara Institute of Science and Technology) NAKASU, Masato; IKEDA, Atsushi; OGASAWARA, Shin; NAKANISHI, Hirokazu; NAKAMURA, Masaaki; KIKUCHI, Jun-ichi
1E1-47 Synthesis and chromism of amphiphilic TTF derivatives having diamido groups (Graduate School of Science and Engineering, Tokyo Metropolitan Univ.) ISHIMOTO, Shohei; ENOZAWA, Hideo; KOBAYASHI, Yusuke; TAKASE, Masayoshi; NISHINAGA, Tooru; IYODA, Masahiko

Chair: IKEDA, Atsushi (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1E1-49, 1E1-50, 1E1-51, 1E1-52, 1E1-53, 1E1-54)
1E1-49 Synthesis and Properties of Perfluoro-naphthacene Derivative Modified by BF₂ Chelation (Nagoya Institute of Technology) YAMAGUCHI, Hiroyuki; ONO, Katsuhiko; SAITO, Katsuhiko
1E1-50[†] Synthesis and Properties of Fully Insulated Oligothiophenes Bearing Anchor Units at Both Terminal Positions. (The Institute of Scientific and Industrial Reserch, Osaka Univ.) ENDOU, Masaru; IE, Yutaka; ASO, Yoshio
1E1-51 Synthesis and Properties of Thiophene-Pyrrole-coOligomer End-capped with Phenyl and Perfluorophenyl Substituents (Tokyo Metropolitan Univ.) MIYATA, Toshihiko; NISHINAGA, Tohru; TAKASE, Masayoshi; IYODA, Masahiko
1E1-52 Molecular design of novel macrocycle with pyrogallol derivative; its inclusion phenomena of guest molecules through charge-transfer interactions (Tokushima Bunri Univ.) TOMINAGA, Masahide; MASU, Hyuma; AZUMAYA, Isao
1E1-53 Multi-input-multi-output molecular response based on the dynamic redox-behavior of chiral dihydro[5]helicene derivatives with four alkoxyphenyl groups (Hokkaido Univ.) SUZUKI, Takanori; ISHIGAKI, Yusuke; KAWAI, Hidetoshi; FUJIWARA, Kenshu
1E1-54 Asymmetric Metallophthalocyanines having a TTF segment (Faculty of Textile Science and Technology, Shinshu Univ.) KIMURA, Mutsumi;

OTSUJI, Satoshi; TAKIZAWA, Junko; TATEWAKI, Yoko; SIRAI, Hirofusa

Saturday, March 28, AM

Chair: TOHNAL, Norimitsu (9 : 00 ~ 9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(2E1-01, 2E1-02, 2E1-03, 2E1-04)
2E1-01 Synthesis of dithienopentalene derivatives using a Nickel(0) catalyst (Graduate School of Engineering, Univ. of Hyogo, Graduate School of Science, Osaka Univ.) FUJIWARA, Takeru; OGAWA, Noriko; KITAMURA, Chitoshi; KAWASE, Takeshi; KONISHI, Akihito; HIRAO, Yasukazu; KURATA, Hiroyuki; MATSUMOTO, Kouzou; KUBO, Takashi
2E1-02 Synthesis and Properties of 1,2- and 2,3-Condensed dinaphthopentalene derivatives (Graduate School of Engineering, Univ. of Hyogo, Graduate School of Science, Osaka Univ.) FUJIWARA, Takeru; KITAMURA, Chitoshi; KAWASE, Takeshi; KONISHI, Akihito; HIRAO, Yasukazu; KUBO, Takashi
2E1-03 Synthesis and Properties of Benzo-fused BODIPY Derivatives (Graduate School of Science, Nagoya university) MURAKAMI, Takanori; WAKAMIYA, Atsushi; YAMAGUCHI, Shigehiro
2E1-04 Synthesis and Properties of a BODIPY Derivative Bearing an Acridinium Moiety (The Univ. of Tokyo) KUSHIDA, Tomokatsu; KOBAYASHI, Junji; KAWASHIMA, Takayuki

Chair: IYODA, Masahiko (9 : 50 ~ 10 : 50)

- * 9:40-9:50: interval for laptop PC connection.(2E1-06, 2E1-08, 2E1-10)
2E1-06* Supramolecular assembly of octadecyldibenzol[2]annulene derivative and its gelation ability (Graduate School of Engineering, Osaka Univ.) HISAKI, Ichiro; SHIGEMITSU, Hajime; TOHNAL, Norimitsu; MIYATA, Mikiji
2E1-08* Polythiophene Network Cross-Linked by Isolated Functional Dyes (NIMS) SUGIYASU, Kazunori; TAKEUCHI, Masayuki
2E1-10* A Novel System of Metal-Organizing Triphenylenes to Trigger Macroscopic Arrangement of Metal Complexes (The Univ. of Tokyo) HIRAHARA, Eri; AIDA, Takuzo

Chair: KUBO, Takashi (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(2E1-13, 2E1-15)
2E1-13* Structure and anti-aromaticity of cyclic tetrathiophene having conjugated 8- π electron system. (Tokyo Metropolitan Univ.) OHMAE, Takeshi; NISHINAGA, Tohru; IYODA, Masahiko
2E1-15 CSJ Award for Young Chemists Creation of Functional π -Electron Systems by Exploiting the Features of Boron (RCMS, Nagoya Univ.) WAKAMIYA, Atsushi

Saturday, March 28, PM

Chair: OHE, Kouichi (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(2E1-25, 2E1-27, 2E1-29)
2E1-25* Electronic Effects of the Silicon Atom on Absorption and Emission Spectra of 9-Silafluorene (Graduate School of Engineering, Gunma Univ.) MATSUURA, Takaya; KYUSHIN, Soichiro
2E1-27*[†] Development of Novel Fluorescent and chemiluminescent Solvatochromic Dyes (Univ. of Hokkaido) YAMAGISHI, Yutaka; YUASA, Maiko; YAMADA, Koji
2E1-28* A Mechanochromic Elastomer: Mechanical Control of Efficiency in Fluorescence Resonance Energy Transfer (FRET) (National Institute for Materials Science (NIMS)) OGI, Soichiro; SUGIYASU, Kazunori; TAKEUCHI, Masayuki

Chair: NAKAMURA, Yosuke (14 : 10~15 : 20)

- * 14:00-14:10: interval for laptop PC connection.(2E1-32, 2E1-33, 2E1-34, 2E1-35, 2E1-37, 2E1-38)
2E1-32 Solid-state luminescent properties of spiroindolenone derivatives (Graduate School of Engineering, Kyoto Univ.) KOWADA, Toshiyuki; OHE, Kouichi
2E1-33 Synthesis and Properties of BODIPY Derivatives with Spirofluorene Moieties (Graduate School of Engineering, Kyoto Univ.) YAMAGUCHI, Shuhei; KOWADA, Toshiyuki; OHE, Kouichi
2E1-34 Self-Assembly and Optical Properties of BODIPY Dyes with Hydrophilic Chains (Graduate School of Engineering, Kyoto Univ.) TOKORO, Yuichiro; NAGAI, Atsushi; CHUJO, Yoshiki
2E1-35* Photoresponse upon volatile organic solvents to oligo-phenylene phenols (National Institute of Material Science) OKAMOTO, Ken; HILL, Jonathan; ARIGA, Katsuhiko
2E1-37 Synthesis and Properties of 3,3'-Dipyrrylbinaphthol (Department of Chemistry, Graduate School of Science, Kobe Univ.) OMAE, Shintaro; SETSUNE, Jun-ichiro
2E1-38 Solvatochromic Effect on N,N'-dimethylaminopyrene derivatives (Department of Engineering, Kochi Univ. of Technology) SUMI, Katsuhiko; MAEDA, Mika; ARAHIRA, Nana; KITAMURA, Mika; FURUE, Masaoki

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

- * 15:20-15:30: interval for laptop PC connection.(2E1-40, 2E1-41, 2E1-42, 2E1-43, 2E1-44, 2E1-45)
- 2E1-40** Synthesis, Structures, and Emission of Tris(trimethylsilyl)silyl-substituted Thiophenes (Graduate School of Engineering, Gunma Univ.) SAITO, Tatsuya; ISHIDA, Shintaro; KYUSHIN, Soichiro
- 2E1-41** Synthesis and Application of Pyridylquinolines Bearing Arylethynyl Groups (The Univ. of Tokyo) MIYASAKA, Shinji; KOBAYASHI, Junji; KAWASHIMA, Takayuki
- 2E1-42** Optical properties and substituent effect of oligo(thienylethynyl) benzenes (Tokyo Metropolitan Univ.) NARITA, Tomoyuki; TAKASE, Masayoshi; OHMAE, Takeshi; NISHINAGA, Tohru; IYODA, Masahiko
- 2E1-43** Structures and Photophysical Properties of Bis(donor-substituted phenyl)bis(acceptor-substituted phenyl)ethenes (Grad.Sch.Eng., Kyoto Univ.) SHIMIZU, Masaki; TATSUMI, Hironori; MOCHIDA, Kenji; HIYAMA, Tamejiro
- 2E1-44** Structures and Photophysical Properties of Silicon-bridged 2-Phenylindoles (Grad.Sch.Eng., Kyoto Univ.) SHIMIZU, Masaki; MOCHIDA, Kenji; KATO, Masaki; HIYAMA, Tamejiro
- 2E1-45** Photophysical Properties of Bis(alkenyl)dipiperidinobenzenes in the Solid State (Grad. Sch. Eng., Kyoto Univ.) TAKEDA, Youhei; SHIMIZU, Masaki; HIYAMA, Tamejiro

Chair: ISHIDA, Shintaro (16:40~17:40)

- * 16:30-16:40: interval for laptop PC connection.(2E1-47, 2E1-48, 2E1-49, 2E1-50, 2E1-51, 2E1-52)
- 2E1-47** Photophysical Properties of Diaminoterephthalic Acid Derivatives: Crystallization-induced Highly Efficient Fluorescence (Grad. Sch. Eng., Kyoto Univ.) SHIMIZU, Masaki; TAKEDA, Youhei; ASAI, Yuiga; HIYAMA, Tamejiro
- 2E1-48** Mechanofluorochromic Properties of a Series of Benzofuro[2,3-c]oxazolo[4,5-a]carbazole-type Fluorescent Dyes by Controlling Intermolecular Pi-Pi Interactions (Hiroshima Univ.) ITOU, Genta; OYOYAMA, Yousuke; FUKUOKA, Hiroshi; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka
- 2E1-49** Construction of Porous Crystals Hierarchical Accumulated with Supramolecular Clusters of Triphenylmethylammonium Anthracenesulfonate-sand their Luminescent Properties. (Graduate School of Engineering, Osaka Univ.) YAMAMOTO, Atsushi; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 2E1-50** Photophysical Properties of Silyl-substituted 9,10-Diphenylanthracene Derivatives in the Solid State (Graduate School of Science, Nagoya Univ.) IIDA, Azusa; YAMAGUCHI, Shigehiro
- 2E1-51** Synthesis and properties of extended π -conjugated compounds containing bis-phosphoryl-bridged stilbene (Graduate School of Science, Nagoya Univ.) FUKAZAWA, Aiko; KOSAKA, Youhei; HARA, Masanao; HUANG, Hsin-hau; YAMAGUCHI, Shigehiro
- 2E1-52** One-Photon and Two-Photon Absorption Properties of Phosphonium, Borate-Bridged Distyrylbenzenes (Graduate School of Science, Nagoya Univ.; Mitsubishi Chemical Group Science and Technology Research Center, Inc.) YAMADA, Hiroshi; FUKAZAWA, Aiko; SASAKI, Yutaka; AKIYAMA, Seiji; YAMAGUCHI, Shigehiro

Sunday, March 29, AM

Chair: TSUJI, Hayato (9:00~10:20)

- * 8:50-9:00: interval for laptop PC connection.(3E1-01, 3E1-02, 3E1-03, 3E1-04, 3E1-05, 3E1-06, 3E1-07, 3E1-08)
- 3E1-01** The Origin of Metallic Luster in 1-Aryl-2-(2-thienyl)-5-[5-(tricyanoethenyl)-2-thienyl]pyrrole Crystals: The Excitation State and side-by-side Interaction of the π -Molecules (Chemical Analysis Center, Chiba Univ.) OGU, Kenichi; OGURA, Katsuyuki
- 3E1-02** Synthesis and Properties of Oligomers with 1,3-Diketone Boron Complexes (Nagoya Institute of Technology, Tokyo Institute of Technology) NAKASHIMA, Akihiro; ONO, Katsuhiko; SAITO, Katsuhiko; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 3E1-03** Synthesis of near-infrared absorbing boron-dipyrromethene complexes (Tokyo Metropolitan Univ., Mitsubishi Chemical Group Science and Technology Research Center) MINOWA, Yu; TAKESHITA, Kimiya; SHODA, Takayuki; KUBO, Yuji
- 3E1-04** Synthesis and Properties of Substituted Aza[7]helicenes (The Univ. of Tokyo) NAKANO, Koji; NISHIMURA, Yoshio; NOZAKI, Kyoko
- 3E1-05** Synthesis and Properties of N-Aryl Sensitizers with tert-Butyl Groups. (Nagoya Institute of Technology) YAMAGUCHI, Tomoya; ONO, Katsuhiko; SAITO, Katsuhiko
- 3E1-06** Synthesis and Optical Properties of Iridium Complexes with Dipyrin Ligands (Nagoya Institute of Technology, Institute for Molecular Science) TAJIKA, Mitsuhiko; ONO, Katsuhiko; TOMURA, Masaaki; SAITO, Katsuhiko
- 3E1-07** π -Conjugation in Dithieno-fused 1H,2H-1,2-Diborin Dianions (Department of Chemistry, Graduate School of Science, Nagoya Univ.) ARAKI, Takafumi; MORI, Kenji; WAKAMIYA, Atsushi; YAMAGUCHI, Shigehiro
- 3E1-08** Fluorescence Properties of Laterally Boryl-Substituted Nonplanar Oligoarenes (Graduate School of Science, Nagoya Univ.; Institute for

Advanced Research, Nagoya Univ.) NAGURA, Kazuhiko; ZHAO, Cuihua; WAKAMIYA, Atsushi; IRLE, Stephan; YAMAGUCHI, Shigehiro

Chair: YAMASHITA, Yoshiro (10:30~11:40)

- * 10:20-10:30: interval for laptop PC connection.(3E1-10, 3E1-12, 3E1-13, 3E1-15)
- 3E1-10** Full-color organic electroluminescence using an ambipolar benzodifuran derivative as a host material (Department of Chemistry, School of Science, The Univ. of Tokyo; ERATO, JST) MITSUI, Chikahiko; TSUJI, Hayato; SATO, Yoshiharu; NAKAMURA, Eiichi
- 3E1-12** Synthesis and properties of benzodipyrrole derivatives and their application to hole-injection material (Department of Chemistry, School of Science, The Univ. of Tokyo; ERATO, JST) YOKOI, Yuki; MITSUI, Chikahiko; ILIES, Laurean; TSUJI, Hayato; SATO, Yoshiharu; NAKAMURA, Eiichi
- 3E1-13** *peri*-Xanthenoxanthene Thin-Film Transistors (Advanced Materials Laboratories, Sony Corporation) KOBAYASHI, Norihito; SASAKI, Mari; KAWASHIMA, Noriyuki; NOMOTO, Kazumasa
- 3E1-15** Bulk and FET mobility in oligothiophene derivatives of liquid crystalline organic-semiconductor (Tokyo Inst. of Tech. & JST-CREST) IINO, Hiroaki; NAKANO, Kyohei; MAEDA, Hiroki; HANNA, Jun-ichi

Sunday, March 29, PM

Chair: TAKIMIYA, Kazuo (14:30~15:40)

- * 14:20-14:30: interval for laptop PC connection.(3E1-34, 3E1-37, 3E1-38, 3E1-39, 3E1-40)
- 3E1-34** Young Scholar Lectures of CSJ Development of Novel Electron-transporting Units Containing Perfluoroalkyl-bridging and Their Application to Organic Field-effect Transistors (ISIR, Osaka Univ.) IE, Yutaka
- 3E1-37** Development of Electronegative Oligomers Having Cyclopentene-annulated Thiophenes as Solution-processible n-type OFET Materials (The Institute of Scientific and Industrial Research, Osaka Univ.) OKABE, Makoto; IE, Yutaka; ASO, Yoshio
- 3E1-38** Synthesis, Properties, and FET Characteristics of Cyclic Dimmer of Benzo-Capped Oligothiophene Connected with Butadiyne Units (The Institute of Scientific and Industrial Research, Osaka Univ.) HIROSE, Tomoya; IE, Yutaka; ASO, Yoshio
- 3E1-39** Development of Novel Organic FET Materials by Using a Benzo (bisthiadiazole) unit (Tokyo Institute of Technology; NHK Science and Technical Research Laboratories.) KONO, Takahiro; KUMAKI, Daisuke; NISHIDA, Jun-ichi; TOKITO, Shizuo; YAMAHITA, Kazuo
- 3E1-40** Synthesis and physical properties of pentacene-5,12-dione derivatives showing low LUMO level (Interdisciplinary School of Science and Engineering, Tokyo Institute of Technology) FUJIWARA, Yujiro; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro

Chair: NISHIDA, Jun-Ichi (15:50~16:50)

- * 15:40-15:50: interval for laptop PC connection.(3E1-42, 3E1-43, 3E1-44, 3E1-45, 3E1-46, 3E1-47)
- 3E1-42** Synthesis, properties, and structure of novel thieno quinoidal derivatives with alkoxy-carbonyl-cyanomethylene groups (Hiroshima Univ.) SUZUKI, Yuki; MIYAZAKI, Eigo; TAKIMIYA, Kazuo
- 3E1-43** Synthesis and Thin-Film FET characteristics of 2,9- and 3,10-Dimethylindinaphtho[2,3-b:2,3-f']thieno[3,2-b]thiophenes (Hiroshima Univ.) KANG, Myeongjin; MIYAZAKI, Eigo; TAKIMIYA, Kazuo
- 3E1-44** Synthesis and FET characteristics of highly extended fused-poly aromatics compounds with thienothiophene moiety (Graduate school of Engineering, Hiroshima Univ.) NISHIMURA, Takeshi; FURUTANI, Hirotaka; MIYAZAKI, Eigo; TAKIMIYA, Kazuo
- 3E1-45** Synthesis and OFET Properties of 2,8-Bis(5'-alkylthiophen-2'-yl) tetracenes (Shizuoka Univ.; JST PRESTO; Mitsubishi Chemical Group STR Center) KIMOTO, Takakazu; SAKAI, Yoshimasa; OHNO, Akira; KOBAYASHI, Kenji
- 3E1-46** Synthesis and OFET Properties of Extended π -Conjugated Tetracene-Dimer (Shizuoka Univ.; JST PRESTO; Mitsubishi Chemical Group STR Center) TANAKA, Kenro; KIMOTO, Takakazu; SAKAI, Yoshimasa; OHNO, Akira; KOBAYASHI, Kenji
- 3E1-47** Application of benzophosphole derivatives as organic semiconductors (The Univ. of Tokyo; ERATO, JST) SATO, Kosuke; TSUJI, Hayato; SATO, Yoshiharu; NAKAMURA, Eiichi

Chair: MIYAZAKI, Eigo (17:00~18:00)

- * 16:50-17:00: interval for laptop PC connection.(3E1-49, 3E1-51, 3E1-52, 3E1-53, 3E1-54)
- 3E1-49** Carrier Transport Properties in *p*-Terphenyl Derivatives of Liquid Crystalline Organic-Semiconductor (Tokyo Inst. of Tech. & JST-CREST) TAKAYASHIKI, Yukiko; IINO, Hiroaki; HANNA, Jun-ichi
- 3E1-51** Synthesis and properties of dibenzo[d,d']benzo[1,2-b:4,5-b']difuran derivatives (Univ. of Tokyo) NAKANO, Koji; CHAYAMA, Natsuko; NOZAKI, Kyoko

- 3E1-52** The properties of n-type FET which are introduced electron-accepting groups into phenylenevinylene compounds (Tokyo Institute of Technology) SHOJI, Kohei; NISHIDA, Jun-ichi; KUMAKI, Daisuke; YAMASHITA, Yoshiro
- 3E1-53** Physical and FET properties of TTF vinyllogues having thienyl spacers. (Tokyo Institute of Technology) OMATA, Keiko; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 3E1-54** Development of Novel Organic Semiconductors Based on Tetraphenylpyranylidene and Its Derivatives (Tokyo Institute of Technology) ALTAN, Bolag; MAMADA, Masashi; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro

Monday, March 30, AM

Organic Transistors

Chair: KOBAYASHI, Kenji (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4E1-01, 4E1-02, 4E1-03, 4E1-04, 4E1-05, 4E1-06)
- 4E1-01** Physical properties of conjugated compounds with trifluoromethyl-sulfonyl and sulfoxide groups (Tokyo Institute of Technology) NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 4E1-02** Synthesis and FET characteristics of 3,3'-bithiophthalide derivatives (Tokyo Institute of Technology) NISHIWAKI, Atsushi; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 4E1-03** Development of n-type organic semiconductors using quinone derivatives (Tokyo Institute of Technology) MAMADA, Masashi; NISHIDA, Jun-ichi; TOKITO, Shizuo; YAMASHITA, Yoshiro
- 4E1-04** One-pot synthesis of benzo[h]chalcogenophene from *o*-halo-substituted ethynylbenzenes: New synthetic method for mono-, di-, tri-chalcogenophene-annulated benzenes (Hiroshima Univ.) KASHIKI, Tomoya; SHINAMURA, Shoji; KOHARA, Masahiro; MIYAZAKI, Eigo; TAKIMIYA, Kazuo
- 4E1-05** Synthesis and characterization of benzotrithiophenes having triarylamine substituents (Hiroshima Univ.) SHINMURA, Yusuke; MORI, Hiroki; MIYAZAKI, Eigo; TAKIMIYA, Kazuo
- 4E1-06** Synthesis and FET characteristics of new naphthodithiophene derivatives (Graduate School of Engineering, Hiroshima Univ.) SHINAMURA, Shoji; MIYAZAKI, Eigo; TAKIMIYA, Kazuo

Molecular Conductor

Chair: TAKAHASHI, Kazuyuki (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4E1-08, 4E1-09, 4E1-10, 4E1-11, 4E1-12, 4E1-13)
- 4E1-08** Formation and Properties of Nanostructures of Amphiphilic Metal Complexes Bearing TTF ligand (Tokyo Metropolitan Univ.) ISOMURA, Eigo; ENOZAWA, Hideo; NISHINAGA, Tohru; IYODA, Masahiko
- 4E1-09** Syntheses and properties of novel cross-conjugated donors exhibiting multi-stage redox process (Graduate School of Science and Engineering, Ehime Univ.) NISHIWAKI, Masataka; YAMANE, Keisuke; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yohji
- 4E1-10** Synthesis and properties of extended tetrathiafulvalene-type dendralenes with dithienylmethylene spacer with acceptor unit. (Graduate school of science and Engineering, Ehime Univ.) HORIUCHI, Hiroaki; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yohji
- 4E1-11** Synthesis and Property of Brominated Diselenadithiafulvalene-based Spin-polarized Donor (The Univ. of Tokyo) MOGI, Ryoji; KOMATSU, Hideji; MATSUSHITA, Michio M.; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 4E1-12[†]** Negative Magnetoresistance of Neutral crystal of Dibromo-TTF-based Spin-polarized Donor (The Univ. of Tokyo; Nagoya Univ.) KOMATSU, Hideji; MATSUSHITA, Michio M.; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 4E1-13** Synthesis and property of polycyclic aromatic hydrocarbon radicals aimed to develop molecular metal (Graduate School of Science, Osaka Univ.) KATADA, Yoshiki; SHIMIZU, Akihiro; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi

Molecular Magnetism

Chair: OKADA, Keiji (11 : 20 ~ 12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(4E1-15, 4E1-17, 4E1-18, 4E1-19)
- 4E1-15*** Experimental Elucidation of the Strong Intermolecular Interaction of Delocalized Singlet Biradical (Graduate School of Science, Osaka Univ.; IMS) SHIMIZU, Akihiro; URUICHI, Mikio; YAKUSHI, Kyuya; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 4E1-17** Synthesis and properties of cumulene-bridged bisphenalenyl biradical (Graduate School of Science, Osaka Univ.) DAIFUKU, Yoko; SHIMIZU, Akihiro; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 4E1-18** Synthesis and Characterization of trimethylenemethane derivative Based on Pyridinyl Radical (Department of Chemistry, Graduate School of Science, Osaka Univ. Department of Chemistry, Graduate School of

Science, Osaka City Univ.) INOKUCHI, Daisuke; MATSUMOTO, Kouzou; HIRAO, Yasukazu; KURATA, Hiroyuki; SATO, Kazunobu; TAKUI, Takeji; KUBO, Takashi

- 4E1-19** 1,6-Dithiaperyrene-substituted 6-Oxophenalenoxyl Stable Neutral Radicals: Experimental Elucidation and Theoretical Consideration of Intramolecular Electron Transfer (Osaka Univ.) YAMANAKA, Azusa; MORITA, Yasushi; NISHIDA, Shinsuke; SATO, Kazunobu; TAKUI, Takeji; NAKASUJI, Kazuhiro

Monday, March 30, PM

Chair: KARASAWA, Satoru (13 : 20 ~ 14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(4E1-27, 4E1-28, 4E1-29, 4E1-30, 4E1-31, 4E1-32)
- 4E1-27** Synthesis and Redox Ability of Trioxotriangulene Derivative Possessing Electron-accepting Groups (Osaka Univ.; Osaka City Univ.; Fukui Univ. of Technology) YOKOYAMA, Masayuki; MORITA, Yasushi; UEDA, Akira; NISHIDA, Shinsuke; SATO, Kazunobu; TAKUI, Takeji; NAKASUJI, Kazuhiro
- 4E1-28** Crystal Structure and Magnetic Properties of a Trioxotriangulene Derivative Possessing Three Methoxy Groups (Osaka Univ.; Osaka City Univ.; Fukui Univ. of Technology) YAMAMOTO, Yosuke; MORITA, Yasushi; UEDA, Akira; NISHIDA, Shinsuke; ISE, Tomoaki; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; NAKASUJI, Kazuhiro
- 4E1-29** Synthesis and Properties of Stable Organic Open-shell Molecule with Helicenic Giant π -Electronic System (Osaka Univ.; Osaka City Univ.; Fukui Univ. of Technology) UEDA, Akira; MORITA, Yasushi; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; NISHIDA, Shinsuke; ISE, Tomoaki; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; NAKASUJI, Kazuhiro
- 4E1-30** Synthesis and Magnetic Properties of 1,5-Diphenyloxoverdazyl Derivatives (Faculty of Science and Technology, Keio Univ.) UENO, Atsushi; YOSHIOKA, Naoki
- 4E1-31** Synthesis and Magnetic Properties of 6-Iodo Indole Nitronyl Nitroxide (Faculty of Science and Technology, Keio Univ.) MURAOKA, Takashi; YOSHIOKA, Naoki
- 4E1-32** Study on heteroaryl bisnitroxide radicals and their chelate complexes (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) TERAKADO, Yutarou; KOIDE, Kazuya; ISHIDA, Takayuki; NOGAMI, Takashi

Chair: ISHIDA, Takayuki (14 : 30 ~ 15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(4E1-34, 4E1-35, 4E1-36, 4E1-37, 4E1-38, 4E1-39)
- 4E1-34** Studies on Molecule-based Magnets Composed of Radical-Substituted Radical Cations (Departments of Chemistry and Materials Science, Graduate School of Science, Osaka City Univ.; Research Center for Molecular Thermodynamics, Graduate School of Science, Osaka Univ.) KURATSU, Masato; SUZUKI, Shuichi; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; MIYAZAKI, Yuji; INABA, Akira; OKADA, Keiji
- 4E1-35** Structures and Magnetic Properties of Trioxotriphenylamine Radical Cation with Calcogen Atoms Tetrabromoferrates (Departments of Chemistry and Materials Science, Graduate School of Science, Osaka City Univ.; Research Center for Molecular Thermodynamics, Graduate School of Science, Osaka Univ.) EZAKI, Toshiaki; KURATSU, Masato; SUZUKI, Shuichi; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; MIYAZAKI, Yuji; INABA, Akira; OKADA, Keiji
- 4E1-36** Substituent Effect on Structures and Magnetic Properties of Photoresponsive Cyclic Cobalt Dinuclear Complexes in Heterospin System (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) YOSHIIHARA, Daisuke; KARASAWA, Satoru; KOGA, Noboru
- 4E1-37** Magnetic properties of bis(4-pyridyl)aminooxyl and its metal complexes (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) WATANABE, Takeaki; KANEGAWA, Shinji; KARASAWA, Satoru; KOGA, Noboru
- 4E1-38** Preparation of photoresponsive 1D complexes having long alkyl group and their magnetic properties after irradiation (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) EGUCHI, Rumi; KARASAWA, Satoru; KOGA, Noboru
- 4E1-39** Crystal Structure and Magnetic Properties of One-dimensional Hetero-spin Cobalt Complexes (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) KARASAWA, Satoru; KOGA, Noboru
- Chair: MORITA, Yasushi (15 : 40 ~ 16 : 30)
- * 15:30-15:40: interval for laptop PC connection.(4E1-41, 4E1-42, 4E1-43, 4E1-44, 4E1-45)
- 4E1-41** Preparation and Properties of Perylene Diimide Derivatives with TEMPO Substituent (Univ. of Hyogo) AOKI, Kazunori; AKUTSU, Hiroki; YAMADA, Junichi; NAKATSUJI, Shinichi
- 4E1-42** Synthesis and magnetic properties of biradicals aimed at ferrimagnets (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) HIROSE, Satoshi; NOGAMI, Takashi; ISHIDA, Takayuki
- 4E1-43** Polyether-bridged Nitroxide Biradicals and Their Host-guest Com-

pounds (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) OSADA, Sayaka; NOGAMI, Takashi; ISHIDA, Takayuki

4E1-44[†] Structures and Magnetic Properties of Self-assembling water-soluble Radicals (Kyushu Univ.) HAYASHI, Hiroyuki; KARASAWA, Satoru; KOGA, Noboru

4E1-45 Charge-discharge behavior of secondary organic radical battery using nitronyl nitroxides as positive electrode material (Kobe City College of Tech) OHFUJI, Haruki; TANAKA, Sayuri; KOIZUMI, Takuya; MIURA, Yozo; SHIGEMATSU, Satoshi; AKUTAGAWA, Nao; SATO, Masaharu; WATANABE, Kohichi

Room E2

Bldg.9 932

Physical Organic Chemistry -Structures and Properties-

Friday, March 27, AM

Rotaxanes

Chair: HAINO, Takeharu (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(1E2-07, 1E2-08, 1E2-09, 1E2-10, 1E2-11, 1E2-12)

1E2-07 Synthesis of rotaxane exploiting reversible cleavage of aromatic disulfide linkage (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) YOSHII, Takahiro; KOYAMA, Yasuhito; TAKATA, Toshikazu

1E2-08 Synthesis of Pseudorotaxanes Based on a Cryptand as a Wheel (Osaka Institute of Technology) MURAOKA, Masahiro; TAKEZAWA, Mashio; NAKATSUJI, Yoichi

1E2-09 Synthesis and Photophysical Properties of Rotaxane-based Fluorescent Molecules with High Stability toward Photobleaching. (Faculty of Pharmaceutical Sciences, Univ. of Toyama) YONENAGA, Yuki; FUJIMOTO, Kazuhisa; INOUE, Masahiko

1E2-10 Synthesis of [2]rotaxanes and effects of wheel's size (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) ISHINO, Tomonori; NAKAZONO, Kazuko; KOYAMA, Yasuhito; TAKATA, Toshikazu

1E2-11 Synthesis and Structure of Crown Ether/tert-Amine and Ammonium Salt-type Rotaxanes (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) SUZUKI, Sakiko; NAKAZONO, Kazuko; TAKATA, Toshikazu

1E2-12 Synthesis of Rotaxane Having Anti-cancer Activity (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) TAKATA, Toshikazu; KOYAMA, Yasuhito; NAKAZONO, Kazuko; ONO, Nobufumi; NISHIO, Kazuto; FUJITA, Yoshihiko

Chair: INOUE, Masahiko (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(1E2-14, 1E2-15, 1E2-16, 1E2-17, 1E2-18, 1E2-19)

1E2-14 Synthesis and Selective Intramolecular Reaction of Palladium-containing Rotaxane (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) MIYAGAWA, Norihito; KOYAMA, Yasuhito; TAKATA, Toshikazu

1E2-15 Unique redox property of anilines in the cavity of pai-conjugated crown ethers (Department of Materials Science and Engineering, Faculty of Engineering, Univ. of Fukui.) IWAMOTO, Takuya; TOKUNAGA, Yuji; SHOJI, Eiichi

1E2-16 Synthetic study of [5]catenane via ring-closing metathesis of pseudorotaxane composed of crown ether and secondary-ammonium salt (Hiroshima Univ.) TAFUKU, Shinzi; IWAMOTO, Hajime; HAINO, Takeharu

1E2-17 End-capping for the synthesis of rotaxane exploiting new click reaction using stable nitrile N-oxide (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) MATSUMURA, Tohru; KOYAMA, Yasuhito; TAKATA, Toshikazu

1E2-18 Structural Conversion of Rotaxane Having Boronic Acids And Boronic Acid Esters at The End of Axle (Tokyo institute of technology; Department of Organic and Polymeric Materials.) SUZUKI, Yudai; KOYAMA, Yasuhito; TAKATA, Toshikazu

1E2-19 Synthesis and Properties of Rotaxane having Reactive End-cap group (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) NAKAZONO, Kazuko; TAKATA, Toshikazu

Friday, March 27, PM

Calixarens

Chair: IWAMOTO, Hajime (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(1E2-27, 1E2-28, 1E2-29,

1E2-30, 1E2-31, 1E2-32)

1E2-27 Study of extraction ability of rare metals based on diethylphosphate thiacalix[6]arene (Akita Univ.) HASHITANI, Yusuke; YAMADA, Manabu; KONDO, Yoshihiko; SHIBAYAMA, Atsushi; HAMADA, Fumio

1E2-28 Synthesis and Structure of Oxacalix[4]arenes Bearing Bulky Alkyl Substituents at Their Extra-annular Positions. (Graduate School of Engineering, Tottori Univ.) AKAGI, Shuichiro; KOBAYASHI, Kazuhiro; KONISHI, Hisatoshi

1E2-29 Synthesis and Conformational Properties of Nitrogen atom-bridged Calix[4]arenes (Graduate School of Engineering, Tottori Univ.) SAKAKIBARA, Terunobu; KOBAYASHI, Kazuhiro; KONISHI, Hisatoshi

1E2-30 Synthesis of diaminothiacalix[4]arene via Ullmann-type reaction (Graduate School of Environmental Studies, Tohoku Univ.) NAKAMURA, Yuka; TANAKA, Shinya; MOROHASHI, Naoya; HATTORI, Tetsutaro

1E2-31 Inclusion properties of aminothiacalix[4]arenes toward carboxylic acids (Graduate School of Environmental Studies, Tohoku Univ.) NAKAYAMA, Hiroko; NOJI, Shintaro; TANAKA, Shinya; MOROHASHI, Naoya; HATTORI, Tetsutaro

1E2-32 Structural analysis of oligo(benzoic acid)s and their metal complexes (Graduate School of Environmental Studies, Tohoku Univ.) NAGATA, Kazutoshi; MOROHASHI, Naoya; HATTORI, Tetsutaro

Molecular Machines and Capsules

Chair: KUBO, Yuji (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1E2-34, 1E2-35, 1E2-36, 1E2-38, 1E2-39)

1E2-34 Self-Assembled Capsule Composed of Functionalized Cavitands and Hydrogen-Bonding Linkers (Shizuoka Univ. ; JST PRESTO) TOGARI, Yuka; KITAGAWA, Hitomi; KOBAYASHI, Kenji

1E2-35 Hydrogen-Bonded Hetero-Capsule with Guest Encapsulation Directed toward a Supramolecular Gyroscope (Shizuoka Univ.; Bulker ax; JST PRESTO) KITAGAWA, Hitomi; KOBORI, Yasuhiro; YOZA, Kenji; YAMANAKA, Masamichi; KOBAYASHI, Kenji

1E2-36*† Guest-Encapsulation Behavior of Cavitand-Based Capsule via Dynamic Boronic Ester Formation (Shizuoka Univ.; Bruker ax; JST PRESTO) NISHIMURA, Naoki; YOZA, Kenji; KOBAYASHI, Kenji

1E2-38 Pairwise Encapsulation of Aromatic Guest Molecules within a Water-Soluble, Box-Shaped Hexameric Capsule (The Univ. of Tokyo) NAKAMURA, Takashi; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiko

1E2-39 Synthesis of Supramolecular Complexes through Salt Bridge Formation between Novel Amidine and Carboxylic Acid (Graduate School of Engineering, Nagoya Univ.) SHIMOYAMA, Munenori; IIDA, Hiroki; FURUSHO, Yoshio; YASHIMA, Eiji

Chair: HIRAOKA, Shuichi (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1E2-41, 1E2-42, 1E2-43, 1E2-44, 1E2-45, 1E2-46)

1E2-41 Formation of Supramolecular Assemblies Based on Trisdipyrins (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST; Graduate School of Science and Technology, Chiba Univ.; Graduate School of Engineering, Chiba Univ.) MAEDA, Hiromitsu; DOI, Kota; TSUKAMOTO, Kenichi; HASEGAWA, Masahiro; SEKI, Tomohiro; YAGAI, Shiki

1E2-42 Development of a new fluoride ion detection system using an isothiuronium-pendant polythiophene in aqueous solution (Tokyo Metropolitan Univ.) MINAMI, Tsuyoshi; NARITA, Masanori; KUBO, Yuji

1E2-43 Dynamic behavior of amine-driven and boron-contained molecular capsules (Tokyo Metropolitan Univ.) KATAOKA, Kenichi; OKUYAMA, Sachiko; KUBO, Yuji

1E2-44 Synthesis and Self-Assembly of Water-Soluble Tetrahalo-Cavitands with Oligoether-Dendron Side Chains (Shizuoka Univ. ; JST PRESTO ; Kyushu Univ.) ISHIGAMI, Asumi; YAMADA, Naoki; HAYASHI, Hirokata; MATUURA, Kazunori; KIMIDUKA, Nobuo; KOBAYASHI, Kenji

1E2-45 Synthesis and Self-Assembly of Water-Soluble Tetrahalo-Cavitands with Sugar-Dendron Side Chains (Shizuoka Univ.; Kyushu Univ.; JST PRESTO) YAMADA, Naoki; HAYASHI, Hirokata; MATUURA, Kazunori; KIMIDUKA, Nobuo; KOBAYASHI, Kenji

1E2-46 Synthesis and Self-Assembly of Water-Soluble Cavitands with Pyridyl Ligands (Shizuoka Univ.; JST PRESTO) KIKUTA, Emi; YAMADA, Naoki; KOBAYASHI, Kenji

Chair: FURUSHO, Yoshio (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(1E2-48, 1E2-49, 1E2-50, 1E2-51, 1E2-52, 1E2-53)

1E2-48 Formation of the hydrogen bonding supramolecular capsule with tripodal molecule. (Shizuoka Univ.) MINODANI, Shoichi; TAKAMURA, Tadashi; YAMANAKA, Masamichi

1E2-49 Dynamic guest encapsulation by supramolecular capsule via hybrid noncovalent bonds. (Shizuoka Univ.) TOYODA, Naoaki; KOBAYASHI, Kenji; YAMANAKA, Masamichi

1E2-50 Synthesis and Properties of Cavitand-Dimer Bearing Photoresponsive Unit (Shizuoka Univ.; JST PRESTO) FUKADA, Takumi; KOBAYASHI, Kenji

- 1E2-51** Interior functionalization of metallo-capsules by site-selective ligand exchange (1) Bridging the two diagonal Hg(II) ion centers of a Hg(II) capsule by rod-shaped bis-sulfonate ligands (The Univ. of Tokyo; PRESTO, JST) KIYOKAWA, Madoka; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiro
- 1E2-52** Interior functionalization of metallo-capsules by site-selective ligand exchange (2) Different behaviors of Zn(II), Cd(II), and Hg(II) capsules in ligand exchange (The Univ. of Tokyo; PRESTO, JST) KIYOKAWA, Madoka; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiro
- 1E2-53** Highly-Efficient Synthesis of an Organic Nanocapsule with Twenty-four Pyridyl Groups and its Chemical Property (The Univ. of Tokyo; PRESTO, JST) ARAKANE, Ryo; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiro

Saturday, March 28, AM

Supramolecular Complex

Chair: TASHIRO, Shouhei (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2E2-01, 2E2-02, 2E2-04, 2E2-05, 2E2-06)
- 2E2-01** Construction of aromatic nanophase within $M_{12}L_{24}$ spherical complex (School of Engineering, The Univ. of Tokyo; CREST) TAKAO, Kiyotaka; SUZUKI, Kosuke; SATO, Sota; FUJITA, Makoto
- 2E2-02*** Discrete Stacking of Metal Complexes within Organic-Pillared Coordination Cages (Grad. School of Engineering, The Univ. of Tokyo; PRESTO; Chemical Resources Laboratory, Tokyo Institute of Technology; Faculty of Science, Josai Univ.; Department of Chemistry, School of Science, The Univ. of Tokyo) ONO, Kosuke; YOSHIZAWA, Michito; AKITA, Munetaka; KATO, Tatsuhisa; TSUNOBUCHI, Yoshihide; OHKOSHI, Shin-ichi; FUJITA, Makoto
- 2E2-04** Charge-Transfer-Driven Discrete Accumulation of Aromatic Molecules within Self-Assembled Cages (Grad. School of Engineering, The Univ. of Tokyo; CREST) OTSUKA, Kosuke; MURASE, Takashi; FUJITA, Makoto
- 2E2-05** Syntheses and Properties of Novel Metal Complexes Based on Imidazole Trimer (Graduate School of Science, Osaka Univ.) MATSUI, Yumiko; MORITA, Yasushi; YAKIYAMA, Yumi; MURATA, Tsuyoshi; NAKASUJI, Kazuhiro
- 2E2-06** Imidazole Hexamer-based Multinuclear Triple-stranded Helical Metal Complex (Graduate School of Science, Osaka Univ.) YAKIYAMA, Yumi; MORITA, Yasushi; MATSUI, Yumiko; MURATA, Tsuyoshi; HASHIZUME, Daisuke; NAKASUJI, Kazuhiro

Chair: MORITA, Yasushi (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2E2-08, 2E2-09, 2E2-10, 2E2-11, 2E2-12, 2E2-13)
- 2E2-08** Formation of trinuclear macrocyclic helical metal complexes and their aggregation behavior (Grad. School of Science, The Univ. of Tokyo) KUBOTA, Ryou; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 2E2-09** Multiple Circular-arrangement of Metal Ions within the Rhombic Nano-cavity of the Macrocyclic (Grad. School of Science, The Univ. of Tokyo) KURITANI, Masumi; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 2E2-10** Complexation and Polymerization of a Novel Macrocyclic Ligand possessing a Highly Reactive Butadiyne Framework (Grad. School of Science, The Univ. of Tokyo) MIURA, Yusuke; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 2E2-11** Sol-gel synthesis of silica nanoparticles within $M_{12}L_{24}$ coordination spheres (School of Engineering, The Univ. of Tokyo; CREST) SUZUKI, Kosuke; SATO, Sota; FUJITA, Makoto
- 2E2-12** Peptide Accumulation on the Surface of a Self-Assembled $M_{12}L_{24}$ spherical complex (School of Engineering, The Univ. of Tokyo; CREST) IKEMI, Masatoshi; KIKUCHI, Takashi; SATO, Sota; MATSUMURA, Sachiko; SHIBA, Kiyotaka; FUJITA, Makoto
- 2E2-13** Encapsulation of Isotope-labeled Ubiquitin into a $M_{12}L_{24}$ -type Spherical Complex (School of Engineering, The Univ. of Tokyo; CREST) FUJITA, Daishi; SUZUKI, Kosuke; SATO, Sota; YAMAGUCHI, Yoshiki; KURIMOTO, Eiji; YAMAGUCHI, Takumi; KATO, Koichi; FUJITA, Makoto

Chair: SATO, Sota (11 : 20 ~ 12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(2E2-15, 2E2-16, 2E2-18)
- 2E2-15** Construction of Artificial Peptide Metal Complexes possessing an Oligooxime Backbone (Grad. School of Science, The Univ. of Tokyo) MATSUOKA, Koji; MINODA, Ai; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 2E2-16*** Stepwise Self-Assembly of Higher-Order Pd(II)-Ti(IV) Multinuclear Complexes Accompanied by Selective Ligand Exchange on Ti(IV) Ions (The Univ. of Tokyo; PRESTO, JST) SAKATA, Yoko; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiro
- 2E2-18** Synthesis of Trisalloph-Heteronuclear Complexes Bearing Large Hydrophobic Moieties (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SASAKI, Masao; YAMAMURA, Masaki; NABESHIMA, Tatsuya

Saturday, March 28, PM

Chair: MAEDA, Hiromitsu (13 : 10 ~ 14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(2E2-26, 2E2-28, 2E2-29, 2E2-30, 2E2-31)
- 2E2-26*** Dynamic Chiral Chemistry based on a Metal-Assembled Supramolecular Host: Double Stereodifferentiation upon Recognition of Tartaric Acid (The Univ. of Tokyo) MIYAKE, Shioh; HIRAOKA, Shuichi; SHIRO, Motoo; SHIONOYA, Mitsuhiro
- 2E2-28** Metallo-Double Ball Bearing:Coaxial Arrangement of Two Molecular Rotational Devices by Dinuclear Pt(II) Pincer Complexes (The Univ. of Tokyo) HIRANAGA, Yoshihiro; HIRAOKA, Shuichi; SHIRO, Motoo; SHIONOYA, Mitsuhiro
- 2E2-29** Construction of a molecular clutch that can reversibly connect two rotational devices (The Univ. of Tokyo) FURUKAWA, Junichi; HIRAOKA, Shuichi; SHIONOYA, Mitsuhiro
- 2E2-30** Cation Recognition of Macrocyclic Trispyrrolin-Boron Complex by the BF_2 Moieties (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SAKAMOTO, Naoya; IKEDA, Chusaku; NABESHIMA, Tatsuya

Ion Recognition

Chair: IKEDA, Chusaku (14 : 20 ~ 15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2E2-33, 2E2-34, 2E2-35, 2E2-36, 2E2-37, 2E2-38)
- 2E2-33** Synthesis of β -Substituted Acyclic Oligopyrroles as Anion Receptors (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; SAKAMOTO, Shohei; HAKETA, Yohei
- 2E2-34** Synthesis of Formyl-Substituted Acyclic Anion Receptors and their Extended Derivatives (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; FUJII, Rika
- 2E2-35** Synthesis and characteristics of a new diazaborole derived from a cavitand (Tokyo Metropolitan Univ.) TSURUZOE, Kazusa; KUBO, Yuji
- 2E2-36** A Novel Fluorescent Chemosensor Based on Unmodified Poly(amidoamine) Dendrimer (Okayama Univ.) YAMAJI, Daisuke; TAKAGUCHI, Yutaka
- 2E2-37** Synthesis and metal ion recognitions of thiacalix[4]arene derivatives having imidazolyl moieties (Faculty of Science and Engineering, Saga Univ.) YOSHIZAWA, Akina; SHOFIUR, Rahman; YAMATO, Takehiko
- 2E2-38** Synthesis and Anion Binding Properties of Sulfamide Derivatives (Yamagata Univ.) HIGUCHI, Shintaro; ITO, Kazuaki

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

- * 15:20-15:30: interval for laptop PC connection.(2E2-40, 2E2-41, 2E2-42, 2E2-43, 2E2-44, 2E2-45)
- 2E2-40** Synthesis and properties of hemicyrptophane including a zinc metal in the cavity (Department of Engineering, Osaka Prefecture Univ.; Osaka Dental Univ.) MAKITA, Yoshimasa; SUGIMOTO, Kazuya; FUJIWARA, Shin-ichi; SHIN-IKE, Tsutomu; OGAWA, Akiya
- 2E2-41** Structural effect of amino acid side chains on anion recognition by cleft-type molecules (Faculty of Engineering, Graduate School of The Univ. of Tokushima) IWASAWA, Tetsuo; NISHIMOTO, Yoshiki; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 2E2-42** Synthesis and Cooperative Ion Pair Recognition of a Novel Anion Receptor Based on Pybox Skeleton (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) MIYAKE, Junya; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2E2-43** Synthesis and cation recognition of cyclic dinuclear metallohost bearing diphenyl ether units (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) UTSUNO, Fumihiko; AKINE, Shigehisa; NABESHIMA, Tatsuya
- 2E2-44*** Synthesis of Novel Compounds having plural Urea Units and Their Anion Selectivity (Utsunomiya Univ.) KUWAR, Anil S.; HAO, Jie; HIRATANI, Kazuhisa
- 2E2-45** Fluorescence Intensity Changes of Probes as a Function of Apoferritin Concentration in the Presence of Rare-Earth Metal Ions (Graduate School of Materials Science, Nara Institute of Science and Technology, NAIST) YUASA, Junpei; INUKAI, Norie; KAWAI, Tsuyoshi

Chair: KAWAI, Tsuyoshi (16 : 40 ~ 17 : 30)

- * 16:30-16:40: interval for laptop PC connection.(2E2-47, 2E2-48, 2E2-49, 2E2-50, 2E2-51)
- 2E2-47** Synthesis and Oligomerization of Ethynyl-Substituted π -Conjugated Acyclic Anion Receptors (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; KITAGUCHI, Kanako
- 2E2-48** Synthesis and Properties of Acyclic Anion Receptors with Substituted Boron Unit (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; TAKAYAMA, Mayumi
- 2E2-49** Spiropyran as a Colorimetric Probe for Selective Cyanide Ion

Detection in Aqueous Solution (Osaka Univ.) SHIRAISHI, Yasuhiro; ADACHI, Kenichi; ITOH, Masataka; HIRAI, Takayuki

- 2E2-50** Synthesis and Metal Ion Recognition Properties of Pyridine-bridged Mesoporous Organosilica (Toyota Central R&D Labs., Inc.; JST/CREST) WAKI, Minoru; MIZOSHITA, Norihiro; TANI, Takao; INAGAKI, Shinji
- 2E2-51** Novel Iridium(III) Complex Bearing Azacrown Ethers with Emission Response for Metal Ions (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SAIRENJI, Masaki; IKEDA, Chusaku; NABESHIMA, Tatsuya

Sunday, March 29, AM

Molecular Recognition?Self-Assembly

Chair: ABE, Hajime (9:00~9:50)

- * 8:50-9:00: interval for laptop PC connection.(3E2-01, 3E2-02, 3E2-04, 3E2-05)
- 3E2-01** Recognition of alkaline earth metals by 2-2'-bianthracene bearing two aza-15-crown-5-ethers (Graduate School of Engineering, Gunma Univ.) TAKAHASHI, Takuya; KONDO, Shin-ichi; UNNO, Masafumi
- 3E2-02*** Inclusion Complex Formation between Cyclodextrin Derivatives and Aromatic Guest Compounds in Nonpolar Organic Solvents (Osaka Univ.; NEOS Co.Ltd) KIDA, Toshiyuki; FUJINO, Yoshinori; MIYAWAKI, Kazuhiro; KATO, Eiichi; AKASHI, Mitsuru
- 3E2-04** Synthesis and functions of nucleic acid base analogs containing boron atom. (Univ. of Tokyo) YUMURA, Kyohei; ITO, Hiroshi; SAIGO, Kazuhiko
- 3E2-05** Development of novel propeller-shaped triarylborane compounds (Univ. of Tokyo) ABE, Takanori; ITO, Hiroshi; SAIGO, Kazuhiko

Chair: ITO, Hiroshi (10:00~10:40)

- * 9:50-10:00: interval for laptop PC connection.(3E2-07, 3E2-09, 3E2-10)
- 3E2-07*** Structural Transformation of Boron Helicates Consisting of Oligophenol Strands (Graduate School of Engineering, Nagoya Univ.;Yashima Super-structured Helix Project, ERATO, JST) MIWA, Kazuhiro; FURUSHO, Yoshio; YASHIMA, Eiji
- 3E2-09** Synthesis and Structure of Boron Helicates Consisting of Oligophenol Strands with Bipyridine Units (Graduate School of Engineering, Nagoya Univ.) ASAI, Ryo; MIWA, Kazuhiro; FURUSHO, Yoshio; YASHIMA, Eiji
- 3E2-10** Functions of Nonaamide-Pseudocryptand Bearing Diglycyl Moieties in the Polyether Chains (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) FURUKAWA, Yusuke; NABESHIMA, Tatsuya

Chair: AKINE, Shigehisa (10:50~11:30)

- * 10:40-10:50: interval for laptop PC connection.(3E2-12, 3E2-13, 3E2-14, 3E2-15)
- 3E2-12** Chemical stimulus-responsive organogel using a boron-contained cyclotriacetylene (Tokyo Metropolitan Univ., Saitama Univ.) YOSHIZUMI, Wataru; YAMAMOTO, Nagisa; KUBO, Yuji
- 3E2-13** Fixation of Helical Structures of Saccharide-Linked Ethynylpyridine Oligomers (Graduate School of Pharmaceutical Science, Univ. of Toyama) KAYAMORI, Fumihiko; ABE, Hajime; INOUE, Masahiko
- 3E2-14** Higher-Order Structures and Saccharide Recognition of Poly(ethynylpyridine)s Bearing Chiral Side Chains (Graduate school of Pharmaceutical Science, Univ. of Toyama) OKADA, Kotaro; ABE, Hajime; INOUE, Masahiko
- 3E2-15** Synthesis and Saccharide Recognition of Poly(ethynylpyridine)s with Crown Ether Side Chains (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) TAKASHIMA, Shunsuke; ABE, Hajime; INOUE, Masahiko

Sunday, March 29, PM

Chair: SUGIYASU, Kazunori (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(3E2-35, 3E2-36, 3E2-37, 3E2-38, 3E2-39, 3E2-40)
- 3E2-35** Preparation of Paraquat Derivatives Binding to VDACL (Sojo Univ.; Kanazawa Medical Univ.) HATTA, Taizo; MIZUKI, Keiji; IWAKIRI, Hiroki; KANASAKI, Souhei; SHIMADA, Hiroki; HATTA, Toshihisa
- 3E2-36** Supramolecular Organized Structures Comprising Planar Charged Species (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) HAKETA, Yohei; MAEDA, Hiromitsu
- 3E2-37** Inversion Control of Helical Structures by Imine-bridging (Department of Chemistry, Faculty of Science, Hokkaido Univ.) KAWAI, Hidetoshi; TANI, Yoshinori; KOIDE, Taro; UMEHARA, Takeshi; FUJIWARA, Kenshu; SUZUKI, Takanori
- 3E2-38** Molecular Recognition of Size and Shape by Phenylazomethine Dendrimer (Keio Univ.) SAKAIRI, Kiyoshi; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 3E2-39** Dicarboxylic Acid Recognition by 3-Oxidopyridinium Betaine-Containing 2,6-Diamidopyridine-Based Ditopic Receptor (Sojo Univ.) HATTA, Taizo; MIZUKI, Keiji; MAEDA, Shougo; TOKUNAGA, Daisuke
- 3E2-40** Synthesis of Boron Complexes derived of Compounds prepared via Tandem Claisen Rearrangement and Influence of Guest Molecules on their Fluorescence Behaviors (Utsunomiya Univ.) KIRYU, Masashi; KUWAR,

Anil S.; HIRATANI, Kazuhisa; OBA, Toru

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

- * 15:40-15:50: interval for laptop PC connection.(3E2-42, 3E2-43, 3E2-44, 3E2-45, 3E2-46, 3E2-47)
- 3E2-42*** Recognition of neutral guests by self-assembled Pt(II) host using stacking interactions and CH hydrogen bonds (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) TROKOWSKI, Robert; NABESHIMA, Tatsuya
- 3E2-43** Synthesis and Supramolecular Assemblies of π -Extended Acyclic Oligopyrroles (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; BANDO, Yuya; HAKETA, Yohei
- 3E2-44** Solid-State Molecular Assemblies of Anion-Responsive π -Conjugated Acyclic Oligopyrroles (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST; Graduate School of Engineering, Osaka Univ.) MAEDA, Hiromitsu; BANDO, Yuya; HAKETA, Yohei; SEKI, Shu; TOHNAI, Norimitsu
- 3E2-45** Formation of Self-Assembled Dimers from Acyclic Anion Receptors (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) MAEDA, Hiromitsu; KINOSHITA, Kota
- 3E2-46** Helical molecular programming (National Institute of Material Science) KASEYAMA, Takahiro; TANAKA, Ken; TAKEUCHI, Masayuki
- 3E2-47** A self-organized fluorescence sensor ofphospho-sugars using a phenylboronic acid with zinc(II)-coordinated site (Tokyo Metropolitan Univ.) HORIE, Shoichi; KUBO, Yuji

Chair: OBA, Toru (17:00~18:00)

- * 16:50-17:00: interval for laptop PC connection.(3E2-49, 3E2-50, 3E2-51, 3E2-52, 3E2-53, 3E2-54)
- 3E2-49** Self-assembled nanoarchitectures composed of amphiphilic zinc chlorins (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; HIRAI, Ryoji; TAMIAMI, Hitoshi
- 3E2-50** Self-aggregates prepared with various mixtures of different zinc chlorins (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; SASAKI, Fumika; HIRAI, Ryoji; TAMIAMI, Hitoshi
- 3E2-51** Self-Assembled Nanotube and Optical Properties of Macrocyclic Compound (Nagoya Institute of Technology, Institute for Molecular Science) TSUKAMOTO, Kenichi; ONO, Katsuhiko; TOMURA, Masaaki; SAITO, Katsuhiko
- 3E2-52** Linkage of Stacked Large Aromatic Molecules within Organic-Pillared Coordination Cages (Grad. School of Engineering, The Univ. of Tokyo; Chemical Resources Laboratory, Tokyo Institute of Technology; JST-PRESTO) YAMAUCHI, Yoshihiro; YOSHIZAWA, Michito; AKITA, Munetaka; FUJITA, Makoto
- 3E2-53** Dynamic Self-assembly Based on the Formation of Boronic Ester Using 1,4-Naphthalenedi(boronic acid). (Tokyo Institute of Technology) KIKUCHI, Yuji; TAKAHAGI, Hiroki; IWASAWA, Nobuharu
- 3E2-54** Formation of a Molecular Capsule via Electrostatic Interactions, and its Binding Properties. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; KIMU, Chizuru; HARADA, Toshiro

Monday, March 30, AM

Molecular Recognition?Self-Assembly

Chair: KUSUKAWA, Takahiro (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(4E2-01, 4E2-02, 4E2-03, 4E2-05)
- 4E2-01** Diverse Nanostructures from Barbituric-Acid-Capped Oligo(p-phenylenevinylene) Supramolecular Elements. (Grad. Sch. of Eng., Chiba Univ.; PRESTO, JST; AIST) YAGAI, Shiki; SAITO, Hikaru; KARATSU, Takashi; KITAMURA, Akihiko; KIKKAWA, Yoshihiro
- 4E2-02** Self-aggregation of Barbituric Acid-Functionalized Oligothiophenes (Grad. Sch. of Eng., Chiba Univ.; PRESTO, JST; AIST) YAGAI, Shiki; NOGUUCHI, Takuya; KINOSHITA, Tetsuro; KARATSU, Takashi; KITAMURA, Akihiko; KIKKAWA, Yoshihiro
- 4E2-03*** Self-assembled Structures of Noncyclic Isobutenyl Compounds with Plural Long Alkyl Chains and Influence of Addition of Alkali Metal Ion on the HOPG Surface (Utsunomiya Univ. Industrial Technology Center of Tochigi Prefecture/AIST) OMORI, Kazuhiro; KIKKAWA, Yoshihiro; TOKUHISA, Hideo; KANESATO, Masatoshi; HIRATANI, Kazuhisa
- 4E2-05*** Self-assembly and Aggregate-Induced Enhanced Emission (AIEE) Behavior of Amphiphilic Fluorescent Dyes in Aqueous Environment (Grad. School of Eng. kyushu Univ.Grad. School of Eng. Kyoto Univ.) HIROSE, Takashi; MATSUDA, Kenji

Chair: AZUMAYA, Isao (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(4E2-08, 4E2-10, 4E2-11, 4E2-12, 4E2-13)
- 4E2-08*** Monolayer Formed by Asymmetric Dehydrobenzo[12]annulene Substituted with Different Alkoxy Chains (Graduate School of Engineering Science, Osaka Univ., K.U. Leuven) TAHARA, Kazukuni; LEI, Shengbin; INUKAI, Koji; DE SCHRYVER, Frans C.; DE FEYTER, Steven; TOBE, Yoshito
- 4E2-10** Control of Two-Dimensional Arrangement of Four Components

Based on Porous Molecular Network (Graduate School of Engineering Science, Osaka Univ., K.U. Leuven) OKUHATA, Satoshi; ADISOEJOSO, Jinne; LEI, Shengbin; TAHARA, Kazukuni; DE SCHRUYVER, Frans C.; DE FEYTER, Steven; TOBE, Yoshito

- 4E2-11** Studies on the Formation of Modular Molecular Network of Butadiene-Bridged Macrocycles (Graduate School of Engineering Science, Osaka Univ.) GOTODA, Jun; TAHARA, Kazukuni; TOBE, Yoshito
- 4E2-12** Multicomponent Assembly of Amidinium-carboxylate Salt Units. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; SUZUKI, Takuma; HARADA, Toshiro
- 4E2-13** Synthesis and Multicomponent Assembly of Diamidine Compound having Anthracene Unit. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; TOYAMA, Keisuke; HARADA, Toshiro

Chair: TAHARA, Kazukuni (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(4E2-15, 4E2-16, 4E2-17, 4E2-18, 4E2-19, 4E2-20)
- 4E2-15** Design of dynamic molecular assembly using phenylboronic acid esters.(1) (Kyushu Institute of Technology) KAWASAKI, Hiroyoshi; USHIJIMA, Yousuke; TOYOSE, Yasushi; TSUGE, Akihiko; ARAKI, Koji
- 4E2-16** Design of dynamic molecular assembly using phenylboronic acid esters.(2) (Kyushu Institute of Technology) KAWASAKI, Hiroyoshi; TOYOSE, Yasushi; TSUGE, Akihiko; ARAKI, Koji
- 4E2-17** Effect of metal coordination bond on gelation of tris-urea low molecular weight organo gelator (Shizuoka Univ.) AOYAMA, Ryohei; YAMANAKA, Masamichi
- 4E2-18** Synthesis of a low molecular weight hydrogelator (Shizuoka Univ.) YAMAMICHI, Sachiyo; HARAYA, Nana; YAMANAKA, Masamichi
- 4E2-19** Synthesis and properties of phenylisoxazolylbenzene derivatives possessing an extended aromatic surface (Univ. of Hiroshima) SAITO, Hiroshi; TANAKA, Masahiro; HAINO, Takeharu
- 4E2-20** Self-assembly of an amphiphilic macrocycle with large cavity in aqueous solution (Tokushima Bunri Univ.) TOMINAGA, Masahide; AZUMAYA, Isao

Monday, March 30, PM

Chair: SHINMORI, Hideyuki (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(4E2-28, 4E2-29, 4E2-30, 4E2-31, 4E2-32)
- 4E2-28** Self-assembling of Hexaazatriphenylene derivatives with Expanded pi-electron System (Kurume National College of Technology) ISHI-I, Tsutomu; TSUTSUMI, Naotaka; AMEMORI, Shogo
- 4E2-29** Self-assembled Hexaazatriphenylenes with Triphenylamine Donor Moieties (Kurume National College of Technology) AMEMORI, Shogo; ISHI-I, Tsutomu; KAMADA, Kenji
- 4E2-30** Self-assembly of Melamine-capped Oligo(p-phenylenevinylene)s and Their Coassembly with Cyanuric acid derivatives (Grad. Sch. of Eng., Chiba Univ.; PRESTO, JST; AIST) YAGAI, Shiki; AONUMA, Hiroaki; KARATU, Takashi; KITAMURA, Akihide; KIKKWA, Yoshihiro
- 4E2-31** Self-assembly of melamine-capped oligo(p-phenylenevinylene) dimers (Graduate School of Engineering, Chiba Univ.; PRESTO, JST) YAGAI, Shiki; TAZAWA, Tsuyoshi; KARATSU, Takashi; KITAMURA, Akihide

Porphyrin

- 4E2-32*** Synthesis and Properties of Chiral Subnaphthalocyanines (Tohoku Univ.) SHIMIZU, Soji; KHENE, Samson; KOBAYASHI, Nagao

Chair: KOBAYASHI, Nagao (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(4E2-35, 4E2-36, 4E2-37, 4E2-38, 4E2-39, 4E2-40)
- 4E2-35[†]** Möbius Aromaticity of meso-Aryl Hexaphyrin at room temperature via Fusion Reaction (Graduate School of Science, Kyoto Univ.) INOUE, Mitsunori; OSUKA, Atsuhiko
- 4E2-36** Synthesis and properties of metal complexes of meso-free hexaphyrin (Graduate School of Science, Kyoto Univ. Institute for Molecular Science) KOIDE, Taro; KASHIWAZAKI, Gengo; FURUKAWA, Ko; OSUKA, Atsuhiko
- 4E2-37** Synthesis of bithiophene-bridged cyclic porphyrin arrays (Grad. Sch. of Sci., Kyoto Univ.) OSAWA, Kenta; SONG, Jianxin; ARATANI, Naoki; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko
- 4E2-38** Synthesis and Properties of Singly N-Confused Hexaphyrin (Graduate School of Engineering, Kyushu Univ.) YAMAGUCHI, Keisuke; FURUTA, Hiroyuki
- 4E2-39** Synthesis and Characterization of Pyridine-fused Porphyrinoids (Graduate School of Science, Kyoto Univ.) TOKUJI, Sumito; TAKAHASHI, Yuji; SHINMORI, Hideyuki; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko
- 4E2-40** Synthesis and Substituent Effects of β -Substituted Subporphyrins. (Kyoto Univ., Graduate School of Science) TSURUMAKI, Eiji; INOKUMA, Yasuhide; OSUKA, Atsuhiko

Chair: TOGANOH, Motoki (15:50~16:50)

- * 15:40-15:50: interval for laptop PC connection.(4E2-42, 4E2-43, 4E2-44,

4E2-45, 4E2-46, 4E2-47)

- 4E2-42** Synthesis of meso-trifluoromethyl-substituted subporphyrin via the ring-extrusion reaction of heptaphyrin (Graduate School of Science, Kyoto Univ.) SAKAMOTO, Ryu; SAITO, Shohei; INOKUMA, Yasuhide; OSUKA, Atsuhiko
- 4E2-43** Enantiomeric separation of Möbius aromatic hexaphyrin metal complexes (Kyoto Univ.) SUGITA, Tsutomu; SAITO, Shohei; OSUKA, Atsuhiko
- 4E2-44** Synthesis and properties of benzoporphycenes (Graduate school of science and engineering, Ehime university, PRESTO) KUZUHARA, Daiki; YAMADA, Hiroko
- 4E2-45** Photophysical Properties of acenaphthoporphyrinsin solution (Graduate School of Science and Engineering, Ehime Univ.) NAKAMURA, Jun; ONO, Noboru; UNO, Hidemitsu; SUZUKI, Kengo; YAMADA, Hiroko; OKUJIMA, Tetsuo
- 4E2-46** Synthesis and characterization of directly meso-meso linked porphyrin-hexaphyrin dimer (Graduate School of Science, Kyoto Univ.) TANAKA, Takayuki; ARATANI, Naoki; OSUKA, Atsuhiko
- 4E2-47** Design of n-Type Liquid Crystalline Organic Semiconductors Based on Fused Porphyrin Dimers bearing incompatible side chains (The Univ. of Tokyo, Kyoto Univ., Osaka Univ.) SAKURAI, Tsuneaki; SATO, Hiroshi; SHI, Keyu; TASHIRO, Kentaro; AIDA, Takuzo; OSUKA, Atsuhiko; SAEKI, Akinori; SEKI, Shu; TAGAWA, Seiichi

Room E3

Bldg.9 933

Physical Organic Chemistry -Structures and Properties-

Friday, March 27, AM

Fullerene

Chair: AMAYA, Toru (10:00~11:00)

- * 9:50-10:00: interval for laptop PC connection.(1E3-07, 1E3-08, 1E3-09, 1E3-10, 1E3-11, 1E3-12)
- 1E3-07** Synthesis and Photocurrent Generation Properties of Penta(carbazolyl)[60]fullerene Derivatives (Univ. of Tokyo & ERATO, JST) NAKAHARA, Katsumasa; MATSUO, Yutaka; NAKAMURA, Eiichi
- 1E3-08[#]** Fullerene Self-assembled Monolayer as A Nano Capacitor Switchable by Light (The Univ. of Tokyo; ERATO, JST) LACHER, Sebastian; SAKAMOTO, Aiko; MATSUO, Yutaka; NAKAMURA, Eiichi
- 1E3-09** Photocurrent control using organo-fullerene derivatives and fullerene metal complexes (The Univ. of Tokyo; ERATO, JST) ICHIKI, Takahiko; MATSUO, Yutaka; NAKAMURA, Eiichi
- 1E3-10[#]** Synthesis and Photocurrent-Generating Properties of Thiol- and Phosphonic Acid-Functionalized [60]Fullerene Iron Complexes (The Univ. of Tokyo & ERATO, JST) ZHANG, Ying; MATSUO, Yutaka; NAKAMURA, Eiichi
- 1E3-11** Synthesis and photoelectrochemical properties of pentapod-type cobaltadithiolen fullerene complexes (The Univ. of Tokyo & ERATO, JST) MARUYAMA, Masashi; MATSUO, Yutaka; NAKAMURA, Eiichi
- 1E3-12** Synthesis and Properties of Fullerene Derivatives Bearing *O*-Acetylated Glucoside-Substituted Pyrrolidine (Sojo Univ.; NISSAN CHEMICAL INDUSTRIES, LTD) HATTA, Taizo; MIZUKI, Keiji; YAGAMI, Akifumi; IKEHARA, Yuta; NAKAIE, Naoki

Chair: TAKAGUCHI, Yutaka (11:10~12:10)

- * 11:00-11:10: interval for laptop PC connection.(1E3-14, 1E3-15, 1E3-16, 1E3-17)
- 1E3-14** Control of electronic structure of fullerene by through-space interaction of vicinal substituent (RIKEN) KAWASHIMA, Jun-ichi; NUMATA, Youhei; TAJIMA, Yusuke
- 1E3-15** Reversible solubilization and precipitation of caebron nanotubes by temperature and pH control in water (Graduate School of Materials Science, Nara Institute of Science and Technology) TOTSUKA, Yu; IKEDA, Atsushi; NOBUSAWA, Kazuyuki; KIKUCHI, Jun-ichi
- 1E3-16** Two-step alkylation on the sidewall of single-walled carbon nanotubes (Tokyo Gakugei Univ., JST PRESTO, Univ. of Tsukuba) KATO, Takaaki; MAEDA, Yutaka; HASEGAWA, Tadashi; AKASAKA, Takeshi
- 1E3-17** Young Scholar Lectures of CSJ Construction of Electroactive Nanotubes via Molecular Self-assembly (ERATO-SORST, JST) YAMAMOTO, Yohei

Friday, March 27, PM

Chair: UNO, Hidemitsu (13:20~14:20)

- * 13:10-13:20: interval for laptop PC connection.(1E3-27, 1E3-28, 1E3-29, 1E3-31)
- 1E3-27** Enantiomeric Separation of Fullerodendron Formed by Diastereose-

lective Diels-Alder reaction (Okayama Univ.) TAKAHASHI, Nobuhiro; TSUGAWA, Naoki; TAKAGUCHI, Yutaka

1E3-28 Diels-Alder reaction of C₆₀ in mesoporous silica as a reaction medium (Osaka Univ.) MINAKATA, Satoshi; NAGAMACHI, Toshiaki; NAKAYAMA, Kazuhisa; KOMATSU, Mitsuo

1E3-29^{††} Regioselectivity in functionalization of La@C₈₂ by two different groups (TARA center, Univ. of Tsukuba) SATO, Satoru; MAEDA, Yutaka; INADA, Koji; YAMADA, Michio; TSUCHIYA, Takahiro; ISHITSUKA, Midori; HASEGAWA, Tadashi; AKASAKA, Takeshi; KATO, Tatsuhisa; MIZOROGI, Naomi; ZDENEK, Slanina; NAGASE, Shigeru

1E3-31^{††} Chemical Modification of Fullerene through Pd Catalysis (Dept Chem, Nagoya Univ; JST-PRESTO) NAMBO, Masakazu; MORI, Susumu; ITAMI, Kenichiro

Chair: TSUCHIYA, Takahiro (14:30~15:30)

* 14:20-14:30: interval for laptop PC connection.(1E3-34, 1E3-36, 1E3-38)

1E3-34^{*} Structure and Photoelectric Properties of Porphyrin Nanotubes Including Fullerenes (Graduate School of Sciences, Kyushu Univ.; Inst. for Materials Chemistry and Engineering, Kyushu Univ.; College of Science, Ibaraki Univ.; Graduate School of Engineering, Osaka Univ.; SORST, JST; Department of Chemistry, Univ. of Tsukuba) NOBUKUNI, Hirofumi; TANI, Fumito; SHIMAZAKI, Yuichi; NARUTA, Yoshinori; OHKUBO, Kei; NAKANISHI, Tatsuaki; KOJIMA, Takahiko; FUKUZUMI, Shunichi; SEKI, Shu

1E3-36^{*} Photoelectrochemical Properties in Bicontinuous Porphyrin-Fullerene Arrays using Coordination Bonding (Kyoto Univ.; iCeMS) KIRA, Aiko; UMEYAMA, Tomokazu; MATANO, Yoshihiro; YOSHIDA, Kaname; ISODA, Seiji; IMAHORI, Hiroshi

1E3-38^{*} Regioselective Synthesis, Electrochemistry, and Photovoltaic Property of Octa(organo)[70]fullerene (The Univ. of Tokyo & ERATO, JST) FUJITA, Takeshi; MATSUO, Yutaka; NAKAMURA, Eiichi

Chair: HAINO, Takeharu (15:40~16:40)

* 15:30-15:40: interval for laptop PC connection.(1E3-41, 1E3-42, 1E3-43, 1E3-44, 1E3-45, 1E3-46)

1E3-41 [4+2] Cycloaddition Reaction of Fullerene C₇₀ Encapsulating Two Molecules of H₂ (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO; Faculty of Engineering, Fukui Univ. of Technology) MORINAKA, Yuta; MURATA, Michihisa; MURATA, Yasujiro; KOMATSU, Koichi

1E3-42 Synthesis of Novel Di(silylmethyl)[60]fullerene Derivatives (The Univ. of Tokyo & ERATO, JST) OYAMA, Hiromi; MATSUO, Yutaka; NAKAMURA, Eiichi

1E3-43[†] Bis(silylmethyl)[60]fullerene Derivatives: Controlling Thermal Properties and Morphology (The Univ. of Tokyo; ERATO, JST) MATSUO, Keiko; MATSUO, Yutaka; NAKAMURA, Eiichi

1E3-44 Synthesis and Properties of Silylmethyl[70]fullerene Derivatives (ERATO, JST) ABE, Yoko; MATSUO, Yutaka; SOGA, Iwao; SATO, Yoshiharu; NAKAMURA, Eiichi

1E3-45[†] Synthesis of Chiral CpFe⁺ Complex of Sumanene (Osaka Univ.) SAKANE, Hiroyuki; AMAYA, Toru; HIRAO, Toshikazu

1E3-46[†] Synthesis of CpRu⁺ Complex of Sumanene (Osaka Univ.) AMAYA, Toru; WANG, Wen-zhen; SAKANE, Hiroyuki; HIRAO, Toshikazu

Chair: MURATA, Yasujiro (16:50~17:50)

* 16:40-16:50: interval for laptop PC connection.(1E3-48, 1E3-49, 1E3-50, 1E3-51, 1E3-52, 1E3-53)

1E3-48[†] Supramolecular Organization of Deca(organo)[60]Fullerenes into a 3D Tetragonal Lattice (The Univ. of Tokyo & ERATO, JST) LI, Chang-zhi; MATSUO, Yutaka; NAKAMURA, Eiichi

1E3-49 Complexation between diethanoacene-fused diporphyrin and fullerene (Integrated Center for Sciences, Ehime Univ.; Shiga Univ. of Medical Science) FURUKAWA, Mina; HASHIMOTO, Masakazu; KOMATSU, Naoki; UNO, Hidemitsu

1E3-50 Cross-linking of poly(phenylacetylene) possessing a fullerene moiety by host-guest interaction of calix[5]arene and [60]fullerene (Hiroshima Univ.) HAINO, Takeharu; HIRAI, Eri

1E3-51 Development of Novel Synthetic Method for Sumanenetrone and its Derivatization (Osaka Univ.) AMAYA, Toru; HIFUMI, Maiko; HIRAO, Toshikazu

1E3-52 Synthesis of Ring-fused Sumanenes (Osaka Univ.) AMAYA, Toru; NAKATA, Takuto; HIRAO, Toshikazu

1E3-53 Bowl-to-Bowl Inversion of Sumanene Derivatives (Osaka Univ.) AMAYA, Toru; SAKANE, Hiroyuki; NAKATA, Takuto; HIRAO, Toshikazu

Saturday, March 28, AM

Chirality

Chair: ISHIDA, Yasuhiro (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(2E3-01, 2E3-02, 2E3-03, 2E3-04, 2E3-05, 2E3-06)

2E3-01 Chiral discrimination of alkane-2-ols using phosphorosenonic acid

esters bearing a binaphthyl group (Department of Chemistry, Faculty of Engineering, Gifu Univ.) IMAIZUMI, Satoko; TSUJI, Hiromi; MURAI, Toshiaki

2E3-02 Synthesis and Chiroptical Properties of Polythiophene with Optically Active Binaphthyl Pendants Tethered by an Oxyethylene Linker (Graduated School of Engineering, Osaka Univ.) FUKUHARA, Gaku; INOUE, Yoshihisa

2E3-03 Substituent Effect on Dynamic Behavior of Ansa-Bridges for Planar-Chiral Parapyridinophane (Waseda Univ.) UEDA, Yasuyuki; KANOMATA, Nobuhiro

2E3-04 Experimental and Theoretical Investigation of Chiroptical Properties of Neutral and Protonated Dithiapyridinophanes (Graduate School of Engineering, Osaka Univ.) SHIMIZU, Akinori; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; INOUE, Yoshihisa

2E3-05 Theoretical Study of Circular Dichroism of Chiral Photocyclodimers of Anthracene Derivatives (Graduate School of Engineering, Osaka Univ.) KISHIDA, Yoshie; MORI, Tadashi; YANG, Cheng; NISHIJIMA, Masaki; FUKUHARA, Gaku; INOUE, Yoshihisa

2E3-06 Synthesis and Chiroptical Properties of Chiral Hexaarylbenzenes (Graduate School of Engineering, Osaka Univ.) MORI, Tadashi; INOUE, Yoshihisa

Chair: MORI, Tadashi (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(2E3-08, 2E3-09, 2E3-11, 2E3-12)

2E3-08 Switching of structural order in a cross-linked polymer prepared by the template polymerization of a columnar liquid crystal (School of Engineering The Univ. of Tokyo) SAKATA, Hiroaki; IWAHASHI, Nobutaka; AMANO, Sayaka; ISHIDA, Yasuhiro; SAIGO, Kazuhiko

2E3-09^{*} The photodimerization of anthracenecarboxylic acids in chiral liquid crystalline field (Graduate school of engineering, the university of Tokyo) MATSUOKA, Yuki; KAI, Yukiko; KATO, Shunya; ISHIDA, Yasuhiro; SAIGO, Kazuhiko

2E3-11 Structures and Stereochemistry of Chiral Anthracene-Acetylene Cyclic Dimers with Intraannular Alkyl Groups (Okayama Univ. of Science) ONISHI, Hiroyuki; IWANAGA, Tetuo; TOYOTA, Shinji

2E3-12^{††} Structures and Restricted Rotation about Acetylenic Axes of Chiral Macrocyclic Anthracene-Acetylene Oligomers (Okayama Univ. of Science) ISHIKAWA, Takeharu; TOYOTA, Shinji

Chair: TOYOTA, Shinji (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(2E3-15, 2E3-17, 2E3-19, 2E3-20)

2E3-15^{*} Drastic Changes in Asymmetric Field of Binaphthyls with Azobenzene Moieties by Photoisomerization. (RIKEN) TAKAISHI, Kazuto; KAWAMOTO, Masaki; TSUBAKI, Kazunori; WADA, Tatsuo

2E3-17^{*} Synthesis and application of fluorinated β -amino acids(1) (Graduate school of engineering, Univ. of Tokyo) NISHIZONO, Nao; IWAHASHI, Nobutaka; ISHIDA, Yasuhiro; SAIGO, Kazuhiko

2E3-19 Synthesis and application of fluorinated β -amino acids(2) (Graduate school of engineering, Univ. of Tokyo) SAWAKI, Kyohi; NISHIZONO, Nao; IWAHASHI, Nobutaka; ISHIDA, Yasuhiro; SAIGO, Kazuhiko

2E3-20 Asymmetric Synthesis of Fluorinated α -Amino Acids from trifluoroacetic acid (Univ. of Tokyo) IRIE, Shiho; ISHIDA, Yasuhiro; SAIGO, Kazuhiko

Saturday, March 28, PM

Chair: KAMIKAWA, Ken (13:30~14:10)

* 13:20-13:30: interval for laptop PC connection.(2E3-28, 2E3-29, 2E3-30, 2E3-31)

2E3-28 Synthesis and Structural Characterization of Oligoaniline derivatives Bearing Amino Acid Moieties (Osaka Univ.) MORIUCHI, Toshiyuki; OHMURA, Satoshi; HIRAO, Toshikazu

2E3-29 Luminescence Properties of Phenylenediamine and Quinonediimine Derivatives (Osaka Univ.) MORIUCHI, Toshiyuki; OHMURA, Satoshi; HIRAO, Toshikazu

2E3-30 Chiroptical response of *trans*-5,6-dihydrophenanthroline-5,6-diol (Hokkaido Univ.) SUZUKI, Takanori; MIURA, Youhei; KAWAI, Hidetoshi; FUJIWARA, Kenshu

2E3-31 Chiral tris-urea low-molecular-weight gelators (Shizuoka Univ.) NAKAGAWA, Tomoe; YAMANAKA, Masamichi

Chair: SAGA, Yoshitaka (14:20~15:00)

* 14:10-14:20: interval for laptop PC connection.(2E3-33, 2E3-34, 2E3-35, 2E3-36)

2E3-33 Induction of a one-handed helix by the domino effect based on planar-axial-helical chirality relay (Department of Chemistry, Graduate School of Science, Osaka Prefecture Univ.) KAMIKAWA, Ken; FUKUMOTO, Keisuke; MATSUZAKA, Hiroyuki; TAKEMOTO, Shin

2E3-34 Determination of the Absolute Stereochemistries of Inherently Chiral *anti*-*O*-*O*'-Dialkylthiacalix[4]arenes by the CD Exciton Chirality Method (Ishinomaki Senshu Univ.) NARUMI, Fumitaka; TAKAHASHI, Ryo; KAMEYAMA, Hiroshi

2E3-35 Magneto-chiral dichroism of porphyrin J aggregates (Institute of

Industrial Science, the Univ. of Tokyo) KITAGAWA, Yuuichi; ISHII, Kazuyuki; SEGAWA, Hiroshi

- 2E3-36** Unconventional chiral recognition utilizing multiple equilibrium of allosterism (Graduate School of Engineering, Kyushu Univ.) IKEDA, Tomohiro; SHINKAI, Seiji; SADA, Kazuki; TAKEUCHI, Masayuki

Porphyrin

Chair: YAMASHITA, Ken-Ichi (15 : 10~16 : 10)

* 15:00-15:10: interval for laptop PC connection.(2E3-38, 2E3-39, 2E3-40, 2E3-41, 2E3-42, 2E3-43)

- 2E3-38** Synthesis of Chlorophyll Derivatives Possessing a Trifluoroacetyl Group at the 3-Position and Their Physical Properties (Ritsumeikan Univ.) TAMIAMI, Hitoshi; AZUMA, Kimiko; KUNIEDA, Michio; SASAKI, Shin-ichi
- 2E3-39** Synthesis of Linear Tetrapyrroles by Photo-oxidation of Chlorophylls and Their Photophysical Properties (Ritsumeikan Univ.) TAMIAMI, Hitoshi; OKAMOTO, Yukihiro
- 2E3-40**[†] Development of Tunable Near-Infrared Fluorescent Dyes as an Energy Acceptor from Chlorophyll Self-Assemblies (Ritsumeikan Univ.) KATAOKA, Yumiko; KUNIEDA, Michio; TAMIAMI, Hitoshi
- 2E3-41** Preparation of the porphyrins based on the calixarene structure and their properties in terms of the outer stimuli. (Department of Applied Chemistry, Kyushu Institute of Technology) IKEDA, Hiroshi; MORIGUCHI, Tetsuji; ARAKI, Kouji; TSUGE, Akihiko
- 2E3-42** Synthesis and Fluorescence Properties of S,N3-Hybrid Calixphyrin-zinc complexes (Department of Molecular Engineering, Graduate School of Engineering, Kyoto Univ.) FUJITA, Masato; MIYAJIMA, Tooru; MATONO, Yoshihiro; IMAHORI, Hiroshi
- 2E3-43** Synthesis and Binding Properties of Non-symmetric Cryptand-like Porphyrinoids with Mixed Dipyrrolylene Chains (Department of Chemistry, Graduate School of Science, Kobe Univ.) TAKASE, Kanako; SETSUNE, Jun-ichiro

Chair: SASAKI, Shinichi (16 : 20~17 : 10)

* 16:10-16:20: interval for laptop PC connection.(2E3-45, 2E3-46, 2E3-47, 2E3-48, 2E3-49)

- 2E3-45** Synthesis and STM observation of porphyrin-phthalocyanine double decker complexes with Ce or Zr (College of Science and Technology, Nihon Univ.) KOBAYASHI, Daiya; OTSUKI, Joe
- 2E3-46** Rotation of a double-decker porphyrin in visualised (College of Science and Technology, Nihon Univ.) KOMATSU, Yuji; OTSUKI, Joe
- 2E3-47** Formation of Supramolecular Polymer Driven by Host-Guest Interaction of Bisporphyrin Cleft and Trinitrofluorenone (Hiroshima Univ.) WATANABE, Akihiko; HAINO, Takeharu
- 2E3-48** Synthesis and optical properties of cyclic porphyrin oligomers connected by diphenylbutadiynes (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; AKITA, Yasuhiro; ASANO, Motoko; TANAKA, Hiroyuki; KAWAI, Tomoji; SUGIURA, Ken-ichi
- 2E3-49** Packing motif of metalloporphyrins dependent on incorporated metals (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; TAZAWA, Shin; UMEMIYA, Masamitsu; ASANO, Motoko; MIYASAKA, Hitoshi; YAMASHITA, Masahiro; HATA, Masahiko; SUGIURA, Ken-ichi

Sunday, March 29, AM

molecular structure

Chair: KYUSHIN, Soichiro (9 : 00 ~9 : 50)

* 8:50-9:00: interval for laptop PC connection.(3E3-01, 3E3-02, 3E3-03, 3E3-04, 3E3-05)

- 3E3-01** Synthesis and Molecular Structure of Azacalix[5]arene Pentamethyl Ether (Graduate School of Human and Environmental Studies, Kyoto Univ.) TSUE, Hirohito; ONO, Kohei; ISHIBASHI, Koichi; MATSUI, Kazuhiro; TAKAHASHI, Hiroki; TAMURA, Rui
- 3E3-02** Conformational Properties of Nitrogen, Oxygen, and Sulfur Atom-bridged Calixarenes. (Graduate School of Engineering, Tottori Univ.) YASUKAWA, Yusuke; KOBAYASHI, Kazuhiro; KONISHI, Hisatoshi
- 3E3-03** Synthesis and molecular structure of phosphino-calix[3]amide (Tokushima Bunri Univ.) KATAGIRI, Kosuke; MASU, Hyuma; TOMINAGA, Masahide; AZUMAYA, Isao
- 3E3-04** Molecular Structure of Chlorocycloheptane in Inclusion Compound with 9,9'-Bianthryl and Gelation during Crystallization (Okayama Univ. of Science) TOYOTA, Shinji; OKAMOTO, Yohei; ISHIKAWA, Takeharu; YAMADA, Masanori; IWANAGA, Tetsuo
- 3E3-05** Synthesis and analysis of helical aromatic multi-layered ureas (Department of Chemistry, Faculty of Science, Ochanomizu Univ.) HANASHIMA, Takayuki; KUDO, Yamumi; SATO, Hisako; MURANAKA, Atsuya; UCHIYAMA, Masanobu; KAGECHIKA, Hiroyuki; TANATANI, Aya

Chair: TAKAHASHI, Hiroki (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(3E3-07, 3E3-09, 3E3-11)

- 3E3-07*** Synthesis and Unusual Properties of *p*-Terphenyl-Based Molecular Glass Containing an Alkyldimethylsilyl Group (Graduate School of Engineering, Gunma Univ.) OTSUKA, Kyohei; ISHIDA, Shintaro; KYUSHIN, Soichiro

- 3E3-09*** The Study of Structural and Color Changes Mechanism of Vapochromic Organic Crystal using Aromatic Diimide Moieties (Graduate School of Engineering Science, Osaka Univ.) TAKAHASHI, Eiji; TAKAYA, Hikaru; NAOTA, Takeshi

- 3E3-11*** Mesomorphic properties of triphenylene liquid crystals with fluorinated phenyl groups (AIST-Kansai, Chisso Petroleum Chemicals Co., Kobe Univ.) SASADA, Yasuyuki; MONOBE, Hirosato; UEDA, Yasukiyo; SHIMIZU, Yo

Chair: OTSUKI, Joe (11 : 10~12 : 00)

* 11:00-11:10: interval for laptop PC connection.(3E3-14, 3E3-15, 3E3-16, 3E3-17, 3E3-18)

- 3E3-14** Synthesis and characterization of mono and diprotonation of saddle-distorted porphyrin with anthracene derivatives (Osaka Univ., SORST (JST)) HONDA, Tatsuhiko; KOJIMA, Takahiko; FUKUZUMI, Shunichi
- 3E3-15[#]** Synthesis and photophysical property of porphyrin cyclic hexamers with a triphenylene core (JAIST; PRESTO, JST; IMRAM, Tohoku Univ.) GULAM, Rabbani Mohammad; SANDANAYAKA, Atula S.D.; ARAKI, Yasuyuki; WADA, Takehiko; HASOBE, Taku
- 3E3-16** Synthesis of Self-assembled Dendrimer of Zinc Porphyrin Bearing Two Oligoaniline Chains with Terminal Pyridyl Groups (Osaka Univ.) AMAYA, Toru; UEDA, Taiki; HIRAO, Toshiyazu
- 3E3-17** Building the Donor-Acceptor combined molecule with phenylazomethine dendrimer (Keio.Univ) KOBAYASHI, Hiroki; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 3E3-18** novel synthesis and properties meso-halogenated benzoporphyrins (Faculty of Engineering Utsunomiya Univ.) KOMATSU, Takuya; ITO, Satoshi; OBA, Toru; HIRATANI, Kazuhisa; TERADA, Noriaki

Sunday, March 29, PM

Chair: AKAZOME, Motohiro (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(3E3-33, 3E3-34, 3E3-35, 3E3-36, 3E3-37, 3E3-38)

- 3E3-33** Preparation of Highly Ordered Monolayer Assemblies of Tripod-type Molecules on Surface (College of Science and Technology, Nihon Univ.) SHIMAZAKI, Yuko; OTSUKI, Joe; NAKAMURA, Sotaro
- 3E3-34** Arrangement of porphyrins having alkyl chains with diacetylene units on graphite (College of Science and Technology, Nihon Univ.) NAMIKI, Kazuhiko; OTSUKI, Joe; ARAI, Yuki
- 3E3-35** The trapping and analysis of environmental radical species using "Clair Radical Trapping Sheet" (Yokohama Natl.Univ.) FUJISHIMA, Yusuke; KAWATA, Takeshi; SAKAKIBARA, Kazuhisa; YUZURI, Tomoaki; EBINA, Takeo; KAWASAKI, Kazunori
- 3E3-36** Construction of porous crystals of fan shaped organic donors and their metallic compounds aggregation properties (Univ. of Japan Chemical; Japan Chemical Co.Ltd) UEDA, Kazumasa; KATAYAM, Masahiro; SUZUKI, Kenjo
- 3E3-37** Theoretical design on hexa-coordinate hypervalent carbon compounds (Sch. of Adv. Sci. & Eng., Waseda Univ.) OKOSHI, Masaki; ATSUMI, Teruo; KIKUCHI, Yasuaki; AKIBA, Kin-ya; NAKAI, Hiromi
- 3E3-38** Molecular Design of the Electrolyte for Non-humidified Intermediate Temperature Fuel Cell by Using the Molecular Force Field. (Yokohama Natl. Univ.) HASHIMOTO, Shu; MORI, Kazuki; SAKAKIBARA, Kazuhisa

Chair: UEDA, Kazumasa (15 : 30~16 : 20)

* 15:20-15:30: interval for laptop PC connection.(3E3-40, 3E3-41, 3E3-42, 3E3-43, 3E3-44)

- 3E3-40** Bowl-shaped Structure of Tripeptides of 2-(2-Aminophenoxy)alkanoic Acids (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; SUKEGAWA, Junpei; GOTO, Yohei; MATSUMOTO, Shoji
- 3E3-41** Synthesis and Structure of Furan-Bridged Polysilaalkane Macrocycle as a Novel Molecular Compass (Graduate School of Science, Tohoku Univ.; PRESTO-JST) ABE, Takashi; OHMIZU, Soichiro; SETAKA, Wataru; ISOBE, Hiroyuki; KIRA, Mitsuo
- 3E3-42** Synthesis and Structure Control of Sulfinyl-Bridged Aniline Oligomers (Graduate School of Science and Engineering Yamagata Univ.) KOBAYASHI, Kumi; YAMAMOTO, Kazuhiro; KATAGIRI, Hiroshi; OHBA, Yoshihiro
- 3E3-43** Thiophene-fused π -disc as a new component for functional molecular assemblies (RIKEN) OGAWA, Saho; OKAMOTO, Toshihiro; FUKUSHIMA, Takanori; AIDA, Takuzo
- 3E3-44** One Dimensional Arrangement Control of TTF by Using Cyclic Peptide Having Nanotube-forming Ability in Water. (Institute of Industrial Science, the Univ. of Tokyo) UENO, Koichi; KUDO, Kazuaki

molecular structure

Chair: NAKAI, Hiromi (16 : 30~17 : 20)

* 16:20-16:30: interval for laptop PC connection.(3E3-46, 3E3-47, 3E3-48, 3E3-49, 3E3-50)

- 3E3-46** Synthesis and Properties of Silicon Complex of N₂O₂-Type Dipyrin (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) IKEDA, Chusaku; NABESHIMA, Tatsuya
- 3E3-47** Synthesis of Novel Boron-Dipyrin Complexes by the reaction of N₂O₂-Type Dipyrin and Arylboronic Acid (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) MARUYAMA, Tetsuji; IKEDA, Chusaku; NABESHIMA, Tatsuya
- 3E3-48** Relationship between Stereochemistry and Thermal Stability for Bicyclic Dioxetanes Bearing a 4-(benzothiazol-2-yl)-3-hydroxyphenyl Moiety (Kanagawa Univ. Dept. of Chemistry) TANIMURA, Masatoshi; WATANABE, Nobuko; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 3E3-49** Mechanism of Alkaline Metal Ion Enhanced Chemiluminescence of Dioxetanes Bearing a Hydroxyaryl Group with Vicinal Substitution Pattern (Kanagawa Univ. Dept. of Chemistry) KAKUNO, Fumihiko; WATANABE, Nobuko; MATSUMOTO, Masakatsu
- 3E3-50** Relationship of Structures of Sulfinyl-, Sulfinyl- and Sulfonyl-substituted Dioxetanes to their Thermolysis and Base-induced Chemiluminescent Decomposition (Kanagawa Univ. Dept. of Chemistry) KIKUCHI, Masato; WATANABE, Nobuko; IJUIN, Hisako; MATSUMOTO, Masakatsu

Monday, March 30, AM

porphyrin

Chair: TOGANO, Motoki (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(4E3-01, 4E3-03, 4E3-05)

- 4E3-01*** Synthesis and dimerizations of β, β -dihydroxyporphyrins (Department of Chemistry, Graduate School of Science, Kyoto University) HIROTO, Satoru; HISAKI, Ichiro; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko
- 4E3-03*** Transformation of π -Conjugated System on Expanded Porphyrins (Kyoto Univ.) SAITO, Shohei; OSUKA, Atsuhiko
- 4E3-05**** Synthesis and Properties of Novel Phthalocyanine Analogues Bearing Azaphenylene Moieties (Graduate School of Science, Tohoku Univ.) ZHU, Hua; SHIMIZU, Soji; KOBAYASHI, Nagao

Chair: ARATANI, Naoki (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(4E3-08, 4E3-11, 4E3-13)

- 4E3-08** Young Scholar Lectures of CSJ Synthesis of Near-infrared Emissive Organic Materials by Interior Functionalization of Macrocyclic Compounds (Graduate Sch. of Eng., Kyushu Univ.) TOGANO, Motoki
- 4E3-11*** Synthesis and Supramolecular Assembly of Novel Amphiphilic β -Alkylporphyrin Complexes (SOKENDAI; IMS; JST, PRESTO) ODA, Masafumi; ISHIZUKA, Tomoya; JIANG, Donglin
- 4E3-13** Synthesis and reaction of octaalkyltetraphenylporphyrins bearing 16 π skeleton (Graduate School, Hiroshima Univ.) HIRATA, Yusuke; YAMAGUCHI, Torahiko; MATSUKAWA, Shiro; YAMAMOTO, Yohsuke

Chair: ISHIZUKA, Tomoya (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(4E3-15, 4E3-17, 4E3-19)

- 4E3-15*** Synthesis and Properties of Insulated Porphyrin Tapes (Graduate School of Science, Kyoto Univ.; Institute for Molecular Science) IKEDA, Toshiaki; FURUKAWA, Ko; ARATANI, Naoki; OSUKA, Atsuhiko
- 4E3-17*** Synthesis, structures, and intrinsic properties of cage-type subporphyrins (Graduate School of Science, Kyoto Univ.) INOKUMA, Yasuhide; OSUKA, Atsuhiko
- 4E3-19*** Metallation and Axial Ligation Switch Electronic Communication between Triarylamine Sites and Fluorescence in meso-Diarylaminoporphyrins (Tokyo Univ. of Science) SAKAMOTO, Ryota; SASAKI, Taishiro; HONDA, Norikazu; YAMAMURA, Takeshi

Room E4

Bldg.9 935

Physical Chemistry -Structure-

Friday, March 27, PM

crystal structure

Chair: SEKINE, Akiko (13:00~13:30)

* 12:50-13:00: interval for laptop PC connection.(1E4-25, 1E4-26, 1E4-27, 1E4-28, 1E4-29)

- 1E4-25** Thermal stability of charge-control agents based on the quaternary ammonium salts as viewed from the crystal structure, part I (Graduate School of Eng., Yokohama National Univ.; Orient Chemical Industries, LTD.) UTA, Kazuya; SATO, Yohei; YAMATE, Osamu; MIZUGUCHI, Jin
- 1E4-26** Thermal stability of charge-control agents based on the quaternary ammonium salts, part II (Graduate School of Eng., Yokohama National Univ.; Orient Chemical Industries, Ltd) SATO, Yohei; UTA, Kazuya; YAMATE, Osamu; MIZUGUCHI, Jin

- 1E4-27** The thermal stability of the Al-Complex with Salicylic Acid Derivatives from a standpoint of the crystal structure and its charge control characteristic (Graduate School of Eng., Yokohama National Univ.; Orient Chemical Industries, LTD.) KAMEI, Yuya; YAMATE, Osamu; MIZUGUCHI, Jin

Chair: MIZUGUCHI, Jin (13:30~13:50)

- 1E4-28** Structure analysis of ethoxzolamide by powder diffraction method. (Tokyo Inst. of Tech.) AOKI, Masahide; UEKUSA, Hidehiro; ITODA, Naoko; YONEMOCHI, Etsuo; TERADA, Katsuhide
- 1E4-29** Crystal Structures of Photochromic Indandione Derivatives (Tokyo Institute of Technology; Kansai Univ.) SEKINE, Akiko; KARAKANE, Yuji; UEKUSA, Hidehiro; YOKOYAMA, Masashi; NAKAI, Yuki; TANAKA, Koichi

Chair: UEKUSA, Hidehiro (14:00~14:50)

* 13:50-14:00: interval for laptop PC connection.(1E4-31, 1E4-32, 1E4-34)

- 1E4-31** Crystal structure of a phenolic developer for black leuco dyes (Graduate School of Eng., Yokohama National Univ.) SHIMA, Hideki; SATO, Kazuyuki; MIZUGUCHI, Jin
- 1E4-32*** Polymorph of the 1:1 complex of rhodamine B base with ethyl gallate (Graduate School of Eng., Yokohama National Univ.) MIZUGUCHI, Jin
- 1E4-34*** Electronic structure of the 1:1 complex of rhodamine B base with ethyl gallate (Graduate School of Eng., Yokohama National Univ.) SATO, Kazuyuki; SHIMA, Hideki; MIZUGUCHI, Jin

theory

Chair: KITAGAWA, Yasutaka (15:00~16:10)

* 14:50-15:00: interval for laptop PC connection.(1E4-37, 1E4-38, 1E4-39, 1E4-40, 1E4-42)

- 1E4-37** MO Theoretical Approach to Mechanism of Color Sensitization of J-Aggregates. Geometrical Optimization of Dimer and Trimer of Squarylium-dye. (Computer-Aided-Chemistry Laboratory) SUZUKI, Satoshi
- 1E4-38** Theoretical study on the two photon absorption of diradical molecular systems (Osaka Univ.) YONEDA, Kyohei; KISHI, Ryohei; TAKAHASHI, Hideaki; NAKANO, Masayoshi
- 1E4-39** Theoretical study on the third-order nonlinear optical properties of open-shell singlet slipped-stack dimers composed of *o*-semiquinonato nickel complexes (Osaka Univ.) FUKUI, Hitoshi; NAGAI, Hiroshi; YONEDA, Kyohei; MINAMI, Takuya; KISHI, Ryohei; TAKAHASHI, Hideaki; NAKANO, Masayoshi
- 1E4-40*** Theoretical study on the spin polarization and third-order nonlinear optical properties of open-shell singlet nanographenes (Osaka Univ.) NAKANO, Masayoshi; NAGAI, Hiroshi; FUKUI, Hitoshi; MINAMI, Takuya; YONEDA, Kyohei; KISHI, Ryohei; TAKAHASHI, Hideaki; KUBO, Takashi; KAMADA, Kenji; OHTA, Koji; CHAMPAGNE, Benoit; BOTEK, Edith
- 1E4-42*** Theoretical study on exciton recurrence motion of anthracene dimer model using a dynamic exciton expression based on the ab initio MO-CI method (Osaka Univ.) KISHI, Ryohei; NAKANO, Masayoshi; MINAMI, Takuya; FUKUI, Hitoshi; NAGAI, Hiroshi; YONEDA, Kyohei; TAKAHASHI, Hideaki

spectroscopy

Chair: FUKUSHIMA, Masaru (16:20~17:10)

* 16:10-16:20: interval for laptop PC connection.(1E4-45, 1E4-46, 1E4-48)

- 1E4-45** Methyl Internal Rotation and Photo-Claisen Reaction of Jet-Cooled Allyl *p*-Tolyl Ether (Tokyo Institute of Technology) SAWAKI, Taro; ISOZAKI, Tasuku; SUZUKI, Tadashi; ICHIMURA, Teijiro
- 1E4-46*†** Excited State Characteristics of 6-Azauracil in Acetonitrile (Department of Chemistry and Materials Science, Tokyo Institute of Technology, Ichimura-Suzuki lab) KOBAYASHI, Takashi; SUZUKI, Tadashi; ICHIMURA, Teijiro
- 1E4-48*†** Ultrahigh-Resolution Laser Spectroscopy of Thioanisole (Dep. of Chem. and Mater. Sci., Tokyo Tech) NAGASAKA, Mariko; SUZUKI, Tadashi; ICHIMURA, Teijiro; BABA, Masaaki; KASAHARA, Shunji; KAWAUCHI, Susumu

spectroscopy

Chair: SUZUKI, Tadashi (17:20~18:00)

* 17:10-17:20: interval for laptop PC connection.(1E4-51, 1E4-52, 1E4-53, 1E4-54)

- 1E4-51** Jet Spectroscopy of Metal Containing Free Radicals (Faculty of Information Sciences; Hiroshima City Univ.) FUKUSHIMA, Masaru; ISHIWATA, Takashi
- 1E4-52** Study on Vacuum-Ultraviolet Circular Dichroism of Sugars by Time-Dependent Density Functional Theory (Graduate School of Science, Hiroshima Univ.) MATSUO, Koichi; GEKKO, Kunihiko
- 1E4-53** Frontier electronic structure in an evaporated thin film of bis(catecholate)diboron (BCD) (Institute for Chemical Research, Kyoto Univ.) UCHINO, Yosuke; YOSHIDA, Hiroyuki; MURDEY, Richard; SATO, Naoki

1E4-54 Study of local valence state by measuring site selected Auger-photoelectron spectra of $\text{Si}_3\text{N}_4/\text{Si}(111)8^*8$ surface with Auger-photoelectron coincidence spectroscopy. (KEK-PF) TAHARA, Masashi; KAKIUCHI, Takuhiro; YAMAZAKI, Takahiko; HASHIMOTO, Shogo; TANAKA, Masatoshi; MASE, Kazuhiko; NAGAOKA, Shin-ichi

Saturday, March 28, AM

surface, interface

Chair: MASUDA, Shigeru (9:10~10:00)

- * 9:00-9:10: interval for laptop PC connection.(2E4-02, 2E4-03, 2E4-04, 2E4-05, 2E4-06)
- 2E4-02** An structural analysis of simple molecules on the titanium modified Ag(100) (Rikkyo Univ.) IMAMURA, Kenji; EDAMOTO, Kazuyuki
- 2E4-03** Observation of thiophene and 2,2'-bithiophene adsorbed on Ag surface using 2D-metastable impact electron spectroscopy (Graduate School of Science, Tohoku Univ.) KUDO, Sho; KISHIMOTO, Naoki; OHNO, Koichi
- 2E4-04** Two-dimensional metastable impact electron spectroscopy of conjugated vinyl compounds adsorbed on Ag substrate (Tohoku Univ.) OGI, Yuusuke; KISHIMOTO, Naoki; OHNO, Kohichi
- 2E4-05** Study on stereodynamics of ionization of azines adsorbed on a metal surface by two-dimensional metastable impact electron spectroscopy (Department of Chemistry, Faculty of Science, Tohoku Univ., Laboratory of Quantum Physical Chemistry) KUDO, Yasuhiko; KISHIMOTO, Naoki; OHNO, Koichi
- 2E4-06** Hydrogen-Adsorption-Induced Metallization of the ZnO Surface. (Tokyo Institute of Technology; Rikkyo Univ.; KEK) OZAWA, Kenichi; EDAMOTO, Kazuyuki; MASE, Kazuhiko

Chair: OZAWA, Kenichi (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(2E4-08, 2E4-09, 2E4-10, 2E4-12)
- 2E4-08** Resonances in two photon photoemission for lead phthalocyanine film on graphite (Graduate school of Science, Osaka Univ.) SHIBUTA, Masahiro; YAMAMOTO, Kenta; YAMADA, Takashi; MIYAKUBO, Keisuke; MUNAKATA, Toshiaki
- 2E4-09** Two-photon photoemission microspectroscopy for PbPc and CuPc films on HOPG substrate (Graduate School of Science Osaka Univ.) YAMAMOTO, Ryota; SHIBUTA, Masahiro; TAKANO, Yasuhiro; AMI, Youhei; YAMADA, Takashi; MIYAKUBO, Keisuke; MUNAKATA, Toshiaki
- 2E4-10*** Formation of gap states and energy level alignment in organic-metal systems (Univ. of Tokyo; Tsukuba Univ.) AOKI, Masaru; TOYOSHIMA, Susumu; KAMADA, Toyohiro; SOGO, Mauo; MASUDA, Shigeru; SAKURAI, Takeaki; AKIMOTO, Katsuhiro
- 2E4-12*** Atomic diffusion and valence electronic structure for C_{60} -K system (Univ. of Tokyo) SOGO, Mauo; SAKAMOTO, Yuichi; AOKI, Masaru; MASUDA, Shigeru

Chair: NAKAI, Ikuyo (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(2E4-15, 2E4-16, 2E4-17, 2E4-18, 2E4-19, 2E4-20)
- 2E4-15** Desorption of compound of alkene and alkyne from adsorbed methane by ion irradiation (Japan Atomic Energy Agency) NARITA, Ayumi; BABA, Yuji; SEKIGUCHI, Tetsuhiro; SHIMOYAMA, Iwao; HONDA, Mitsunori; HIRAO, Norie; YAITA, Tsuyoshi
- 2E4-16** Adsorbed Oxygen of Ag (111) Induced in the Presence of Oxygen -Investigation by NEXAFS- (Keio Univ. .KEK) HARADA, Taiga; ABE, Hitoshi; KOUDA, Ryu; NORITAKE, Hiroyuki; BANNO, Atsushi; KOUSA, Yuka; YAMANAKA, Yasuhiro; AMEMIYA, Kenta; KONDOH, Hiroshi
- 2E4-17** Cleavage Reaction of Thiophene on Surfaces of Gold Single Crystal (Univ. of Tokyo; Keio Univ.; KEK-PF) NORITAKE, Hiroyuki; KONDOH, Hiroshi; KOHDA, Ryu; BANNO, Atsushi; HASEGAWA, Makoto; SAKO, Erika; AMEMIYA, Kenta; NAKAMURA, Tohru; IWASAWA, Yasuhiro
- 2E4-18** Substrate Dependence of Charge Transfer Rate from Methyl Thiolate Molecules on Metal Single Crystal to Substrate (Keio Univ. KEK-PF) YAMANAKA, Yasuhiro; ABE, Hitoshi; KOHDA, Ryu; NORITAKE, Hiroyuki; BANNO, Atsushi; KOUSA, Yuka; HARADA, Taiga; AMEMIYA, Kenta; KONDOH, Hiroshi
- 2E4-19** C K-NEXAFS study of n-alkane films on graphite (0001) (Tokyo Univ. of Agriculture and Technology, KEK-PF) ENDO, Osamu; SUMII, Ryohei; AMEMIYA, Kenta; OZAKI, Hiroyuki
- 2E4-20** Structural Analysis on Group 5, 6, 7 Metal Compounds with XANES Spectra (Kyoto Univ.) ASAKURA, Hiroyuki; SHISHIDO, Tetsuya; YAMAZOE, Seiji; TERAMURA, Kentaro; TANAKA, Tsunehiro

Saturday, March 28, PM

Chair: MIYAMAE, Takayuki (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(2E4-28, 2E4-29, 2E4-30, 2E4-31, 2E4-32, 2E4-33)
- 2E4-28** Interface interaction between carbon and platinum particle ofHOPG

supported Pt particles model catalyst (Univ. of Tsukuba) SUZUKI, Tetsuya; WATAHIKI, Kenji; IWASAKI, Yousuke; MATSUSHIMA, Tatsuo; KONDO, Takahiro; NAKAMURA, Junji

- 2E4-29** The relationship between CO adsorption properties and the morphology of Pt particles supported on a HOPG surface (Pure and Applied Sci., Univ of Tsukuba) HATAKE, Daigo; OH, June Pyo; MATSUSHIMA, Tatsuo; KONDOU, Takahiro; NAKAMURA, Junji
- 2E4-30** Characterization of thermo-sensitive polymer bysum frequency generation spectroscopy (Graduate School of Science, Hokkaido Univ.) WAKI, Yusuke; NOGUUCHI, Hidenori; UOSAKI, Kohei
- 2E4-31[†]** SFG measurements of water molecules at Nafion/water vapor interface under various relative humidity (Graduate School of Science, Hokkaido Univ.) TANEDA, Kento; NOGUUCHI, Hidenori; MINOWA, Hiroshi; NAOHARA, Hideo; UOSAKI, Kohei
- 2E4-32** In situ characterization of CO oxidation reaction at Pt(111)/alkaline solution interface using broad band sum frequency generation spectroscopy (Hokkaido Univ.) NOGUUCHI, Hidenori; ISHIMARU, Tsuyoshi; UOSAKI, Kohei
- 2E4-33** Study on Biomolecular Function and Structure of Calmodulin Immobilized on Au Substrate by Infrared Absorption Spectroscopy (Hokkaido Univ.) NOGUUCHI, Hidenori; ADACHI, Tatsuhiko; NAKATOMI, Akiko; YAZAWA, Michio; UOSAKI, Kohei

Chair: NOGUUCHI, Hidenori (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(2E4-35, 2E4-36, 2E4-37, 2E4-38, 2E4-39, 2E4-40)
- 2E4-35** Role of surface modifications with Cr_2O_3 layer on noble-metal cocatalysts in the enhancements for photocatalytic overall water splitting (Univ. Tokyo, Department of Chemical System Engineering) YOSHIDA, Masaaki; TAKANABE, Kazuhiro; MAEDA, Kazuhiko; KUBOTA, Jun; DOMEN, Kazunari
- 2E4-36** Two-color sum-frequency generation study of Alq3/metal interfaces (AIST) MIYAMAE, Takayuki
- 2E4-37** Observation of semiconductor/dielectric interface of organic field effect transistors by sum frequency generation spectroscopy (Kyoto Univ., IMS) TACHIOKA, Masaaki; NAKAI, Ikuyo; UEDA, Tadashi; WATANABE, Kazuya; MATSUMOTO, Yoshiyasu
- 2E4-38** Visible-infrared sum frequency generation on gold surface with hole array structure (Kyoto Univ.) ETO, Jyunji; WATANABE, Kazuya; NAKAI, Ikuyo; MATSUMOTO, Yoshiyasu
- 2E4-39** Fine structure of softened C-H stretching mode of cyclohexane on Rh (111) (The Institute for Solid State Physics, The Univ. of Tokyo) KOITAYA, Takanori; BENIYA, Atsushi; MUKAI, Kozo; YOSHIMOTO, Sinya; YOSHINOBU, Jun
- 2E4-40** Decomposition of N_2O on Rh(110) and Pd(112);spatial distribution of desorbing N_2 and orientation of active species (Pure and Applied Sci., Univ of Tsukuba) SAKURAI, Masataka; MATSUSHIMA, Tatsuo; KONDO, Takahiro; NAKAMURA, Junji

Chair: KONDOH, Hiroshi (15:50~17:00)

- * 15:40-15:50: interval for laptop PC connection.(2E4-42, 2E4-44, 2E4-45, 2E4-47)
- 2E4-42*** An examination of recently proposed structural models of $\text{TiO}_2(011)$ (AIST) KUBO, Toshitaka; ORITA, Hideo; NOZOYE, Hisakazu
- 2E4-44** Reinvestigation of surface structures of $\text{SrTiO}_3(001)$ by GGA+U-DFT (AIST) ORITA, Hideo; KUBO, Toshitaka
- 2E4-45*** Adsorption of water and growth process of ice on Rh(111) (Univ. of Tokyo, ISSP) SAKAGUCHI, Yuji; BENIYA, Atsushi; YOSHIMOTO, Shinya; MUKAI, Kozo; YOSHINOBU, Jun
- 2E4-47*** Surface diffusion of hydrogen atoms on metal surface using scanning tunneling microscopy (Tohoku Univ.; RIKEN) KATANO, Satoshi; KIM, Yousoo; KAWAI, Maki

Sunday, March 29, AM

IR/Raman spectroscopy

Chair: IWATA, Koichi (9:00~9:50)

- * 8:50-9:00: interval for laptop PC connection.(3E4-01, 3E4-02, 3E4-03, 3E4-04, 3E4-05)
- 3E4-01** Photoreaction of Hydroquinone-water complex in low-temperature matrix (Tokyo Tech.) AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko
- 3E4-02** Photochemistry of bis(cyclopentadienyl)dicarbonyl titanium isolated in low-temperature matrices (Tokyo Univ. of Science) MANDA, Hiroshi; YAMADA, Yasuhiro
- 3E4-03** Infrared matrix-isolation spectroscopy of CF_2HCl dimer: observation in N_2 matrix (National Institute of Advanced Industrial Science and Technology(AIST)) ITO, Fumiyuki
- 3E4-04** Local mode analysis applied to N-H overtone in liquid aniline (Kwansei Gakuin Univ.) MORISAWA, Yusuke; NOMURA, Satoshi; OZAKI, Yukihiko
- 3E4-05** Measurements and Analyses of Infrared Absorption Spectra of Radical Anion, Dianion, and Tetraanion of 9,9'-Bianthryl (Graduate School of Science and Engineering, Saitama Univ.) TAKAHASHI, Yasuhiro;

SAKAMOTO, Akira

Chair: OZAKI, Yukihiro (10:00~10:50)

- * 9:50-10:00: interval for laptop PC connection.(3E4-07, 3E4-08, 3E4-09, 3E4-10, 3E4-11)
- 3E4-07** Infrared Spectrum of Nitro(5,10,15,20-tetraphenylporphyrinato)(4-methylpyridine)cobalt(III) (report 3) YAMAMOTO, Kenichi
- 3E4-08** Gas phase spectroscopy of jet cooled synephrine vaporized by the laser desorption technique -structural assignments of stable conformers based on ultraviolet and IR spectra. (Tokyo Institute Of Technology Chemical Resources Laboratory) ASAKAWA, Toshiro; MITSUDA, Haruhiko; MIYAZAKI, Mitsuhiro; ISHIIUCHI, Shunichi; IWAHASHI, Makio; FUJII, Masaaki
- 3E4-09** Structure and dynamics of the hydration shell on hydrophobic ions at the electrochemical interfaces (Catalysis research Center, Hokkaido Univ.) YAMAKATA, Akira; OSAWA, Masatoshi
- 3E4-10** Structural study of zinc phthalocyanine films doped with F4-TCNQ (Waseda Univ., School of Advanced Science and Engineering) YOSHII, Hiroaki; HOSOI, Yosinobu; FURUKAWA, Yukio
- 3E4-11** evaluation and control of molecular orientation at a single SERS active site (Hokkaido Univ.) TAKASE, Mai; NAGASAWA, Fumika; NABIKI, Hdeki; MURAKOSHI, Kei

Chair: SAKAMOTO, Akira (11:00~11:50)

- * 10:50-11:00: interval for laptop PC connection.(3E4-13, 3E4-15, 3E4-16, 3E4-17)
- 3E4-13*** Molecular near-field effect in resonance hyper-Raman scattering: direct observation of proximate solvent molecules (Dept. of Chemistry, The Univ. of Tokyo) SHIMADA, Rintaro; KANO, Hideaki; HAMAGUCHI, Hiro-o
- 3E4-15** Electromagnetic study of multiple-angle incidence resolution spectroscopy (Tokyo Institute of Technology) ITOH, Yuki; HASEGAWA, Takeshi; KASUYA, Akiyoshi
- 3E4-16** Infrared External-Reflection Study on Surface Molecular Structure of a PMMA Substrate (Tokyo Institute of Technology, JST PRESTO) DANG, Fuquan; HASEGAWA, Takeshi; BIJU, Vasudevanpillai; ISHIKAWA, Mitsuru; KAJI, Noritada; YASUI, Takao; BABA, Yoshinobu
- 3E4-17** Construction of a Raman optical activity spectrometer based on the concept of virtual enantiomer (Osaka Univ.) YAMAMOTO, Shigeki; WATARAI, Hitoshi

Sunday, March 29, PM

MW/THz spectroscopy

Chair: ITO, Fumiyouki (13:00~13:50)

- * 12:50-13:00: interval for laptop PC connection.(3E4-25, 3E4-26, 3E4-27, 3E4-28)
- 3E4-25** erahertz reflection response measurement using a phonon polariton wave (Chuo Univ.; Faculty of Science and Technology; Department of Applied Chemistry) INOUE, Hayato; KATAYAMA, Kenji; QING, Shen; TOYODA, Taro; NELSON, Keith
- 3E4-26** Fourier transform microwave spectrum of isobutanol (Kanagawa Inst. Tech. and Grad. Univ. Adv. Studies) UZUYAMA, Taigo; KAWASHIMA, Yoshiyuki; HIROTA, Eizi
- 3E4-27** Fourier transform microwave spectrum of CO₂-Ethylene oxide complex (Kanagawa Inst. Tech. and Grad. Univ. Adv. Studies) ORITA, Yukari; KAWASHIMA, Yoshiyuki; HIROTA, Eizi
- 3E4-28*** The Effect of Deuterium Substitution in the Amino (Imino)Group on the Dynamical Molecular Structure of Peptide Molecules:Acetamide (Grad. Univ. Adv. Studies; Kanagawa Inst. Tech.) HIROTA, Eizi; KAWASHIMA, Yoshiyuki; USAMI, Tsuyoshi; SETO, Kouichi

Time-resolved IR spectroscopy

Chair: SAKAI, Makoto (14:00~14:40)

- * 13:50-14:00: interval for laptop PC connection.(3E4-31, 3E4-32, 3E4-33)
- 3E4-31** Picosecond Time-Resolved Infrared Absorption Study on Photoexcited Dynamics of Regioregular Poly(3-hexylthiophene) (Graduate School of Science and Engineering, Saitama Univ.) TAKEZAWA, Masato; SAKAMOTO, Akira
- 3E4-32** Observation of intramolecular charge transfer reaction in 9,9'-bianthryl by femtosecond time-resolved IR spectroscopy (Univ. of Tokyo; Univ. of Nottingham) ASAMI, Nobuyuki; SUN, Xue-zhong; GEORGE, Michael W.; TAKAYA, Tomohisa; HAMAGUCHI, Hiro-o; IWATA, Koichi
- 3E4-33*** Ultrafast Dynamics of Aromatic Molecular Liquids (Chiba Univ.) SHIROTA, Hideaki; FUJISAWA, Tomotsumi; FUKAZAWA, Hiroki; NISHIKAWA, Keiko

Vibrational spectroscopy of biomolecules

Chair: TORII, Hajime (14:50~15:50)

- * 14:40-14:50: interval for laptop PC connection.(3E4-36, 3E4-37, 3E4-38, 3E4-39, 3E4-41)
- 3E4-36** Assignment of the oxygen-isotope-sensitive Resonance Raman band at

- 356cm⁻¹ of the cytochrome *c* oxidase P-intermediate (U. Hyogo, Grad. Sch. Life. Sci.) IKEMURA, Kenichiro; KUBO, Minoru; SHIMADA, Hideo; ITOH-SHINZAWA, Kyoko; YOSHIKAWA, Shinya; OGURA, Takashi
- 3E4-37** Red-Excited Resonance Raman Study on the n_{Fe=O} mode of the Ferryl-Oxo Hemoproteins (Univ. of Hyogo, Grad. Schl., Life Sci.) IKEMURA, Kenichiro; MUKAI, Masahiro; SHIMADA, Hideo; TSUKIHARA, Tomitake; YAMAGUCHI, Satoru; SHINZAWA-ITOH, Kyoko; YOSHIKAWA, Shinya; OGURA, Takashi
- 3E4-38** Time-resolved Resonance Raman Study on Structural Relaxation Process of Cytochrome *c* Oxidase Following Photodissociation of Carbonmonoxide (Univ. of Hyogo, Grad. Sch. Life Sci.) ISHIGAMI, Izumi; NAKASHIMA, Satoru; SHINZAWA-ITOH, Kyoko; YOSHIKAWA, Shinya; OGURA, Takashi
- 3E4-39*** Development of 1064 nm excited multichannel Raman microspectroscopic system and its application to *in vivo* measurements of biological samples (The Univ. of Tokyo) ANDO, Masahiro; HAMAGUCHI, Hiro-o
- 3E4-41** CARS spectroscopic imaging of living cells-Real-time pursuit of micro lipid droplets during lipolysis- (Dept. of Chemistry, The Univ. of Tokyo) KANO, Hideaki; HASHIMOTO, Takeshi; OSUMI, Takashi; HAMAGUCHI, Hiro-o

Chair: KANO, Hideaki (16:00~16:40)

- * 15:50-16:00: interval for laptop PC connection.(3E4-43, 3E4-44, 3E4-45, 3E4-46)
- 3E4-43** Protein dynamics of HemAT upon oxygen dissociation as revealed by time-resolved resonance Raman spectroscopy (Osaka Univ.) YOSHIDA, Yuu; ISHIKAWA, Haruto; AONO, Shigetoshi; MIZUTANI, Yasuhisa
- 3E4-44** Theoretical Calculations and Band-Shape Analysis of the One- and Two-Dimensional Vibrational Spectra of β -Hairpin Peptide Chains (Shizuoka Univ.) TORII, Hajime
- 3E4-45** Development of vibrational resonant SFG detected IR super-resolution microscopy and IR imaging of cultured cell (Chmical-Resources Laboratory, Tokyo Institute of Technology) KOGURE, Satoshi; INOUE, Keiichi; UEHARA, Ken; OHMORI, Tsutomu; ISHIHARA, Miya; KIKUCHI, Makoto; FULII, Masaaki; SAKAI, Makoto
- 3E4-46** Microscope FT-IR Study on Molecular Structure of Spider Capture Thread (Nagoya City Univ.) KAKEHI, Masahide; KATAYAMA, Norihisa; MIYAZAWA, Mitsuhiro

Surface-enhanced Raman scattering

Chair: HASEGAWA, Takeshi (16:50~17:50)

- * 16:40-16:50: interval for laptop PC connection.(3E4-48, 3E4-50, 3E4-52, 3E4-53)
- 3E4-48*** Quantitative evaluation of electromagnetic theory by measuring surface-plasmon resonance and surface-enhanced resonance Raman scattering, nanostructure of single silver nanoaggregates (National Institute of Advanced Industrial Science and Technology Health Technology Research Center) YOSHIDA, Kenichi; ITOH, Tamitake; BIJU, Vasudevanpillai; ISHIKAWA, Mitsuru; OZAKI, Yukihiro
- 3E4-50*** Surface-Enhanced Raman Scattering by Nanogap Gold Structures (RIES, Hokkaido Univ.; PRESTO-JST) YOKOTA, Yukie; UENO, Kosei; MIZEIKIS, Vygantas; JUODKAZIS, Saulius; MISAWA, Hiroaki
- 3E4-52** Study on mechanism of blinking phenomenon in Surface-enhanced Raman scattering (Kwansei Gakuin Univ.; AIST) TANAKA, Yuhei; KITAHAMA, Yasutaka; ITOH, Tamitake; OZAKI, Yukihiro
- 3E4-53** Fabrication of silver nano-particle on SNOM probe (Kwansei Gakuin Univ.; AIST; Horiba Ltd) KITAHAMA, Yasutaka; ITOH, Tamitake; AOYAMA, Junichi; NISHIKATA, Kentaro; OZAKI, Yukihiro

Monday, March 30, AM

ESR

Chair: TAJIMA, Kunihiko (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(4E4-01, 4E4-02, 4E4-03, 4E4-04, 4E4-05, 4E4-06)
- 4E4-01** Electronic and molecular structures of diphenyl nitroxide derivatives as studied by single-crystal ENDOR: Construction of a three-qubit system as models for molecular spin-bus QC (Osaka City Univ.; Kinki Univ.; Osaka Univ.; Osaka Univ.; CREST, JST) YOSHINO, Tomohiro; NISHIDA, Shinsuke; NAKAZAWA, Shigeaki; SATO, Kazunobu; RAHIMO, Robabeh; TOYOTA, Kazuo; SHIOMI, Daisuke; MORITA, Yasushi; KITAGAWA, Masahiro; TAKUI, Takeji
- 4E4-02** Syntheses and search for electron-qubit molecules magnetically diluted in single crystals: g-Engineering for QC molecular spins (Osaka City Univ.; Osaka Univ.; JST) ISE, Tomoaki; NAKAZAWA, Shigeaki; YOSHINO, Tomohiro; MORI, Nobuyuki; NISHIDA, Shinsuke; SATO, Kazunobu; TOYOTA, Kazuo; SHIOMI, Daisuke; MORITA, Yasushi; KITAGAWA, Masahiro; TAKUI, Takeji
- 4E4-03** 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; NAKAZAWA, Shigeaki; MORITA, Yasushi;

TOYOTA, Kazuo; SHIOMI, Daisuke; KITAGAWA, Masahiro; TAKUI, Takeji

4E4-04 Two-dimensional FT-ESR Spectrum of a Weakly Exchange-Coupled Biradical Qubit in Solution (Graduate School of Science, Osaka City Univ.; Graduate School of Science, Osaka Univ.; Graduate School of Engineering Science, Osaka Univ.; JST-CREST) SATO, Kazunobu; AYABE, Kazuki; ISE, Tomoaki; NAKAZAWA, Shigeaki; MORITA, Yasushi; TOYOTA, Kazuo; SHIOMI, Daisuke; KITAGAWA, Masahiro; TAKUI, Takeji

4E4-05 Photo-Excited Quartet State of Stable π -Radical Covalently Linked to Electron Acceptor as a Functionality Group (1) (Osaka City Univ.) TANAKA, Tomoki; TEKI, Yoshio; TAKEUCHI, Jun; MIURA, Yoza

4E4-06 Photo-Excited Quartet State of Stable π -Radical Covalently Linked to Electron Acceptor as a Functionality Group (1) (Osaka City Univ.) TAKEMOTO, Yohei; TEKI, Yoshio

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

* 10:00-10:10: interval for laptop PC connection.(4E4-08, 4E4-09, 4E4-10, 4E4-11, 4E4-12, 4E4-13)

4E4-08 ESR study on photo-oxidation of disulfide-linkage of α -keratin involed in human hair (Kyoto Institute of Technology) TAJIMA, Kunihiko; SAKURAI, Yasuhiro; YANAGI, Naoki; SUZUKI, Saori; KANAORI, Kenji

NMR

4E4-09 Magnetic property of Copper(II) complexes with 1,2,4-triazolate as ligand studied by solid-state NMR (Graduate School of Science, Hokkaido Univ.) YAMADA, Tetsuya; MARUTA, Goro; TAKEDA, Sadamu

4E4-10 Solid NMR study of hydrated water dynamics and structure in lysozyme crystal (Department of Chemistry, Graduate School of Natural Science and Technology, Kanazawa Univ.) ARAYA, Takashi; MIYATOU, Tatsuya; MIZUNO, Motohiro

4E4-11 Bonding states of phosphonate groups in hybrid materials composed of alkylphosphonic acid and oxide nanoparticles studied by ^{31}P CP MAS NMR (National Institute of Advanced Industrial Science and Technology (AIST)) CHIBA, Ryo; HAYASHI, Shigenobu

4E4-12 ^1H and ^2H MAS NMR spectra of vanadium deuterides (Nat'l Inst. of Adv. Ind. Sci. and Tech. (AIST)) HAYASHI, Shigenobu

4E4-13 ^1H NMR spin-lattice relaxation and proton dynamics in $\beta\text{-C}_3(\text{HSO}_4)_2[\text{H}_{2-x}(\text{S}_x\text{P}_{1-x})\text{O}_4]$ (Chiba Institute of Technology; National Institute of Advanced Industrial Science and Technology (AIST)) OMI, Hironori; HAYASHI, Shigenobu

Room E5

Bldg.9 936

Physical Chemistry -Chemical Kinetics and Dynamics-

Friday, March 27, AM

Chair: SUGAI, Toshiaki (9 : 00 ~9 : 50)

* 8:50-9:00: interval for laptop PC connection.(1E5-01, 1E5-02, 1E5-03, 1E5-04, 1E5-05)

1E5-01 Search for alloy metal clusters which possess catalytic activity to small molecules in gas phase by the combinatorial approach (The Univ. of Tokyo, Graduate School of Arts and Science) FUKUSHIMA, Naoya; MIYAJIMA, Ken; MAFUNE, Fumitaka

1E5-02 Reactions of gold cluster cations with methanethiol (Nanotechnology Research Institute, AIST) MIYAWAKI, Jun; SUGAWARA, Ko-ichi

1E5-03 Photoabsorption spectroscopy of gas-phase cluster ions by photon-trap technique: Direct measurement of extinction of light (Toyota Tech; Genesis Research Inst., Inc.; Tokyo Univ. Sci.) TERASAKI, Akira; KASAI, Chiharu; MAJIMA, Takuya; KONDOW, Tamotsu

1E5-04 Optical absorption spectroscopy of Ag cluster ions stored in a temperature-controlled ion trap (Tokyo Univ. Sci. Genesis Research Inst. Tokyo Tech) KASAI, Chiharu; TERASAKI, Akira; MAJIMA, Takuya; TSUKIYAMA, Koichi; KONDOW, Tamotsu

1E5-05 Observation of the dissociation reactions of moderately excited CsI cluster ions by TOF-SIMS. (RIIF, AIST) NAKANAGA, Taisuke; NAGAI, Hidekazu; SAITO, Naoaki; FUJIWARA, Yukio; NONAKA, Hidehiko

Friday, March 27, PM

Chair: MAFUNE, Fumitaka (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(1E5-23, 1E5-26, 1E5-28)

1E5-23 CSJ Award for Young Chemists Development of Multi-Resonance Laser Spectroscopy for Tracing Reactions and Study of New Reactions in Clusters (Chemical Resources Laboratory, Tokyo Institute of Technology) ISHIUCHI, Shunichi

1E5-26* Vacuum-ultraviolet photoionization induces proton-transfer reaction of formamide-water cluster (Graduate School of Science, Tohoku Univ.)

MATSUDA, Yoshiyuki; MAEDA, Osamu; YAMADA, Ayako; FUJII, Asuka; OHNO, Koichi

1E5-28 Development of a tunable, narrow-bandwidth mid-infrared laser system utilizing ZnGeP₂ and its application to infrared spectroscopy of gas phase clusters (Tokyo Tech) MIYAZAKI, Mitsuhiko; SAIKAWA, Jiro; FUJII, Masaaki; ISHIZUKI, Hideki; TAIRA, Takunori; MITSUDA, Haruhiko; ISHIUCHI, Shun-ichi

Chair: TERASAKI, Akira (13 : 50~14 : 50)

* 13:40-13:50: interval for laptop PC connection.(1E5-30)

1E5-30 CSJ Award for Creative Work Study on Creation of Nano-scale Materials Based on Composite Clusters and Their Electronic Properties (Science and Technology, Keio Univ.) NAKAJIMA, Atsushi

Chair: MATSUDA, Yoshiyuki (15 : 00~15 : 50)

* 14:50-15:00: interval for laptop PC connection.(1E5-37, 1E5-38, 1E5-39, 1E5-40, 1E5-41)

1E5-37 Chemisorption and dehydrogenation of ammonia on cobalt cluster ions: Influence upon their reactivity by introduction of oxygen atoms (Genesis Res. Inst., Inc.) HIRABAYASHI, Shinichi; ICHIHASHI, Masahiko; KONDOW, Tamotsu

1E5-38 UV laser induced reaction dynamics of protein molecule in the gas phase produced by droplet-beam laser ablation (Genesis Research Institute, Inc.; Toyota Technological Institute) KOHNO, Jun-ya; KONDOW, Tamotsu

1E5-39 Withdrawn

1E5-40 Structural Studies on Fullerenes by Ion Mobility Spectroscopy (Department of Chemistry, Toho Univ.) SUGAI, Toshiaki

1E5-41 Size specific catalytic activity and electronic structure of poly(vinylpyrrolidone) stabilized gold clusters (Hokkaido Univ., Catalysis Research Center) TSUNOYAMA, Hironori; ICHIKUNI, Nobuyuki; SAKURAI, Hidehiro; TSUKUDA, Tatsuya

Chair: KISHIMOTO, Naoki (16 : 00~16 : 40)

* 15:50-16:00: interval for laptop PC connection.(1E5-43, 1E5-45)

1E5-43* Production, Selection and Cooling of Multi-element Cluster Ions for Deposition on Solid Surface (Toyota Tech. Inst.; Genesis Res. Inst., Inc.) YASUMATSU, Hisato; FUYUKI, Masanori; HAYAKAWA, Tetsuichiro; KONDOW, Tamotsu

1E5-45* Chemical linking of gas-phase clusters onto chemically-modified organic monolayer surfaces (Keio Univ) NAGAOKA, Shuhei; IKEMOTO, Kaori; HORIUCHI, Kazuki; NAKAJIMA, Atsushi

Chair: TSUKUDA, Tatsuya (16 : 50~17 : 20)

* 16:40-16:50: interval for laptop PC connection.(1E5-48, 1E5-49, 1E5-50)

1E5-48 Infrared-visible Sum Frequency Generation Spectroscopic Study on the Ionic Liquid/Pt Electrode Interface Structures (2) (Nagoya Univ. Chemistry) IWAHASHI, Takashi; INOUE, Souya; ZHOU, Wei; KANAI, Kaname; SEKI, Kazuhiko; MIYAMAE, Takayuki; KIM, Doseok; KATAYAMA, Yasushi; OUCHI, Yukio

1E5-49 X-ray absorption spectra analysis on cathode materials of Mn12 cluster batteries (Nagoya Univ.) YOSHIKAWA, Hirofumi; HAMANAKA, Shun; SHIGEMATSU, Satoshi; AKUTAGAWA, Nao; SATOH, Masaharu; YOKOYAMA, Toshihiko; AWAGA, Kunio

1E5-50 NMR Analysis of Pyrolysis of Monosaccharides (Inst. Chem. Res., Kyoto Univ.) KIMURA, Hiroshi; MATUBAYASI, Nobuyuki; NAKAHARA, Masaru

Chair: OUCHI, Yukio (17 : 30~18 : 00)

* 17:20-17:30: interval for laptop PC connection.(1E5-52, 1E5-53, 1E5-54)

1E5-52 In-situ measurement on potential dependent local structure of redox-active monolayer by frequency-modulation-electrochemical AFM (Osaka Univ.; Tokyo Tech.) UMEDA, Kenichi; FUKUI, Ken-ichi

1E5-53 Electron-transfer behavior of novel tripod molecular tip with the redox-active apex (Osaka Univ.; Tokyo Tech.) MIWA, Takeshi; FUKUI, Ken-ichi

1E5-54 Preparation of Pt-Ru nanoalloy from hetero-binuclear complex leading Pt-Ru electrocatalysts (Devison of Chemistry, Graduate School of Science, Hokkaido Univ.) OKAWA, Yukihisa; UEHARA, Hiromitsu; KATO, Masako; SASAKI, Yoichi; UOSAKI, Kohei

Saturday, March 28, AM

Chair: SHIBUYA, Kazuhiko (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2E5-01, 2E5-02, 2E5-03, 2E5-04)

2E5-01 Fluorescent spherical particle formation from poly(dimethylsilane) by the aid of laser ablation (Graduate School of Advanced Integration Science, Chiba Univ.) AOKI, Yu; MORITA, Hiroshi; TAKAHARA, Shigeru; WAKASA, Masanobu

2E5-02 Photochemical synthesis of ultrafine particles from an organosilicon/Ge/Co gaseous mixture. (Graduate School of Advanced Integration Science, Chiba Univ.) SAKANO, Hiroyuki; MORITA, Hiroshi; TAKAHARA, Shigeru; WAKASA, Masanobu

2E5-03 Study of ion emission from laser-solid target interaction with laser parameters (School of Science, The Univ. of Tokyo) TOTH, Remy; TAKEI,

Takashi; KANYA, Reika; YAMANOUCI, Kaoru

- 2E5-04** Young Scholar Lectures of CSJ Novel Chemical Reactions Induced by Intense Femtosecond Laser Fields (Graduate School of Science, Osaka City Univ.) YATUHASHI, Tomoyuki

Chair: NAKABAYASHI, Takakazu (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2E5-08, 2E5-09, 2E5-10, 2E5-12, 2E5-13)
- 2E5-08** Photoreduction of a lanthanide ion with a femtosecond laser (Osaka city Univ.,Osaka sangyo university) NISHIDA, Daisuke; YAMADE, Eriko; KUSABA, Mitsuhiro; YATSUHASHI, Tomoyuki; NAKASHIMA, Nobuaki
- 2E5-09** Synthesis and photochemistry of ionic liquids underfoing isomerization (Univ. of Tsukuba) TAMURA, Hiroyasu; SHINOHARA, Yoshihiro; ARAI, Tatsuo
- 2E5-10*** Photophysical properties of antimicrobial peptides labeled fluorescent nonnatural amino acid in solution and lipids (Department of Chemistry and Chemical Biology, Gunma Univ.; Graduate School of Medicine and Pharmaceutical Sciences, Okayama Univ.) YOSHIHARA, Toshitada; YAMADA, Keiichi; NAKAJIMA, Hiroaki; MURASE, Tokiko; KATSU, Takashi; TOBITA, Seiji
- 2E5-12** Investigation of light-induced crystallization protocol of protein (Department of Chemistry, Graduated School of Engineering, Gunma Univ.) KUROIWA, Takashi; HIRATSUKA, Hiroshi; OKUTSU, Tetsuo
- 2E5-13** Optical Trapping of Heme Proteins and Amino Acids with a Focused Laser Beam (Hokkaido Univ.) SHOJI, Tatsuya; Tsuboi, Yasuyuki; MASUDA, Seiji; ISHIMORI, Koichiro; KITAMURA, Noboru

Chair: KOUCHI, Noriyuki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2E5-15)
- 2E5-15** CSJ Award for Creative Work Study on Soft X-Ray Chemistry Applied to Control of Chemical Bond Scission (Graduate School of Science, HIROSHIMA UNIV.) TANAKA, Kenichiro

Saturday, March 28, PM

Chair: YOSHIHARA, Toshitada (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2E5-28, 2E5-29, 2E5-31, 2E5-32, 2E5-33)
- 2E5-28** Fluorescence lifetime images of HeLa cells duringapoptosis and cell division (Reserch institute for Electronic Science, Hokkaido Univ.) OSHITA, Shugo; ITO, Toshiyuki; NAKABAYASHI, Takakazu; SUN, Fan; KINJYO, Masataka; OHTA, Nobuhiro
- 2E5-29*** Crowding effect on reaction dynamics of blue light sensor protein phototropin (Univ. of Kyoto;School of science) TOYOOKA, Tsuguyoshi; NAKASONE, Yusuke; ZIKIHARA, Kazunori; TOKUTOMI, Satoru; TERAZIMA, Masahide
- 2E5-31** The photo-induced DNA repair dynamics of photolyase (Kyoto Univ.. Science) KONDOH, Masato; YAMAMOTO, Junpei; HITOMI, Kenichi; IWAI, Shigenori; ELIZABETH, Getzoff; TERAZIMA, Masahide
- 2E5-32** Spatially selective photochemical reaction in optical field enhanced by nanoparticle plasmons (RIES, Hokkaido Univ.,PRESTO-JST) TAKABATAKE, Satoaki; UENO, Kosei; NISHIJIMA, Yoshiaki; MIZEIKIS, Vygtantas; JUODKAZIS, Saulius; MISAWA, Hiroaki
- 2E5-33** Effect of environments on photoluminescence intermittency and surface diffusion of single CdTe quantum dots (Kwansei Gakuin Univ. ; School of Science and Technology) MORI, Tsukasa; UDAGAWA, Takeshi; KOBAYASHI, Yoichi; TAMAI, Naoto

Chair: TERAZIMA, Masahide (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2E5-35, 2E5-37, 2E5-39, 2E5-40)
- 2E5-35*** Photoinduced One-Electron Oxidation of Aromatic Compounds on MOF-5 Nanoparticles (ISIR, Osaka Univ.) TACHIKAWA, Takashi; CHOI, Jun Rye; FUJITSUKA, Mamoru; MAJIMA, Tetsuro
- 2E5-37*** Photoreactivity of As-Fabricated Au Clusters at the Single-Cluster Level (ISIR, Osaka Univ.) SAKAMOTO, Masanori; TACHIKAWA, Takashi; FUJITSUKA, Mamoru; MAJIMA, Tetsuro
- 2E5-39** Microspectroscopic study of electric field response on photoluminescence properties of CdTe nanowires (Kwansei Gakuin Univ. School of Science and Technology) ASANO, Ayako; TAKEUCHI, Akira; PAN, Lingyun; TAMAI, Naoto
- 2E5-40** Size dependent Auger effects of CdTe quantum dots by femtosecond transient absorption spectroscopy (Kwansei Gakuin Univ. ; School of Science and Technology.) KOBAYASHI, Yoichi; TAMAI, Naoto

Chair: MAJIMA, Tetsuro (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2E5-42, 2E5-44, 2E5-46)
- 2E5-42*** Photochemical dynamics of TiO₂ sol measured by near field heterodyne transient grating method (2) (Chuo Univ.; Faculty of Science and Technology; Department of Applied Chemistry) KATAYAMA, Kenji; OKUDA, Mitsuhide; TURUTA, Toru
- 2E5-44*** Formation dynamics of gold nanoparticles monitored with near-field heterodyne transient grating method (Chuo univ.) NAKAZATO, Yuta; TANIGUCHI, Kazuya; EITOKU, Takeshi; KATAYAMA, Kenji
- 2E5-46*** Detection of Molecular Fluctuations in Solution by Lifetime-weighted

Fluorescence Correlation Spectroscopy (RIKEN) ISHII, Kunihiro; TAHARA, Tahei

Sunday, March 29, AM

Chair: YONEMURA, Hiroaki (9 : 00 ~9 : 30)

- * 8:50-9:00: interval for laptop PC connection.(3E5-01, 3E5-02, 3E5-03, 3E5-04, 3E5-05)
- 3E5-01** Surface Energy of Liquid Sphere in Microgravity Space under Magnetic Fields (Hiroshima Univ.; Shinshu Univ.) UEMURA, Masafumi; FUJIWARA, Masao; KATSUKI, Akio
- 3E5-02** Effect of Magnetically Simulated Gravity on Germination and Growth of Daikon Radish (Graduate School of Science, Hiroshima Univ.; Faculty of Science, Hiroshima Univ.) FUJIWARA, Yoshihisa; SANBOH, Masako
- 3E5-03** Magnetic orientation of conjugates of magnetic nanoparticles and bio-nanotube (Univ. of Utsunomiya) OBA, Toru; SUWA, Yoshiyuki; NAGATA, Takuya; ITO, Satoshi; HIRATANI, Kazuhisa

Chair: FUJIWARA, Masao (9 : 30 ~10 : 20)

- 3E5-04** Orientation of Composites between Gold Nanorod and Single-Walled Carbon Nanotube using Strong Magnetic Field (Faculty of Engineering, Kyushu Univ.; Graduate school of Engineering, Kyushu Univ.;Center for Future Creation, Kyushu Univ.; Graduate School of Science, Hiroshima Univ.; Faculty of Pharmacy, Osaka Ohtani Univ.) YONEMURA, Hiroaki; SUYAMA, Junichi; YAMAMOTO, Yuichi; NIDOME, Yasuro; YAMADA, Sunao; FUJIWARA, Yoshihisa; TANIMOTO, Yoshifumi
- 3E5-05** Control of Nanostructures consisting of Conjugated Polymers using Strong Magnetic Field (Faculty of Engineering, Kyushu Univ.; Graduate school of Engineering, Kyushu Univ.;Center for Future Creation, Kyushu Univ.; Graduate School of Science, Hiroshima Univ.;Faculty of Pharmacy, Osaka Ohtani Univ..) YUNO, Koichi; YONEMURA, Hiroaki; YAMAMOTO, Yuichi; YAMADA, Sunao; FUJIWARA, Yoshihisa; TANIMOTO, Yoshifumi
- * 9:50-10:00: interval for laptop PC connection.(3E5-07, 3E5-08, 3E5-09, 3E5-10, 3E5-11)

- 3E5-07** Magnetic Field Effect of Decay Rate in Photogenerated Biradical in Zinc Porphyrin-Viologen Linked Compounds in Various Ionic Liquids-Influence of Ionic Liquids - (Department of Applied Chemistry, Faculty of Engineering, Kyushu Univ.) TAHARA, Hironobu; YONEMURA, Hiroaki; HARADA, Satoko; YAMADA, Sunao
- 3E5-08** Magnetic Field Effects on Photoinduced Electron Transfer Reaction in Rutheniumporphyrine-C₆₀ systems (Faculty of Engineering, Kyushu Univ.; Graduate school of Engineering, Kyushu Univ.;Center for Future Creation, Kyushu Univ.) MOTODA, Yuki; YONEMURA, Hiroaki; YAMADA, Sunao

Chair: KOBORI, Yasuhiro (10 : 20~10 : 50)

- 3E5-09** The magnetic field effects on the photochemical reaction observed in several ionic liquids (Saitama Univ.) YAGO, Tomoaki; HAMASAKI, Atom; WAKASA, Masanobu
- 3E5-10** Magnetic field effects on hydrogen abstraction reactions of benzophenone in ionic liquids (Graduate School of Science & Engineering, Saitama Univ.) OKADA, Tomohide; YAGO, Tomoaki; WAKASA, Masanobu
- 3E5-11** Spin dynamics of the radical pair formed in the photolysis of xanthone at the interface of a bilayer membrane (Shizuoka Univ.) YAMASHITA, Takuya; MURAI, Hisao

Chair: KAWAI, Akio (11 : 00~11 : 30)

- * 10:50-11:00: interval for laptop PC connection.(3E5-13, 3E5-14, 3E5-15, 3E5-16, 3E5-17, 3E5-18)
- 3E5-13** Photovoltaic effect and the spin effect of the Alq₃ organic EL device (Shizuoka Univ.) MARUMO, Sota; HIROOKA, Kenji; MURAI, Hisao
- 3E5-14** Magnetic Fields Effects on the Photoreduction of Tiobenzophenone (Graduate School of Science & Engineering, Saitama Univ.) TANAKA, Miyuki; GHODO, Masao; YAGO, Tomoaki; TAKAMASU, Tadashi; WAKASA, Masanobu
- 3E5-15** Photochemical reaction control by magnetic fields with pulsed microwave in highly viscous alcohols (Graduate School of Science and Engineering, Saitama Univ.) HAYASE, Yuko; GOHDO, Masao; HAMASAKI, Atom; YAGO, Tomoaki; WAKASA, Masanobu

Chair: YAGO, Tomoaki (11 : 30~12 : 00)

- 3E5-16** Reinvestigation of the MFes on photo-Fries rearrangement reaction of 1-naphthyl acetate in solution (Graduate School of Science and Engineering, Saitama Univ., Japan, NIMS) GOHDO, Masao; TAKAMASU, Tadashi; WAKASA, Masanobu
- 3E5-17** Time-resolved EPR measurements on radicals produced by photolysis of oxim ester compounds (Tokyo Institute of Technology) KAWAI, Akio; MIYAKE, Yusuke; IWAMA, Masaki; AKAI, Nobuyuki; SHIBUYA, Kazuhiko; NAKAJIMA, Yasuo; MORISHIMA, Yasumasa; OKADA, Mitsuori
- 3E5-18** The excited triplet state generated by photoinduced charge recombination in the photosynthetic reaction center of the plant photosystem II (Department of Chemistry, Faculty of Science, Shizuoka Univ.) KATAGIRI, Shusuke; KOBORI, Yasuhiro; KONDO, Toru; MINO, Hiroyuki

Asian International Symposium -Physical
Chemistry

Sunday, March 29, PM

Chair: LIU, Kopin (13:00~14:20)

- 3E5-25[#] Invited Lecture** Size-specific reactions of transition metal clusters (Toyota Tech. Inst.) ○ICHIHASHI, Masahiko • KONDOW, Tamotsu
- 3E5-27[#] Invited Lecture** Reaction mechanism duality in $O(^1D_2) + CD_4 \rightarrow OD + CD_3$ identified from scattering distributions of rotationally state selected CD_3 (RIKEN) ○OGI, Yoshihiro • KOHGUCHI, Hiroshi • SUZUKI, Toshinori
- 3E5-29[#] Keynote Lecture** Applications of molecular beam techniques to dynamics of bimolecular reactions and determination of photodissociation cross sections (IAMS) LIN, Jim Jr-Min

Chair: OKAMOTO, Hiromi (14:30~15:50)

- 3E5-34[#] Invited Lecture** Capturing the instantaneous structure of reacting polyatomic molecules by femtosecond time-domain Raman spectroscopy (RIKEN) TAKEUCHI, Satoshi
- 3E5-36[#] Invited Lecture** Vibrational dynamics of small ions in solution probed with ultrafast nonlinear infrared spectroscopy (JST PRESTO; Kobe Univ.) ○OHTA, Kaoru • TOMINAGA, Keisuke
- 3E5-38[#] Keynote Lecture** Structural dynamics in solution probed by transient X-ray liquidography (KAIST) IHÉE, Hyotcherl

Chair: HISHIKAWA, Akiyoshi (16:00~17:20)

- 3E5-43[#] Invited Lecture** Coherent rotational and vibrational dynamics of molecules induced by intense laser fields (IMS) ○HASEGAWA, Hirokazu • OHSHIMA, Yasuhiro
- 3E5-45[#] Invited Lecture** Ultrafast hydrogen migration in methanol and allene in intense laser fields (Univ. of Tokyo) ○OKINO, Tomoya • XU, Huailian • YAMANOUCHI, Kaoru
- 3E5-47[#] Keynote Lecture** The angular distribution of high-order harmonic generation from molecules (Chinese Academy of Sci.) ○LIU, Peng • ZENG, Zhanan • LI, Yuexun • ZHAO, Shitong • LI, Ruxin • XU, Zhizhan

Physical Chemistry -Chemical Kinetics and
Dynamics-

Monday, March 30, AM

Chair: NAGAISHI, Ryuji (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(4E5-01, 4E5-03, 4E5-05)
- 4E5-01*** Slow-releasing long-lived radicals for radiation-induced bystander effect on gene mutation (Nagoya Univ.; Kyoto Univ. Res. React. Inst.) KUMAGAI, Jun; MIURA, Kazuto; MIOKI, Koushi; KASHINO, Genro; WATANABE, Masami
- 4E5-03*** Absence of H-atom recombination in highly purified solid parahydrogen (Nagoya Univ.; JAEA) SHIMIZU, Yuta; SATO, Fumiaki; INAGAKI, Makoto; KUMADA, Takayuki; KUMAGAI, Jun
- 4E5-05*** Water Radiolysis with High-Energy Heavy Ions (Univ. Tokyo, JAEA, NIRS, Univ. Sherbrooke) YAMASHITA, Shinichi; KATSUMURA, Yosuke; MAEYAMA, Takuya; LIN, Mingzhang; MUROYA, Yusa; MURAKAMI, Takeshi; MEESUNGNOEN, Jintana; JAY-GERIN, Jean-paul

Chair: ODAGIRI, Takeshi (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(4E5-08, 4E5-10, 4E5-12)
- 4E5-08[#]** Pulse radiolysis study on the solvated electron in poly-ols (ASRC/JAEA; Univ. of Tokyo) LIN, Mingzhang; KATSUMURA, Yosuke; MUROYA, Yusa; FU, Haiying; YAMASHITA, Shinichi; MOSTAFAVI, Mehran; LAMPRE, Isabelle
- 4E5-10*** High temperature - ultrafast pulse radiolysis (Nuclear Professional School, School of Engineering, Univ. of Tokyo) MUROYA, Yusa; LIN, Mingzhang; HAN, Zhenhui; FU, Haiying; YAMASHITA, Shinichi; SAKUMI, Akira; UEDA, Toru; KATSUMURA, Yosuke
- 4E5-12*** Water Effects on the Solvated Electron in Ammonium Ionic Liquids (The Institute of Scientific and Industrial Research, Osaka Univ.) KONDOH, Takafumi; YANG, Jinfeng; YOSHIDA, Yoichi; NAGAISHI, Ryuji; TAGUCHI, Mitsumasa; TAKAHASHI, Kenji; KATOH, Ryuzi

Chair: MUROYA, Yusa (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(4E5-15, 4E5-17, 4E5-19)
- 4E5-15*** Photobleaching of solvated electron in ionic liquid (Kanazawa Univ.) SUDA, Kayo; TAKAHASHI, Kenji
- 4E5-17*** Photoionization of halogen ions in ionic liquids (AIST) KATOH, Ryuzi
- 4E5-19*** Radiolytic Formation of Solvated Electron and Dimer Radical Anion in Ionic Liquids of Thiocyanate Salts (Japan Atomic Energy Agency; ISIR, Osaka Univ.) NAGAISHI, Ryuji; AOYAGI, Noboru; SHINHA, Yusuke; TAGUCHI, Mitsumasa; KONDOH, Takafumi; YANG, Jinfeng; YOSHIDA, Yoichi

Monday, March 30, PM

Chair: KUDO, Hisaaki (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(4E5-28, 4E5-29, 4E5-31, 4E5-32, 4E5-33)
- 4E5-28** Effects of ion scavenger on electrification of polymers by electron beam irradiation (Graduate School of Engineering, Hokkaido Univ.) MORISHITA, Ryo; KOIZUMI, Hitoshi
- 4E5-29*** Non-contact Quantitative Microwave Detection of Radiation Induced Degradation of Polymers (Fukui Univ. of Technology; Osaka Univ.) SUNAGAWA, Takeyoshi; SAEKI, Akinori; SEKI, Shu
- 4E5-31** Development of function graded fluorinated polymer materials by using EB grafting (RISE, Waseda Univ.) FUJITA, Hajime; SHIRAKI, Fumiya; OSHIMA, Yuji; URAKAWA, Tatsuya; TAKASAWA, Yuya; OSHIMA, Akihiro; WASHIO, Masakazu
- 4E5-32** Surface Morphology of PTFE by Various Plasma Irradiation (RISE, Waseda Univ. ISIR, Osaka Univ.) HIRANO, Yuki; TAKASAWA, Yuya; FUKUTAKE, Naoyuki; URAKAWA, Tatsuya; GOWA, Tomoko; WASHIO, Masakazu; OSHIMA, Akihiro; TAGAWA, Seiichi
- 4E5-33** The evaluation of macro and nanoimprint by the mold of PTFE (RISE, Waseda Univ.) TAKAHASHI, Tomohiro; URAKAWA, Tatsuya; GOWA, Tomoko; HUKUTAKE, Naoyuki; TAKASAWA, Yuya; MIURA, Takaharu; WASHIO, Masakazu

Chair: KOIZUMI, Hitoshi (14:40~15:30)

- * 14:30-14:40: interval for laptop PC connection.(4E5-35, 4E5-37, 4E5-38, 4E5-39)
- 4E5-35*** Dimer radical anion of cyclophanes (ISIR, Osaka Univ.) FUJITSUKA, Mamoru; TOJO, Sachiko; SHINMYOZU, Teruo; MAJIMA, Tetsuro
- 4E5-37** Time profile of radiation grafting onto UHMWPE (Tokyo Met. Ind. Tech. Res. Inst.; Univ. of Tokyo) ENOMOTO, Ichiro; KUDO, Hisaaki; KATSUMURA, Yosuke
- 4E5-38** Sugar Nanowires Prepared by Single Particle Nano-fabrication Technique (Division of Applied Chemistry, Graduate School of Engineering, Osaka Univ.) WATANABE, Shogo; SUGIMOTO, Masaki; TSUKUDA, Satoshi; SEKI, Shu
- 4E5-39[†]** Development of a new method for the cold collision experiment utilizing threshold photoelectrons (Tokyo Tech.; Sophia Univ.; KEK-PF) KUROKAWA, Manabu; KITAJIMA, Masashi; ODAGIRI, Takeshi; KATO, Hidetoshi; KAWAHARA, Hirotomo; HOSHINO, Masamitsu; TANAKA, Hiroshi; ITO, Kenji

Room E6

Bldg.9 937

Physical Chemistry -Chemical Kinetics and
Dynamics-

Friday, March 27, AM

Chair: FUJITSUKA, Mamoru (9:00~9:50)

- * 8:50-9:00: interval for laptop PC connection.(1E6-01, 1E6-03, 1E6-05)
- 1E6-01*** The delocalization of cationic state dynamics of poly(N-vinylcarbazole) system in femtoseconds time region. (Osaka Univ., Graduate School of Engineering Science) KATAYAMA, Tetsuro; ISHIBASHI, Yukihide; MORII, Yuji; MIYASAKA, Hiroshi
- 1E6-03[†]** Construction and Photodynamics of Single-Walled Carbon Nanotube-Based Nanohybrids Wrapped with Quinone Derivatives (Graduate School of Engineering, Osaka Univ.; SORST) OHTANI, Masataka; FUKUZUMI, Shunichi
- 1E6-05** Delocalization dynamics of naphthalene cationic state in Poly(1- or 2-vinyl naphthalene) by NIR femtosecond time-resolved spectroscopy (Osaka Univ., Graduate School of Engineering Science) MORII, Yuji; KATAYAMA, Tetsuro; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi

Friday, March 27, PM

Chair: NAGASAWA, Yutaka (12:30~13:30)

- * 12:20-12:30: interval for laptop PC connection.(1E6-22, 1E6-24, 1E6-26)
- 1E6-22*** Photoinduced Processes in Oligothiophene-Peryleneimide Linked Molecule (ISIR, Osaka Univ.) FUJITSUKA, Mamoru; HARADA, Ken; MAJIMA, Tetsuro
- 1E6-24*** Charge-Transfer Excited State of Directly *meso*-Linked Zinc Porphyrin Heterodimer which is Asymmetrized by Substituents (RCAST, Univ. of Tokyo) NAKAZAKI, Jotaro; KUBO, Takaya; SEGAWA, Hiroshi
- 1E6-26*** Photovoltaic Devices based on the Surface Complexes of TiO₂ with Bis(dicyanomethylene) Compounds (Univ. of Tokyo, RCAST) FUJISAWA, Jun-ichi; NAGATANI, Toshiyuki; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

Chair: YAGO, Tomoaki (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1E6-29, 1E6-31, 1E6-33, 1E6-34)
- 1E6-29^{††}** Interlayer excitation energy transfer in semiconductor quantum dot-porphyrin J aggregates hybrid Langmuir-Blodgett films (RCAST(Research Center for Advanced Science and Technology)The Univ. of Tokyo) WANG, Haibin; NAKAZAKI, Jotaro; KUBO, Takaya; SEGAWA, Hiroshi
- 1E6-31^{††}** Photoelectrochemical Properties of Supramolecular Triad and Tetrad of Fullerene Derivatives with N,N-Dimethylaniline-Flavin Dyad (Osaka Univ.; SORST, JST) MURAKAMI, Motonobu; OHKUBO, Kei; HASOBE, Taku; GULDI, Dirk M.; HIRSCH, Andreas; FUKUZUMI, Shunichi
- 1E6-33[†]** Subphthalocyanines: Versatile Electron-Accepting Building Blocks for Artificial Photosynthetic Systems (Osaka Univ.; SORST,JST) EL-KHOULY, Mohamed; FUKUZUMI, Shunichi
- 1E6-34** Electron Transfer in a Single CdTe Quantum Dot-Pyromellitimide Conjugate Studied by Single-Molecule Fluorescence Spectroscopy (ISIR, Osaka Univ.) TACHIKAWA, Takashi; CUI, Shi-cong; FUJITSUKA, Mamoru; MAJIMA, Tetsuro

Chair: TACHIKAWA, Takashi (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(1E6-36, 1E6-38, 1E6-39, 1E6-41)
- 1E6-36[†]** High time resolution W-band ESR study 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
- 1E6-38** Formation of Long-Lived Charge-Separation of Directly Linked Porphyrin-Fullerene Dyads (Osaka Univ.; SORST (JST); Kyoto Univ.; Nagoya Univ.) OHKUBO, Kei; HIROTO, Satoru; SHINOKUBO, Hiroshi; OSUKA, Atsushi; FUKUZUMI, Shunichi
- 1E6-39[†]** Elongation of Charge-Shifted Lifetime of Zinc Quinoxalino-porphyrin-Gold Quinoxalino-porphyrin Linked Dyad by Binding of Scandium Ion (Osaka Univ.; SORST,JST; Univ. Houston; Univ. Sydney) OHKUBO, Kei; GARCIA, Rachel; KADISH, Karl M.; CROSSLEY, Maxwell J.; FUKUZUMI, Shunichi
- 1E6-41** Charge Transfer of 9,9'-bianthryl in ionic liquids: Solvation dynamics in the CT state. (Division of Frontier Materials Science, Graduate School of Engineering Science, Center for Quantum Science and Technology under Extreme Conditions, Osaka Univ.) NAGASAWA, Yutaka; OISHI, Akito; ITO, Tsuyoshi; YASUDA, Masakazu; ITO, Syoji; MIYASAKA, Hiroshi

Chair: OHKUBO, Kei (16 : 00~16 : 30)

- * 15:50-16:00: interval for laptop PC connection.(1E6-43, 1E6-44, 1E6-45, 1E6-46, 1E6-47)
- 1E6-43** Effects of additions of alcohols on photoinduced intermolecular electron transfer reactions between porphyrin and quinone in benzonitrile solution (Saitama Univ.) YAGO, Tomoaki; GOHDO, Masao; WAKASA, Masanobu
- 1E6-44** Fluorescence behaviors of single charge-transfer complexes in polymer films (Kyoto Inst. Tech) YAMANE, Yasumasa; MASUO, Sadahiro; MACHIDA, Shinjiro; TAKEI, Satoshi; ITAYA, Akira
- 1E6-45** Photo-induced Charge Separation of Diacetylide Platinum Complexes as Photo-sensitizer Linked with Triphenylamine and Naphthalimidide Moieties (Osaka City Univ., Graduate School of Science, and Univ. of Toyama, Graduate School of Science and Engineering, and Osaka Univ., Graduate School of Science, and Institute of Multidisciplinary Research for Advanced Materials, Tohoku Univ.) SUGIMURA, Ryoji; SUZUKI, Shuichi; KOZAKI, Masatoshi; KEYAKI, Kazutoshi; NOZAKI, Koichi; IKEDA, Noriaki; AKIYAMA, Kimio; OKADA, Keiji

Chair: ODAGIRI, Takeshi (16 : 30~17 : 00)

- 1E6-46** Fragmentation Processes of Trifluoroacetonitrile at the N and F K-Edges by an Ion-Ion Coincidence Technique (Hiroshima Univ.; IMS; JASRI/SPRING-8; KEK) IKEMOTO, Mariko; OKADA, Kazumasa; SUEMITSU, Atsushi; TAMENORI, Yusuke; SUZUKI, Isao; TABAYASHI, Kiyohiko
- 1E6-47[†]** Fragmentation Processes of Perfluorocyclobutane at the Carbon K-Edge by an Ion-Ion Coincidence Technique (Hiroshima Univ.; IMS; JASRI/SPRING-8; KEK; Ehime Univ.) OKADA, Kazumasa; TERASHIMA, Taemi; IKEMOTO, Mariko; TAMENORI, Yusuke; SUZUKI, Isao; TABAYASHI, Kiyohiko; NAGAOKA, Shin-ichi

Chair: OKADA, Kazumasa (17 : 10~18 : 10)

- * 17:00-17:10: interval for laptop PC connection.(1E6-50, 1E6-51, 1E6-53, 1E6-54)
- 1E6-50[†]** Kinetic isotope effects in the reactions of deuterated CH₃O radicals with O₂ (National Institute for Environmental Studies) ISOZAKI, Tasuku; IMAMURA, Takashi
- 1E6-51[†]** Symmetry-resolved spectroscopy for doubly excited states of molecular hydrogen (Tokyo Institute of Technology; KEK; AIST) ODAGIRI, Takeshi; KUMAGAI, Yoshiaki; TANABE, Takehiko; NAKANO, Motoyoshi; SUZUKI, Isao H; KOUCHI, Noriyuki
- 1E6-53** Double excitation of methane in angle resolved electron scattering (Dept. of Chem.,Tokyo Inst. of Tech.) YACHI, Kazufumi; ODAGIRI,

Takeshi; ISHIKAWA, Lisa; OHNO, Naruhito; NAKAZATO, Tomoharu; TSUCHIDA, Toshinori; KOUCHI, Noriyuki

- 1E6-54[†]** Dissociative multiple ionization of methanol and ethanol molecules by intense XUV-FEL light (RIKEN Spring-8 center) SATO, Takahiro; IWASAKI, Atsushi; ISHIBASHI, Kazuki; OKINO, Tomoya; YAMANOUCI, Kaoru; YAGISHITA, Akira; YAZAWA, Hironori; KANNARI, Fumihiko; AOYAMA, Makoto; YAMAKAWA, Koichi; MIDORIKAWA, Katsumi; NAKANO, Hidetoshi; YABASHI, Makina; NAGASONO, Mitsuru; HIGASHIYA, Atsusi; ISHIKAWA, Tetsuya

Saturday, March 28, AM

Chair: NAGAI, Hidekazu (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2E6-01, 2E6-02, 2E6-03, 2E6-05)
- 2E6-01** Development of Ion Trap SWIFT Mass-selection Apparatus and Its Application to Dissociation of Molecular Ions in Intense Light Fields (School of Science, Univ. of Tokyo) WATANABE, Yusuke; KANYA, Reika; YAMANOUCI, Kaoru
- 2E6-02** Dissociation dynamics of ionic species generated from cyclohexane in intense laser fields by ion-trap SWIFT mass spectrometry (School of Science, Univ. of Tokyo) KANYA, Reika; GOTOH, Mitsuhiro; WATANABE, Yusuke; YAMANOUCI, Kaoru
- 2E6-03[†]** Mechanism of H₃O⁺ detachment reaction from alcohols induced by intense laser fields (Niigata Univ. of Pharm. & Appl. Life Sci.) SHIROTA, Tatsuro; MANO, Narutoshi; TSUGE, Masashi; HOSHINA, Kennosuke
- 2E6-05[†]** Dissociative ionization of ethanol in intense laser fields by photoelectron-photoion coincidence momentum imaging (JAEA, The Univ. of Tokyo) HOSAKA, Koichi; ITAKURA, Ryuji; YOKOYAMA, Keichi; YAMANOUCI, Kaoru; YOKOYAMA, Atsushi

Chair: HOSHINA, Kennosuke (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2E6-08, 2E6-09, 2E6-10, 2E6-11, 2E6-13)
- 2E6-08** Coulomb explosion processes of methane induced by ultrafast intense laser fields (Univ. of Tokyo) MIURA, Shun; OKINO, Tomoya; YAMANOUCI, Kaoru
- 2E6-09** Hydrogen migration of propyne in intense laser fields (Univ. of Tokyo) WATANABE, Anri; XU, Huailiang; OKINO, Tomoya; YAMANOUCI, Kaoru
- 2E6-10** Dissociation processes of dichloroethylene isomers in intense laser fields (Univ. of Tokyo) IDE, Yoshihiro; OKINO, Tomoya; YAMANOUCI, Kaoru
- 2E6-11[†]** Excimer formation dynamics of benzene dimer probed by ps pump-probe spectroscopy (Tokyo Tech. Chemical Resources Laboratory) MIYAZAKI, Mitsuhiro; SAKAI, Makoto; FUJII, Masaaki
- 2E6-13** Competitive inhibition of resonant multiphoton ionization by four wave mixing (Research Institute of Instrumentation Frontier, AIST) NAGAI, Hidekazu; NAKANAGA, Taisuke

Chair: MIYAZAKI, Mitsuhiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2E6-15, 2E6-17, 2E6-19, 2E6-20)
- 2E6-15^{††}** Ultrafast hydrogen migration in allene in intense laser fields by the coincidence momentum imaging (Univ. of Tokyo) XU, Huailiang; OKINO, Tomoya; YAMANOUCI, Kaoru
- 2E6-17[†]** Coherent control by using strong near infrared laser pulses; a model study of decoherence (Institute for Molecular Science, JST CREST, Sokenai) KATSUKI, Hiroyuki; GOTO, Haruka; CHIBA, Hisashi; OHMORI, Kenji
- 2E6-19** Photoreduction reaction of Eu compounds by ultrashort laser pulses (Univ. of Tokyo) YANAGI, Akinori; XU, Huailiang; OKINO, Tomoya; YAMANOUCI, Kaoru
- 2E6-20** Development of AP-LDI source comprising octapole ion guide (Tokyo Metropolitan Univ.) YAMADA, Atsuko; MATSUMOTO, Jun; SHIROMARU, Haruo; ACHIBA, Yohji; OKUNO, Kazuhiko

Saturday, March 28, PM

Chair: KATSUKI, Hiroyuki (13 : 30~14 : 00)

- * 13:20-13:30: interval for laptop PC connection.(2E6-28, 2E6-29)
- 2E6-28** Dissociative Ionization of Aliphatic Amino Acids in Intense Laser Fields (Niigata Univ. of Pharm. Appl. Life Sci.) TSUGE, Masashi; AIKAWA, Yuki; ITO, Yuusuke; HOSHINA, Kennosuke
- 2E6-29[†]** Lifetime measurements of the metastable states of linear carbon and hydro-carbon anions by an electrostatic ion storage ring. (Tokyo Metropolitan Univ.) MATSUMOTO, Jun; GOTO, Motoshi; ZAMA, Yuu; KAWAGUCHI, Eiji; OOTSUKI, Satoko; MAJIMA, Kakuya; TANUMA, Hajime; AZUMA, Toshiyuki; SHIROMARU, Haruo; ACHIBA, Yohji

Chair: NAKATA, Satoshi (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(2E6-32, 2E6-33, 2E6-35, 2E6-36, 2E6-37)
- 2E6-32** Traveling wave in oil/water interface induced by electric field (Doshisha Univ.) SHIOI, Akihisa; BAN, Takahiko; MORI, Daishi;

- OOMIYA, Katsuhito; OOHATA, Koutarou
2E6-33* Chemical locomotion of solid particles controlled by reactive lubrications (Doshisha Univ.) BAN, Takahiko; MASUI, Yoshiaki; SUZUKI, Shou; SHIOI, Akihisa
2E6-35 Influences of Potassium ion on the spontaneous tension change at oil/water interface (Nihon Univ.) YOSHIDA, Kaori; SATO, Tetsuya; MATSUSHITA, Sachiko
2E6-36 Self-propelled oil droplet on metal surfaces during electrodeposition (RCAST, The university of Tokyo) NAKANISHI, Shuji; IHARA, Daisuke; UTSUNOMIYA, Toru; FUKUI, Ken-ichi
2E6-37 Dynamics of self-replication process of giant vesicles (4) pH and size dependence of myelin formation from oil droplets (AIST) SUZUKI, Kozuke; YAMAGUCHI, Tomohiko

Chair: ASAKURA, Kouichi (15:20~16:20)

- * 15:10-15:20: interval for laptop PC connection.(2E6-39, 2E6-41, 2E6-42, 2E6-43)
2E6-39* Development and Functional Control of a Novel Dendrimer Gel (ASMeW, Waseda Univ.) HARA, Yusuke; MAEDA, Shingo; HASHIMOTO, Shuji
2E6-41 Effect of chemotaxis on bacterial luminescence (School of Bionics, Tokyo Univ. of Technology) SASAKI, Satoshi; MORI, Yusuke; OGAWA, Masahiro
2E6-42 Magnetic entrainment of coupled iron electrochemical oscillators (Graduate School of Saitama Univ.) NAKAO, Hirofumi; NAKABAYASHI, Seichiro
2E6-43* Determinism and Fluctuation of Chemical Reactions under Noisy Environment (Hokkaido Univ. RIES) KAWAI, Shinnosuke; KOMATSUZAKI, Tamiki

Chair: SHIOI, Akihisa (16:30~17:30)

- * 16:20-16:30: interval for laptop PC connection.(2E6-46, 2E6-47, 2E6-48, 2E6-49, 2E6-50, 2E6-51)
2E6-46 Turing Pattern Formation by CIMA Reaction in the Presence of Surfactant (Keio Univ.) NAKATANI, Tomomi; KONISHI, Ryo; KAMATA, Masazumi; ASAKURA, Kouichi
2E6-47 Morphology of aggregate of silver fine crystallite formed in the silver nitrate melt under the temperature gradient (Kanagawa Inst.Tec Department of Applied) HONDA, Kazuhiro; SHIMADA, Takenori
2E6-48 BZ Patterns in the presence of micelles (AIST) JAHAN, Rumana, Akther; SUZUKI, Kozuke; MAHARA, Hitoshi; YAMAGUCHI, Tomohiko
2E6-49 Intermittent oscillatory motion of a camphor float (Graduate School of Science, Hiroshima Univ.) NAKATA, Satoshi
2E6-50 Photo control of spatio-temporal oscillation in BZ reaction (Hiroshima Univ.) KASHIMA, Kenji; NAKATA, Satoshi; KITAHATA, Hiroryuki; MORI, Yoshihito
2E6-51 A study on generative force of the peristaltic motion of polymer gels (Waseda Univ.; Faculty of Science and Engineering) MAEDA, Shingo; HARA, Yusuke; HASHIMOTO, Shuji

Physical Organic Chemistry -Reaction Mechanism-

Sunday, March 29, AM

Chair: IKEDA, Hiroshi (10:30~11:30)

- * 10:20-10:30: interval for laptop PC connection.(3E6-10, 3E6-12, 3E6-13, 3E6-15)
3E6-10* Reaction Mechanism on the Claisen Rearrangement (JST(Univ. of Electro-Communications)) IWAKURA, Izumi; KOBAYASHI, Takayoshi
3E6-12 Activation of Electron-Transfer Oxidation of Zinc Phthalocyanines via Formation of the *pai*-Dimer Radical Cation (Osaka Univ.; SORST, JST) IWATA, Ryosuke; OHKUBO, Kei; FUKUZUMI, Shunichi
3E6-13* Effects of Axial Ligands on Electron-Transfer Properties of Non-Heme Oxoiron(IV) Complexes (Osaka Univ.; SORST, JST; Ewha Womans Univ.) KOTANI, Hiroaki; SUENOBU, Tomoyoshi; LEE, Yong-min; NAM, Wonwoo; FUKUZUMI, Shunichi
3E6-15 Photochemical reaction of reactive intermediates in a low temperature gas-matrix: A case study of Biradicals (Hiroshima Univ.) MAEDA, Satoshi; ABE, Manabu

Sunday, March 29, PM

Chair: KOJIMA, Satoshi (14:20~15:20)

- * 14:10-14:20: interval for laptop PC connection.(3E6-33, 3E6-34, 3E6-36, 3E6-37, 3E6-38)
3E6-33 Transient absorption spectroscopy of tetramethylethanederivative and its characterization with DET calculation (Grad. Sch. of Eng. Osaka Pref. Univ.; Grad. Sch. of Sci. Tohoku Univ.; Grad. Sch. of Medicine and Pharmaceutical Sci. Toyama Univ.) IKEDA, Hiroshi; KANO, Yusuke; OCHIAI, Koshiro; TAKAHASHI, Yasutake; MIZUNO, Kazuhiko
3E6-34** Electron-Transfer from *p*-Benzoquinone Derivatives to Superoxide-Scandium Complex (Osaka Univ.; SORST, JST;) KAWASHIMA, Tomonori; OHKUBO, Kei; FUKUZUMI, Shunichi
3E6-36 Photocatalytic Oxidation of Toluene Derivatives and Hydrogen

- Peroxide Production with Molecular Oxygen Using Donor Substituted Acridinium Ions as Photoinduced Electron-Transfer Catalysts (Osaka Univ.; SORST, JST; Tokyo Chem. Ind. Co. Ltd) MIZUSHIMA, Kentaro; IWATA, Ryosuke; OHKUBO, Kei; SOUMA, Kazunori; YAMAMOTO, Yasuo; SUZUKI, Nobuo; FUKUZUMI, Shunichi
3E6-37 Study of Side Groups Dependency of 1,5-Hydrogen Shift Reaction Using Uniform Oligomers of Acrylates with Various Side Groups (Nara Univ. of Education) ARATA, Satoe; KAJIWARA, Atsushi
3E6-38 ESR Study of Dynamics of Radical of uniform oligomers of Methacrylates (Nara Univ. of Education) NAKAJIMA, Hiroki; KAJIWARA, Atsushi

Chair: SUGIMURA, Takashi (15:30~16:30)

- * 15:20-15:30: interval for laptop PC connection.(3E6-40, 3E6-41, 3E6-42, 3E6-43, 3E6-44, 3E6-45)
3E6-40 Formation Dynamics of meso-meso Linked Porphyrin Dimer by Electron-Transfer Oxidation (Osaka Univ.; SORST, JST) TAKAI, Atsuro; FUKUZUMI, Shunichi
3E6-41 Electron-Transfer Reduction Properties of High-Valent Manganese (IV)-Oxo Porphyrins (Osaka Univ.; SORST, JST) FUJIOKA, Naofumi; OHKUBO, Kei; FUKUZUMI, Shunichi
3E6-42 Photocatalytic Oxidation of Alkylbenzenes and Benzyl Alcohols by Oxygen Using Cationic Donor-Acceptor Linked Dyads Incorporated into Mesoporous Silicas (Graduate School of Engineering, Osaka Univ.; SORST (JST)) DOI, Kaoru; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi
3E6-43 Excess Electron Transfer in Hairpin DNA containing Diaminostilbene as a Photoinduced Electron Donor (Kyoto Univ.) ITO, Takeo; HAYASHI, Aiko; UCHIDA, Tsukasa; HATTA, Hiroshi; NISHIMOTO, Sei-ichi
3E6-44 Reduction Mechanism of Nitrobenzene Derivatives by Using Photo-induced Electron Transfer Reaction from Ru(bpy)₃²⁺ Complex (Grad. Schl. of Sci. and Tech., Niigata Univ.) USUI, Satoshi; ENDOH, Masahiro
3E6-45 Preparation of Monolayers of the Dyad Having a Diaryldiazomethane and a Tripod-shaped Trithiol and Photogeneration of Carbene (Mie Univ.) ODAKA, Masashi; AKIE, Daisuke; HIRAI, Katsuyuki; KITAGAWA, Toshikazu

Chair: SUENOBU, Tomoyoshi (16:40~17:40)

- * 16:30-16:40: interval for laptop PC connection.(3E6-47, 3E6-48, 3E6-49, 3E6-50, 3E6-51, 3E6-52)
3E6-47* Photolysis of 2-Diazopyridine, Diazoacetylpyrazine and 4-Diazoacetylpyrimidine (Kyushu Univ.; Univ. Toronto) RAHMAN, Badal Md.M.; MISHIMA, Masaaki; ALLEN, Annette; TIDWELL, Thomas T.
3E6-48 Spin-Control in tetradicals, based on the ground state spin-multiplicity of localized 1,3-diyls. (Hiroshima Univ.) TAMURA, Hiroshi; ABE, Manabu
3E6-49 Electronic Structures of Carbocations Derived from Heteropolycyclic Aromatic Compounds Containing Oxygen Atom in Superacid (Mie Univ.) NAKAGAWA, Madoka; OKAZAKI, Takao; KITAGAWA, Toshikazu
3E6-50 Regio- and Stereoselective Lactonization of Vinylbenzoic Acid with Hypervalent Iodine (Univ. of Hyogo) MIYATA, Kazuyuki; FUJITA, Morifumi; SUGIMURA, Takashi
3E6-51 Oxidation with Hypervalent Iodine: Asymmetric Tetrahydrofuranylation based on Chiral Auxiliary (Univ. of Hyogo) OHKUBO, Yuuya; FUJITA, Morifumi; SUGIMURA, Takashi
3E6-52 Direct Observation of Hemiaminal Intermediate within the Porous Coordination Networks (Grad. School of Engineering, The Univ. of Tokyo; CREST.) KAWAMICHI, Takehide; KAWANO, Masaki; FUJITA, Makoto

Monday, March 30, AM

Chair: KITAGAWA, Toshikazu (10:00~11:00)

- * 9:50-10:00: interval for laptop PC connection.(4E6-07, 4E6-08, 4E6-10, 4E6-11, 4E6-12)
4E6-07 Research on the isomer production about synthesis of four substitution cyanoguanidine (Tokyo Denki Univ.) TANAKA, Satomi; SHIBA, Ryuichi
4E6-08** Nucleophilicity of diethyl 2-bromomalonate and enantioselective cyclopropanation reaction (Graduate School of Engineering, Osaka Univ. Univ. of Munich, Faculty of Chemistry and Pharmacy) ASAHARA, Haruyasu; OSHIMA, Takumi; LAKHDAR, Sami; MAYR, Herbert
4E6-10 Aldehyde Disproportionation Reaction in Ionic Liquid (Inst. Chem. Res., Kyoto Univ.) IYOKU, Hiroomi; YASAKA, Yoshiro; WAKAI, Chihiro; MATUBAYASI, Nobuyuki; NAKAHARA, Masaru
4E6-11 The view of hydrogen transfer derivation using deuterium marker in unimolecular dissociation for N,N'-Diacyltetrahydropyrimidin-2-one (Osaka Prefecture Univ.; Univ. of Fukui) KAWAGUCHI, Miwa; ISA, Kimio; NAKATA, Ryuuji; MAEKAWA, Tetsuya; YAMAOKA, Hiroshi
4E6-12 Gas Phase Unimolecular Dissociation for Labeled N-(Indan-2-carbonyl)-1-azacycloalkane-2-ones Using a Four Sector Tandem Mass Spectrometer (Osaka Prefecture Univ.; Univ. of Fukui) FUJII, Kazuo; UEMURA, Rie; ISA, Kimio; NAKATA, Ryuuji; KOBAYASHI, Naohiko; YAMAOKA, Hiroshi

Chair: USUI, Satoshi (11:10~12:20)

- * 11:00-11:10: interval for laptop PC connection.(4E6-14, 4E6-15, 4E6-16,

- 4E6-17, 4E6-18, 4E6-19, 4E6-20)
- 4E6-14** Detailed Ion Pair Mechanism in the Solvolysis of 1-(4-Methylphenyl)-2,2,2-trifluoroethyl Tosylate (Kurume National College of Technology; Univ. at Buffalo SUNY) TSUJI, Yutaka; TESHIMA, Minami; RICHARD, John
- 4E6-15** Generation of Carbocations from Substituted Fluoranthenes in $\text{FSO}_3\text{H}/\text{SO}_2\text{ClF}$ and Elucidation of their Electronic Structures (Mie Univ.) ADACHI, Taisuke; OKAZAKI, Takao; KITAGAWA, Toshikazu
- 4E6-16** A theoretical study of migration amplitude of pinacol-type rearrangement (rikkyo university) ITOH, Shuhei; YAMATAKA, Hiroshi
- 4E6-17** Theoretical Study of the Substituent Effects on the Gas Phase Stabilities of Benzylic Anions (Hosei Univ.; Kyushu Univ.; Osaka City Univ.) NAKATA, Kazuhide; FUJIO, Mizue; NISHIMOTO, Kichisuke; TSUNO, Yuhō
- 4E6-18** Reaction mechanism analysis of Glutathione peroxidase (Univ. of Tokyo) MIYAZAWA, Hideo; KANENO, Daisuke; TOMODA, Syuji
- 4E6-19** Theoretical Study on the Mechanism and Diastereoselectivity of NaBH_4 Reduction (Univ. of Tokyo) SUZUKI, Yasumitsu; KANENO, Daisuke; TOMODA, Shuji
- 4E6-20** Reaction Pathway of the [2,3]-Wittig Rearrangement in 1,1,2-Trifluoroallylic Ether (Department of Chemistry and Biotechnology, Graduate School of Tottori Univ.) HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki

Room E7

Bldg.9 949

Physical Chemistry -Properties-

Friday, March 27, PM

Liquid Crystal, Phase Transition

Chair: OZEKI, Sumio (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(1E7-26, 1E7-27, 1E7-28, 1E7-29, 1E7-31)
- 1E7-26** Molecular dynamics in nematic and isotropic phase by a simple mesogenic model (Department of Chemistry, College of General Education, Osaka Sangyo Univ.) SATOH, Katsuhiko
- 1E7-27** Study of molecular orientation and dynamics of acetonitrile in liquid crystal 5CB using NMR (Kanazawa Univ. Graduate School of Natural Science & Technology) SUZUKI, You; MIZUGUCHI, Denitiro; MIZUNO, Motohiro; MURAKAMI, Miwa; TANSHO, Masataka; SHIMIZU, Tadashi
- 1E7-28** Dynamics of alkyl chain of lipid molecules, monoacylglycerol, in lamellar phase of lyotropic liquid crystals (Univ. of Tsukuba) YAMAMURA, Yasuhisa; IWAMI, Maika; NAKADA, Shin; KATAGIRI, Airo; YASUZUKA, Syuma; SAITO, Kazuya
- 1E7-29*** Disorder Induced by Methyl Partial Deuteration and Phase Transition in Some Crystalline Solids (Osaka Univ.) INABA, Akira; SUZUKI, Hal
- 1E7-31** μSR study on the cobalt-radical chain compound showing a large coercive field (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) OKAMURA, Yoshitomo; ISHIDA, Takayuki; NOGAMI, Takashi; WATANABE, Isao

Liquid, Solution

Chair: YAMAMURA, Yasuhisa (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(1E7-33, 1E7-34, 1E7-35, 1E7-36, 1E7-37, 1E7-38)
- 1E7-33** Effect of Magnetic Field on Oxygen-containing Water: Viscosity and Domain Structure (Shinshu Univ.) HONMA, Yuta; OZEKI, Sumio
- 1E7-34** Solvation structure in supercritical CO_2 : Studies with the Raman-forbidden band (Gakushuin Univ.) SHINDO, Risa; NAKAYAMA, Hideyuki; ISHII, Kikujiro
- 1E7-35** Infrared-visible Sum Frequency Generation Spectroscopic Study on the Interfaces of Molecular and Ionic Liquids (2) (Nagoya Univ. Chemistry) IWAHASHI, Takashi; KAGAMITANI, Satomi; KANAI, Kaname; SEKI, Kazuhiko; KIM, Doseok; OUCHI, Yukio
- 1E7-36** Anisotropic rotation of solute molecules in room temperature ionic liquids as studied by EPR spectroscopy (Depart. of Chem. Tokyo Tech.) MIYAKE, Yusuke; IWAMA, Masaki; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko; KOGUCHI, Shinichi; KITAZUME, Tomoya
- 1E7-37** Mixing State for Binary Solutions of Imidazolium-based Ionic Liquids and Methanol (Saga Univ.) SHIMOMURA, Takuya; HONDA, Yuusuke; TAKAMUKU, Toshiyuki
- 1E7-38** Microstructure of ionic liquid-water systems: Alkyl group effect of imidazolium cation (Chiba Univ., Graduate School of Advanced Integration Science) MASAKI, Takashi; NISHIKAWA, Keiko; SHIROTA, Hideaki

Chair: OUCHI, Yukio (15 : 30~16 : 20)

- * 15:20-15:30: interval for laptop PC connection.(1E7-40, 1E7-41, 1E7-42, 1E7-43, 1E7-44)

- 1E7-40** The effect of the alkyl chain on thermodynamic properties of ionic liquid $[\text{Rmim}][\text{TF}_2\text{N}]$ (R = alkyl group) (Materials and Structures Laboratory, Tokyo Institute of Technology) ICHIKAWA, Marie; TSUKUSHI, Itaru; KAWAJI, Hitoshi; ATAKE, Tooru
- 1E7-41** Ferrocenium Ionic Liquids: Design and Properties (Kobe Univ.) INAGAKI, Takashi; MOCHIDA, Tomoyuki
- 1E7-42** Ferrocenium Ionic Liquids: Preparation and Properties of Octamethyl Derivatives (Kobe Univ.) FUNASAKO, Yusuke; MOCHIDA, Tomoyuki
- 1E7-43** Ferrocenium Ionic Liquids: Preparation and Properties of Monoarene Derivatives (Kobe Univ.) INAGAKI, Takashi; MOCHIDA, Tomoyuki
- 1E7-44** Synthesis and physico-chemical properties of hydrophobic amino acid ionic liquids composed of phosphonium cations (Tokyo Univ. of Agriculture & Technology) TAGUCHI, Satomi; KAGIMOTO, Junko; OHNO, Hiroyuki

Saturday, March 28, AM

Cluster, Nanotube

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

- * 8:50-9:00: interval for laptop PC connection.(2E7-01, 2E7-03, 2E7-04, 2E7-06)
- 2E7-01*** Photocurrent Generation Properties of the Semiconducting Electrodes Modified with Composite Clusters of Higher Fullerenes and Carbon Nanotubes (Kyoto Univ., iCeMS) TEZUKA, Noriyasu; UMEYAMA, Tomokazu; MATANO, Yoshihiro; IMAHORI, Hiroshi
- 2E7-03** Photoelectrochemical Properties of Semiconducting Electrodes Modified with Composite Clusters of Porphyrin-Fullerene Dyad and Carbon Nanotube (Kyoto Univ., iCeMS) KAWASHIMA, Fumiaki; TEZUKA, Noriyasu; UMEYAMA, Tomokazu; MATANO, Yoshihiro; IMAHORI, Hiroshi
- 2E7-04*** Structural determination and chemical functionalization of metallofullerene Sc_2C_{82} (Univ. of Tsukuba; IMS) KURIHARA, Hiroki; YAMAZAKI, Yuko; MIZOROGI, Naomi; TSUCHIYA, Takahiro; AKASAKA, Takeshi; NAGASE, Shigeru
- 2E7-06** The synthesis of metallofullerene with two difference substituents (TARA center, Univ. of Tsukuba) ITO, Tsuyoshi; NIKAWA, Hidefumi; AKASAKA, Takeshi; SLANINA, Zdenek; MIZOROGI, Naomi; NAGASE, Shigeru

Chair: MATANO, Yoshihiro (10 : 10~10 : 50)

- * 10:00-10:10: interval for laptop PC connection.(2E7-08, 2E7-10)
- 2E7-08*** Radical Coupling Reaction of Paramagnetic Endohedral Metallofullerene $\text{La}@\text{C}_{82}$ (Univ. Tsukuba, TARA; Tokyo Gakugei Univ.; Josai Univ. Science; IMS.) TAKANO, Yuta; YOMOGIDA, Akinori; NIKAWA, Hidefumi; WAKAHARA, Takatsugu; TSUCHIYA, Takahiro; ISHITSUKA, Midori; MAEDA, Yutaka; AKASAKA, Takeshi; KATO, Tatsuhisa; SLANINA, Zdenek; MIZOROGI, Naomi; NAGASE, Shigeru
- 2E7-10*** Long wavelength photoluminescence emission/excitation properties and chirality distribution of isolated carbon nanotubes dispersed with polyfluorene (Nanotechnology Research Institute, AIST) FUTAMI, Yoshisuke; KAZAOUI, Said; MINAMI, Nobutsugu

Chair: TSUCHIYA, Takahiro (11 : 00~11 : 40)

- * 10:50-11:00: interval for laptop PC connection.(2E7-13, 2E7-14, 2E7-15, 2E7-16)
- 2E7-13** Purification and Characterization of Isolated Carbon Nanohorns. (Faculty of Engineering Yamagata Univ.) MATSUMOTO, Hibiki; SANNO, Masahito
- 2E7-14** Reducing effects of Carbon Nanotubes on Cytochrome-c (Yamagata Univ.) NAKAJIMA, Takafumi; SANNO, Masahito
- 2E7-15** Selective reduction of Single-walled Carbon Nanotubes (Tokyo Gakugei Univ., JST PRESTO, Univ. of Tsukuba, IMS, Peking Univ.) MAEDA, Yutaka; HASEGAWA, Tadashi; AKASAKA, Takeshi; NAGASE, Shigeru; LU, Jing
- 2E7-16** Investigation of Structure Analysis and Production Process for Ionic-liquid Coated Ag Nanoparticles in the Gas Phase (Faculty of Science and Engineering, Chuo Univ.) SEKIGUCHI, Yasumasa; HIRANUMA, Yojiro; SHIGEYASU, Masaharu; MURAYAMA, Haruno; TANAKA, Hideki

Saturday, March 28, PM

Chair: KATO, Tatsuhisa (12 : 50~13 : 40)

- * 12:40-12:50: interval for laptop PC connection.(2E7-24, 2E7-25, 2E7-26, 2E7-27, 2E7-28)
- 2E7-24** Direct observation of dissipation process for diameter-selected Ag nanoparticles heated in the gas phase (Institute of Science and Engineering, Chuo Univ.) KAWAHARA, Tatsuya; MURAYAMA, Haruno; TANAKA, Hideki
- 2E7-25** Investigation of clustering of Ag nanoparticles produced in the gas phase (Institute of Science and Engineering, Chuo Univ.) MAEDA, Futoshi; HASHIMOTO, Naomi; MURAYAMA, Haruno; TANAKA, Hideki
- 2E7-26** Production and chemical identification of diameter-selected ionic-liquid nanoparticles (Institute of Science and Engineering, Chuo Univ.) SHIGEYASU, Masaharu; SEKIGUCHI, Yasumasa; MURAYAMA, Haruno; TANAKA, Hideki

- 2E7-27** Theoretical study of spin polarization and nonlinear optical properties in graphene nanodisks (Osaka Univ.) NAGAI, Hiroshi; YONEDA, Kyohei; FUKUI, Hitoshi; MINAMI, Takuya; KISHI, Ryohei; TAKAHASHI, Hideaki; KUBO, Takashi; NAKANO, Masayoshi
- 2E7-28[†]** The development of insulating highly thermo-conductive composite containing BN nanotubes (Univ. of Tsukuba ; National Institute for Materials Science) TERAO, Takeshi; ZHI, Chunyi; GOLBERG, Dmitri; MITOME, Masanori; TANG, Chengchun; BANDO, Yoshio

Surface and Interface, Thin Film, Nano Systems

- Chair: MIYAZAKI, Akira (13 : 50~14 : 50)
- * 13:40-13:50: interval for laptop PC connection.(2E7-30, 2E7-32, 2E7-33, 2E7-34, 2E7-35)
- 2E7-30*** Luminescent properties of liquid gold(I) complexes at room temperature (JAEA.NSED) AOYAGI, Noboru; SHINHA, Yusuke; SHIMOJO, Kojiro; NAGANAWA, Hirochika; IZUOKA, Akira
- 2E7-32** Photocurrent Measurement in multilayer thin film fabricated by H2TPP and C60 (Univ. of Tokyo ;The Institute for Solid State Physics) ISHIBASHI, Hitoshi; ISOZAKI, Hikaru; MATSUDA, Masaki; TAJIMA, Hiroyuki
- 2E7-33** Size Dependence of Gold Nanoparticles for the electrical Conductivities of Hybrid LB Films between the Macrocyclic TTF and Gold Nanoparticles (Research Institute for Electronic Science, Hokkaido Univ.) FUKUHARA, Katsuo; NODA, Yuki; TATEWAKI, Yoko; NORO, Shin-ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi
- 2E7-34** Abnormal photocurrent action spectra of metalloporphyrin devices (Univ. of Tokyo Institute for Solid State Physics) ISOZAKI, Hikaru; MATSUDA, Masaki; TAJIMA, Hiroyuki
- 2E7-35** Epigenetically development of diodes with ambipolar organic thin films (Univ. of Tokyo, Graduate School of Arts and Sciences) ITOH, Takuro; MATSUSHITA, Michio; HIGUCHI, Hiroyuki; SUGAWARA, Tadashi
- Chair: MATSUSHITA, Michio-M. (15 : 00~15 : 50)
- * 14:50-15:00: interval for laptop PC connection.(2E7-37, 2E7-38, 2E7-39, 2E7-40, 2E7-41)
- 2E7-37** Application of thiophene-fused porphyrazine to organic thin-film solar cells (Hiroshima Univ.) MORI, Hiroki; MIYAZAKI, Eigo; TAKIMIYA, Kazuo
- 2E7-38** Electrochemistry of lithium phthalocyanine thin films (Nagoya Univ.) INAGAWA, Maya; YOSHIKAWA, Hirofumi; AWAGA, Kunio
- 2E7-39** Thin-Film fabrication and optical properties of cyclic thiazyl radical BDTDA (Graduate School of Science, Nagoya Univ.) IWASAKI, Akito; SUZU, Rie; HU, Laigui; NOMURA, Kenji; YOSHIKAWA, Hirofumi; AWAGA, Kunio; NODA, Yukiko; KANAI, Kaname; OUCHI, Yukio; SEKI, Kazuhiko; ITO, Hiroshi
- 2E7-40** Magneto-optical study of magnetism of gold surfaces modified with alkanethiols (Graduate School of Science and Engineering, Saitama Univ.) SOGOSHI, Norihito; NAKABAYASHI, Seiichiro
- 2E7-41** A study for a mechanism of electroluminescence quenching caused by the spin transition (Univ. of Tokyo) MATSUDA, Masaki; ISOZAKI, Hikaru; TAJIMA, Hiroyuki

Chair: TAJIMA, Hiroyuki (16 : 00~16 : 50)

- * 15:50-16:00: interval for laptop PC connection.(2E7-43, 2E7-44, 2E7-46)
- 2E7-43** Single molecule observation and spectroscopy: Coexistence of distinct spectra and their reversible spectral jump (Department of Chemistry, Gakushuin Univ.) FUKUHARA, Kazuto; TSURUMI, Atsuko; NAITO, Yasuaki; KOTANI, Masahiro
- 2E7-44*** Formation process of Nafion thin layer on HOPG surface studied by AFM (Graduate School of Science, Hokkaido Univ.) MASUDA, Takuya; NAOHARA, Hideo; TAKAKUSAGI, Satoru; PANKAJ, Singh; UOSAKI, Kohei
- 2E7-46*** Electronic Structure of Metal Nanoparticles on a Silicon Substrate Studied by Two-photon Photoemission Spectroscopy (Keio Univ.) NAKAMURA, Tsunenuki; HIRATA, Naoyuki; NAGAOKA, Shuhei; NAKAJIMA, Atsushi

Magnetic Properties

Chair: SUGAWARA, Tadashi (17 : 00~17 : 30)

- * 16:50-17:00: interval for laptop PC connection.(2E7-49, 2E7-50, 2E7-51)
- 2E7-49** Withdrawn
- 2E7-50[#]** Acid Adsorption Effect on the Magnetism of Nanographite in Activated Carbon Fibers (Tokyo Institute of Technology) HAO, Sijia; TAKAI, Kazuyuki; KANG, Fei-yu; ENOKI, Toshiaki
- 2E7-51** Size dependent exchange enhancement of Co-Pd alloy nanoparticle (Tokyo Institute of Technology) ITO, Yoshikazu; MIYAZAKI, Akira; VALIYAVEETIL, Suresh; ENOKI, Toshiaki

Sunday, March 29, AM

Magnetic Properties, Electric Properties

Chair: YOSHIKAWA, Hirofumi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3E7-01, 3E7-02, 3E7-03, 3E7-05, 3E7-06)
- 3E7-01** Observation of ferroelectricity in copper octacyanomolybdate (Dept. of Chem., School of Science, Univ. of Tokyo) NAKAGAWA, Kosuke; TOKORO, Hiroko; OHKOSHI, Shin-ichi
- 3E7-02** Magnetic Hysteresis Measurement of RbMn[Fe(CN)₆] by High Temperature Superconductor Micro SQUID Magnetometer (Univ. of Tokyo; Hokkaido Univ.) TAKEDA, Keiji; TOKORO, Hiroko; HAKOE, Fumiyo; YAMAGUCHI, Akira; KURIKI, Shinya; OHKOSHI, Shin-ichi
- 3E7-03*** Relationship on the exchange couplings to the lanthanoid ions in 4f-3d heterospin-system chain compounds (The Univ. of Electro-Communications) OKAZAWA, Atsushi; WATANABE, Ryo; NOJIRI, Hiroyuki; NOGAMI, Takashi; ISHIDA, Takayuki
- 3E7-05** Magnetic Phase Transition in a 2D Quadratic Lattice Composed of an Organic Radical, BBDA-AuBr₄ (Dept. Chem., TMU) FUJITA, Wataru; SASAMORI, Kota; KIKUCHI, Koichi; TAKAHASHI, Masashi
- 3E7-06** Bipartite quantum operations by the use of 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

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

- * 10:00-10:10: interval for laptop PC connection.(3E7-08, 3E7-09, 3E7-10, 3E7-12, 3E7-13)
- 3E7-08** Correlation between Spin Density Distribution and Intramolecular Exchange Interaction on Nitronyl Nitroxide Biradical with Large Substituents (Graduate School of Science, Osaka City Univ.) KANZAKI, Yuki; SHIOMI, Daisuke; SATO, Kazunobu; OKADA, Keiji; TAKUI, Takeji
- 3E7-09** effect of pressure on the absorption spectra of one-dimensional palladium complexes (Muran Institute of technology) TAKEDA, Keiki; SASAKI, Tomoya; KAWAMOTO, Masayuki; ARIMA, Eri; HAYASHI, Junichi; SHIROTANI, Ichimin
- 3E7-10*** Crystal Structure and Physical Properties of a 4-Legged MX-Ladder Complex, [Pt(en)(bpy)]₄(NO₃)₈·16H₂O (Kyushu Univ.; JST-CREST; Osaka Univ.; Hokkaido Univ.; Univ. Of Tokyo) OTSUBO, Kazuya; KITAGAWA, Hiroshi; WAKABAYASHI, Yusuke; OHARA, Jun; YAMAMOTO, Shouji; MATSUZAKI, Hiroyuki; OKAMOTO, Hiroshi
- 3E7-12** A Bent Donor Molecule-based Antiferromagnetic Semiconductor with Strong pi-d Interaction (Osaka Prefecture Univ.) SHAO, Xiangfeng; YAMAJI, Yuhta; SUGIMOTO, Toyonari
- 3E7-13[#]** Interconvertible Bistability in Magnetic Conductors Based on Bent Donor Molecules (Osaka Prefecture Univ.) SHAO, Xiangfeng; YAMAJI, Yuhta; SUGIMOTO, Toyonari

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

- * 11:10-11:20: interval for laptop PC connection.(3E7-15, 3E7-16, 3E7-17, 3E7-18)
- 3E7-15** Pressure and Temperature Dependence of Crystal Structure of Single-component Molecule Metal, [Au(tmdt)₂] (Nihon Univ.; Inst. for Mol. Sci.; Nagoya Univ.; JASRI) ZHOU, Biao; KOBAYASHI, Akiko; KOBAYASHI, Hayao; OKANO, Yoshinori; NISHIBORI, Eiji; SAKATA, Makoto
- 3E7-16** Structural and Physical Properties of Molecular Conductors Derived from the Methylthio-Substituted Donors (Univ. of Hyogo) TAKEUCHI, Kazuhiro; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi
- 3E7-17** Control of Electron Correlation in Molecular Conductors by Difference of Stereochemistry (Univ. of Hyogo) MIURA, Kouki; SHIMONO, Satoshi; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi
- 3E7-18** Studies on Synthesis, Crystal Structure and Physical Properties of [Cu(tmdt)₂] (Nihon Univ.; AIST; Nagoya Univ.) IKOTA, Kei; ZHOU, Biao; KOBAYASHI, Akiko; KOBAYASHI, Hayao; TANAKA, Hisashi; KUMASHIRO, Tetsuya; NISHIBORI, Eiji; SAWA, Hiroshi

Sunday, March 29, PM

Chair: KOBAYASHI, Akiko (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(3E7-26, 3E7-27, 3E7-28, 3E7-29, 3E7-30)
- 3E7-26** Syntheses and physical properties of TTF vinyls with ethylenedioxy group (Graduate School of Science and engineering . Ehime Univ.) MORIKAWA, Toru; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yohji
- 3E7-27** Structure and properties of (TMET-ST-STP)₂ClO₄ (Graduate school of science and Engineering, Ehime Univ.) WADA, Hidenori; WATANABE, Masaki; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yohji
- 3E7-28** Development of multi-functional materials using TTF derivatives

substituted with benzothiazole ring (Grad. School of Sci., Osaka Pref. Univ.)
YOKOTA, Sayo; SUGISHIMA, Yasuo; FUJIWARA, Hideki

- 3E7-29** Development of photo-induced conductors using TTF derivatives substituted by fluorescent aromatic rings (Grad. School of Sci., Osaka Pref. Univ.) TSUJIMOTO, Keijiro; SUGISHIMA, Yasuo; FUJIWARA, Hideki
3E7-30* Charge ordered and magnetic ordered state of the organic solid showing the structural frustration due to the hydrogen bond. (Graduate School of Science Osaka university, RIKEN, Institute for Molecular Science, Univ. of Angers.) YAMAMOTO, Takashi; REIZO, Kato; NAKAZAWA, Yasuhiro; YAKUSHI, Kyuya; MEZIERE, Cecile; PATRICK, Batail

Chair: TAKAHASHI, Kazuyuki (14:20~15:20)

* 14:10-14:20: interval for laptop PC connection.(3E7-33, 3E7-35, 3E7-36, 3E7-37)

- 3E7-33*** Co-existence of polar and non-polar phase in α' -(BEDT-TTF)₂IBr₂ revealed by optical SHG microscopy (Institute for Molecular Science) YAMAMOTO, Kaoru; KOWALSKA, Aneta; NAKANO, Chikako; YAKUSHI, Kyuya
3E7-35* Order-disorder phase transition of localized charges in α' -(BEDT-TTF)₂IBr₂ (Graduate Univ. for Advanced studies, Institute for molecule science, Univ. of Hokkaido) YUE, Yue; NAKANO, Chikakou; YAMAMOTO, Kaoru; URUICHI, Mikio; YAKUSHI, Kyuya; KAWAMOTO, Atsushi
3E7-36 A Time-Resolved ESR Study of TTF Derivatives with Light-Induced Conductivity (Institute for Molecular Science; The Graduate Univ. for Advanced Studies; Osaka Pref. Univ.) FURUKAWA, Ko; SUGISHIMA, Yasuo; FUJIWARA, Hideki; NAKAMURA, Toshikazu
3E7-37* Preparation, crystal structure, and electronic state of donor type nickel-dithiolenes complexes with cycloalkane rings, and electrical properties of their cation radical salts (RIKEN) KUBO, Kazuya; NAKAO, Akiko; FUKUNAGA, Takeo; ISHII, Yasuyuki; KAWASUGI, Yoshitaka; YAMAMOTO, Hiroshi; KATO, Reizo

Chair: FURUKAWA, Kou (15:30~16:30)

* 15:20-15:30: interval for laptop PC connection.(3E7-40, 3E7-42, 3E7-43, 3E7-44, 3E7-45)

- 3E7-40*** Photoresponse of the electrical conductivity in organic conductors based on BEDT-TTF (Hokkaido Univ.; Hokkaido Univ.) IIMORI, Toshifumi; NAITO, Toshio; OHTA, Nobuhiro
3E7-42 Synthesis and properties of STP donor with pyran ring (Graduate School of Science and Engineering, Ehime Univ.) ISHIDZU, Ken-ichi; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yohji
3E7-43 Magnetoresistance effect under ambient pressure for β -(*meso*-DMBEDT-TTF)₂PF₆ (ISSP, PF-KEK, Nagoya Univ.) NIIZEKI, Shoichi; TAKAHASHI, Kazuyuki; MORINAKA, Naoki; MORI, Hatsumi; NAKAO, Akiko; TOKI, Makoto; SAWA, Hiroshi; NISHIO, Yutaka; KAJITA, Kohji
3E7-44 Structures and physical properties of DODHT salts with paramagnetic metal ions (Univ. of Tsukuba) NISHIKAWA, Hiroyuki; OSHIO, Hiroki
3E7-45 Field effect on thin-layer single crystals of molecular conductors (I) (RIKEN; Saitama Univ.; AIST) YAMAMOTO, Hiroshi; KAWASIGI, Yoshitaka; TAJIMA, Naoya; FUKUNAGA, Takeo; TSUKAGOSHI, Kazuhito; KATO, Reizo

Chair: YAKUSHI, Kyuya (16:40~17:20)

* 16:30-16:40: interval for laptop PC connection.(3E7-47, 3E7-48, 3E7-49, 3E7-50)

- 3E7-47** Crystal and electronic structures of benzodifuran derivatives (Kyoto Univ.; Univ. of Toyama) YOSHIDA, Hiroyuki; SATO, Naoki; SAITO, Yoko; HAYASHI, Naoto; HIGUCHI, Hiroyuki
3E7-48 Structures and properties of a new organic magnetic metal, κ - β ''-(ET)₂(PO-CONHC₂H₄SO₃) (PO = 2,2,5,5-teramethyl-3-pyrrolin-1-oxyl free radical) (Univ. of Hyogo) YAMASHITA, Shinji; AKUTSU, Hiroki; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi
3E7-49 Structural and physical properties of molecular conductors(cation)[Ni(dmit)₂] (Cation = (CH₃)₃(CH₂=CH)N⁺, (C₂H₅)₃(CH₃)₂P⁺) (RIKEN) FUKUNAGA, Takeo; GUILLAUME, Darpin; TAJIMA, Naoya; KUBO, Kazuya; KATO, Reizo
3E7-50 Structure and proton conductivity of the oxalate-bridged coordination polymer with adipic acids (Kyushu Univ., JST-CREST) SADAKEYO, Masaaki; YAMADA, Teppi; OKAWA, Hisashi; KITAGAWA, Hiroshi

Room F1

Bldg.10 1011

Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

Friday, March 27, AM

Ru

Chair: ITO, Masato (9:30~10:20)

* 9:20-9:30: interval for laptop PC connection.(1F1-04, 1F1-05, 1F1-06, 1F1-07, 1F1-08)

- 1F1-04** Catalytic cycloisomerization of 1,5-enynes via ruthenium-vinylidene intermediates (Graduate School of Engineering, The Univ. of Tokyo) FUKAMIZU, Koji; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
1F1-05 Catalytic [3+2] Cycloaddition Reactions between Ethynylcyclopropanes and Carbonyl Compounds via Ruthenium-Alkenylidene Complexes (School of Engineering, The Univ. of Tokyo) ENDO, Satoshi; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
1F1-06 Ru-catalyzed Reaction of Enamines with Propargyl Esters Leading to Pyrroles. (Graduate School of Science, Osaka Prefecture Univ.) FUKUYAMA, Takahide; TAKAHASHI, Hideo; RYU, Ilhyong
1F1-07 Asymmetric Allylation of Carboxylic Acid Catalyzed by a Planar-Chiral Cyclopentadienyl-Ruthenium Complex (Graduate School of Science, Osaka Univ.) KANBAYASHI, Naoya; ATSUI, Yumiko; OKAMURA, Takaaki; ONITSUKA, Kiyotaka
1F1-08 Relay Catalysis by a Metal-complex/Bronsted Acid Binary System in a Tandem Isomerization/Carbon-Carbon Bond Forming Reaction (Graduate School of Science, Tohoku Univ.) SORIMACHI, Keichi; TERADA, Masahiro

Chair: MIYAKE, Yoshihiro (10:30~11:20)

* 10:20-10:30: interval for laptop PC connection.(1F1-10, 1F1-11, 1F1-12, 1F1-13, 1F1-14)

- 1F1-10** Ligand Structure-Reactivity Relationship in Dehydrative Allylation and Deallylation with CpRu/2-Pyridine Carboxylic Acid Catalyst (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) TANAKA, Shinji; SABURI, Hajime; HIRAKAWA, Takuya; SEKI, Tomoaki; NAKATSUKA, Hiroshi; KITAMURA, Masato
1F1-11 Asymmetric Isomerization of Cyclic Allylic Alcohols Catalyzed by Chiral Cp*Ru(PN) Catalysts (Tokyo Institute of Technology) ITO, Masato; NOGUCHI, Takako; IKARIYA, Takao
1F1-12 Relationship between the regioselectivity on lactonization of unsymmetrical diols and the solid-state structure of cationic Cp*Ru(PN) complexes (Graduate School of Sci. and Eng., Tokyo Inst. of Tech.) ITO, Masato; SHIBASHI, Akira; IKARIYA, Takao
1F1-13 Hydrogenation of Esters and Lactones Catalyzed by Cp*Ru Complexes Bearing Protic Amine Ligands (Graduate School of Sci. and Eng., Tokyo Inst. of Tech.) ITO, Masato; OTSUKA, Takashi; SHIBASHI, Akira; IKARIYA, Takao
1F1-14 Catalyzed Asymmetric Hydrogenation of 2,4-Disubstituted Pyrroles (Kyushu Univ.) MIKUNI, Yuta; KUWANO, Ryoichi

Chair: TANAKA, Shinji (11:30~12:20)

* 11:20-11:30: interval for laptop PC connection.(1F1-16, 1F1-17, 1F1-18, 1F1-19, 1F1-20)

- 1F1-16** Catalytic Asymmetric Hydrogenation of Imidazoles (Kyushu Univ.) SHINOZAKI, Keichi; KUWANO, Ryoichi
1F1-17 Asymmetric hydrogenation and transfer hydrogenation of ketones catalyzed by Phebox Ru complexes (Graduate School of Engineering, Nagoya Univ.) UJIE, Satoshi; ITO, Jun-ichi; NISHIYAMA, Hisao
1F1-18 Asymmetric Alkynylation of Aldehydes with alkynes. Catalyzed by Chiral Phebox-Ru Complexes. (Graduate School of Engineering, Nagoya Univ.) ASAI, Ryoukai; ITO, Jun-ichi; NISHIYAMA, Hisao
1F1-19 Ru/Pd catalyzed irreversible hydrolysis reaction of allyl esters (Kyushu university) OHMURA, Naoya; NAKAMURA, Asami; HAMASAKI, Akiyuki; UTSUNOMIYA, Masaru; TOKUNAGA, Makoto
1F1-20 Catalytic Dihydroxylation of Olefins Using Dendritic Osmium Tetroxide (AIST, School of Science and Technology, Meiji Univ.) FUJITA, Ken-ichi; AINOYA, Taku; TSUCHIMOTO, Teruhisa; YASUDA, Hiroyuki

Friday, March 27, PM

Chair: KOCHI, Takuya (13:30~14:30)

* 13:20-13:30: interval for laptop PC connection.(1F1-28, 1F1-29, 1F1-30, 1F1-31, 1F1-32, 1F1-33, 1F1-34)

- 1F1-28** Selective Trimerization of Ethylene Catalyzed by a Ruthenium(0) Complex (Grad. Sch. of Eng., Kyoto Univ.) KONDO, Teruyuki; YAMAMOTO, Keisuke; TAKAGI, Daisuke; MATSUKI, Shingo; WADA,

Kenji; TOSHIMITSU, Akio

- 1F1-29** Catalytic Activity of a Novel (μ -oxo)Ruthenium Cluster: Highly Selective Aerobic Oxidation of Alcohols to Aldehydes and Ketones (Graduate School of Engineering, Kyoto Univ.) KONDO, Teruyuki; KANDA, Takashi; TAKAGI, Daisuke; WADA, Kenji; MITSUDO, Take-aki; TOSHIMITSU, Akio
- 1F1-30** Catalytic Activity of a Novel (μ -oxo)Ruthenium Cluster: Synthesis of Indoles with High Atom-Efficiency (Graduate School of Engineering, Kyoto Univ.) KONDO, Teruyuki; KANDA, Takashi; TOSHIMITSU, Akio
- 1F1-31** Ruthenium-Catalyzed Aromatic C-H Borylation of Arenes with Hydroboranes (Kitami Inst. of Tech.) MURATA, Miki; HYOGO, Mayu; WATANABE, Shinji; MASUDA, Yuzuru
- 1F1-32** Ruthenium-Catalyzed Ortho-Selective Dehydrogenative Coupling of Aromatic Aldimines with Hydroboranes (Kitami Inst. of Tech.) MURATA, Miki; UEDA, Yosuke; WATANABE, Shinji; MASUDA, Yuzuru
- 1F1-33** Ruthenium-Catalyzed Ortho-Selective Dehydrogenative Coupling of Benzamides with Hydrosilanes (Kitami Inst. of Tech.) MURATA, Miki; HANATAKA, Tsurugi; WATANABE, Shinji; MASUDA, Yuzuru
- 1F1-34** Activity control by remote steric effect for the ruthenium-metathesis catalyst (Graduate School of Engineering, Kyoto Univ.) TOMIKE, Yoshikazu; OHTAKE, Toshiyuki; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi

Chair: MURATA, Miki (14 : 50~16 : 00)

- * 14:40-14:50: interval for laptop PC connection.(1F1-36, 1F1-37, 1F1-38, 1F1-39, 1F1-41)
- 1F1-36** Development of novel ruthenium-metathesis catalysts bearing flexible dendrimer moieties (Graduate School of Engineering, Kyoto Univ.) NISHIDA, Takeru; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi
- 1F1-37** Effect of Alkenyl Esters on Reaction Mechanisms of Ruthenium-Catalyzed Regioselective Alkenylation via Cleavage of Aromatic Carbon-Hydrogen Bonds (Keio Univ.) TAMURA, Masaru; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 1F1-38** Ruthenium-Catalyzed Selective Mono-arylation of Aromatic Ketones (Keio Univ.) HIROSHIMA, Shun; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 1F1-39*** Efficient Synthesis of Multi-Substituted Polyacenes via Ruthenium-Catalyzed Regioselective C-H Bond Functionalization (Keio Univ.) KITAZAWA, Kentaroh; MATSUMURA, Daiki; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 1F1-41**** Rapid N-H insertion reactions of diazoester catalyzed by novel ruthenium catalysts (Toyoehashi Univ. of Technology) PHOMKEONA, Kesiny; NAITO, Tomoko; SHIBATOMI, Kazutaka; IWASA, Seiji

Chair: TERA0, Jun (16 : 10~17 : 20)

- * 16:00-16:10: interval for laptop PC connection.(1F1-44, 1F1-46, 1F1-47, 1F1-48, 1F1-49, 1F1-50)
- 1F1-44*** The Synthesis of Phthalimides Involving the ortho-C-H Bond in Aromatic Amides by a Ruthenium Complex (Graduate School of Engineering, Osaka Univ.) INOUE, Satoshi; SHIOTA, Hirotsuka; YAMAGUCHI, Eiji; FUKUMOTO, Yoshiya; CHATANI, Naoto
- 1F1-46** Palladium-Catalyzed ortho-Alkynylation Reaction of Acetanilides with Bromoacetylenes (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; ANO, Yusuke; CHATANI, Naoto
- 1F1-47** Rhodium-Catalyzed Anomalous Dimerization of Styrene Involving the Cleavage of ortho C-H Bond (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; HYODO, Isao; CHATANI, Naoto
- 1F1-48** Ruthenium-Catalyzed Ortho-C-H Bond Silylation of Arylboronic Acid Using Easily Detachable and Attachable Directing Group on the Boron Atom (Kyoto Univ.) IHARA, Hideki; SUGINOME, Michinori
- 1F1-49** Ruthenium Catalyzed α -C-H Silylation of Methylboronic Acid Derivatives Bearing a Detachable Directing Group on the Boron Atom (Kyoto Univ.) IHARA, Hideki; UEDA, Akinori; SUGINOME, Michinori
- 1F1-50** Ruthenium-Catalyzed Transformation of Alkenyl Triflates to Halides (Graduate School of Science, Kyoto Univ.) SHIRAKAWA, Eiji; IMAZAKI, Yusuke; HAYASHI, Tamio

Saturday, March 28, AM

Pd

Chair: TAKAYA, Jun (9 : 20 ~10 : 10)

- * 9:10-9:20: interval for laptop PC connection.(2F1-03, 2F1-04, 2F1-05, 2F1-06, 2F1-07)
- 2F1-03** Synthesis of a novel bidentate phosphine ligand bearing *m*-terphenyl moieties and its coordination behavior to palladium. (Graduate School of Engineering, Kyoto Univ.) KOBATAKE, Takanori; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi
- 2F1-04** Highly Active Palladium Catalyst Based on Novel Ruthenocenylphosphine Ligand (R-Phos) for Suzuki-Miyaura Reaction of Sterically Hindered Aryl Bromides (Faculty of Eng., Niigata Univ. and Grad. School of Sci. and Tech., Niigata Univ.) HOSHI, Takashi; SAITOH, Ippei; NAKAZAWA, Taichi; SUZUKI, Toshio; HAGIWARA, Hisahiro
- 2F1-05** Highly Active Palladium Catalyst for the Cross-Coupling of Benzylic Carbonates with Arylboronic Acids (Kyushu Univ.) OHSUMI, Masato;

UENO, Satoshi; KUWANO, Ryoichi

- 2F1-06** Development of a Solid Phase Palladium Catalyst on Gold Nanoparticles (Faculty of science, Okayama Univ. of Science) YAMADA, Haruo; FUJII, Hidenori
- 2F1-07** Synthesis of Monoterpene Ligands (Kinki Univ.) OKADA, Yoshiharu; HOCHI, Shizuka; NOMURA, Masato

Chair: SHINTANI, Ryo (10 : 20~11 : 10)

- * 10:10-10:20: interval for laptop PC connection.(2F1-09, 2F1-10, 2F1-11, 2F1-12, 2F1-13)
- 2F1-09** Synthesis of a phosphine ligand having polyethylene glycol chains and its application in palladium catalyzed Suzuki-Miyaura coupling reaction (Graduate School of Engineering, Kyoto Univ.) YOSHIDA, Shohei; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi
- 2F1-10** Development of an N-heterocyclic carbene ligand bearing polyethylene glycol chains (Graduate School of Engineering, Kyoto Univ.) YOSHIKAWA, Takahiro; YOSHIDA, Shohei; OHTA, Hidetoshi; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi
- 2F1-11** Synthesis of Boron-Nitrogen coordinated Compounds via Palladium-Catalyzed Addition Reaction of N-Heteroaryl Halides onto Alkynyltriarylborates (Graduate School of Engineering, Kyoto Univ.) NARUMI, Mizuna; ISHIDA, Naoki; MURAKAMI, Masahiro
- 2F1-12** Catalytic Activation of Boron-Chlorine Bond: Stereoselective Cyclizative Carboboration of Alkenes Using Organozirconium Reagents (Kyoto Univ.) DAINI, Masaki; SUGINOME, Michinori
- 2F1-13** Palladium-Catalyzed Dehydrogenative C-H Borylation of Isoindoles Leading to the Synthesis of Boryl-Substituted Isoindoles (Kyoto Univ.) OHMURA, Toshimichi; KIJIMA, Akihito; SUGINOME, Michinori

Chair: IWASAWA, Nobuharu (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2F1-15)
- 2F1-15 CSJ Award for Creative Work** Development of Environmentally Benign Transition Metal Catalysts and Its Application to Molecular Probes (Grad. Sch. of Eng., Kyoto Univ.) KONDO, Teruyuki

Saturday, March 28, PM

Pd

Chair: YAMAMOTO, Yasunori (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2F1-28, 2F1-29, 2F1-30, 2F1-31, 2F1-32, 2F1-33)
- 2F1-28** Palladium Catalyzed Reaction of Alkynyltriorganylborates with Aryl Halides : Ligand-dependent Stereoselectivity (Graduate School of Engineering, Kyoto Univ.) SHIMAMOTO, Yasuhiro; ISHIDA, Naoki; MURAKAMI, Masahiro
- 2F1-29** Palladium-Catalyzed γ -Selective Allyl-Aryl Coupling between Allylic Acetates and Arylboronic Acids (Department of Chemistry, Faculty of Science, Hokkaido Univ.) MAKIDA, Yusuke; TANAKA, Tatsunori; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 2F1-30** Palladium-Catalyzed γ -Selective and Stereospecific Allyl-Aryl Coupling between Optically Active Allylic Esters and Arylboronic Acids (Department of Chemistry, Faculty of Science, Hokkaido Univ.) TANABE, Masahito; MAKIDA, Yusuke; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 2F1-31** Synthesis and Application of Organoborates Derived from Alkyne Silabolation (Kyoto Univ.) OHMURA, Toshimichi; OSHIMA, Kazuyuki; SUGINOME, Michinori
- 2F1-32** Palladium-Catalyzed Reaction of (Aminosilyl)borane with Alkenes (Kyoto Univ.) OHMURA, Toshimichi; MASUDA, Kohei; SUGINOME, Michinori
- 2F1-33[†]** Cross-Coupling of α -Aminobenzylboronic Esters (Kyoto Univ.) OHMURA, Toshimichi; AWANO, Tomotsugu; SUGINOME, Michinori

Chair: TSUKADA, Naofumi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2F1-35, 2F1-37, 2F1-39, 2F1-40)
- 2F1-35*** Highly Enantioselective Palladium-Catalyzed Asymmetric Reactions Using Optically Active Polymers as Chiral Ligands (Kyoto Univ.) YAMAMOTO, Takeshi; SUGINOME, Michinori
- 2F1-37*** Asymmetric Pd(II)/Pd(IV) Catalysis (1): Construction of Bicyclo[3.1.0]hexanes via Oxidative Cyclization of Enynes (ISIR, Osaka Univ.) TSUJIHARA, Tetsuya; TAKENAKA, Kazuhiro; ONITSUKA, Kiyotaka; SASAI, Hiroaki
- 2F1-39** Asymmetric Pd(II)/Pd(IV) Catalysis (2): Synthesis of α -Methylene- γ -lactones via Oxidative Cyclization of Enynes (ISIR, Osaka Univ.) HASHIMOTO, Shintaro; TUJIHARA, Tetsuya; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 2F1-40** Asymmetric Pd(II)/Pd(IV) Catalysis (3): Application to Intramolecular Wacker-type Cyclization of Alkenediols (ISIR, Osaka Univ.) HAKOI, Yutarou; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki

Chair: OGASAWARA, Masamichi (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(2F1-42, 2F1-43, 2F1-44, 2F1-45, 2F1-46)

- 2F1-42** Iterative Suzuki Coupling for Selective Synthesis of Oligoarenes: New Masking System for Organoboron Acid Based on 1,8-Diaminonaphthalene Bearing an Intramolecular Activating Group. (Kyoto Univ.) SHIODA, Takayuki; SUGINOME, Michinori
- 2F1-43** Asymmetric 1,4-Addition of Arylboronic Acids to α, β -Unsaturated Esters Catalyzed by Dicationic Palladium(II)-Chiraphos Complex (Graduate School of Engineering, Hokkaido Univ.) KIYOMURA, Shunsuke; NISHIKATA, Takashi; YAMAMOTO, Yasunori; MIYAJIMA, Norio
- 2F1-44** Synthesis of Optically Active Atropisomeric Phosphine and Its Application to Palladium-Catalyzed Asymmetric Allylic Alkylation (Chiba Univ.) MINO, Takashi; KOMATSU, Shingo; WAKUI, Kazuya; YAMADA, Haruka; SAKAMOTO, Masami; FUJITA, Tsutomu
- 2F1-45** Highly Enantioselective Aldol Reaction Catalyzed by Cationic Chiral Palladium Complexes (Tokyo Institute of Technology) MIMURA, Shunsuke; AIKAWA, Kohsuke; MIKAMI, Koichi
- 2F1-46** Asymmetric Alkynylation and Alkenylation by Chiral Cationic Pd Catalysts (Graduate School of Science and Engineering, Tokyo Institute of Technology) HIOKI, Yuta; AIDA, Junpei; AIKAWA, Kohsuke; MIKAMI, Koichi

Chair: AIKAWA, Kohsuke (16:50~17:30)

- * 16:40-16:50: interval for laptop PC connection.(2F1-48, 2F1-49, 2F1-50, 2F1-51)
- 2F1-48[†]** Asymmetric induction of planar chiral paracyclophanes via Sonogashira coupling (Waseda Univ.) KANDA, Kazumasa; KOIKE, Tamami; ENDO, Kohei; SHIBATA, Takanori
- 2F1-49** Application of Chiral P,S-Mixed Bidentate Ligand, Sulfur-MOP, to Palladium-Catalyzed Enantioselective Allylic Alkylation of Indoles (Faculty of Eng., Niigata Univ. and Grad.) HOSHI, Takashi; SASAKI, Koji; SATO, Shun; SUZUKI, Toshio; HAGIWARA, Hisahiro
- 2F1-50[†]** Asymmetric Addition Reaction of Boronic Acid to Bicyclic Alkenes Catalyzed by Palladium with Ferrocene-based Ligand (Doshisha Univ.) SUZUMA, Yoshinori; OE, Yohei; OHTA, Tetsuo; ITO, Yoshihiko
- 2F1-51** Palladium-catalyzed asymmetric synthesis of axially chiral (fluoroalkyl)allenes (Catalysis Research Center, Hokkaido Univ.; Nagoya Institute of Technology; SORST) OGASAWARA, Masamichi; MURAKAMI, Hidetoshi; FURUKAWA, Tatsuya; TAKAHASHI, Tamotsu; SHIBATA, Norio

Sunday, March 29, AM

Chair: OBORA, Yasushi (9:20~10:10)

- * 9:10-9:20: interval for laptop PC connection.(3F1-03, 3F1-04, 3F1-05, 3F1-06, 3F1-07)
- 3F1-03** Palladium-catalyzed reactions of 2-methylene-1,3-dithiane monoxide with aryl halides (Graduate School of Engineering, Kyoto Univ.) MORITA, Eiji; IWASAKI, Masayuki; YOSHIDA, Suguru; YORIMITSU, Hideki; OSHIMA, Koichiro
- 3F1-04** Palladium-catalyzed benzylic arylation of benzyl sulfones with aryl halides (Graduate School of Engineering, Kyoto Univ.) NIWA, Takashi; YORIMITSU, Hideki; OSHIMA, Koichiro
- 3F1-05** N-Heterocyclic Carbene Substituted Phospha-Palladacycles Possessing β -Hydrogens as Catalyst in Aryl Amination Reactions (Osaka City Univ. Fac. of Eng. Dep. of App. Chem.) MINAMI, Tatsuya; SATO, Mitsuya; KAWAMURA, Takuya; HATANAKA, Yasuo
- 3F1-06** Synthesis and Application of Optically Active Spiro-bilactams (1) (ISIR, Osaka Univ.) SUGIMOTO, Keisuke; ITOH, Noriyuki; TAKENAKA, Kazuhiro; SASAI, Hiroaki
- 3F1-07** Synthesis and Application of Optically Active Spiro-bilactams (2) (ISIR, Osaka Univ.) ITOH, Noriyuki; SUGIMOTO, Keisuke; TAKENAKA, Kazuhiro; SASAI, Hiroaki

Chair: KUNIASU, Hitoshi (10:20~11:10)

- * 10:10-10:20: interval for laptop PC connection.(3F1-09, 3F1-10, 3F1-11, 3F1-12)
- 3F1-09** Palladium-catalyzed reaction of 2-(2-hydroxyethyl)pyridine N-oxides with aryl halides (Graduate School of Engineering, Kyoto Univ.) SUEHIRO, Takafumi; NIWA, Takashi; YORIMITSU, Hideki; OSHIMA, Koichiro
- 3F1-10** Synthesis of methylenecyclobutanes by palladium-catalyzed retro-allylation of homoallyl alcohols (Graduate School of Engineering, Kyoto Univ.) IWASAKI, Masayuki; YORIMITSU, Hideki; OSHIMA, Koichiro
- 3F1-11** Stereoselective Synthesis of Nipecotic Acid Derivatives via Palladium-Catalyzed Decarboxylative Cycloaddition of γ -Methylidene- δ -valerolactones with Imines (Graduate School of Science, Kyoto Univ.) SHINTANI, Ryo; MURAKAMI, Masataka; HAYASHI, Tamio
- 3F1-12*** Synthesis of Axially Chiral 4-Aryl-2-pyridones through Enantioselective Cycloisomerizations of Amide-Linked 1,5-Enynes (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) IMASE, Hidetomo; SUDA, Takeshi; HIRANO, Masao; TANAKA, Ken

Chair: KAKIUCHI, Fumitoshi (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(3F1-15, 3F1-18)
- 3F1-15** Young Scholar Lectures of CSJ Catalytic Reactions Invol-

- ving the Cleavage of C-CN and C-O Bonds (Osaka Univ.) TOBISU, Mamoru
- 3F1-18** CSJ Award for Young Chemists Selective Organic Reactions Based on Retro-allylation of Homoallyl Alcohols (Grad. Sch. of Eng., Kyoto Univ.) YORIMITSU, Hideki

Sunday, March 29, PM

Chair: NISHIMURA, Takahiro (13:30~14:40)

- * 13:20-13:30: interval for laptop PC connection.(3F1-28, 3F1-29, 3F1-30, 3F1-32, 3F1-34)
- 3F1-28** Cyclization of enynes with terminal alkynes by dinuclear Palladium complex catalysts (Tohoku Univ.; Shizuoka Univ.) AOYAMA, Yoshimi; TSUKADA, Naofumi; INOUE, Yoshio
- 3F1-29** Synthesis of 3-(Cyanoalkylidene)oxindoles by Palladium-Catalyzed Cyclization of 2-(Alkynyl)aryl Isocyanates with Zn(CN)₂ (Graduate School of Engineering, Kyoto Univ.) KATO, Osamu; TOYOSHIMA, Takeharu; MIURA, Tomoya; MURAKAMI, Masahiro
- 3F1-30*** Palladium-Catalyzed Cyclization Reaction of 2-(Alkynyl)aryl Isocyanates with Protic Nucleophile (Graduate School of Engineering, Kyoto Univ.) TOYOSHIMA, Takeharu; ITOH, Yoshiteru; MIURA, Tomoya; MURAKAMI, Masahiro
- 3F1-32*** Synthesis of epoxides or aziridines by palladium-catalyzed reactions of aryl halides with tertiary allyl alcohols or allylamines (Graduate School of Engineering, Kyoto Univ.) HAYASHI, Sayuri; YORIMITSU, Hideki; OSHIMA, Koichiro
- 3F1-34** Palladium-catalyzed reactions of aryl halides with N-allylamides (Graduate School of Engineering, Kyoto Univ.) FUJINO, Daishi; HAYASHI, Sayuri; YORIMITSU, Hideki; OSHIMA, Koichiro

Chair: OHMURA, Toshimichi (16:40~17:50)

- * 16:30-16:40: interval for laptop PC connection.(3F1-47, 3F1-48, 3F1-49, 3F1-50, 3F1-51, 3F1-52, 3F1-53)
- 3F1-47** Novel Asymmetric Intramolecular Wacker-type Cyclization Catalyzed by Pd-SPRIX (ISIR, Osaka Univ.) TANIGAKI, Yugo; TSUJIHARA, Tetsuya; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 3F1-48** Asymmetric Synthesis of Novel Spiro-type Ligands and Their Application (ISIR, Osaka Univ.) NAGANO, Toyohiro; TSUJIHARA, Tetsuya; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 3F1-49[†]** Palladium-Catalyzed Activation of 1,1-Difluoro-1-alkenes: Oxindole Synthesis via Intramolecular Cyclization (Univ. of Tsukuba) TANABE, Hiroyuki; ICHIKAWA, Junji
- 3F1-50** Palladium-Catalyzed [4+2] Cycloaddition of *o*-(Silylmethyl)benzyl Esters with Imines (Kyushu Univ.) OHTSUBO, Masakazu; UENO, Satoshi; KUWANO, Ryoichi
- 3F1-51** Palladium-Catalyzed Intramolecular Aromatic Nucleophilic Substitution of Benzylic Esters (Kyushu Univ.) KOMIYA, Sadakazu; UENO, Satoshi; KUWANO, Ryoichi
- 3F1-52** Palladium-Catalyzed Construction of 2-Pyridone Ring by Intramolecular Vinylhalogenation of Allenes (School of Engineering, Osaka Univ.; Graduate School of Engineering, Osaka Univ.; Osaka Dental Univ.) OKUYAMA, Maiko; TOYOFUKU, Masashi; FUJIWARA, Shin-ichi; SHIN-IKE, Tsutomu; KUNIASU, Hitoshi; KAMBE, Nobuaki
- 3F1-53** Synthesis of α -Alkylidenelactams by Palladium Catalyzed Intramolecular Tellurocarbamoylation of Alkynes (Graduate School of Engineering, Osaka Univ.; Osaka Dental Univ.) NAGAI, Hiroyuki; TOYOFUKU, Masashi; FUJIWARA, Shin-ichi; SHIN-IKE, Tsutomu; KUNIASU, Hitoshi; KAMBE, Nobuaki

Monday, March 30, AM

Pd

Chair: FUJIHARA, Tetsuaki (9:30~10:20)

- * 9:20-9:30: interval for laptop PC connection.(4F1-04, 4F1-05, 4F1-06, 4F1-07, 4F1-08)
- 4F1-04** Palladium-Catalyzed Decarboxylative Cyclization of α -Aryl- γ -methylidene- δ -valerolactones (Graduate School of Science, Kyoto Univ.) SHINTANI, Ryo; TSUJI, Takaoki; PARK, Soyoung; HAYASHI, Tamio
- 4F1-05** Palladium-Catalyzed Decarboxylative [4+2] Cycloaddition of γ -Methylidene- δ -valerolactones with Isatins (Graduate School of Science, Kyoto Univ.) SHINTANI, Ryo; HAYASHI, Shinya; MURAKAMI, Masataka; TAKEDA, Momotaro; HAYASHI, Tamio
- 4F1-06** Palladium-Catalyzed Decarboxylative [4+1] Cycloaddition of γ -Methylidene- δ -valerolactones with Isocyanides (Graduate School of Science, Kyoto Univ.) PARK, Soyoung; SHINTANI, Ryo; HAYASHI, Tamio
- 4F1-07** Palladium-catalyzed activation of acylphosphines: Decarboxylation and Alkyne insertion (Ehime Univ.) HAYASHI, Minoru; NIOU, Hirotsugu; IMAI, Yoshito; WATANABE, Yutaka
- 4F1-08** Catalytic regioselective halogenation via aromatic carbon-hydrogen bond cleavage by means of electrochemical oxidation (Keio Univ.) MUTSUTANI, Hitoshi; KOBAYASHI, Noboru; URANO, Seiya; TANABE, Takamasa; KOCHI, Takuya; NISHIYAMA, Shigeru; KAKIUCHI, Fumitoshi

Chair: TERA0, Jun (10:30~11:20)

- * 10:20-10:30: interval for laptop PC connection.(4F1-10, 4F1-11, 4F1-12, 4F1-13, 4F1-14)
- 4F1-10** Diarylation of Carboxyindole Derivatives via C-H Bond Cleavage and Decarboxylation under Palladium Catalysis (Faculty of Engineering, Osaka Univ.) MIYASAKA, Mitsuru; FUKUSHIMA, Azusa; SATOH, Tetsuya; HIRANO, Koji; MIURA, Masahiro
- 4F1-11** Direct Arylation of Heteroarenes Catalyzed by Palladium Complexes (Institute for Chemical Research, Kyoto Univ.) TAKITA, Ryo; FUJITA, Daichi; OZAWA, Fumiyuki
- 4F1-12** C-H direct functionalization reaction by using phosphine-free Pd complex (Department of Chemistry, Faculty of Engineering, Gifu Univ.) YAMAGUCHI, Eiji; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 4F1-13** Palladium-Catalyzed C-H and C-Si Arylation of Furan Derivatives (Kobe Univ.) MATSUDA, Shigeru; TAKAHASHI, Masabumi; MONGUCHI, Daiki; MORI, Atsunori
- 4F1-14** Palladium-Catalyzed C-H homocoupling and C-H Arylation of Selenophene Derivatives. (Kobe Univ.) FUJII, Ryosuke; MONGUCHI, Daiki; MORI, Atsunori

Chair: KOCHI, Takuya (11:30~12:20)

- * 11:20-11:30: interval for laptop PC connection.(4F1-16, 4F1-17, 4F1-19, 4F1-20)
- 4F1-16** Direct C-H Bond Arylation of Arenes with Arylsilicon Reagents Catalyzed by Palladium Complexes (Tohoku Univ.) NAKAMURA, Shunsuke; HONDA, Masaaki; KAWAI, Hiroshi; OI, Shuichi; INOUE, Yoshio
- 4F1-17*** Catalytic Direct Arylation of Arenes Leading to Programmed Synthesis of Oligoarenes (Dept Chem, Nagoya Univ; JST-PRESTO) YANAGISAWA, Shuichi; UEDA, Kirika; SEKIZAWA, Hiromi; ITAMI, Kenichiro
- 4F1-19** Regioselectivity of Heteroarene C-H Arylation Catalyzed by Pd/P [OCH(CF₃)₂]₃ (Dept Chem, Nagoya Univ; JST-PRESTO) UEDA, Kirika; YANAGISAWA, Shuichi; SEKIZAWA, Hiromi; ITAMI, Kenichiro
- 4F1-20** C-H Bond Arylation of Heteroarenes Catalyzed by Ir/PCy₃ (Dept Chem, Nagoya Univ; JST-PRESTO) YAMAMOTO, Takuya; JOIN, Benoit; ITAMI, Kenichiro

Monday, March 30, PM

Chair: YORIMITSU, Hideki (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(4F1-28, 4F1-29, 4F1-30, 4F1-31, 4F1-32, 4F1-33)
- 4F1-28** Palladium-Catalyzed Oxidative Alkynylation of Olefins (Graduate School of Science, Kyoto Univ.) NISHIMURA, Takahiro; NAGAOSA, Makoto; HAYASHI, Tamio
- 4F1-29** Coupling reaction of benzene with α, β -unsaturated carbonyl compounds catalyzed by a Pd(OAc)₂/molybdovanadophosphoric acid/O₂ system (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) MASUKAWA, Junya; OBORA, Yasushi; ISHII, Yasutaka
- 4F1-30** Oxidative coupling of aromatic compounds with acylonitriles catalyzed by a Pd(OAc)₂/molybdovanadophosphoric acid/O₂ system (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) OKABE, Yoshihisa; OBORA, Yasushi; ISHII, Yasutaka
- 4F1-31** Palladium-catalyzed Three-component Coupling Reactions of 2-(Cyanomethyl)phenol, CO, and Aryl Bromides (Graduate School of Engineering, Kyoto Univ.) MURAI, Masahito; OHE, Kouichi
- 4F1-32** Diastereoselective Palladium-Catalyzed Reductive Aldol Reaction Using Trichlorosilane (Aoyama Gakuin Univ.) ONODERA, Gen; WATANABE, Tomoya; HACHISUKA, Ryosuke; TAKEUCHI, Ryo
- 4F1-33[†]** Pd-catalyzed Cross-coupling Reaction of alcohols (Grad. Sch. Sc., Nagoya Univ.) KOSE, Osamu; NOYORI, Ryoji; SAITO, Susumu

Chair: MIURA, Tomoya (14:40~15:30)

- * 14:30-14:40: interval for laptop PC connection.(4F1-35, 4F1-36, 4F1-37, 4F1-38, 4F1-39)
- 4F1-35** Dimerization of aldehydes to 3-furaldehydes by Pd(OAc)₂ / molybdovanadophosphoric acid / CeCl₃ / O₂ system (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) HORIKAWA, Norihide; TAMASO, Kenichi; OBORA, Yasushi; ISHII, Yasutaka
- 4F1-36** Oxidative allylic amination of olefins catalyzed by Pd(II)/molybdovanadophosphate salt /O₂ system (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) SHIMIZU, Yosuke; OBORA, Yasushi; ISHII, Yasutaka
- 4F1-37** Synthesis of Biaryls by Cross-Coupling Reactions in a Microflow System (Kyoto Univ. Katsura Int'tech Center) KENMOKU, Akira; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 4F1-38** Heck reaction catalyzed by a mesoionic carbene-palladium complex (Graduated School of Engineering, Nagoya Institute of Technology) TSUNODA, Yuki; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 4F1-39** Stereoselective Synthesis of 2-methyl-1,3-dienes using Palladium Catalyst (Univ. of Toyama) MIYAZAWA, Masahiro; TAKEHANA, Risa; YOKOYAMA, Hajime; YAMAGUCHI, Seiji; HIRAI, Yoshiro

Chair: KUWANO, Ryoichi (15:40~16:30)

- * 15:30-15:40: interval for laptop PC connection.(4F1-41, 4F1-42, 4F1-43, 4F1-44, 4F1-45)
- 4F1-41** Palladium-catalyzed Addition of Formamides to Alkynes (Graduate School of Engineering, Kyoto Univ.) KATAFUCHI, Yuko; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi
- 4F1-42** Palladium-catalyzed Selective Addition of Aromatic Amines to Olefins (Osaka Prefecture Univ.) YAMAGUCHI, Kotaro; SONODA, Motohiro; FUNAGAYAMA, Katsuya; OGAWA, Akiya
- 4F1-43[†]** Palladium-Catalyzed the convenient procedure for the C-S bond formation (Kyushu Institute of Technology, Faculty of Engineering) KURAMOTO, Kouji; OKAUCHI, Tatsuo
- 4F1-44** Amination of aryl halides catalyzed by copper-palladium dinuclear-complexes (Shizuoka Univ.) ONISHI, Nozomi; MATSUMOTO, Naoki; TSUKADA, Naofumi; INOUE, Yoshio
- 4F1-45** Allylic amination using aqueous ammonia (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) NAGANO, Takashi; KOBAYASHI, Shu

Room F2

Bldg.10 1012

Organic Chemistry -Reaction and Synthesis-
Metallo-organic Chemistry

Friday, March 27, AM

Rh

Chair: FUKUMOTO, Yoshiya (9:30~10:20)

- * 9:20-9:30: interval for laptop PC connection.(1F2-04, 1F2-05, 1F2-06, 1F2-07, 1F2-08)
- 1F2-04** Rhodium-Catalyzed Carbothiolation Reaction of Terminal Alkynes and 1-Alkyl-thioalkynes (Tohoku Univ.) ARISAWA, Mieko; IGARASHI, Yui; TAGAMI, Yoko; YAMAGUCHI, Masahiko
- 1F2-05** Rhodium-Catalyzed Methylthiolation Reaction of Active Methylene Compounds (Tohoku Univ.) ARISAWA, Mieko; TORIYAMA, Fumihiko; YAMAGUCHI, Masahiko
- 1F2-06** Rhodium-catalyzed C-P bond forming reaction via single bond metathesis of thioalkyne C-S bond and diphosphine P-P bond (Tohoku Univ.) ARISAWA, Mieko; WATANABE, Takuya; YAMAGUCHI, Masahiko
- 1F2-07** Rhodium-Catalyzed Intramolecular Hydroarylation of Haloacetylenes (Tokyo Institute of Technology) SENDA, Kosuke; MURASE, Hirohiko; HATA, Takeshi; URABE, Hirokazu
- 1F2-08** Rh-Catalyzed Cyclization of Haloalkynes (Tokyo Institute of Technology) MURASE, Hirohiko; SENDA, Kosuke; HATA, Takeshi; URABE, Hirokazu

Chair: HATA, Takeshi (10:30~11:20)

- * 10:20-10:30: interval for laptop PC connection.(1F2-10, 1F2-11, 1F2-12, 1F2-13, 1F2-14)
- 1F2-10** Influence of Substituents on the Phosphine Ligands in the Rhodium-Catalyzed Cyclization of Homopropargylamines with Terminal Alkynes (Faculty of Engineering, Osaka Univ.) FUKUMOTO, Yoshiya; KANAZAWA, Yukinori; CHATANI, Naoto
- 1F2-11** Platinum Chloride-Catalyzed Synthesis of Indene Derivatives in the Cycloisomerization of *o*-Alkylethynylbenzenes. (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; NAKAI, Hiromi; CHATANI, Naoto
- 1F2-12[#]** Rh(II)-catalyzed skeletal reorganization of enynes: trap of cyclopropyl carbene intermediates (Faculty of Engineering, Osaka Univ.) LEE, Sang Ick; OTA, Kazusa; TANG, Jih-meng; CHATANI, Naoto
- 1F2-13** Rhodium-Catalyzed Linear-Selective Syngas-Free Hydroformylation Reaction of 1-Alkenes with Formaldehyde (Nara Institute of Science and Technology) MORIMOTO, Tsumoru; MAKADO, Gouki; SUGIMOTO, Yasuko; KAKIUCHI, Kiyomi
- 1F2-14** Rhodium-Catalyzed Regio- and Stereoselective Syngas-Free Hydroformylation Reaction of Styrenes with Formaldehyde (Nara Institute of Science and Technology) MORIMOTO, Tsumoru; FUNAI, Hisashi; MAKADO, Gouki; KAKIUCHI, Kiyomi

Chair: MORIMOTO, Tsumoru (11:30~12:20)

- * 11:20-11:30: interval for laptop PC connection.(1F2-16, 1F2-17, 1F2-18, 1F2-19, 1F2-20)
- 1F2-16** DMAP-accelerated Rh(I)Cl-catalyzed hydroboration of vinylarenes (WASEDA university) TAKEUCHI, Kazunari; HIROKAMI, Munenao; ENDO, Kohei; SHIBATA, Takanori
- 1F2-17** Regioselective synthesis of 1,1-organodiboronates via Rhodium-catalyzed sequential hydroboration of terminal alkynes (Waseda Univ.) HIROKAMI, Munenao; ENDO, Kohei; SHIBATA, Takanori
- 1F2-18** Synthesis of Optically Active Benzopyranone Derivatives through

Sequential Activation of π - and σ -Bonds Catalyzed by Cationic Transition-Metal Complexes (Tokyo Univ. of Agri. & Tech., Dept. of Appl. Chem.) HOJO, Daiki; HIRANO, Masao; TANAKA, Ken

- 1F2-19** Cationic Rhodium(I) Complex-Catalyzed Enantioselective Dimerization of Heteroatom-Linked 5-Alkynals (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) TANAKA, Rie; HIRANO, Masao; TANAKA, Ken
- 1F2-20** Facile Synthetic Procedure for Multi-thienylbenzenes using $\text{RhCl}_3/\text{amine}$ -Catalyzed Cyclotrimerization (Graduate School of Natural Science and Technology, Okayama Univ.) MORIMOTO, Ichiro; YOSHIDA, Kenta; MITSUDO, Koichi; TANAKA, Hideo

Friday, March 27, PM

Chair: HIRANO, Koji (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1F2-28, 1F2-29, 1F2-30, 1F2-31, 1F2-32, 1F2-33)
- 1F2-28** A N-Linked Bidentate Phosphoramidite Ligand for Rhodium-Catalyzed Asymmetric 1,4-Addition of Arylboronic Acids (Graduate School of Engineering, Hokkaido Univ.) TAKAHASHI, Yoshinori; KURIHARA, Kazunori; YAMAMOTO, Yasunori; MIYAUURA, Norio
- 1F2-29** Asymmetric 1,4-addition of Boronic Acid Using Rh Catalyst Bearing Novel Fluorine-Containing Chiral Diphosphine Ligand (Okayama Univ.) KORENAGA, Toshinobu; OSAKI, Kazutaka; MAENISHI, Ryota; EMA, Tadashi; SAKAI, Takashi
- 1F2-30** Synthesis of (Z)- α -Vinylstilbene via Rhodium-Catalyzed Addition of Organoboronic Acids to Allenols and β -Oxygen Elimination (Graduate School of Engineering, Kyoto Univ.) IGARASHI, Tomohiro; SHIMIZU, Hiroshi; MIURA, Tomoya; MURAKAMI, Masahiro
- 1F2-31** Preparation of Chiral Tetrafluorobenzobarrelene Ligands and Their Use in the Rhodium-catalyzed Asymmetric Addition of Organoboron Reagents (Graduate School of Science, Kyoto Univ.) NISHIMURA, Takahiro; KUMAMOTO, Hana; HAYASHI, Tamio
- 1F2-32** Rhodium-Catalyzed Cross-Coupling of Vinylacetates with Arylboron Compounds (Kyushu Univ.) YU, Jung-yi; KUWANO, Ryoichi
- 1F2-33** Rhodium-Catalyzed Asymmetric 1,4-Addition of (Triisopropylsilyl) acetylene to α,β -Unsaturated Aldehydes (Graduate School of Science, Kyoto Univ.) NISHIMURA, Takahiro; SAWANO, Takahiro; HAYASHI, Tamio

Chair: YAMAMOTO, Yasunori (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1F2-35, 1F2-36, 1F2-37, 1F2-39)
- 1F2-35** Synthesis of C_2 -symmetric Axially Chiral Biaryl diphosphine Ligands through Cationic Rhodium(I) Complex-Catalyzed Double [2+2+2] Cycloaddition (Tokyo Univ. of Agri. & Tech., Dept. of Appl. Chem. and Takasago Int. Corp.) NISHIDA, Goushi; YUSA, Yukinori; YOKOZAWA, Tohru; TANAKA, Ken
- 1F2-36** Synthesis of Axially Chiral Biaryl Carboxylates by Cationic Rhodium (I) Complex-Catalyzed [2+2+2] Cycloaddition (Tokyo Univ. of Agri. & Tech., Dept. of Appl. Chem.) OGAKI, Shuichiro; TANAKA, Rie; NISHIDA, Goushi; TANAKA, Ken
- 1F2-37*** Development of New Synthetic Methods of Chiral Diene Ligands and Their Application to Rhodium-Catalyzed Asymmetric Addition Reactions. (Graduate School of Science, Kyoto Univ.) OKAMOTO, Kazuhiro; HAYASHI, Tamio; RAWAL, Viresh H.
- 1F2-39*†** Rhodium-Complex-Catalyzed CO-Retentive Addition Reactions of α -Keto Acid Chlorides with Terminal Alkynes (Chemical Resources Laboratory, Tokyo Institute of Technology) KASHIWABARA, Taigo; TANAKA, Masato

Chair: SHINTANI, Ryo (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1F2-42, 1F2-44, 1F2-45, 1F2-46, 1F2-47)
- 1F2-42*** Rhodium-Catalyzed C-C Bond Formation Reaction via Silicon-Assisted C-CN Bond Cleavage (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; KITA, Yusuke; CHATANI, Naoto
- 1F2-44** Rhodium-Catalyzed Reductive Decyanation of Nitriles with Hydro-silane (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; NAKAMURA, Ryo; CHATANI, Naoto
- 1F2-45** Rhodium-Catalyzed Synthesis of Siloles via the Cleavage of Carbon-Silicon Bond of Trimethylsilyl Group (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; ONOE, Masahiro; CHATANI, Naoto
- 1F2-46** Synthesis of Substituted Phenols by Cationic Rhodium(I) Complex-Catalyzed Decarboxylative [2+2+2] Cycloaddition (Department of Applied Chemistry, Tokyo Univ. of Agriculture and Technology) HARA, Hiromi; HIRANO, Masao; TANAKA, Ken
- 1F2-47** Cationic Rhodium(I) Complex-Catalyzed Highly Selective Carboxylative Cyclization of 1,6-Diynes (Department of Applied Chemistry, Tokyo Univ. of Agriculture and Technology) SAITOU, Shunsuke; HARA, Hiromi; HIRANO, Masao; TANAKA, Ken

Chair: KUWANO, Ryoichi (17 : 00~18 : 10)

- * 16:50-17:00: interval for laptop PC connection.(1F2-49, 1F2-50, 1F2-51, 1F2-52, 1F2-53, 1F2-54, 1F2-55)

- 1F2-49** Rhodium-Catalyzed Kinetic Resolution of Tertiary Homoallyl Alcohols via Stereoselective Carbon-Carbon Bond Cleavage (Graduate School of Science, Kyoto Univ.) SHINTANI, Ryo; TAKATSU, Keishi; HAYASHI, Tamio
- 1F2-50** Synthesis of halohydrin esters by rhodium-catalyzed one-pot reaction with alkyl halides, epoxides, and carbon monoxide (The Univ. of Tokyo, Graduate School of Engineering) NAKANO, Koji; KODAMA, Shunsuke; PERMANA, Yessi; NOZAKI, Kyoko
- 1F2-51** Rhodium-Catalyzed Oxidative Coupling of Phenylazoles with Internal Alkynes (Faculty of Engineering, Osaka Univ.) UMEDA, Nobuyoshi; TSURUGI, Hayato; SATOH, Tetsuya; MIURA, Masahiro
- 1F2-52*** Preparation of phenol derivatives by rhodium catalyzed carbonylation of 1,4-enyne esters (Osaka Pref. Univ.) BRANCOUR, Celia; FUKUYAMA, Takahide; OTA, Yuko; RYU, Ilhyong; DHIMAN, Anne-lise; FENSTERBANK, Louis; MALACRIA, Max
- 1F2-53** Rhodium-Catalyzed Synthesis of Multiply Substituted Naphthalenes through Cross Cycloaddition of Internal Alkynes. (Faculty of Engineering, Osaka Univ.) SAKABE, Koichi; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 1F2-54** Rh(I)-Catalyzed Cyclocarbonylation Reaction of Enynes with Glucose (Nara Institute of Science and Technology) MORIMOTO, Tsumoru; IKEDA, Keiichi; KAKIUCHI, Kiyomi
- 1F2-55** Rhodium-Catalyzed Isomerization of 3-Arylcyclobutanols to 1-Indanols via Enantioselective Carbon-Carbon Bond Cleavage (Kyoto Univ.) YAMAMOTO, Taiga; SHIGENO, Masanori; MURAKAMI, Masahiro

Saturday, March 28, AM

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Chair: ARISAWA, Mieko (9 : 00~9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(2F2-01, 2F2-02, 2F2-03, 2F2-04, 2F2-05)
- 2F2-01** Rhodium-Catalyzed Cyclization of *o*-Alkynylphenols (Tokyo Univ. of Science) MATSUDA, Takanori; FUJISAKI, Yosuke; TSUBOI, Tomoya; MURAKAMI, Masahiro
- 2F2-02** Rh-Catalyzed [2+2+2] Cycloaddition for Highly Diastereo- and Enantioselective Construction of Both Central and Axial Chiralities (Waseda Univ.) OTOMO, Mayumi; TAHARA, Yu-ki; ENDO, Kohei; SHIBATA, Takanori
- 2F2-03** Synthesis and Applications of Axially Chiral Phosphine Ligands with Alcohol Moieties. (Graduate School of Science, Kobe Univ.) MORIKAWA, Satoshi; AMII, Hideki
- 2F2-04** Preparation and Enantioselectivity of New P-Chiral Phosphine Ligands (Nippon Chemical Industrial Co., Ltd., Chiba Univ.) TAMURA, Ken; SUGIYA, Masashi; OGURA, Tomokazu; YOSHIDA, Kazuhiro; YANAGISAWA, Akira; IMAMOTO, Tsuneo
- 2F2-05** Synthesis of Polyacetylenes through Rhodium/Chiral Diene-Catalyzed Asymmetric Polymerization of Achiral Monomers (Graduate School of Science, Kyoto Univ.) NISHIMURA, Takahiro; ICHIKAWA, Yoshitaka; HAYASHI, Tamio; ONISHI, Naoya; SHIOTSUKI, Masashi; MASUDA, Toshio

Chair: MIURA, Tomoya (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(2F2-07, 2F2-08, 2F2-09, 2F2-10, 2F2-11)
- 2F2-07** Asymmetric Cycloisomerization of 1,6-Enynes Catalyzed by a Rhodium Complex Coordinated with a π -Accepting Chiral Diene Ligand (Graduate School of Science, Kyoto Univ.) NISHIMURA, Takahiro; KAWAMOTO, Takahiro; HAYASHI, Tamio
- 2F2-08** Synthesis of Azadibenzofuran Derivatives through Cationic Rhodium (I) Complex-Catalyzed [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) KOMINE, Yoshiyuki; HIRANO, Masao; TANAKA, Ken
- 2F2-09** Synthesis of Enantioenriched [9]Helicene-Like Molecules by Cationic Rhodium(I) Complex-Catalyzed Double [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) FUKAWA, Naohiro; SUDA, Takeshi; HIRANO, Masao; TANAKA, Ken
- 2F2-10** Rhodium-Catalyzed Intramolecular Asymmetric [5 + 2] Cycloaddition of Alkyne-Vinylcyclopropanes (Graduate School of Science, Kyoto Univ.) SHINTANI, Ryo; NAKATSU, Hiroki; TAKATSU, Keishi; HAYASHI, Tamio
- 2F2-11** Synthesis of Axially Chiral Aryl Ketones by Cationic Rhodium(I) Complex-Catalyzed [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) SUDA, Takeshi; HIRANO, Masao; TANAKA, Ken

Chair: ENDOU, Kouhei (11 : 00~12 : 00)

- * 10:50-11:00: interval for laptop PC connection.(2F2-13, 2F2-14, 2F2-15, 2F2-16, 2F2-17, 2F2-18)
- 2F2-13** Rhodium-Catalyzed addition reaction of diphosphine disulfide to aldehydes (Tohoku Univ.) ARISAWA, Mieko; YAMAGUCHI, Masahiko
- 2F2-14** Rhodium-catalyzed dimethylthiophosphinylation reaction of hexafluorobenzene (Tohoku Univ.) ARISAWA, Mieko; SUZUKI, Takaaki;

YAMAGUCHI, Masahiko

- 2F2-15** Rhodium-Catalyzed Phosphinylation Reaction of Acid Fluoride using Diphosphine Disulfide (Tohoku Univ.) ARISAWA, Mieko; YAMADA, Toru; YAMAGUCHI, Masahiko
- 2F2-16** 1-Pyrrolidinedicarbonyl-Directed Alkenylation of sp^2 C-H Bonds Catalyzed by a Cationic Rhodium(I) Complex (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) SHIBATA, Yu; OTAKE, Yousuke; HIRANO, Masao; TANAKA, Ken
- 2F2-17** Isomerizations of Allyl Propargyl Ethers through Cationic Rhodium(I) Complex-Catalyzed Sequential Activation of σ - and π -Bonds (Department of Applied Chemistry, Graduate school of Engineering, Tokyo Univ. of Agriculture and Technology) OKAZAKI, Eri; SHIBATA, Yu; HIRANO, Masao; TANAKA, Ken
- 2F2-18[†]** Asymmetric Conjugate Addition Using C_2 -Symmetrical Dppe-Type P-Chiral Ligands Having Substituents Merely at Their Para-Positions (Graduate School of Science, Kyoto Univ.) SHIRAKAWA, Eiji; KAWATA, Yuji; NARUI, Rintaro; HAYASHI, Tamio

Saturday, March 28, PM

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Chair: ONODERA, Gen (13:10~14:10)

- * 13:00-13:10: interval for laptop PC connection.(2F2-26, 2F2-27, 2F2-28, 2F2-29, 2F2-30, 2F2-31)
- 2F2-26** Cobalt-catalyzed isomerization of terminal alkenes into internal ones with Grignard reagents (Graduate School of Engineering, Kyoto Univ.) KOBAYASHI, Tsuneyuki; YORIMITSU, Hideki; OSHIMA, Koichiro
- 2F2-27** Cobalt-catalyzed arylation of alkynes with arylzinc reagents (Graduate School of Engineering, Kyoto Univ.) MURAKAMI, Kei; YORIMITSU, Hideki; OSHIMA, Koichiro
- 2F2-28** Pd-catalyzed Coupling Reaction of Alkyne-Cobalt Carbonyl Complexes (Tokyo Institute of Technology) FUJITA, Akiko; TAKAYA, Jun; IWASAWA, Nobuharu
- 2F2-29[#]** Cobalt-Catalyzed Direct Arylation of 2-Arylpyridine Derivatives (Univ. of Tokyo) CHEN, Quan; YAMAKAWA, Takeshi; YOSHIKAI, Naohiko; NAKAMURA, Eiichi
- 2F2-30** Iridium-catalyzed coupling reaction of alcohols with acetates (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) IUCHI, Yosuke; OBORA, Yasushi; ISHII, Yasutaka
- 2F2-31[†]** Synthesis of Coupling Modules for Iterative Cross-Coupling through-Iridium-catalyzed C-H Borylation and Their Application to Dendrimer Synthesis. (Kyoto Univ.) SUGINOME, Michinori; IWADATE, Noriyuki

Chair: SATOH, Tetsuya (14:20~15:20)

- * 14:10-14:20: interval for laptop PC connection.(2F2-33, 2F2-35, 2F2-36, 2F2-37, 2F2-38)
- 2F2-33*** Asymmetric Hydrogenation of 2-Arylquinolines Catalyzed by Cationic Dinuclear Halogen-bridged Iridium(III) Complexes and Application to Synthesis of Bioactive Compound (Graduate School of Engineering Science, Osaka Univ.; Ecole Nationale Supérieure de Chimie de Paris) TADAOKA, Hiroshi; NAGANO, Takuto; CARTIGNY, Damien; AYAD, Tahar; RATOVELOMANANA-VIDAL, Virginie; OHSHIMA, Takashi; GENET, Jean-Pierre; MASHIMA, Kazushi
- 2F2-35** Asymmetric Hydrogenation of 2-Substituted Quinoxalines Catalyzed by Cationic Dinuclear Halogen-bridged Iridium(III) Complexes (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
- 2F2-36** Iridium complex-catalyzed reaction of ethanol to ethyl acetate (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) YAMAMOTO, Nobuyuki; OBORA, Yasushi; ISHII, Yasutaka
- 2F2-37** Functional metal complexes towards regioselective C-H activation (Tokyo Institute of Technology) MIYAMAE, Aki; MIZUNO, Akio; KUSAMA, Hiroyuki; IWASAWA, Nobuharu
- 2F2-38** Catalytic hydrogenation of carbon dioxide to form formic acid using PNP-pincer iridium complexes (The Univ. of Tokyo) TANAKA, Ryo; YAMASHITA, Makoto; NOZAKI, Ryoko

Chair: FUJIHARA, Tetsuaki (15:30~16:30)

- * 15:20-15:30: interval for laptop PC connection.(2F2-40, 2F2-41, 2F2-42, 2F2-43, 2F2-44, 2F2-45)
- 2F2-40** Iridium-catalyzed coupling reaction of aromatic alcohols with internal alkynes (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) HATANAKA, Shintaro; OBORA, Yasushi; ISHII, Yasutaka
- 2F2-41[†]** C_2 -Symmetric Tetrafluorobenzobarrelenes as Highly Efficient Ligands for the Iridium-Catalyzed Asymmetric Cycloaddition of 1,3-Dienes with 2-Formylphenylboron Reagents (Graduate School of Science, Kyoto Univ.) NISHIMURA, Takahiro; YASUHARA, Yuichi; HAYASHI, Tamio
- 2F2-42** Iridium-Catalyzed [2+2+2] Cycloaddition of Dienes with Nitriles (Aoyama Gakuin Univ.) ONODERA, Gen; SHIMIZU, Yoshihisa; KIMURA, Jun-na; TAKEUCHI, Ryo
- 2F2-43** *ortho*-Borylation of Arenes Catalyzed by a Silica Supported Compact

Phosphine-Iridium System (Department of Chemistry, Faculty of Science, Hokkaido Univ.) KAWAMORITA, Soichiro; OHMIYA, Hirohisa; SAWAMURA, Masaya

- 2F2-44** Synthesis of benzofuran and indole derivatives via cationic iridium-catalyzed C-H activation (Waseda Univ.) HASHIMOTO, Yu-ki; TSUCHIKAMA, Kyoji; ENDO, Kohei; SHIBATA, Takanori
- 2F2-45** Iridium-Catalyzed Enantioselective Allylic Alkylation of 2,4-Dienyl Acetates Using a Novel Chiral Phosphoramidite Bearing an Amide Moiety (Aoyama Gakuin Univ.) ONODERA, Gen; ODA, Kazuhiro; MATSUBARA, Masaki; TAKEUCHI, Ryo

Chair: NISHIMURA, Takahiro (16:40~17:30)

- * 16:30-16:40: interval for laptop PC connection.(2F2-47, 2F2-48, 2F2-49, 2F2-50, 2F2-51)
- 2F2-47** Iridium complex-catalyzed alkylation of active methylene compounds with alcohols (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) HYOTANISHI, Megumi; OBORA, Yasushi; ISHII, Yasutaka
- 2F2-48** Iridium-Catalyzed Addition of Acid Chlorides to Terminal Alkynes and Its Application to Synthesis of Furans (Graduate School of Engineering, Kyoto Univ.) IWAI, Tomohiro; FUJIHARA, Tetsuaki; TERAOKA, Jun; TSUJI, Yasushi
- 2F2-49** Dehydrogenative Oxidation of Alcohols Catalyzed by Cp*Ir-Complexes Having Functionalized Pyridine Ligands (Kyoto Univ.) IMORI, Yoichiro; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 2F2-50** The regioselective and diastereoselective synthesis of 1,2-amino alcohols using transition metal catalyst. (Kochi Univ.) YAMAMOTO, Syunichi; ICHIKAWA, Yoshiyasu
- 2F2-51** Iridium-Catalyzed Decarbonylation of Aliphatic Carboxylic Acids Leading to Internal Alkenes (Graduate School of Science, Osaka Prefecture Univ.; Kao Corporation) FUKUYAMA, Takahide; MAETANI, Shinji; RYU, Ilhyong; TAHARA, Hideo; SUZUKI, Nobuyoshi; ISHIIHARA, Daisuke

Sunday, March 29, AM

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Chair: KANNO, Ken-Ichiro (9:20~10:10)

- * 9:10-9:20: interval for laptop PC connection.(3F2-03, 3F2-04, 3F2-05, 3F2-06, 3F2-07)
- 3F2-03** Development of Scandium-Catalyzed Carboalumination (1) Regioselective Methylalumination of Internal Alkynes (RIKEN) TAKIMOTO, Masanori; HOU, Zhaomin
- 3F2-04** Development of Scandium-Catalyzed Carboalumination (2) Regioselective Methylalumination of Alkenes (RIKEN) USAMI, Saori; TAKIMOTO, Masanori; HOU, Zhaomin
- 3F2-05** Alternative copolymerization of carbon dioxide and epoxide catalyzed by scandium salt (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences; The Univ. of Tokyo; ERATO, JST) HOSOKAWA, Tsuyoshi; AKIYAMA, Ryo; KOBAYASHI, Shu
- 3F2-06** Dehalogenation of 1,1-Dihaloalkenes with Lanthanum Metal (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) YUASA, Takumi; NISHIYAMA, Yutaka

Ti, Zr

- 3F2-07** Highly Stereoselective C-C Bond Formation based on Chiral Titanium Enolate of α -CF₃ Ketones and its Application to Chiral Liquid Crystalline Molecules (Graduate School of Science and engineering Tokyo Institute of Technology) HAN, Nan; AMIKURA, Kazutoshi; ITOH, Yoshimitsu; ITO, Shigekazu; MIKAMI, Koichi

Chair: TAKIMOTO, Masanori (10:20~11:10)

- * 10:10-10:20: interval for laptop PC connection.(3F2-09, 3F2-10, 3F2-11, 3F2-12, 3F2-13)
- 3F2-09[#]** Ring Extension Reaction of Polycyclic Zirconacyclopentadienes with Indenyl Ligands (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Education; SORST) REN, Shenyong; KANNO, Ken-ichiro; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 3F2-10** Titanocene(II)-promoted Cross Coupling between Acrylates and Alkynes (Tokyo Univ. of Agric. and Tech.) OISHI, Shigeki; OHMIKA, Kaoru; TSUBOUCHI, Akira; TAKEDA, Takeshi
- 3F2-11** Synthesis of Polyfluoroalkylated Enamines based on Perfluoroalkyl Titanium Reagent and its Application to Catalytic Asymmetric Reactions (Tokyo Institute of Technology) ZHAI, Lili; MIMURA, Shunsuke; MURASE, Tatsushi; ITOH, Yoshimitsu; ITO, Shigekazu; MIKAMI, Koichi
- 3F2-12** Effect of Hetero Atom in Zr-Catalyzed Methylalumination (Graduate School of Science, Hiroshima University; Japan Polychem Corporation) IGATA, Nao; YAMAMOTO, Kazuhiro; TAKAGI, Ryukichi; KOJIMA, Satoshi; ABE, Manabu
- 3F2-13** Preparation of Conjugated Dienes by the Titanocene(II)-promoted Alkylation of Propargyl Alcohol Derivatives (Tokyo Univ. of Agric. and Tech.) YATSUMONJI, Yasutaka; TAKEUCHI, Yuichiro; TSUBOUCHI, Akira; TAKEDA, Takeshi

Chair: TAKAGI, Ryukichi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3F2-15, 3F2-16, 3F2-17, 3F2-18, 3F2-19)

3F2-15* Synthesis of Cyclic Compounds by Reaction of Zirconocene(II) Complex with Organic Halides (Catalysis Research Center, Hokkaido Univ.; SEEDS INNOVATION-JST) ZHOU, Lishan; SONG, Zhiyi; KANNO, Ken-ichiro; TAKAHASHI, Tamotsu

3F2-16 Regio- and Diastereoselective Addition of Silyl Substituted Allyltitanocenes to Ketones (Tokyo Univ. of Agric. and Tech.) OISHI, Shigeki; WASA, Hideki; TSUBOUCHI, Akira; TAKEDA, Takeshi

3F2-17 Highly Diastereoselective Preparation of Homoallylic Alcohols with Three Adjacent Stereogenic Centers by the Reaction of Ketones with Allyltitanocenes Generated from Allylic Sulfides (Tokyo Univ. of Agric. and Tech.) TAKEDA, Takeshi; NISHIMURA, Takuya; YATSUMONJI, Yasutaka; TSUBOUCHI, Akira

3F2-18 Diastereoselective Preparation of *syn*-Homoallylic Alcohols Utilizing Allenyltitanocenes Generated by the Reductive Titanation of γ -Silylpropargylic Carbonates with Ketones (Tokyo Univ. of Agric. and Tech.) YATSUMONJI, Yasutaka; SUGITA, Takenori; TSUBOUCHI, Akira; TAKEDA, Takeshi

3F2-19* Zirconocene-Mediated Synthesis of Triene Derivatives via Highly Selective Three-Component Coupling and Their 7-Endo Cyclization (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Education; SORST) IGARASHI, Eri; KANNO, Ken-ichiro; REN, Shenyong; ZHOU, Lishan; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

Sunday, March 29, PM

Chair: TSUCHIMOTO, Teruhisa (13 : 30~14 : 40)

* 13:20-13:30: interval for laptop PC connection.(3F2-28, 3F2-29, 3F2-30, 3F2-31, 3F2-32, 3F2-33, 3F2-34)

3F2-28 Structural study of allylic indium dibromide based on X-ray analysis (Osaka Univ.) YASUDA, Makoto; HAGA, Masahiko; BABA, Akio

3F2-29 Indium-Catalyzed [1+n] Annulation Reaction between β -Ketoester and α,ω -Diyne (The Univ. of Tokyo) TANAKA, Iku; YAMAGATA, Ken-ichi; ENDO, Kohji; TSUJI, Hayato; NAKAMURA, Masaharu; NAKAMURA, Eiichi

3F2-30 Characterization and Reaction of Butenylindium Generated by Transmetalation between Cyclopropylmethylstannane and Indium Halides (Osaka Univ.) YASUDA, Makoto; KIYOKAWA, Kensuke; BABA, Akio

3F2-31 Selective reduction of ketones using indium bromide and triethylsilane (Tokyo Univ. of Science) SAKAI, Norio; NAGASAWA, Ken; KONAKAHARA, Takeo

3F2-32 Esters as Acylating Reagent in a Friedel-Crafts Reaction: Indium Tribromide Catalyzed Acylation of Arenes Using Dimethylchlorosilane (Osaka Univ.) NISHIMOTO, Yoshihiro; BABU, S. A.; YASUDA, Makoto; BABA, Akio

3F2-33 Indium-mediated stereo- and regioselective propargylation of azirines (Graduated School of Engineering, Nagoya Institute of Technology) KIMURA, Hiroya; HIRASHITA, Tsunehisa; ARAKI, Shuki

3F2-34 Direct Coupling of Silyl Ethers with Enol Acetates Catalyzed by Combined Lewis Acid of Indium Trichloride and Trimethylsilyl Bromide (Osaka Univ.) NISHIMOTO, Yoshihiro; ONISHI, Yoshiharu; YASUDA, Makoto; BABA, Akio

Chair: YASUDA, Makoto (16 : 40~17 : 50)

* 16:30-16:40: interval for laptop PC connection.(3F2-47, 3F2-48, 3F2-49, 3F2-50, 3F2-51, 3F2-52, 3F2-53)

3F2-47 Indium-Catalyzed Alkylation of Terminal Alkynes with Allylstannanes (Univ. of Tsukuba, Saitama Univ.) MIURA, Katsukiyo; ITO, Keisuke; ICHIKAWA, Junji; HOSOMI, Akira

3F2-48 Easy Access to Aryl-Annulated[c]Carbazoles Utilizing Indium-Catalyzed Annulation of 3-Arylindoles with Propargyl Ethers (School of Science and Technology, Meiji Univ. Graduate School of Science, Kyoto Univ. Japan Advanced Institute of Science and Technology) TSUCHIMOTO, Teruhisa; SHIRAI, Hiroyuki; KANEKO, Masayoshi; SHIRAKAWA, Eiji

3F2-49 Indium-Catalyzed Intramolecular Reaction of Silyl Enolates with Alkynes (Univ. of Tsukuba, Saitama Univ.) MIURA, Katsukiyo; YAMAMOTO, Kiyomi; ICHIKAWA, Junji; HOSOMI, Akira

3F2-50 In(OTf)₃ Catalyzed Addition Reaction of Enolsilanes to Alkynes (Osaka City Univ.) HATANAKA, Yasuo; SEKI, Eiko; TSUDA, Shouhei; MINAMI, Tatsuya

3F2-51 Indium-Catalyzed Reductive Alkylation of Pyrroles with Carbonyl Compounds and Hydrosilanes : Selective Synthesis of β -Alkylpyrroles (School of Science and Technology, Meiji Univ.) TSUCHIMOTO, Teruhisa; IGARASHI, Motohiro

3F2-52 Indium-Catalyzed Three-Component Assembly of Carbonyl Compounds, Pyrroles and Carbon Nucleophiles (School of Science and Technology, Meiji Univ.) TSUCHIMOTO, Teruhisa; AOKI, Kazuki

3F2-53 Indium-Catalyzed Reductive Alkylation of Indoles with Alkynes and Hydrosilanes (School of Science and Technology, Meiji Univ.) TSUCHIMOTO, Teruhisa; KANBARA, Mitsutaka

Monday, March 30, AM

Li, Mg, Ga, Sm

Chair: UMEZAWA, Taiki (9 : 30 ~ 10 : 20)

* 9:20-9:30: interval for laptop PC connection.(4F2-04, 4F2-05, 4F2-06, 4F2-07, 4F2-08)

4F2-04 Four-component coupling reactions of thioformesters, lithium acetylides, Grignard reagents and electrophiles. (Department of Chemistry, Faculty of Engineering, Gifu Univ.) OOHASHI, Takayuki; MURAI, Toshiaki

4F2-05 Grignard-Cross Coupling Reaction of Fluoroalkanes without Metal Catalysts (Fukuoka Univ. Faculty of Sci.) ISHIBASHI, Tomoka; KOGA, Yuji; MATSUBARA, Kouki

4F2-06 Tandem Cyclization of Functionalized Enynes with Concomitant Incorporation of Two Molecules of Grignard Reagent (Tokyo Institute of Technology) HATA, Takeshi; URABE, Hirokazu

4F2-07 Generation and Utilization of Alkylmetal Reagents Having a Protected Amino Group at their γ Position (Tokyo Institute of Technology) KATO, Yuzo; HATA, Takeshi; URABE, Hirokazu

4F2-08 Selective 1,4-Conjugate Addition of Silyllithium to $\alpha,\beta,\gamma,\delta$ -Unsaturated Carbonyl Compounds (Tokyo Institute of Technology) HIRONE, Naoki; HATA, Takeshi; URABE, Hirokazu

Chair: HATA, Takeshi (10 : 30~11 : 20)

* 10:20-10:30: interval for laptop PC connection.(4F2-10, 4F2-11, 4F2-12, 4F2-13, 4F2-14)

4F2-10 Control of Property of Gallium Complexes with Cage-Shaped Structure (Osaka Univ.) YASUDA, Makoto; NAKAJIMA, Hideto; BABA, Akio

4F2-11 GaCl₃- and TiCl₄-Catalyzed Insertion of Isocyanides into a C-S Bond of Dithioacetals (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; ITO, Sana; CHATANI, Naoto

4F2-12 Intermolecular Babier-type Coupling Using SmI₂ and Pd(0)-Catalyst (Hokkaido Univ.) UEDA, Tomoya; AMAGASA, Katsuki; UMEZAWA, Taiki; MATSUDA, Fuyuhiko

B

4F2-13 Synthesis of Aromatic Organoboron Compounds via Cycloaddition Reaction Using *o*-Quinodimethanes (Graduate School of Engineering, Hiroshima Univ.) YOSHIDA, Hiroto; MUKAE, Masashi; OHSHITA, Joji

4F2-14 Substituent Effect on Ortho Metalation of Boron-substituted Benzenes Using TMP Base (Graduate School of Science, Hiroshima Univ.) KAWACHI, Atsushi; NAGAE, Saori; YAMAMOTO, Yohsuke

Chair: YOSHIDA, Hiroto (11 : 30~12 : 20)

* 11:20-11:30: interval for laptop PC connection.(4F2-16, 4F2-17, 4F2-18, 4F2-19)

4F2-16 Synthesis of Substituted Cage-Shaped Borate Complexes and Kinetic Study for Their Lewis Acidity (Osaka Univ.) YASUDA, Makoto; TAKEDA, Ryosuke; NAKAJIMA, Hideto; YASUDA, Akio

4F2-17 Asymmetric Mannich-Type Reaction via Boronic Enolates (Doshisha Univ.) YANAGI, Hiroyuki; TOKIZANE, Masashi; OE, Yohei; OHTA, Tetsuo

4F2-18 Palladium-Catalyzed cross coupling reaction of borazine with aryl halides (Graduate School of Engineering, Hokkaido Univ.) NAGASAWA, Yuuki; YAMAMOTO, Yasunori; MIYAUURA, Norio

4F2-19* Electronic Control of CBS Catalyst for Asymmetric BH₃ Reduction of Trifluoroacetophenone (Okayama Univ.) KORENAGA, Toshinobu; NOMURA, Kenji; ONOUE, Kazutaka; EMA, Tadashi; SAKAI, Takashi

Monday, March 30, PM

Chair: SANJI, Takanobu (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(4F2-28, 4F2-29, 4F2-30, 4F2-31, 4F2-32, 4F2-33)

4F2-28 Facile Synthesis of Polycyclic Aromatic Hydrocarbons Based on Double Cross-coupling Reaction of Bromo(bromomethyl)arenes with *vic*-Diborylated Olefins. (Grad. Sch. Eng., Kyoto Univ.) SHIMIZU, Masaki; TOMIOKA, Yosuke; NAGAO, Ikuhiro; HIYAMA, Tamejiro

Si, Sn

4F2-29* Rhodium-Catalyzed Asymmetric Conjugate Addition of Cyclic Heteroaryltrifluoroborates to α,β -Unsaturated Carbonyl Compounds (Graduate School of Engineering, Hokkaido Univ.) YU, Xiao-qi; YAMAMOTO, Yasunori; MIYAUURA, Norio

4F2-30 Zirconocene-Mediated Stereoselective Synthesis of Alkenylsilanes and the Substituent Effect in Cross-Coupling Reaction (Graduate School of Natural Science and Technology, Okayama Univ.) NISHIHARA, Yasushi; SAITO, Daisuke; TANEMURA, Kenki; TAKAGI, Kentaro

4F2-31 Highly Selective Synthesis of Multisubstituted Alkenylsilanes from Alkynylsilanes with a Zirconocene Complex (Graduate School of Natural

Science and Technology, Okayama Univ.) NISHIHARA, Yasushi; TANEMURA, Kenki; SAITO, Daisuke; TAKAGI, Kentaro

4F2-32 Alkyl Cross-coupling Reaction through Intramolecular Activation of Silane Reagents (Graduate School of Engineering, Kyoto Univ.) TAKEDA, Masahide; NAKAO, Yoshiaki; HIYAMA, Tamejiro

4F2-33 Palladium-Catalyzed Cross-Coupling Reactions of Alkynylsilanes with Aryl Iodides (Graduate School of Natural Science and Technology, Okayama Univ.) NISHIHARA, Yasushi; INOUE, Eiji; OKADA, Yoshiaki; TAKAGI, Kentaro

Chair: NISHIHARA, Yasushi (14 : 40~15 : 30)

* 14:30-14:40: interval for laptop PC connection.(4F2-35, 4F2-36, 4F2-37, 4F2-38, 4F2-39)

4F2-35[†] Intramolecular Coupling of 2-[2-(Trifluoromethanesulfonyloxy)phenylsilyl]indoles through Silyl Migration (Grad. Sch. Eng., Kyoto Univ.) MOCHIDA, Kenji; SHIMIZU, Masaki; HIYAMA, Tamejiro

4F2-36 Preparation and reactions of azido functionalized alkoxy silanes (AIST; ISC) MIYAZAWA, Akira; KULTYSHEV, Roman

4F2-37 Coupling reaction of allylic silanes and allylic alcohols with N-chlorosuccinimide and tin(II) chloride (Sophia Univ.) TEJIMA, Kazuki; MASUYAMA, Yoshiro

4F2-38 Straightforward Synthesis of Polycyclic Aromatic Hydrocarbons Based on Double Cross-coupling Reaction of 9-Stannafluorenes and Dihaloarenes (Grad. Sch. Eng., Kyoto Univ.) NAGAO, Ikuhiro; SHIMIZU, Masaki; HIYAMA, Tamejiro

4F2-39 Stereoselective Preparation of Enol Silyl Ethers by Three-component Coupling of Silyl Substituted Unsaturated Ketones, Organocopper Reagents, and Organic Halides (Tokyo Univ. of Agriculture and Technology) TSUBOUCHI, Akira; ENATSU, Shouko; KANNO, Ryo; TAKEDA, Takeshi

Chair: SHIMIZU, Masaki (15 : 40~16 : 30)

* 15:30-15:40: interval for laptop PC connection.(4F2-41, 4F2-42, 4F2-43, 4F2-44, 4F2-45)

4F2-41 Iridium-Catalyzed Vinylic C-H Silylation by Fluorodisilanes (Hokkaido Univ.) TAKATA, Rumi; KISHIDA, Emi; ISHIYAMA, Tatsuo; MIYAUURA, Norio

4F2-42 Lewis acid-catalyzed hydro-oligosilylation of alkynes (Tokyo Institute of Technology) KATO, Nobu; TAMURA, Yusuke; SANJI, Takanobu; TANAKA, Masato

4F2-43 Development on Catalytic Synthesis of Heterocycles Using Tin Alkoxide (Research Center for Environmental Preservation) SHIBATA, Ikuya; KOJIMA, Ryota; TSUNOI, Shinji

4F2-44 Synthesis of Novel Chiral Tin Catalysts and Their Application to Asymmetric Mannich-Type Reaction (Graduate School of Science, Chiba Univ.) IZUMISEKI, Atsuto; SATOU, Tomoya; YOSHIDA, Kazuhiko; YANAGISAWA, Akira

4F2-45 Synthesis of tetrasubstituted alkenes via the selective addition of trimethylstannyl lithium to alkynes (Univ. of Tokyo) UEDA, Yasuyuki; ILIES, Laurean; TSUJI, Hayato; NAKAMURA, Eiichi

Room F3
Bldg.10 1013

Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

Friday, March 27, AM

V, Nb, W, Mn, Re

Chair: OBORA, Yasushi (9 : 30 ~ 10 : 20)

* 9:20-9:30: interval for laptop PC connection.(1F3-04, 1F3-05, 1F3-06, 1F3-07)

1F3-04 Selective Oxovanadium(V)-promoted Oxidative Coupling (Osaka Univ.) AMAYA, Toru; TSUKAMURA, Yusuke; HIRAO, Toshikazu

1F3-05 Vanadium-Catalyzed Oxidative Bromination under Molecular Oxygen (Osaka Univ.) KIKUSHIMA, Kotaro; MORIUCHI, Toshiyuki; HIRAO, Toshikazu

1F3-06 Vanadium-Catalyzed Oxidative Phenol Synthesis under Molecular Oxygen (Osaka Univ.) MORIUCHI, Toshiyuki; KIKUSHIMA, Kotaro; KAJIKAWA, Tomomi; HIRAO, Toshikazu

1F3-07^{##} Enantioselective synthesis of binols using dinuclear vanadium complexes and their applications to asymmetric catalysis. (ISIR, Osaka Univ.) DOSS, Rajesh; TAKIZAWA, Shinobu; SUZUKI, Takeyuki; SASAI, Hiroaki

Chair: NAKAMURA, Itaru (10 : 30~11 : 20)

* 10:20-10:30: interval for laptop PC connection.(1F3-10, 1F3-11, 1F3-13)

1F3-10 Study on asymmetric transcyanation catalyzed by vanadium-salalen complexes (2). (Kyushu Univ.) SAKAI, Yoshifumi; TAKAKI, Junko; MATSUMOTO, Kazuhiko; KATSUKI, Tsutomu

1F3-11* Tungsten(0)-Catalyzed Tandem Cyclization of Trienynes for the

Stereoselective Synthesis of Bicyclo[5.3.0]decane Derivatives (Tokyo Institute of Technology) ONIZAWA, Yuji; KUSAMA, Hiroyuki; IWASAWA, Nobuharu

1F3-13* Mechanistic Studies of Manganese-Catalyzed [2 + 2 + 2] Annulation Reaction of 1,3-Dicarbonyl Compounds and Terminal Alkynes (The Univ. of Tokyo) YOSHIKAI, Naohiko; ZHANG, Song-lin; YAMAGATA, Ken-ichi; TSUJI, Hayato; NAKAMURA, Eiichi

Chair: SUZUKI, Takeyuki (11 : 30~12 : 20)

* 11:20-11:30: interval for laptop PC connection.(1F3-16, 1F3-17, 1F3-18, 1F3-19, 1F3-20)

1F3-16 Low-valent Niobium-catalyzed Synthesis of N-fused Indoles by the intramolecular coupling reactions of carbon-fluorine bond and alkane carbon-hydrogen bond (Faculty of Science, Gakushuin Univ.) KANEKO, Tsukasa; FUCHIBE, Kohei; MORI, Keiji; AKIYAMA, Takahiko

1F3-17 Low-valent Niobium-mediated Synthesis of Indene Derivatives (Faculty of Science, Gakushuin Univ.) ATOBE, Kohei; FUJITA, Yukari; FUCHIBE, Kohei; MORI, Keiji; AKIYAMA, Takahiko

1F3-18 NbCl₅-catalyzed reaction of alkenes with amines (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) NISHININO, Jun-ichi; OBORA, Yasushi; ISHII, Yasutaka

1F3-19 Rhenium- and Manganese-Catalyzed Synthesis of 2-Pyranones from β -Ketoesters and Alkynes (Okayama Univ.) NISHI, Mitsumi; KAWATA, Atsushi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko

1F3-20 Construction of Bicyclo[3.3.1]nonene Skeletons from Cyclic β -Ketoesters and Terminal Alkynes (Okayama Univ.) MORITA, Junya; NISHI, Mitsumi; KAWATA, Atsushi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko

Friday, March 27, PM

Chair: TERA0, Jun (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1F3-28, 1F3-29, 1F3-30, 1F3-31, 1F3-33)

1F3-28 Rhenium-Catalyzed Insertion of Unsaturated Molecules into an Olefinic C-H Bond (Okayama Univ.) FUJII, Yasuo; MATSUKI, Takashi; NISHINA, Yuta; KUNINOBU, Yoichiro; TAKAI, Kazuhiko

1F3-29 Rhenium-Catalyzed ortho-Alkylation of Phenols (Okayama Univ.)

MATSUKI, Takashi; KUNINOBU, Yoichiro; TAKAI, Kazuhiko

1F3-30 Rhenium(I)-Catalyzed Synthesis of Substituted Phenols from Propargyl Ester Containing a Silyl Enol Ether Moiety (Tokyo Institute of Technology) SAITO, Kodai; ONIZAWA, Yuji; KUSAMA, Hiroyuki; IWASAWA, Nobuharu

1F3-31* Rhenium-Catalyzed Synthesis of Stereodefined Cyclopentenes from β -Ketoesters and Aliphatic Allenes (Okayama Univ.) Yudha S., Salprima; KUNINOBU, Yoichiro; TAKAI, Kazuhiko

1F3-33 Rhenium-Catalyzed Regioselective Addition of β -Enamino Esters to Allenes (Okayama Univ.) YAMASHITA, Atsuhiko; YUDHA S., Salprima; KUNINOBU, Yoichiro; TAKAI, Kazuhiko

Pt, Au

Chair: HIGASHIBAYASHI, Shuhei (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 Platinum-Catalyzed Hydroarylation of Propiolic Acids with Diarylalkanes (Saga Univ.) HASHIMOTO, Takuya; KITAMURA, Tsugio

1F3-36 Oxidative Additions of Acid Halide Derivatives to Pt(0) Complex: Unexpected Relative Kinetics and Evaluation of Thermodynamics using Facile Ligand Exchange Reaction (School of Engineering, Osaka Univ., Graduate School of Engineering, Osaka Univ.) NAKANE, Daisuke; KUNIYASU, Hitoshi; KAMBE, Nobuaki

1F3-37 Synthesis and structures of platinum(II) complexes with a bidentate phosphine ligand bearing a calix[6]arene moiety (Graduate School of Engineering, Kyoto Univ.) SASAKI, Ryoichi; FUJIHARA, Tetsuaki; TERA0, Jun; TSUJI, Yasushi

1F3-38 Platinum-Catalyzed Domino Acetalization-Allylation Reaction of Aldehydes with Vinylsilanes (Univ. of Tsukuba, Saitama Univ.) MIURA, Katsukiyo; FUJIMOTO, Masayuki; ICHIKAWA, Junji; HOSOMI, Akira

1F3-39 Platinum-catalyzed 1,4-Addition of Arylboronic Acids to β -Substituted α, β -Unsaturated Ketones (Graduate School of Science, Kyoto Univ.) SASAKI, Keigo; HAYASHI, Tamio

1F3-40 Platinum-Catalyzed Deacetal Cyclization via N-O Bond Cleavage (Graduate School of Science, Tohoku Univ.) SATO, Yusuke; NAKAMURA, Itaru; TERADA, Masahiro

Chair: KUNIYASU, Hitoshi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1F3-42, 1F3-43, 1F3-44, 1F3-46)

1F3-42 [3+2]-Cycloaddition Reaction of Platinum-Containing Carbonyl Ylides with Vinyl Ethers : Control of the Reaction Pathways by Cationic Platinum-Phosphine Complexes (Tokyo Institute of Technology) ISHIDA, Kento; KUSAMA, Hiroyuki; IWASAWA, Nobuharu

1F3-43[†] Withdrawn

1F3-44* Gold-Catalyzed Intramolecular Carbon-Chalcogen Bond Addition to

Alkynes (Graduate School of Science, Tohoku Univ.) SATO, Takuma; NAKAMURA, Itaru; TERADA, Masahiro

1F3-46*† Intramolecular hydroamination of unactivated alkenes catalyzed Gold nanocluster (The Graduate Univ. for Advanced Studies; Institute for Molecular Science) KITAHARA, Hiroaki; KAMIYA, Ikuyo; SAKURAI, Hidehiro

Chair: KUNINOBU, Yoichiro (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 Gold-Catalyzed Consecutive [1,2] Alkyl Migration-Oxygen Transfer Reaction of 2-Alkynyl-1-tetralones (Graduate School of Science, Tohoku Univ.) CHAN, Ching Siew; ARAKI, Toshiharu; NAKAMURA, Itaru; TERADA, Masahiro

1F3-50 Double Cyclization via Gold-Catalyzed Intramolecular Carbothiolation (Graduate School of Science, Tohoku Univ.) OKAMOTO, Masashi; SATO, Takuma; NAKAMURA, Itaru; TERADA, Masahiro

1F3-51 Au(I)-Catalyzed Cycloisomerizations Terminated by sp³ C-H Bond Insertion (Univ. of Toyama) HORINO, Yoshikazu; KURODA, Shigeyasu

1F3-52 Gold-catalyzed Novel Ring-expansion reaction (Department of Chemistry, Graduate School of Science, Tohoku Univ.) KUBOTA, Toshihiko; ASAO, Naoki

1F3-53 Gold-catalyzed Novel Dehydration Method of Alcohols (Tohoku Univ.) UMETSU, Kazuteru; ASAO, Naoki

1F3-54 Preparation and Catalytic Activity of Phosphoryl- and Alkyl-Substituted Phosphaalkene-Gold(I) Complex (Tohoku Univ.; Tokyo Institute of Technology) KUSANO, Shuhei; MORITA, Noboru; MIKAMI, Koichi; ITO, Shigekazu

Saturday, March 28, AM

Ni

Chair: KURAHASHI, Takuya (9:20~10:10)

* 9:10-9:20: interval for laptop PC connection.(2F3-03, 2F3-04, 2F3-05, 2F3-06, 2F3-07)

2F3-03 Ni-Catalyzed Coupling of Heteroarenes and Haloarenes (Dept Chem, Nagoya Univ.; JST-PRESTO) YAMAGUCHI, Junichiro; CANIVET, Jerome; BAN, Ikuya; ITAMI, Kenichiro

2F3-04* Ni-Catalyzed Addition of Arylboronate Esters to Ketones (Dept Chem, Nagoya Univ.; JST-PRESTO) BOUFFARD, Jean; ITAMI, Kenichiro

2F3-05 Nickel-Catalyzed Oxidative Amination of Ethyl Ketones at the β -Position (Kyushu Univ.) UENO, Satoshi; KUWANO, Ryoichi

2F3-06 γ -Amination of Alcohols: Nickel-Catalyzed Oxidative Amination of α -Substituted Propanols (Kyushu Univ.) USUI, Kazumi; KUWANO, Ryoichi; UENO, Satoshi

2F3-07 Nickel-Catalyzed Intramolecular Oxidative Amination of Ketones (Kyushu Univ.) SHIMIZU, Ryoisuke; KUWANO, Ryoichi; UENO, Satoshi

Chair: ITAMI, Kenichiro (10:20~11:10)

* 10:10-10:20: interval for laptop PC connection.(2F3-09, 2F3-10, 2F3-11, 2F3-12, 2F3-13)

2F3-09 Nickel-Catalyzed Suzuki-Miyaura Coupling Reaction through Ether Bond Cleavage (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; KONNO, Yuko; SHIMASAKI, Toshiaki; CHATANI, Naoto

2F3-10 Nickel-catalyzed amination reaction of anisole derivatives via C-O bond cleavage (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; SHIMASAKI, Toshiaki; CHATANI, Naoto

2F3-11 Nickel-catalyzed reactions of cyclopropyl ketones with bis(pinacolato) diboron (Graduate School of Engineering, Kyoto Univ.) SUMIDA, Yuto; YORIMITSU, Hideki; OSHIMA, Koichiro

2F3-12 Nickel-Catalyzed Cross-Coupling Reaction of Aryl Fluorides and Organozinc Reagents (The Univ. of Tokyo) NAKAMURA, Yuki; YOSHIKAI, Naohiko; NAKAMURA, Eiichi

2F3-13 Nickel-catalyzed Hydroarylation of Vinylarenes (Graduate School of Engineering, Kyoto Univ.) KASHIHARA, Natsuko; KANYIVA, Kyalo S.; NAKAO, Yoshiaki; HIYAMA, Tamejiro

Chair: YORIMITSU, Hideki (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(2F3-15, 2F3-16, 2F3-17, 2F3-18, 2F3-19, 2F3-20)

2F3-15 Nickel Catalyzed Addition of Phthalic Anhydrides to Allenes (Univ. of Kyoto; Graduate School of Engineering) OCHI, Yusuke; KURAHASHI, Takuya; MATSUBARA, Seijiro

2F3-16 Synthesis of chromones via nickel-catalyzed elimination of nitrile and alkyne insertion (Univ. of Kyoto; Graduate School of Engineering) NAKAI, Kennichiro; KURAHASHI, Takuya; MATSUBARA, Seijiro

2F3-17 Novel Synthesis of Heterocyclic Compounds via Nickel Catalyzed C-O Bond Activation (Univ. of Kyoto; Graduate School of Engineering) MAIZURU, Nobuyoshi; KURAHASHI, Takuya; MATSUBARA, Seijiro

2F3-18 Nickel-catalyzed direct conjugate addition of olefin (Faculty of Engineering, Osaka Univ.) HABA, Toshifumi; NISHIMURA, Akira; OHASHI, Masato; OGOSHI, Sensuke

2F3-19 Ni-Catalyzed Formation of Hetero-aluminacyclopentens: Cyclocondensation of Imines or Aldehydes and Alkynes and AlMe₃ (Faculty of

Engineering, Osaka Univ.) KISHIZAKI, Osamu; OHASHI, Masato; OGOSHI, Sensuke

2F3-20 Nickel-Catalyzed Coupling Reactions of Aldehydes (Faculty of Engineering, Osaka Univ.) HOSHIMOTO, Youichi; OGOSHI, Sensuke

Saturday, March 28, PM

Ni

Chair: MIURA, Tomoya (13:30~14:30)

* 13:20-13:30: interval for laptop PC connection.(2F3-28, 2F3-29, 2F3-30, 2F3-31, 2F3-32)

2F3-28 Nickel-Catalyzed Addition of Oxadiazoles to Alkynes Accompanied by C-H Bond Cleavage (Faculty of Engineering, Osaka Univ.) MUKAI, Tomoya; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

2F3-29 Nickel-Catalyzed Cross-Addition of Terminal Silylacetylenes to Propargyl Amines (Faculty of Engineering, Osaka Univ.) MATSUYAMA, Naoto; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

2F3-30 Nickel-catalyzed Cross-trimerization between Triisopropylsilylacetylene and Symmetrical Internal Acetylenes (Institute of Science and Engineering, Chuo Univ.) MURAYAMA, Hiroyuki; SUGASAWA, Jun; OGATA, Kenichi; FUKUZAWA, Shin-ichi

2F3-31 Nickel-catalyzed Cross-trimerization between Triisopropylsilylacetylene and Unsymmetrical Internal Acetylenes (Institute of Science and Engineering, Chuo Univ.) OGATA, Kenichi; FUKUZAWA, Shin-ichi

2F3-32*† Nickel-Catalyzed Alkenylative Cross-Coupling Reaction of Alkyl Sulfides (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) ISHIZUKA, Kentaro; SEIKE, Hirohumi; HATAKEYAMA, Takuji; NAKAMURA, Masaharu

Chair: OGOSHI, Sensuke (14:40~15:50)

* 14:30-14:40: interval for laptop PC connection.(2F3-35, 2F3-36, 2F3-38, 2F3-40)

2F3-35 Nickel-Catalyzed Ring-Opening Hydroacylation of Methylene-cyclopropanes (Kyoto Univ.) TANIGUCHI, Hiroki; OHMURA, Toshimichi; SUGINOME, Michinori

2F3-36*† Nickel-catalyzed Regioselective Hydroalkynylation of Styrenes and Methylene-cyclopropanes (Kyoto Univ.) SUGINOME, Michinori; SHIRAKURA, Masamichi

2F3-38*† Nickel/Lewis Acid-catalyzed Regioselective Alkenylation of 2-Pyridones and Imidazoles (Graduate School of Engineering, Kyoto Univ.) KANYIVA, Kyalo S.; IDEI, Hiroaki; LOEBERMANN, Florian; NAKAO, Yoshiaki; HIYAMA, Tamejiro

2F3-40* Functionalized Alkynes as Substrate for [3+2+2] Cycloaddition with Ethyl Cyclopropylideneacetate (TOKYO Univ. of Science) YAMASAKI, Ryu; SOTOME, Ikuo; TERASHIMA, Natsuki; KOMAGAWA, Shinsuke; MASU, Hyuma; AZUMAYA, Isao; SAITO, Shiichi

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

* 15:50-16:00: interval for laptop PC connection.(2F3-43, 2F3-44, 2F3-45, 2F3-46, 2F3-47, 2F3-48, 2F3-49)

2F3-43 Substituent Effects on the Nickel-Catalyzed [4+3+2] Cycloaddition (Faculty of Science, Tokyo Univ. of Science) KITAMURA, Takuya; MAEDA, Kyotaro; YAMASAKI, Ryu; SAITO, Shinichi

2F3-44 Synthesis of Polycyclic Compounds With 9-Membered Carbocycles by the Nickel-Catalyzed [4+3+2] Cycloaddition of Electron-deficient Alkylidene-cyclopropanes with Dienes (Faculty of Science, Tokyo Univ. of Science) KATO, Korehito; MAEDA, Kyotaro; YAMASAKI, Ryu; SAITO, Shinichi

2F3-45 Nickel-Catalyzed Denitrogenative Allene Insertion Reaction of 1,2,3-Benzotriazin-4(3H)-ones (Graduate School of Engineering, Kyoto Univ.) MORIMOTO, Masao; YAMAUCHI, Motoshi; MIURA, Tomoya; MURAKAMI, Masahiro

2F3-46*† Nickel-Catalyzed Denitrogenative Alkyne Insertion Reaction of (N)-Sulfonyl-1,2,3-Triazoles (Graduate School of Engineering, Kyoto Univ.) YAMAUCHI, Motoshi; MIURA, Tomoya; MURAKAMI, Masahiro

2F3-47 Withdrawn

2F3-48 Nickel Catalyzed Addition of Phthalic Anhydrides to Dienes (Univ. of Kyoto; Graduate School of Engineering) FUJIWARA, Kyohei; KURAHASHI, Takuya; MATSUBARA, Seijiro

2F3-49 Synthesis of chromones via nickel-catalyzed elimination of isocyanate and alkyne insertion (Univ. of Kyoto; Graduate School of Engineering) YOSHINO, Yasufumi; KURAHASHI, Takuya; MATSUBARA, Seijiro

Sunday, March 29, AM

Fe

Chair: YOSHIKAI, Naohiko (9:20~10:10)

* 9:10-9:20: interval for laptop PC connection.(3F3-03, 3F3-04, 3F3-05, 3F3-06, 3F3-07)

3F3-03 Iron-catalyzed Intramolecular Metallative Cyclization of Functionalized Enynes with Grignard Reagent (Tokyo Institute of Technology) HATA, Takeshi; IMADE, Haduki; URABE, Hirokazu

3F3-04 Iron-Catalyzed γ -Selective Substitution of γ, δ -Epoxy- α, β -Un-

saturated Carbonyl Compounds with Grignard Reagents (Tokyo Institute of Technology) HATA, Takeshi; OTSUKI, Mamoru; URABE, Hirokazu

3F3-05[†] Iron-Catalyzed Carbozincation and Addition/Ring Opening Reactions of Bicyclic Alkenes Controlled by Phosphine Ligands (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) ITOH, Takuma; NAKAMURA, Masaharu

3F3-06 Iron-Catalyzed Oxidative Coupling of Alkylamides with Arenes (Graduate School of Science, Kyoto Univ.) SHIRAKAWA, Eiji; UCHIYAMA, Nanase; HAYASHI, Tamio

3F3-07[†] Preparation of Primary Alkyl Grignard Reagents and Their Addition to Alkynes Catalyzed Cooperatively by Iron and Copper Complexes (Graduate School of Science, Kyoto Univ.) SHIRAKAWA, Eiji; IKEDA, Daiji; HAYASHI, Tamio

Chair: HATA, Takeshi (10 : 20~11 : 10)

* 10:10-10:20: interval for laptop PC connection.(3F3-09, 3F3-10, 3F3-11, 3F3-12, 3F3-13)

3F3-09 Iron-Catalyzed Suzuki-Miyaura Coupling Reactions between Alkylboron Compounds and Alkyl Halides (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) ZENMYO, Takeshi; HATAKEYAMA, Takuji; NAKAMURA, Masaharu

3F3-10 Iron-Catalyzed Coupling of Aryl Halides with Arenes (Graduate School of Science, Kyoto Univ.) SHIRAKAWA, Eiji; HIGASHINO, Tomohiro; HAYASHI, Tamio

3F3-11 Development of Spin-Control-Intended Ortho Phenylene diphosphine (SciOPP) and Its application for Iron-Catalyzed Cross-Coupling Reactions (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) FUJIWARA, Yu-ichi; TAKAYA, Hikaru; HATAKEYAMA, Takuji; NAKAMURA, Masaharu

3F3-12 Iron-Catalyzed Cross-Coupling Reactions of Organoaluminums by Using Novel SciOPP-Iron Complexes (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) KAWAMURA, Shintaro; ISHIZUKA, Kentaro; NAKAMURA, Masaharu

3F3-13 Iron-Catalyzed Suzuki-Miyaura Coupling Reactions by Using Novel SciOPP-Iron Complexes (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) HASHIMOTO, Toru; FUJIWARA, Yu-ichi; HATAKEYAMA, Takuji; TAKAYA, Hikaru; NAKAMURA, Masaharu

Chair: TAKAYA, Hikaru (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3F3-15, 3F3-16, 3F3-17, 3F3-18, 3F3-19, 3F3-20)

3F3-15 Iron-Catalyzed Oxidative Mizoroki-Heck Reaction (Univ. of Tokyo) OKABE, Jun; YOSHIKAI, Naohiko; NAKAMURA, Eiichi

3F3-16 Iron-Catalyzed Direct Arylation of Arylimines with Arylzinc Reagents (Univ. of Tokyo) MATSUMOTO, Arimasa; NORINDER, Jakob; YOSHIKAI, Naohiko; NAKAMURA, Eiichi

3F3-17 Iron-Catalyzed Direct Arylation of 2-Arylpyridine Derivatives with Aryl Grignard Reagent (Univ. of Tokyo) ASAKO, Sobi; YAMAKAWA, Takeshi; YOSHIKAI, Naohiko; NAKAMURA, Eiichi

3F3-18 Enantioselective synthesis of planar-chiral ferrocenylphosphines by asymmetric ring-closing metathesis (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Edu.; SORST) OGASAWARA, Masamichi; WATANABE, Susumu; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

3F3-19[#] Withdrawn

3F3-20 Ligand-effected in iron-catalysed Belousov-Zhabotinsky reaction (Tohoku Univ.) ARISAWA, Mieko; KIRYU, Masato; YAMAGUCHI, Masahiko

Sunday, March 29, PM

Chair: HATAKEYAMA, Takuji (13 : 30~14 : 40)

* 13:20-13:30: interval for laptop PC connection.(3F3-28, 3F3-29, 3F3-30, 3F3-31, 3F3-32, 3F3-33, 3F3-34)

3F3-28 Synthesis of 1-alkynyliron complexes by palladium-catalyzed reactions of an iodoiron complex with 1-alkynes. (Graduate School of Engineering, Kyoto Univ.) NAKAYA, Ryotaro; YASUDA, Shigeo; YORIMITSU, Hideki; OSHIMA, Koichiro

3F3-29 Reactions of arylcarbonylcyclopentadienyliron with aryllithium reagents (Graduate School of Engineering, Kyoto Univ.) YASUDA, Shigeo; YORIMITSU, Hideki; OSHIMA, Koichiro

3F3-30 Synthesis of ClickFerrophos derivatives and application to asymmetric hydrogenation. (Institute of Science and Engineering, Chuo Univ.) OKI, Hiroshi; KATO, Minoru; OURA, Ichiro; OGATA, Kenichi; FUKUZAWA, Shin-ichi

3F3-31 Copper/ClickFerrophos catalyzed asymmetric reductive aldol reaction (Institute of Science and Engineering, Chuo Univ.) KATO, Minoru; OKI, Hiroshi; OGATA, Kenichi; FUKUZAWA, Shin-ichi

Ag

3F3-32 Silver-catalyzed reactions of gem-dihalo compounds with allyl Grignard reagents (Graduate School of Engineering, Kyoto Univ.) MITAMURA, Yukihiro; SOMEYA, Hidenori; YORIMITSU, Hideki; OSHIMA, Koichiro

3F3-33 Silver-catalyzed cross-coupling reactions of alkyl bromides with alkyl or aryl Grignard reagents (Graduate School of Engineering, Kyoto Univ.) SOMEYA, Hidenori; YORIMITSU, Hideki; OSHIMA, Koichiro

3F3-34 Silver Catalyzed Carbomagnesiation Reaction of Alkynes using Alkyl halides (Graduate School of Engineering; Osaka Univ.) MORIWAKI, Yuusuke; FUJII, Yuuki; KAMBE, Nobuaki

Zn

Chair: OGATA, Kenichi (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(3F3-47, 3F3-48, 3F3-49, 3F3-50, 3F3-51, 3F3-52)

3F3-47 Co-catalyzed Negishi Alkyl-Aryl Cross-Coupling (Graduate School of Natural Science and Technology, Okayama Univ.) YOSHII, Naoko; NAMAGO, Yasunori; ODO, Shunsuke; NISHIHARA, Yasushi; TAKAGI, Kentaro

3F3-48 Development of chiral dinuclear zinc amidinate catalyst and application to asymmetric alkylation of α -ketoesters (Department of Chemistry, Rikkyo Univ.) INABA, Masamitsu; YAMANAKA, Masahiro

3F3-49 DFT studies on the origin of the enantioselectivity in the dinuclear Zn-bisamidinate catalyzed asymmetric alkylation of α -ketoesters. (Rikkyo Univ.) YAMANAKA, Masahiro; INABA, Masamitsu

3F3-50[†] Reaction Mechanism for the LiCl-Promoted Directed Zinc Insertion: A Comprehensive Computational and Experimental Study (RIKEN; Tokyo Medical & Dental Univ.; Hokuriku Univ.) WANG, Xuan; LIU, Ching-yuan; UCHIYAMA, Masanobu

3F3-51 Metal-Containing Heterocycles as Isoelectronic with Tropylium Ion (RIKEN) YOSHIDA, Kengo; FURUYAMA, Taniyuki; MURANAKA, Atsuya; UCHIYAMA, Masanobu

3F3-52 Anionic Polymerization of Vinyl Monomers with a New Developed Zinc Ate Complex (RIKEN; Univ. of Tokyo) FURUYAMA, Taniyuki; HASHIMOTO, Yuichi; UCHIYAMA, Masanobu

Monday, March 30, AM

Cu

Chair: MIYAKE, Yoshihiro (9 : 30 ~ 10 : 20)

* 9:20-9:30: interval for laptop PC connection.(4F3-04, 4F3-05, 4F3-06, 4F3-07)

4F3-04 Discovery of Novel Cycloadditions by Asymmetric Lewis Acid Catalysts (Graduate School of Science and Engineering, Tokyo Institute of Technology) AIDA, Jumpei; AIKAWA, Kohsuke; MIKAMI, Koichi

4F3-05 Regio- and stereoselective allylation of cyclopentenyl picolinate (Tokyo Institute of Technology; Department of Biomolecular Engineering) HYODO, Tomonori; HUKUM, P. Acharya; KOBAYASHI, Yuichi

4F3-06 Copper mediated anti SN2' reaction of 2-cyclohexylideneethyl picolinate (Department of Biomolecular Engineering; Tokyo Institute of Technology) KIYOTSUKA, Yohei; HUKUM, P. Acharya; KOBAYASHI, Yuichi

4F3-07* Alkynyl copper mediated selective anti SN2' reaction of acyclic allyl picolinate (Department of Biomolecular Engineering; Tokyo Institute of Technology) KIYOTSUKA, Yohei; KOBAYASHI, Yuichi

Chair: YOSHIKAI, Naohiko (10 : 30~11 : 20)

* 10:20-10:30: interval for laptop PC connection.(4F3-10, 4F3-11, 4F3-13)

4F3-10 Copper-catalyzed allylation of carbonyl compounds with homoallyl alcohols via retro-allylation (Graduate School of Engineering, Kyoto Univ.) SAI, Masahiro; YORIMITSU, Hideki; OSHIMA, Koichiro

4F3-11^{†*} Enantioselective allylic vinylations catalyzed by a Cu-NHC complex with vinylaluminum reagents (Boston College) AKIYAMA, Katsuhiko; YUNMI, Lee; GAO, Fang; HOVEYDA, Amir

4F3-13* Quantum Chemical Study on the Mechanisms of the Copper-Catalyzed Propargylic Substitution Reactions (Hoshi Univ.; Univ. of Tokyo) SAKATA, Ken; HATTORI, Gaku; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

Chair: SAWAMURA, Masaya (11 : 30~12 : 20)

* 11:20-11:30: interval for laptop PC connection.(4F3-16, 4F3-18, 4F3-19, 4F3-20)

4F3-16^{†*} Asymmetric Reactions via Cu-Allenylidene Complexes as Key Intermediates (School of Engineering, The Univ. of Tokyo) HATTORI, Gaku; YOSHIDA, Akiko; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

4F3-18 Asymmetric Ring-Opening Reactions of Three-Membered Compounds via Cu-Allenylidene Complexes as Key Intermediates (School of Engineering, The Univ. of Tokyo) YOSHIDA, Akiko; HATTORI, Gaku; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

4F3-19[†] Copper-Catalyzed Dimerizative Bromoalkynylation of Arynes (Graduate School of Engineering, Hiroshima Univ.) YOSHIDA, Hiroto; MORISHITA, Takami; OHSHITA, Joji

4F3-20 Copper-Catalyzed Oxidative Homo-Coupling of Indoles (School of Science and Technology, Meiji Univ.) TSUCHIMOTO, Teruhisa; NAGASE, Yuta

Monday, March 30, PM

Cu

Chair: ITO, Hajime (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(4F3-28, 4F3-29, 4F3-30, 4F3-31, 4F3-32, 4F3-33)
- 4F3-28** Copper-catalyzed Direct Thiolation of Azole C-H Bonds (Institute of Science and Engineering, Chuo Univ.) ATSUUMI, Yuka; SHIMIZU, Eiji; HAGA, Masatake; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 4F3-29** Copper-Catalyzed Synthesis of Sulfenamides by Coupling of Disulfides with Alkylamines (Fukushima Medical Univ.) TANIGUCHI, Nobukazu
- 4F3-30** Copper-Mediated Direct Arylation Reaction of 5-Aryloxazoles with Aryl Iodides (Faculty of Engineering, Osaka Univ.) YOSHIDUMI, Tomoki; KAWANO, Tsuyoshi; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 4F3-31** Copper-catalyzed reactions of nitriles with alkenes in the presence of water: Synthesis of *sec*-amides (Graduate School of Engineering, Kyoto Univ.) YOSHIDA, Shotaro; MURAI, Masahito; OHE, Kouichi
- 4F3-32** Cu-catalyzed C-H, N-H coupling of heteroaromatic compounds (1) (Kobe Univ.) FUJIWARA, Taiki; MONGUCHI, Daiki; MORI, Atsunori
- 4F3-33** Cu-catalyzed C-H, N-H coupling of heteroaromatic compounds (2) (Kobe Univ.) MONGUCHI, Daiki; FUJIWARA, Taiki; MORI, Atsunori

Chair: ENDOU, Kouhei (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(4F3-35, 4F3-36, 4F3-37, 4F3-38, 4F3-39, 4F3-40)
- 4F3-35** Catalytic Indole Synthesis Involving the Addition of Borylcopper Species to Isocyanides as a Key Step (Faculty of Engineering, Osaka Univ.) TOBISU, Mamoru; FUJIHARA, Hirokazu; CHATANI, Naoto
- 4F3-36** Copper(I)-Catalyzed Intramolecular Hydroamination of Unactivated Alkenes (Department of Chemistry, Faculty of Science, Hokkaido Univ.) MORIYA, Toshimitsu; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 4F3-37** Asymmetric Synthesis of Optically Active Allylboronates through Copper(I)-catalyzed Reaction of Carbonate Derivatives of meso-1,4-Diols (Department of Chemistry, Faculty of Science, Hokkaido Univ., PRESTO, JST) OKURA, Takuma; ITO, Hajime; SAWAMURA, Masaya
- 4F3-38** Synthesis of Optically Active Allylboronates through Kinetic Resolution of Allylic Alcohol Derivatives and Formation of Quaternary Carbon Center via Carbonyl Addition (Department of Chemistry, Faculty of Science, Hokkaido Univ., PRESTO, JST) KUNII, Shun; ITO, Hajime; SAWAMURA, Masaya
- 4F3-39** Stereoselective Synthesis of 1-Silyl-2-borylcyclobutane Derivatives through Borylcopper(I)-Mediated Reaction (Department of Chemistry, Faculty of Science, Hokkaido Univ., PRESTO, JST) TOYODA, Takashi; ITO, Hajime; SAWAMURA, Masaya
- 4F3-40** [†]Copper(I)-catalyzed Regioselective Reduction of Allylic and Propargylic Esters with Hydrosilanes (Department of Chemistry, Faculty of Science, Hokkaido Univ., PRESTO, JST) ZHONG, Chongmin; ITO, Hajime; SAWAMURA, Masaya

Chair: KOBAYASHI, Yuichi (15:50~17:00)

- * 15:40-15:50: interval for laptop PC connection.(4F3-42, 4F3-43, 4F3-44, 4F3-45, 4F3-46, 4F3-47, 4F3-48)
- 4F3-42** The unprecedented rate enhancement effect of bowl-shaped phosphines in the copper-catalyzed hydrosilylation of sterically hindered ketones (Graduate School of Engineering, Kyoto Univ.) SEMBA, Kazuhiko; KOBATAKE, Takanori; OHTA, Hidetoshi; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi
- 4F3-43** Copper-catalyzed carboxylation of organosilicon compounds (RIKEN) OHISHI, Takeshi; NISHIURA, Masayoshi; HOU, Zhaomin
- 4F3-44** Catalytic Trifluoromethylation of Heteroaromatic Compounds (Graduate School of Science, Kobe Univ.) KONDO, Hideaki; OISHI, Masahiro; AMII, Hideki
- 4F3-45** Copper-catalyzed addition reaction of carbon nucleophiles to olefins (Doshisha Univ.) NIGAWA, Kei; OE, Yohei; OHTA, Tetsuo
- 4F3-46** Enantioselective alkylation of enones catalyzed by copper complex having a tridentate *N*-heterocyclic carbene ligand (Kansai Univ.) OKAMOTO, Masaki; YAMAMOTO, Yuko; SAKAGUCHI, Satoshi
- 4F3-47** Metal-linked ligand for highly efficient Cu-catalyzed asymmetric conjugate addition reaction of organozinc reagents (Waseda Univ.) OGAWA, Mika; ENDO, Kohei; SHIBATA, Takanori
- 4F3-48** Synthesis and Application of Atropisomeric Dihydrobenzofuran-Based Diphosphine (Chiba Univ.) MINO, Takashi; NARUSE, Yoshiaki; KOBAYASHI, Shouhei; OISHI, Shunsuke; SAKAMOTO, Masami; FUJITA, Tsutomu

Room F4

Bldg.10 1022

Organic Chemistry -Reaction and Synthesis-
Organic Electron Transfer Chemistry

Friday, March 27, PM

Chair: MAKI, Shojiro (13:00~14:00)

- * 12:50-13:00: interval for laptop PC connection.(1F4-25, 1F4-27, 1F4-28, 1F4-29, 1F4-30)
- 1F4-25*** Anodic substitution reactions of conducting polymers (Tokyo Tech) INAGI, Shinsuke; HAYASHI, Shotaro; HOSAKA, Kenta; FUCHIGAMI, Toshio
- 1F4-27** Multi-Addition of Diarylcarbenium Ions toward Aromatic Compounds (Graduate School of Engineering, Kyoto Univ.) TERAO, Kimitada; WATANABE, Takashi; NOKAMI, Toshiki; YOSHIDA, Jun-ichi
- 1F4-28** Dendrimer Synthesis Using Electrochemically Generated Dendritic Carbocations (Graduate School of Engineering, Kyoto Univ.) WATANABE, Takashi; TERAO, Kimitada; NOKAMI, Toshiki; YOSHIDA, Jun-ichi
- 1F4-29** Electroreductio block copolymerization of organodichlorosilanes in the presence of disilane additives (Kinki Univ.) SANA, Chika; ISHIFUNE, Manabu; KAMIKUBO, Kazuhiro
- 1F4-30** Fixation of the mediatory system using metalloporphyrin complexes on platinum electrodes (Kinki Univ.) IWAI, Yumi; ISHIFUNE, Manabu

Chair: ISHIFUNE, Manabu (14:10~15:10)

- * 14:00-14:10: interval for laptop PC connection.(1F4-32, 1F4-34, 1F4-35, 1F4-36)
- 1F4-32*[†]** Efficient kinetic resolution of amino aldehydes by oxidation (Nagasaki Univ.) MINATO, Daishirou; DEMIZU, Yosuke; KURIYAMA, Masami; ONOMURA, Osamu
- 1F4-34** One-electron Reductive Cyclization Driven by Fluorene Derivatives in electroreduction media (Graduate School of Natural Science and Technology, Okayama Univ.) NAKAGAWA, Yumiko; MITSUDO, Koichi; TANAKA, Hideo
- 1F4-35** Reactions of Cation Pools with Alkenes bearing Nucleophilic Functional Groups (Graduate School of Engineering, Kyoto Univ.) SUGA, Seiji; ASHIKARI, Yosuke; UEOKA, Koji; YOSHIDA, Junichi
- 1F4-36*[†]** Electroreduction of penta-valent phosphorus compounds directed toward recycle system of triarylphosphine (Graduate School of Natural Science and Technology, Okayama Univ.) YANO, Tomotake; TANAKA, Hideo

Chair: INAGI, Shinsuke (15:20~16:20)

- * 15:10-15:20: interval for laptop PC connection.(1F4-39, 1F4-40, 1F4-41, 1F4-43, 1F4-44)
- 1F4-39** One-pot transformation of triphenylphosphine oxide to triphenylphosphine promoted by Al/MX_n redox system (Faculty of Engineering, Okayama Univ.) HOSHINO, Masakatsu; YANO, Tomotake; KUROBOSHI, Manabu; TANAKA, Hideo
- 1F4-40** Intramolecular Photochemical Polar Addition of Aromatic Alkenes Bearing Active Methylene Moieties (Grad. Sch. of Eng., Osaka Pref. Univ.) NAKATANI, Keisuke; OHASHI, Maki; MAEDA, Hajime; MIZUNO, Kazuhiko
- 1F4-41*** Cation Chain Reactions Initiated by Electrogenerated ArS⁺ + (Graduate School of Engineering, Kyoto Univ.) MATSUMOTO, Kouichi; FUJIE, Shunsuke; SUGA, Seiji; YOSHIDA, Jun-ichi
- 1F4-43** Electrooxidative Synthesis of Cationic Ni-Pincer Catalysts and Application to Michael Addition. (Graduate School of Natural Science and Technology, Okayama Univ.) YAMAGUCHI, Takashi; IMURA, Tatsuhiko; MITSUDO, Koichi; TANAKA, Hideo
- 1F4-44** Electrocatalytic formal [2+2] cycloaddition reactions (Tokyo Univ. of Agric. and Technol.) OKADA, Yohei; AKABA, Ryoichi; CHIBA, Kazuhiro

Chair: NOKAMI, Toshiki (16:30~17:10)

- * 16:20-16:30: interval for laptop PC connection.(1F4-46, 1F4-47, 1F4-48, 1F4-49)
- 1F4-46** Electroreductio dehalogenation of aromatic halides adsorbed on activated carbon (Okayama Univ.; Faculty of Engin.) KUROBOSHI, Manabu; HARA, Naoaki; IDEI, Hiroaki; TANAKA, Hideo
- 1F4-47** Synthesis of Carboxylic Acid by Electrochemical TEMPO-Oxidation in Ethereal Biphasic System (Okayama Univ., Toyama National College of Technology) MEI, Zhen-wu; DIEP, Nguyen Kim; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 1F4-48** Anodic Iodofluorination of Electron-Deficient Olefins (Tokyo Institute of Technology) NAGURA, Hirokatsu; KURIBAYASHI, Shunsuke; FUCHIGAMI, Toshio
- 1F4-49** Development of Environmental-Friendly Emulsion Electrosynthetic

Processes Using Acoustic Emulsification (Tokyo Institute of Technology)
ATOBE, Mahito; IKARI, Shintaro; FUCHIGAMI, Toshio

Chair: ATOBE, Mahito (17:20~18:00)

- * 17:10-17:20: interval for laptop PC connection.(1F4-51, 1F4-52, 1F4-53, 1F4-54)
- 1F4-51** Generation and Reactions of organic reductants by electroreduction of viologen derivatives. Reductive coupling of aryl (pseudo)halides. (Faculty of Engineering, Okayama Univ.) KUROBOSHI, Manabu; TAKETANI, Kentaro; SUZUKI, Ryosuke; TANAKA, Hideo
- 1F4-52** Preparation of the carbon fiber modified with the palladium SCS pincer complex by using electrochemical modification methods (Kinki Univ.) WATANABE, Maki; ISHIFUNE, Manabu; UEMUKAI, Toru
- 1F4-53** Preparation of the thermoresponsive polymer grafted graphite electrodes (Kinki Univ.) KUDO, Tomoya; ISHIFUNE, Manabu; UEMUKAI, Toru
- 1F4-54** Construction of diaryl ether using anodic oxidation toward natural product synthesis (Department of chemistry, Faculty of Science and Technology, Keio Univ.) NAITO, Yu; TANABE, Takamasa; ISHIKAWA, Yuichi; NISHIYAMA, Shigeru

Saturday, March 28, AM

Chair: MITSUDO, Koichi (10:00~11:00)

- * 9:50-10:00: interval for laptop PC connection.(2F4-07, 2F4-09, 2F4-10, 2F4-12)
- 2F4-07*** Synthesis of Non-steroidal Anti-inflammatory Agents using Electrochemical Carboxylation (Graduate School of Engineering, Hokkaido Univ.) YAMAUCHI, Yusuke; SAKAI, Kanae; FUKUHARA, Tsuyoshi; SENBOKU, Hisanori; HARA, Shoji
- 2F4-09** Electroreductive Intramolecular Coupling of Chiral Aromatic omega-Imino Esters (Tottori University) TAKENAGA, Yosei; SAKURAI, Toshihiko; KISE, Naoki
- 2F4-10*** Development of Ferric Chloride Promoted Organic Transformation Method Using Biphasic Solvent System Consisting of Benzotrifluoride and Ionic Liquid (Niigata Univ., Graduate School of Science and Technology, Faculty of Science) TSUCHIDA, Hiroyuki; HIROI, Nohara; HASEGAWA, Eietsu
- 2F4-12** Organic electron transfer reactions promoted by in situ generated amine radical cation reagent (Niigata Univ., Graduate School of Science and Technology, Faculty of Science) KAKINUMA, Koji; YANAKI, Tomoyo; HASEGAWA, Eietsu

Chair: MAEKAWA, Hirofumi (11:10~11:50)

- * 11:00-11:10: interval for laptop PC connection.(2F4-14, 2F4-15, 2F4-16, 2F4-17)
- 2F4-14** Electrochemical Carboxylation of Flavones (Graduate School of Engineering, Hokkaido Univ.) KOBAYASHI, Natsuko; YAMAUCHI, Yusuke; SENBOKU, Hisanori; HARA, Shoji
- 2F4-15** Pd/TEMPO Double-Mediatory Electrooxidative Homo-coupling of Arylboronic Acids and Arylboronic Acid Esters (Graduate School of Natural Science and Technology, Okayama Univ.) KAGEN, Daisuke; SHIRAGA, Takuya; MITSUDO, Koichi; TANAKA, Hideo
- 2F4-16** Anodic Alkoxylation of Lactams Using Solid-Supported Bases (Tokyo Institute of Technology) TAJIMA, Toshiki; KURIHARA, Hitoshi
- 2F4-17** Electrochemical oxidation of functionalized sulfides to the corresponding sulfoxides (Okayama Univ. of Science; Faculty of Engineering) ISHIKURA, Yutaka; TSUNEMITSU, Yuta; MORIKAWA, Hiroyuki; INOKUCHI, Tsutomu; TORII, Sigeru; NOKAMI, Junzou

Chair: SENBOKU, Hisanori (12:00~12:50)

- * 11:50-12:00: interval for laptop PC connection.(2F4-19, 2F4-20, 2F4-21, 2F4-22, 2F4-23)
- 2F4-19** Introduction of some substituents to azulene derivatives through electron transfer from Mg metal. (Nagaoka Univ. of Tech.) HONDA, Junya; MAEKAWA, Hirofumi; NISHIGUCHI, Ikuzo
- 2F4-20** Mg-promoted trifluoroacetylation of coumarins (Nagaoka Univ. of Tech.) SHIMIZU, Yuhei; MAEKAWA, Hirofumi; NISHIGUCHI, Ikuzo
- 2F4-21** Mg-promoted trifluoroacetylation of alkylphenylketones in the presence of ethyl trifluoroacetate (Nagaoka Univ. of Tech) MAEKAWA, Hirofumi; OZAKI, Taro; ZULKEFLEE, Dayana; NISHIGUCHI, Ikuzo
- 2F4-22** Cathodic Hydroxylation of Organoboronic Acids (Tokyo Tech) HOSOI, Kohei; KURIYAMA, Yu; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 2F4-23** Electrochemical Fluorination Using Iodobenzene Derivative Mediator in Ionic Liquid (Tokyo Institute of Technology) SAWAMURA, Takahiro; INAGI, Shinsuke; FUCHIGAMI, Toshio

Organic Chemistry -Reaction and Synthesis- Aromatic Compounds

Sunday, March 29, AM

Chair: YAMAGUCHI, Masahiko (9:00~9:50)

- * 8:50-9:00: interval for laptop PC connection.(3F4-01, 3F4-02, 3F4-03, 3F4-04, 3F4-05)

- 3F4-01** Synthesis and Optical Properties of Soluble Benzodithiophene Derivatives Bearing Bulky Aromatic Substituent. (Wakayama Univ.) MIMURO, Shouichi; OSUGA, Hideji; YAMADA, Yuuki; SAKAMOTO, Hidefumi
- 3F4-02** New Reaction of 2H-Cyclohepta[b]furan-2-ones (Tohoku Univ., Nihon Univ., Hirosaki Univ.) HIGASHI, Junya; SHOJI, Taku; TAKAHASHI, Masayuki; TOYOTA, Kozo; MORITA, Noboru; YASUNAMI, Masafumi; ITO, Shunji
- 3F4-03** Synthesis and Properties of Nitroprotonoid Compounds Extended of Benzene Ring (Yokohama National Univ.) BUSHIDA, Misturu; OTANI, Hiroyuki
- 3F4-04** Synthesis and Properties of Symmetric Arylene-ethynylene Type Bis-2-aminotropones (okohama National Univ.) KOBAYASHI, Mayumi; KUGENUMA, Risa; OTANI, Hiroyuki
- 3F4-05** Synthesis and Properties of 1,8-Bis[(2-N-dodecylaminotropone-5-yl)ethynyl]anthracene (Yokohama National Univ.) TAKASHIMA, Hiroaki; OTANI, Hiroyuki

Chair: OSUGA, Hideji (10:00~10:50)

- * 9:50-10:00: interval for laptop PC connection.(3F4-07, 3F4-08, 3F4-09, 3F4-10, 3F4-11)
- 3F4-07** Double-helix-Random-coil Structure Change of Oligo(ethynylhelix) on Gold Surface (Graduate school of Pharmaceutical Sciences, Tohoku Univ.) AMEMIYA, Ryo; YAMAMOTO, Kouji; SUGIURA, Hiroki; YAMAGUCHI, Masahiko
- 3F4-08** Synthetic Study of Amido- and Ethynylhelix Oligomer Conjugates (Graduate school of Pharmaceutical Sciences, Tohoku Univ.) AMEMIYA, Ryo; ICHINOSE, Wataru; YAMAGUCHI, Masahiko
- 3F4-09** The change of light-emitting characteristics by the array control of donor and acceptor units in donor/acceptor type oligo(phenyleneethynylene)s (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) YAMAGUCHI, Yoshihiro; KAJIMARU, Atsuko; OCHI, Takanori; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 3F4-10** Synthesis and light-emitting properties of p,p'-disubstituted diphenylacetylenes and their derivatives (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) ISHII, Mai; OCHI, Takanori; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi
- 3F4-11** Synthesis and light-emitting properties of donor/acceptor type phenyleneethynylene-dendrimer (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) KASHIMOTO, Chie; OCHI, Takanori; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi

Chair: YAMAGUCHI, Yoshihiro (11:00~12:00)

- * 10:50-11:00: interval for laptop PC connection.(3F4-13, 3F4-14, 3F4-15, 3F4-17, 3F4-18)
- 3F4-13** Synthesis and Structure of Ethynylhelix Oligomers Possessing Alternating Perfluorooctyl and Decyloxy carbonyl Side Chains (Graduate School of Pharmaceutical Sciences, Tohoku Univ.) AMEMIYA, Ryo; SAITO, Nozomi; YAMAGUCHI, Masahiko
- 3F4-14** Two-component gel formation by pseudo-enantiomeric ethynylhelix oligomers (Graduate school of Pharmaceutical Sciences, Tohoku Univ.) AMEMIYA, Ryo; MIZUTANI, Marie; YAMAGUCHI, Masahiko
- 3F4-15*** Nanostructures and Supramolecular Properties of Triphenylene Derivatives with Long Alkoxy Chains (Tokyo Metropolitan Univ.; National Institute of AIST) YAMAKAWA, Jun; NISHINAGA, Tohru; KAMADA, Kenji; IYODA, Masahiko
- 3F4-17** Synthesis of novel porphyrin-fullerene donor-acceptor dyads for thin film organic photovoltaic cells (Graduate school of science and engineering, Ehime Univ.) HASHIZUME, Junpei; OKAZAKI, Yukinori; YAMADA, Hiroko
- 3F4-18** Synthesis and Properties of Benzoazuliporphyrins (Ehime university, PRESTO) KIKKAWA, Tasuku; UNO, Hidemitsu; ONO, Noboru; YAMADA, Hiroko; OKUJIMA, Tetsuo

Sunday, March 29, PM

Chair: OTANI, Hiroyuki (13:10~13:50)

- * 13:00-13:10: interval for laptop PC connection.(3F4-26, 3F4-27, 3F4-29)
- 3F4-26** Highly Regioselective Arylation of Perylene Bisimides and Their Optical Properties (Grad. School of science, Kyoto Univ.) NAKAZONO, Satomi; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko
- 3F4-27*** Synthesis and FET-characteristics of phthalocyanine and benzoporphyrin derivatives by the solution process (Ehime Univ., Mitsubishi Chemical Group Science and Technology Research Center, Inc.) OKUJIMA, Tetsuo; HASHIMOTO, Yusuke; OHNO, Akira; SAKAI, Yoshimasa; AKIYAMA, Seiji; ARAMAKI, Shinji; YAMADA, Hiroko; UNO, Hidemitsu; ONO, Noboru
- 3F4-29** Synthesis of bicyclo[2.2.2]octadiene-bridged hexaphyrin (INCS Ehime Univ.) UOYAMA, Hiroki; TAKIUE, Takahiro; UNO, Hidemitsu

Chair: NISHINAGA, Tohru (14:00~14:30)

- * 13:50-14:00: interval for laptop PC connection.(3F4-31, 3F4-32)
- 3F4-31[†]** Synthesis and properties of meso-unsubstituted (fluoronaphtho)por-

phyrins (Graduate school of science and Engineering Ehime Univ.) JIN, Guangnan; HASHIMOTO, Yuusuke; OKUJIMA, Tetsuo; YAMADA, Hiroko; UNO, Hidemitsu; ONO, Noboru

3F4-32* Synthesis of Porphyrins Bearing Carbon-Traitson Metal σ -bonds (Department of Chemistry, Graduate School of Science, Kyoto Univ., Department of Applied Chemistry, Graduate School of Engineering, Nagoya Univ.) YAMAGUCHI, Shigeru; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko

Monday, March 30, AM

Chair: YAMADA, Hiroko (9:00~9:50)

* 8:50-9:00: interval for laptop PC connection.(4F4-01, 4F4-02, 4F4-03, 4F4-04, 4F4-05)

4F4-01 Synthesis and light-emitting characteristics of p-diethynylbenzenes having m-terphenyl groups at both ends of the molecules (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) KAJIMARU, Atsuko; KITAGUCHI, Takayuki; OCHI, Takanori; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi

4F4-02 Light-emitting characteristics in solid state of donor/acceptor type oligo(phenyleneethynylene)s having acceptor unit at the molecular center (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) YAMAGUCHI, Yoshihiro; KITAGUCHI, Takayuki; KAJIMARU, Atsuko; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi

4F4-03 Synthesis and light-emitting characteristics of star-shaped donor/acceptor type fluorophores having nitrogen atom at the center of molecule (Department of Chemistry, Faculty of Science and Engineering, Kinki Univ.) SETOGUCHI, Mina; OCHI, Takanori; YAMAGUCHI, Yoshihiro; WAKAMIYA, Tateaki; MATSUBARA, Yoshio; YOSHIDA, Zen-ichi

4F4-04 Synthesis and Characterization of Hexadecafluoroquaternaphthyl-2,2''-diol (F16-QNOL). (Kumamoto Univ.) SHIMIZU, Kei-ichiro; KINOSHITA, Masataka; IRIE, Ryo

4F4-05 Specific [2+2] and [2+4] Cycloadditions for naphthalene derivatives within a self-assembled cage (Grad. School of Engineering, The Univ. of Tokyo; CREST) HORIUCHI, Shinnosuke; MURASE, Takashi; FUJITA, Makoto

Chair: KOBAYASHI, Yuichi (10:00~10:50)

* 9:50-10:00: interval for laptop PC connection.(4F4-07, 4F4-09, 4F4-10, 4F4-11)

4F4-07*† Thermal isomerization of tricyclobutabenzene into hexaradialenes (Graduate School of Science and Technology, Tokyo Institute of Technology, SORST) SHINOZAKI, Shinya; HAMURA, Toshiyuki; SUZUKI, Keisuke

4F4-09 Synthesis of Poly-cyclobutatriphenylenes via trimerization of benzenes (Department of Chemistry, School of Science and Technology, Kwansai Gakuin Univ., PRESTO) HAMURA, Toshiyuki; KAKUDA, Takamasu; SUZUKI, Keisuke

4F4-10 Oxidative Coupling reaction of 2-Hydroxyhelicenes (Graduate School of Engineering, Utsunomiya Univ.) KATO, Hirotsuka; KIMURA, Takao; KARIKOMI, Michinori

4F4-11 Synthesis of artificial enzyme incorporating axial chiral binaphthyl compounds and its application to optical resolution (Graduate School of Science & Engineering, Yamagata Univ.) ABE, Hiromitsu; AOYAGI, Naoto; KIJIMA, Tatsuro; IZUMI, Taeko

Chair: IRIE, Ryo (11:00~11:50)

* 10:50-11:00: interval for laptop PC connection.(4F4-13, 4F4-14, 4F4-16, 4F4-17)

4F4-13 Synthesis of (R)-sativan and (R)-vestitol via anti SN₂' substitution of allylic picolinate with copper reagent (Department of Biomolecular Engineering, Tokyo Institute of Technology) KANEKO, Yuki; TAKASHIMA, Yuji; KOBAYASHI, Yuichi

4F4-14* Total synthesis of (S)-imperanene by using SN₂ selective allylic substitution of γ -phenylallylic ester (Department of Biomolecular Engineering, Tokyo Institute of Technology) TAKASHIMA, Yuji; KOBAYASHI, Yuichi

4F4-16 A novel transformation of axially chiral biphenyls (1): Conversion to the bridged ortho-quinols (Department of Chemistry, Tokyo Institute of Technology) FUJIMORI, Kenji; ONODA, Toshio; KAMIMURA, Haruki; SUZUKI, Keisuke; MATSUMOTO, Takashi

4F4-17 A novel transformation of axially chiral biphenyls (2): Stereospecific conversion of chiral ortho-quinol intermediate (Graduate school of science and technology, Tokyo Institute of Technology) ONODA, Toshio; FUJIMORI, Kenji; KAMIMURA, Haruki; SUZUKI, Keisuke; MATSUMOTO, Takashi

Monday, March 30, PM

Chair: HAMURA, Toshiyuki (13:00~13:50)

* 12:50-13:00: interval for laptop PC connection.(4F4-25, 4F4-26, 4F4-27, 4F4-28, 4F4-29)

4F4-25* Zirconium-Mediated Synthesis of Water-Soluble Polycyclic Aromatic Compounds (Catalysis Research Center, Hokkaido Univ.; SORST) WANG,

Yunhua; LI, Shi; KANNO, Ken-ichiro; TAKAHASHI, Tamotsu

4F4-26* Reaction of Polyalkylated Pentacenes with Electron-Deficient Alkenes (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Education; SORST) JIA, Zhiying; KANNO, Ken-ichiro; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

4F4-27 Synthesis and Aromatic Tautomerization of 5,14-Dialkylpentacenes (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Education; SORST) KANNO, Ken-ichiro; JIA, Zhiying; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

4F4-28 Asymmetric synthesis of various substituted helical quinone (Graduate School of Engineering, Utsunomiya Univ.) TAMAKI, Yusuke; TODA, Mitsuru; KIMURA, Takao; KARIKOMI, Michinori

4F4-29* Asymmetric Synthesis of C₃ Symmetric π -Conjugated Chiral Molecules (Institute for Molecular Science; SOKENDAI) MASUD REZA, A. F. G.; HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro

Chair: KANNO, Ken-ichiro (14:00~15:00)

* 13:50-14:00: interval for laptop PC connection.(4F4-31, 4F4-32, 4F4-34, 4F4-35, 4F4-36)

4F4-31 Synthesis of Inherently Chiral Calix[4]arene Amino Acid Derivatives and Their Application to Asymmetric Reactions as Organocatalysts (College of Industrial Technology, Nihon Univ.) SHIRAKAWA, Seiji; TANAKA, Yuichi; SHIMIZU, Shoichi

4F4-32* Direct carboxylation of aromatic compounds with carbon dioxide (Graduate School of Environmental Studies, Tohoku Univ.) NEMOTO, Koji; ONOZAWA, Satoru; EGUSA, Naoki; MOROHASHI, Naoya; HATTORI, Tetsutaro

4F4-34 A Synthetic Approach to Aromatic Compounds Using Ring-Closing Enyne Metathesis (Chiba Univ.) TAKAHASHI, Hidetoshi; YOSHIDA, Kazuhiro; YANAGISAWA, Akira

4F4-35 Synthesis of Axially Chiral Biphenyls through Enantioselective Desymmetrization by Enzyme. (Department of Chemistry, Tokyo Institute of Technology) SHINGUBARA, Koji; OKUYAMA, Kumi; SUZUKI, Keisuke; MATSUMOTO, Takashi

4F4-36 Synthetic Study of Substituted Juglone Derivatives (Tokyo Institute of Technology) ANDO, Yoshio; JUNG, Sunna; HAKAMADA, Tomohiko; SHIGETA, Masayuki; MATSUMOTO, Takashi; SUZUKI, Keisuke

Chair: HIGASHIBAYASHI, Shuhei (15:10~16:10)

* 15:00-15:10: interval for laptop PC connection.(4F4-38, 4F4-39, 4F4-40, 4F4-41, 4F4-42, 4F4-43)

4F4-38 Selective Acylation of (Hydroxyalkyl)phenols (Konan Univ.) MIYAZAWA, Toshifumi; YAMAMOTO, Masato; MURASHIMA, Takashi; YAMADA, Takashi

4F4-39 Synthesis of Oligo(Aromatic Ketone)s by Iterative Friedel-Crafts Reaction (Institute for Chemical Research, Kyoto Univ.) UEKI, Kazuya; YAMAGO, Shigeru

4F4-40 Condensation reaction of Benzyl alcohol derivatives with Aromatic compounds under Hydrothermal conditions. (Graduated School of Engineering, Nagoya Institute of Technology) KUWAHARA, Sho; HIRASHITA, Tsunehisa; ARAKI, Shuki

4F4-41 A New Method for the Synthesis of 4-Cyanoazulene Derivatives (Hokkaido Univ.) YAMADA, Takumasu; YOSHIMURA, Fumihiko; TANINO, Keiji

4F4-42 Synthesis of 6,13-Disubstituted Pentacene-2,3,9,10-tetraester Derivatives via the Quinone Intermediates (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Education; SORST) LI, Shi; ZHOU, Lishan; KANNO, Ken-ichiro; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

4F4-43* Zirconium-Mediated Synthesis of Various Substituted Anthrathiophenes (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Education; SORST) NI, Yang; KANNO, Ken-ichiro; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

Room F5
Bldg.10 1023

Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

Friday, March 27, AM

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

* 9:30-9:40: interval for laptop PC connection.(1F5-05, 1F5-06, 1F5-07, 1F5-08, 1F5-09, 1F5-10)

1F5-05 Light-color modulation mechanism of firefly bioluminescence: a spectroscopic study (Univ. of Electro-Communications) HASUMI, Yosuke; OHTUKA, Kazuhiro; YAMAJI, Minoru; MAKI, Syoujiro; NIWA, Haruki; HIRANO, Takasi

1F5-06 Light-color modulation mechanism of firefly bioluminescence: a theoretical study (Univ. of Electro-Communications, RIKEN) HIRANO, Takashi; HASUMI, Yosuke; HASHIZUME, Daisuke; MAKI, Shojiro;

NIWA, Haruki

- 1F5-07** Electrochemiluminescent system based on bioluminescence: Amidopyrazine derivatives (The Univ. of Electro-Communications) WATARI, Shinichi; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 1F5-08** Cation-responsive Chemiluminescent Decomposition of Dioxetanes Bearing a Binaphthyl Moiety (Kanagawa Univ. Dept. of Chemistry) KIKKAWA, Aoi; WATANABE, Nobuko; IJUN, Hisako; MATSUMOTO, Masakatsu
- 1F5-09** Relationship between Rotational Isomerism and Chemiluminescent Decomposition for Amino-substituted Dioxetanes Bearing a Hydroxyaryl Group (Kanagawa Univ. Dept. of Chemistry) SUZUKI, Haruna; WATANABE, Nobuko; IJUN, Hisako; MATSUMOTO, Masakatsu
- 1F5-10** The Large-scale Preparation of Vargula (Cypridina) Luciferin and Syntheses and Properties of Luciferin Analogues (Aichi Univ. of Education) ITO, Hiroaki; TOYA, Yoshiaki

Chair: MASUI, Dai (10:50~11:50)

- * 10:40-10:50: interval for laptop PC connection.(1F5-12, 1F5-13, 1F5-14, 1F5-15, 1F5-16, 1F5-17)
- 1F5-12** Dynamics of excited-state intramolecular hydrogen atom transfer in the benzazole analogs studied by time-resolved fluorescence spectroscopy (Univ. of Tsukuba) IJIMA, Toshiyuki; MOMOTAKE, Atsuya; SHINOHARA, Yoshihiro; NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 1F5-13** Photoisomerization and fluorescence dynamics of quinoxaline derivatives (Univ. of Tsukuba) KUDO, Kentaro; ARAI, Tatsuo
- 1F5-14** Photoinduced proton transfer reaction of anthracene-urea derivative interacting with anions. (Univ. of Tsukuba) IKEDU, Satomi; NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 1F5-15** Photodimerization of Chromone and Chromone Derivatives (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; KANEHIRO, Masayuki; MINO, Takashi; FUJITA, Tsutomu
- 1F5-16** Chiral Crystallization and the Photoasymmetric Reaction of Achiral Quinoloneamide Derivatives (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; YAGISHITA, Fumitoshi; MINO, Takashi; FUJITA, Tsutomu
- 1F5-17** Photochemical and Thermal Nucleophilic Addition Reaction of Tetra-coordinated Organoboron Reagents toward Isoquinolinium Salts (Shimane Univ.) ORIMI, Takayuki; NISHIGAICHI, Yutaka; TAKUWA, Akio

Friday, March 27, PM

Chair: SHIMAKOSHI, Hisashi (13:10~14:10)

- * 13:00-13:10: interval for laptop PC connection.(1F5-26, 1F5-27, 1F5-28, 1F5-29, 1F5-30, 1F5-31)
- 1F5-26** Generation and Characterization of 1,3-Phenylene Biscarbene Bearing Two 9-Acridinyl Groups (Mie Univ.; Aichi Inst. of Tech.) YAMAGUCHI, Tsuyoshi; HIRAI, Katsuyuki; KITAGAWA, Toshikazu; TOMIOKA, Hideo
- 1F5-27** Photoinduced Oxidative Coupling Reactions of Enamines Using $[Ru(bpy)_3]^{2+}$ (Tokyo Institute of Technology; Chemical Resources Laboratory) KOIKE, Takashi; AKITA, Munetaka
- 1F5-28** Synthesis and Properties of a Novel Zinc Porphyrin-Rhenium Dyad toward CO₂ Reduction by Visible Light (Tokyo Metropolitan Univ., SORST/JST) SUNAGAWA, Gen; KIYOSAWA, Kuniomi; SHIRAIISHI, Naoki; TACHIKAWA, Yasuyuki; MASUI, Dai; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; TAKAGI, Shinsuke; INOUE, Haruo
- 1F5-29** Photochemical Reduction of Carbon Dioxide sensitized by Rhenium Bipyridine Complexes toward Conjugation of Oxidation-Reduction cycles (Graduate school of urban environmental science, Tokyo Metropolitan Univ.; SORST(JST)) KOU, Youki; KIYOSAWA, Kuniomi; MASUI, Dai; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; ISHITANI, Osamu; INOUE, Haruo
- 1F5-30** Photocatalytic oxidation of anthracene derivatives using Pt(II)-porphyrins (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; ASANO, Motoko; SUGIURA, Ken-ichi
- 1F5-31** Photochemical Behavior of Porphyrin Derivatives in Clay-Porphyrin Complexes (Tokyo Metropolitan Univ., PRESTO/JST, SORST/JST) TAKAGI, Shinsuke; ARATAKE, Yoshito; MASUI, Dai; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; INOUE, Haruo

Chair: MORI, Tadashi (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** Acceleration of Photodecompositions of *N*-Tosyloxy-9,10-phenanthrenedicarboximide, a Photoacid Generator, by Addition of Alkylbenzenes (Faculty of Science and Engineering, Shimane Univ.) KANATSU, Masaki; SHIRATORI, Hideo; KUBO, Yasuo
- 1F5-34** Photocycloadditions of Aromatic Esters and Alkenes with Oxygen-Containing Substituents (Faculty of Science and Engineering, Shimane Univ.) MATSUMOTO, Kyo; SHIRATORI, Hideo; KUBO, Yasuo
- 1F5-35** Theoretical Study on the Formation of the Tetraene Intermediates in [3+2]Photocycloaddition of Naphthalene-1,4-Diester/Dinitrile Compounds with Alkenes. (Shimane Univ.) SHIRATORI, Hideo; MATSUYAMA, Kotoe; KUBO, Yasuo
- 1F5-36** Substitution of Dicyanobenzene via Photochemical Decarboxylation (Univ. of Fukui) KAMIYA, Kazuyuki; YOSHIMI, Yasuharu; ITOU,

Tatsuya; HATANAKA, Minoru

- 1F5-37** Synthesis of Pyrrolizidine Alkaloid via Photochemical Decarboxylation (Univ. of Fukui) HAGA, Yoshiki; YOSHIMI, Yasuharu; ITOU, Tatsuya; HATANAKA, Minoru
- 1F5-38** Photoreduction of Aromatic Ring by Hydroxy Ion as Electron Donor (Univ. of Fukui) HAMAYA, Yoshiyuki; YOSHIMI, Yasuharu; ITOU, Tatsuya; HATANAKA, Minoru

Chair: IKEDA, Hiroshi (15:40~16:40)

- * 15:30-15:40: interval for laptop PC connection.(1F5-41, 1F5-43, 1F5-44, 1F5-45, 1F5-46)
- 1F5-41*** Photosensitizing property of porphycene having ionic liquid moiety (Kyushu Univ.) SHIMAKOSHI, Hisashi; ISEKI, Yusuke; HISAEDA, Yoshio
- 1F5-43** Fluctuation Effect on Enantiodifferentiating Photoisomerization of Cyclooctene Sensitized by Chiral Benzenepolycarboxylates in Near- and Supercritical Carbon Dioxide (Graduate School of Engineering, Osaka Univ.) SAWADA, Masayuki; SAITO, Hirotsuke; WADA, Takehiko; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; NAGASAWA, Makoto; MATSUMOTO, Masamitsu; INOUE, Yoshihisa
- 1F5-44** Diastereoselective [2+2] Photocycloaddition Based on Cation- π Interactions between Bispyridiniummethylene and Chiral Stilbene (Graduate School of Engineering, Osaka Univ.) ITO, Tadashi; MORI, Tadashi; FUKUHARA, Gaku; YANG, Cheng; INOUE, Yoshihisa
- 1F5-45** [2+2]photodimerization reaction of azastilbene in solution through cation- π interactions (Ochanomizu Univ.) SUGAWARA, Mai; YAMADA, Shinji
- 1F5-46** Stereoselective photodimerization of 4-azachalcones in solution and in solid-state through cation- π interactions (Ochanomizu Univ.) TOKUGAWA, Yoko; YAMADA, Shinji

Chair: SHIRATORI, Hideo (16:50~17:50)

- * 16:40-16:50: interval for laptop PC connection.(1F5-48, 1F5-49, 1F5-50, 1F5-51, 1F5-53)
- 1F5-48** Photoreaction of 2-Methanesulfonyl-2-azabicyclo[3.2.1]octa-3,6-diene (The Univ. of Shiga Prefecture) TSUKISATO, Chikara; TOKUSHIGE, Takayuki; KUMAGAI, Tsutomu
- 1F5-49** Photoreaction of 2-Benzenesulfonyl-2-azabicyclo[3.2.1]octa-3,6-diene (The Univ. of Shiga Prefecture) TANAKA, Takayuki; HARA, Shinichiro; KUMAGAI, Tsutomu
- 1F5-50** Photoreaction of 2-Methoxycarbonyl-2-azabicyclo[3.2.1]octa-3,6-diene using TRIR Method (The Univ. of Shiga Prefecture) UNRIN-IN, Kazufumi; TSUKISATO, Chikara; KUMAGAI, Tsutomu
- 1F5-51***† Photochemical Three-Component Coupling Reaction of Active Methylene Compounds, Cyanoarenes, and Conjugated Dienes (Grad. Sch. of Eng., Osaka Pref. Univ.) OHASHI, Maki; NAKATANI, Keisuke; MAEDA, Hajime; MIZUNO, Kazuhiko
- 1F5-53** Thermoluminescence of trimethylenemethane (TMM) biradical induced by X-ray irradiation (Grad. Sch. of Eng., Osaka Pref. Univ.; Fac. of Systems Engineering, Wakayama Univ.) MATSUI, Yasunori; AKIMOTO, Ikuko; IKEDA, Hiroshi; KAN'NO, Ken-ichi; MIZUNO, Kazuhiko

Saturday, March 28, AM

Chair: HIRANO, Takashi (9:40~10:40)

- * 9:30-9:40: interval for laptop PC connection.(2F5-05, 2F5-06, 2F5-07, 2F5-08, 2F5-10)
- 2F5-05** Diastereodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Tethered to Dimethylcellulose Scaffold (Graduated School of Engineering, Osaka Univ.) NAKAMURA, Tomohiro; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa
- 2F5-06** Complexation and Supramolecular Asymmetric Photoreaction of 2-Hydroxyanthracene with Chiral Hydrogen-bonding Template (Graduate School of Engineering, Osaka Univ.) UMEHARA, Hiroaki; HIGASHINO, Saki; WADA, Takehiko; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; NISHIJIMA, Masaki; INOUE, Yoshihisa
- 2F5-07** Viscosity Effect upon Excitation-Wavelength Dependence of Enantiodifferentiating Photosensitized Isomerization of (*Z*)-Cyclooctene. (Graduate School of Engineering, Osaka Univ.; Entropy Control Project, ICORP, JST) YONEDA, Daisuke; YANG, Cheng; HUKUHARA, Gaku; MORI, Tadashi; WADA, Takehiko; INOUE, Yoshihisa
- 2F5-08*** Intramolecular Photocycloaddition of Arylcyclopropanes to Naphthalene Ring (Grad. Sch. Eng., Osaka Pref. Univ.) MAEDA, Hajime; MATSUDA, Shoji; MIZUNO, Kazuhiko
- 2F5-10** Intramolecular Photocycloaddition of 1-Cyanonaphthalene Derivatives Bearing 5-Phenyl-4-Pentynyl Group at 2-Position and Substituent Effects of Phenyl Group (Grad. Sch. of Eng., Osaka Pref. Univ.) NEGORO, Naoki; MAEDA, Hajime; MIZUNO, Kazuhiko

Chair: MAEDA, Hajime (10:50~11:50)

- * 10:40-10:50: interval for laptop PC connection.(2F5-12, 2F5-13, 2F5-14, 2F5-15, 2F5-16, 2F5-17)
- 2F5-12** Mechanistic Study on Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylic Acid using a Chiral Hydrogen-bonding Template (Graduate School of Engineering, Osaka Univ.)

KAWANAMI, Yuko; MIZOGUCHI, Jun-ichi; PACE, Tamara C. S.; NISHIJIMA, Masaki; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; WADA, Takehiko; BOHNE, Cornelia; INOUE, Yoshihisa

2F5-13 Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Mediated by Chaperone Pyrococcus horikoshii Prefoldin (PhPF) 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

2F5-14 Spectroscopic properties of conjugated [amidopyrazinato]boron compounds (Univ. of Electro-Communications) INAGAKI, Takayuki; HASHIZUME, Daisuke; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi

2F5-15 Properties of fluorescent [amidopyrazinato]boron compounds (Univ. of Electro-Communications) HACHIYA, Sojiro; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi

2F5-16 Mechanistic Study on Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Mediated by Human Serum Albumin in the Presence of Inhibitors (Center for Advanced Science and Innovation, Osaka Univ.; Univ. of Victoria; IMRAM, Tohoku Univ.; Inoue Photochemistry Project, ERATO, JST; Graduate School of Engineering, Osaka Univ.) NISHIJIMA, Masaki; PACE, Tamara; WADA, Takehiko; NAKAMURA, Asao; MORI, Tadashi; BOHNE, Cornelia; INOUE, Yoshihisa

2F5-17 Supramolecular Enantiodifferentiating Photocyclodimerization of 2,6-Anthracenedicarboxylic Acid with Native and Modified γ -Cyclodextrin Derivatives (Graduate School of Engineering, Osaka Univ.) WAKAI, Ayako; FUKASAWA, Hiroki; YANG, Cheng; FUKUHARA, Gaku; NISHIJIMA, Masaki; MORI, Tadashi; WADA, Takehiko; INOUE, Yoshihisa

Saturday, March 28, PM

Chair: YASUDA, Masahide (13:40~14:40)

* 13:30-13:40: interval for laptop PC connection.(2F5-29, 2F5-30, 2F5-31, 2F5-32, 2F5-33, 2F5-34)

2F5-29 Synthesis of Macrocyclic Lactone by Intramolecular Radical Cyclization via Photochemical Decarboxylation (Univ. of Fukui) NISHIKAWA, Keisuke; YOSHIMI, Yasuharu; ITOU, Tatsuya; HATANAKA, Minoru

2F5-30 Generation and Characterization of Dendrimer-type High-spin Tris-carbene Bearing 9-Acrindyl Groups (Mie Univ.; Aichi Inst. of Tech.) YAMADA, Hiroto; HIRAI, Katsuyuki; KITAGAWA, Toshikazu; TOMIOKA, Hideo

2F5-31 Synthesis and Photomodulation of Polyphenylene Dendrimers with a Stilbene Core (Univ. of Tsukuba) TABUCHI, Mami; ARAI, Tatsuo

2F5-32 Photochemical characteristics of enediynes having phenylacetylene group (Univ. of Tsukuba) SUGIYAMA, Yoko; SHINOHARA, Yoshihiro; ARAI, Tatsuo

2F5-33 A Synthetic Study of Hexaprisman Derivatives via Photochemical Reaction of [3₂]Cyclophanes Part 2 (Institute of Materials Chemistry and Engineering, Kyushu University) UEDA, Shunji; SHINMYOZU, Teruo

2F5-34 Application of Thiochromone S,S-dioxides as Photolabile Protecting Groups for Phosphoric Acid Derivatives. (Nara Institute of Science and Technology, Graduate School of Materials Science) KAKIUCHI, Kiyomi; GOSHO, Yoshinori; KOZAKI, Rikio; TSUTSUMI, Ken; MORIMOTO, Tsumoru

Chair: NISHIMURA, Yoshinobu (16:50~17:40)

* 16:40-16:50: interval for laptop PC connection.(2F5-48, 2F5-50, 2F5-51, 2F5-52)

2F5-48* Importance of protonation state of guanine radical cation during hole transfer in DNA (The Institute of Scientific and Industrial Research, Osaka Univ.) KAWAI, Kiyohiko; OSAKADA, Yasuko; FUJITSUKA, Mamoru; MAJIMA, Tetsuro

2F5-50 Host-Guest Energy Transfer in a Mechanically Trapped Exciplex (Grad. School of Engineering, The Univ. of Tokyo; JST-PRESTO) KLOSTERMAN, Jeremy K.; IWAMURA, Munetaka; TAHARA, Taihei; FUJITA, Makoto

2F5-51 Molecular assembly and photoinduced electron transfer of ammonium dithiolate metal complexes (Shinshu Univ.) SUMITA, Hideyuki; USAMI, Hisanao; TANAKA, Takafumi; SUZUKI, Eiji

2F5-52 Bactericidal activity of water-soluble antimonyporphyrin toward *Saccharomyces cerevisiae* (Faculty of Engineering, Univ. of Miyazaki, Faculty of Engineering, Shizuoka Univ.) YASUDA, Masahide; NAKAHARA, Takuro; MATSUMOTO, Tomoko; MATSUMOTO, Jin; SHIRAGAMI, Tsutomu; HIRAKAWA, Kazutaka

Asian International Symposium -Organic Photochemistry

Sunday, March 29, AM

Chair: YATSUHASHI, Tomoyuki and BELL, Toby (10:00~12:00)

3F5-07* Opening remarks (Tokyo Metropolitan Univ.; SORST/JST) INOUE, Haruo

3F5-08* Keynote Lecture Single chain fluorescence studies of poly(phenylenevinylene) based polymers (Univ. of Melbourne) BELL, Toby

3F5-11* Invited Lecture Ultrashort X-ray pulse emission controlled by femtosecond laser pulses; struggles for application (The Univ. of Tokyo) HATANAKA, Koji

3F5-13* Invited Lecture A new time-resolved technique to detect conformation and intermolecular interaction of photosensor protein reactions (Kyoto Univ.) ONAKASONE, Yusuke • TOKUTOMI, Satoru • TERAZIMA, Masahide

3F5-15* Invited Lecture Microscopic heterogeneity in thin film materials revealed by wide-field single molecule fluorescence microscopy (Osaka Univ.; PRESTO/JST) OITO, Syoji • KUSUMI, Takatsugu • ITOH, Kou • MAEDA, Kentaro • TAKEI, Satoshi • MIYASAKA, Hiroshi

3F5-17* Invited Lecture Chemiluminescence from the Decomposition of Peroxymonocarbonate and Its Application in Analytical Chemistry (Tsinghua Univ.) LIN, Jin-Ming

Sunday, March 29, PM

Chair: HIRANO, Takashi and MOHANTY, Jyotirmayee (13:10~14:20)

3F5-26* Keynote Lecture Cucurbituril: A versatile macrocyclic host for modulating the molecular properties of organic guest molecules (Bhabha Atomic Res. Centre) MOHANTY, Jyotirmayee

3F5-29* Invited Lecture Nano space control in polyfluoroalkyl azobenzene derivative/layered hexaniobate hybrid materials by photo-irradiation (Tokyo Metropolitan Univ.; SORST/JST) NABETANI, Yu

3F5-31* Invited Lecture Photophysical and photochemical investigation of chiral supramolecular systems by time-resolved circular dichroism spectra (Tohoku Univ.) ARAKI, Yasuyuki

Chair: MOHANTY, Jyotirmayee and TAKAGI, Shinsuke (14:30~15:10)

3F5-34* Invited Lecture Luminous properties of dye incorporated in 2D nano space and its environmental response (Nagoya Univ.) SASAI, Ryo

3F5-36* Invited Lecture Photoinduced charge separation and hydrogen evolution with mesoporous organosilica/viologen composite (Toyota Central R&D Labs. Inc.; JST-CREST) OHASHI, Masataka

Chair: ASANO, Motoko and LAI, Siu-Wai (15:20~16:30)

3F5-39* Keynote Lecture Phosphorescent platinum(II) complexes. Spectroscopy, photophysical properties and materials science applications (Univ. of Hong Kong) LAI, Siu-Wai

3F5-42* Invited Lecture Luminescence modulation in lanthanide(III) complex by coordination control of organic ligands (Nara Inst. of Sci. and Tech.) HASEGAWA, Yasuchika

3F5-44* Invited Lecture Photophysical properties of rhenium(I) complexes controlled by weak interaction between aromatic ligands (Tokyo Tech.; AIST; SORST/JST) MORIMOTO, Tatsuki • ITO, MEGUMI • KOIKE, KAZUhide • ISHITANI, Osamu

Chair: LAI, Siu-Wai and HASEGAWA, Yasuchika (16:40~17:40)

3F5-47* Invited Lecture Synthetic approach to new transition metal complexes as functional molecules having boron atom (Hokkaido Univ.) SAKUDA, Eri

3F5-49* Invited Lecture Hexarhenium (III) chalcogenide cluster complexes as an original class of luminophores (Russian Academy of Sci.; Hokkaido Univ.) BRYLEV, Konstantin A.

3F5-51* Invited Lecture Fluorescence from highly excited states and distortion dynamics of ethynyl-linked pyrene dimers in fluid solution (Tokyo Metropolitan Univ.) ASANO, Motoko

Room G1

Bldg.10 1031

Organic Chemistry -Reaction and Synthesis-Aliphatic and Alicyclic Compounds

Friday, March 27, AM

Chair: ISHIKAWA, Hayato (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1G1-01, 1G1-02, 1G1-03, 1G1-04, 1G1-05, 1G1-06)

1G1-01 Synthesis and Application of Homoproline Derivative Bearing a Phosphonic Acid Monoester Moiety as a Catalyst in The Asymmetric Michael Addition Reaction (Department of Chemistry, Graduate School of Science, Hiroshima Univ.) TRIANA, Widiati; KUNISHI, Tsuyoki; HIRAGA, Yoshikazu; KOJIMA, Satoshi; ABE, Manabu

1G1-02 Studies of the homoproline methyl ester derivatives-catalyzed asymmetric aldol reaction (Department of Chemistry, Graduate School of Science, Hiroshima Univ.) KUNISHI, Tsuyoki; TRIANA, Widiati; HIRAGA, Yoshikazu; KOJIMA, Satoshi; ABE, Manabu

1G1-03 Examination of the Asymmetric Michael Reaction Using Chiral Amines as Catalysts (Department of Chemistry, Graduate School of Science, Hiroshima Univ.; Center of Quantum Life Sciences, Hiroshima Univ.)

KOSAKA, Ami; OKA, Yuji; IWAMOTO, Akihisa; UMEDA, Yasuhiro; KOJIMA, Satoshi; ABE, Manabu

1G1-04 Enantioselective Direct Aldol Type Reaction of Azlactone via Protonation of Vinyl Ethers by Chiral Bronsted Acid Catalyst (Graduate School of Science, Tohoku Univ.) TANAKA, Hiroyasu; TERADA, Masahiro

1G1-05 Asymmetric Direct Vinylogous Aldol Reaction Catalyzed by Axially Chiral Guanidine (Graduate School of Science, Tohoku Univ.) SHIMADA, Naoki; UBE, Hitoshi; TERADA, Masahiro

1G1-06 Development of New Aminohydroxyacetone Synthons and Its Application to Asymmetric Aldol Reactions (Kochi Univ.) KOMATSU, Yoshiyuki; IKISHIMA, Hideaki; KOTSUKI, Hiyoshizo

Chair: MASE, Nobuyuki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1G1-08, 1G1-09, 1G1-10, 1G1-11, 1G1-12, 1G1-13)

1G1-08 Asymmetric aldol reaction of acetaldehyde using Novel Organocatalysts Having Heteroarylsulfonyl Groups (Nagoya Institute of Technology) HARA, Noriyuki; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi

1G1-09 Development of the direct asymmetric aldol reaction using 5*H*-oxazol-4-ones as nucleophiles by novel chiral guanidine catalysts (Univ. of Hyogo) TAKIMOTO, Gouta; MISAKI, Tomonori; SUGIMURA, Takashi

1G1-10 The Effectiveness of Proteinogenic Amino Acids in the Asymmetric Aldol Reaction in DMSO and Aqueous DMSO (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; ITOH, Takahiko; NAGAE, Norio; OHKUBO, Masahiro; ISHIKAWA, Hayato

1G1-11 Diphenylprolinol Silyl Ether as a Catalyst in an Enantioselective, Catalytic, Michael Reaction for the Formation of α,α -Disubstituted α -Amino Acid Derivatives (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; OBI, Kazuki; OHTA, Yusuke; OKAMURA, Daichi; ISHIKAWA, Hayato

1G1-12 One-pot sequential reaction using resin-supported TEMPO and resin-supported peptide catalyst (Inst. Ind. Sci., Univ. of Tokyo) MANO, Erika; AKAGAWA, Kengo; KUDO, Kazuaki

1G1-13 Asymmetric Michael addition of aldehydes with *b*-nitroalkenes using a primary amino acid salt (Graduate School of Engineering, Hokkaido Univ.) SATO, Atsushi; YOSHIDA, Masanori; HARA, Shoji

Chair: YOSHIDA, Masanori (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1G1-15, 1G1-16, 1G1-17, 1G1-18, 1G1-19)

1G1-15 Asymmetric, Catalytic, and Direct Self-Aldol Reaction of Acetaldehyde Catalyzed by Diarylprolinol (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; ITOH, Takahiko; SAMANTA, Sampak; ISHIKAWA, Hayato

1G1-16 Asymmetric Michael Reaction of Acetaldehyde Catalyzed by Diphenylprolinol Silyl Ether (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; OHKUBO, Masahiro; ITOH, Takahiko; ISHIKAWA, Hayato

1G1-17 Synthesis of OFF-ON Fluorogenic Imines And Its Application for Catalyst Screening (Shizuoka Univ., The Scripps Research Institute) SHIBAGAKI, Fumiya; MASE, Nobuyuki; TAKABE, Kunihiko; TANAKA, Fujie

1G1-18 Diastereoselective Aziridination of α,β -Unsaturated Carbonyl Compounds Using Benzyl *N*-Chloro-*N*-sodiocarbamate (Osaka Univ.) MINAKATA, Satoshi; MURAKAMI, Yuta; TSURUOKA, Ryoji; KOMATSU, Mitsuo

1G1-19* Rate Enhancement of Phase-Transfer Catalyzed Conjugate Additions by CsCl:Organocatalytic Approach to Enantioselective Synthesis of Pyrrolidine Derivatives (Department of Chemistry, Graduate School of Science, Kyoto Univ.) KUMANO, Takeshi; KANO, Taichi; MARUOKA, Keiji

Friday, March 27, PM

Chair: URAGUCHI, Daisuke (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1G1-28, 1G1-30, 1G1-31, 1G1-32, 1G1-33)

1G1-28* Development of Direct Asymmetric Mannich Reaction Catalyzed by a Binaphthyl-based Amino Sulfonamide (Department of Chemistry, Graduate School of Science, Kyoto Univ.) YAMAGUCHI, Yukako; KANO, Taichi; MARUOKA, Keiji

1G1-30[†] Direct Asymmetric Benzoyloxylation of Aldehydes Catalyzed by 2-Tritylpyrrolidine (Department of Chemistry, Graduate School of Science, Kyoto Univ.) MII, Haruka; KANO, Taichi; MARUOKA, Keiji

1G1-31 Development of Asymmetric Mannich-type reaction with guanidine-thiourea bifunctional organocatalyst (Department of Biotechnology and Life Science, Graduate school of Technology, Tokyo Univ. of Agriculture and Technology) TAKADA, Keisuke; TANAKA, Shinji; NAGASAWA, Kazuo

1G1-32 Direct Organocatalytic Mannich Reaction of Acetaldehyde: An Improved Catalyst and Mechanistic Insight from a Computational Study (1) (Faculty of Engineering, Tokyo Univ. of Science; National Institute of Advanced Industrial Science and Technology) HAYASHI, Yujiro; URUSHIMA, Tatsuya; OKANO, Tsubasa; ITOH, Takahiko; ISHIKAWA, Hayato; UCHIMARU, Tadafumi

1G1-33 Direct Organocatalytic Mannich Reaction of Acetaldehyde: An Improved Catalyst and Mechanistic Insight from a Computational Study (2) (National Institute of Advanced Industrial Science and Technology; Faculty of Engineering, Tokyo Univ. of Science) UCHIMARU, Tadafumi; URUSHIMA, Tatsuya; OKANO, Tsubasa; ITOH, Takahiko; ISHIKAWA, Hayato; HAYASHI, Yujiro

Chair: KANO, Taichi (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1G1-35, 1G1-36, 1G1-37, 1G1-38, 1G1-39, 1G1-40)

1G1-35 Synthesis and Application of Novel Axially Chiral Binaphthyl Compounds. (Faculty of Science, Kobe Univ.) MICHIGAMI, Kyoosuke; MORIKAWA, Satoshi; AMII, Hideki

1G1-36 Chiral ammonium betaine as an organic base catalyst for a direct Mannich-type reaction (Nagoya Univ.) KOSHIMOTO, Kyohei; URAGUCHI, Daisuke; OOI, Takashi

1G1-37 Chiral ammonium betaine-catalyzed intramolecular asymmetric acyl rearrangement (Nagoya Univ.) MIYAKE, Shuhei; URAGUCHI, Daisuke; OOI, Takashi

1G1-38 Asymmetric synthesis of α,α -dialkyl- α -aminoacids based on the enantioselective alkylation of azlactones under biphasic conditions (Nagoya Univ.) ASAI, Yoshihiro; SETO, Yuki; URAGUCHI, Daisuke; OOI, Takashi

1G1-39 Asymmetric [4+2] Type Cycloaddition of Azlactones to β,γ -Unsaturated α -Ketoesters Catalyzed by Axially Chiral Guanidine Bases (Graduate School of Science, Tohoku Univ.) NII, Hiroyuki; NAKANO, Megumi; TERADA, Masahiro

1G1-40[†] Syntheses of Proline Derivatives by Asymmetric [3+2]Cycloaddition of Schiff Base Catalyzed by Axially Chiral Guanidine (Graduate School of Science, Tohoku Univ.) NAKANO, Megumi; TERADA, Masahiro

Chair: KURAHASHI, Takuya (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1G1-42, 1G1-44, 1G1-45, 1G1-46, 1G1-47)

1G1-42* Diphenylprolinol Silyl Ether as a Catalyst in an Enantioselective, Catalytic, Formal Aza [3+3] Cycloaddition Reaction. (Faculty of Engineering, Tokyo Univ. of Science) GOTOH, Hiroaki; MASUI, Ryouhei; ISHIKAWA, Hayato; HAYASHI, Yujiro

1G1-44 Diphenylprolinol Silyl Ether Catalysis in an Asymmetric Formal Carbo [3+3] Cycloaddition via a Domino Michael/Knoevenagel Condensation (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; GOTOH, Hiroaki; TOYOSHIMA, Maya; ISHIKAWA, Hayato

1G1-45 Study on Enantioselective Robinson Annulation Using Chiral Diamine-related Organocatalysts (Kochi Univ.) INOKOISHI, Yogo; KOTSUKI, Hiyoshizo

1G1-46 Development of Aminations Using DMAP-related Organocatalysts in Water (Kochi Univ., Faculty of Science) KO, Kyungmin; KOTSUKI, Hiyoshizo

1G1-47[#] Asymmetric Diels-Alder Reactions of α,β -Unsaturated Aldehydes Catalyzed by a Diarylprolinol Silyl Ether Salt in the Presence of Water (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; SAMANTA, Sampak; GOTOH, Hiroaki; ISHIKAWA, Hayato

Chair: OOI, Takashi (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1G1-49, 1G1-50, 1G1-51, 1G1-52, 1G1-53, 1G1-54)

1G1-49 Lys-Catalyzed Self-Condensation of Aldehydes in Water (Ehime Univ.) WATANABE, Yutaka; SAWADA, Kazuo; MORIOKA, Takashi; HAYASHI, Minoru

1G1-50 Self-condensation of aldehydes catalyzed by neutral amino acid with a base (Ehime Univ.) WATANABE, Yutaka; MORIOKA, Takashi; HAYASHI, Minoru

1G1-51 Schotten-Baumann type tosylation by *N*-alkylimidazole without organic solvent species (Kyoto Univ.) ASANO, Keisuke; KURAHASHI, Takuya; MATSUBARA, Seiji

1G1-52 Unusual photoreaction of triquinacene within a self-assembled cage (Grad. School of Engineering, Univ. of Tokyo, CREST) NISHIJIMA, Yuki; MURASE, Takashi; FUJITA, Makoto

1G1-53 Synthesis of A Bergamotene Analogue By Intramolecular [2+2] Photocycloaddition (Graduate School of Engineering, Graduate School of Environment and Information Sciences, Yokohama National Univ.) HONDA, Kiyoshi; TAKAHASHI, Yasuhiko; AONO, Youhei; HOSHINO, Yujiro; INOUE, Seiichi

1G1-54 Photooxidative transformation of organic tellurides to corresponding carbonyl compounds (Univ. of Tsukuba, Natl. Inst. of Advanced Industrial Science and Technology (AIST)) HYUGANO, Takeshi; OUCHI, Akihiko

Saturday, March 28, AM

Chair: SUZUKI, Takeyuki (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2G1-01, 2G1-02, 2G1-03, 2G1-04, 2G1-05, 2G1-06)

2G1-01 Highly Stereoselective Aza-Petasis-Ferrier Rearrangement Catalyzed by Chiral Phosphoric Acid (Graduate School of Science, Tohoku Univ.) TODA, Yasunori; TERADA, Masahiro

2G1-02 Highly Diastereo- and Enantioselective Hetero Diels-Alder Reaction

Catalyzed by Chiral Phosphoric Acid (Graduate School of Science, Tohoku Univ.) TABUSE, Hideaki; MOMIYAMA, Norie; TERADA, Masahiro

- 2G1-03** Enantioselective Sakurai-Hosomi Allylation Reaction Catalyzed by Chiral Phosphoric Acid (Graduate School of Science, Tohoku Univ.) NISHIMOTO, Hayato; MOMIYAMA, Norie; TERADA, Masahiro
- 2G1-04** Chiral Tetraaminophosphonium phosphite as a highly reactive *P*-nucleophile: Application to catalytic asymmetric hydrophosphonylation (Nagoya Univ.) ITO, Takaki; URAGUCHI, Daisuke; OOI, Takashi
- 2G1-05** Molecular design of novel tetra(aryl amino)phosphoniumborates as a cationic Bronsted acid catalyst (Nagoya Univ.) NAKASHIMA, Daisuke; URAGUCHI, Daisuke; OOI, Takashi
- 2G1-06** Chiral phosphonium salt-catalyzed conjugate additions of acyl anion equivalent (Nagoya Univ.) UEKI, Yusuke; URAGUCHI, Daisuke; OOI, Takashi

Chair: HAYASHI, Yujiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2G1-08)

- 2G1-08** CSJ Award for Creative Work Development of Organocatalysts Based on Hydrogen Bonds as Key Interaction (Graduate School of Science, Tohoku Univ.) TERADA, Masahiro

Chair: YAMANAKA, Masahiro (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2G1-15, 2G1-17, 2G1-19, 2G1-20)

- 2G1-15***† Development of Enantioselective aza-Morita-Baylis-Hillman Tandem Reaction Using Bifunctional Organocatalyst (1) (ISIR, Osaka Univ.) INOUE, Naohito; TAKIZAWA, Shinobu; SUZUKI, Takeyuki; SASAI, Hiroaki
- 2G1-17*** Development of Enantioselective aza-Morita-Baylis-Hillman Tandem Reaction Using Bifunctional Organocatalyst (2) (ISIR, Osaka Univ.) TAKIZAWA, Shinobu; INOUE, Naohito; SUZUKI, Takeyuki; SASAI, Hiroaki
- 2G1-19** Intramolecular Baylis-Hillman reaction using resin-supported peptide catalyst (Inst. Ind. Sci., Univ. of Tokyo) AKAGAWA, Kengo; SAKAMOTO, Seiji; KUDO, Kazuaki
- 2G1-20** Development of Dual-Activation Asymmetric Organocatalysts (Osaka Univ. ISIR) KIRIYAMA, Kimiko; INOUE, Naohito; TAKIZAWA, Shinobu; SUZUKI, Takeyuki; SASAI, Hiroaki

Saturday, March 28, PM

Chair: URAGUCHI, Daisuke (13 : 30~14 : 40)

* 13:20-13:30: interval for laptop PC connection.(2G1-28, 2G1-29, 2G1-30, 2G1-31, 2G1-33, 2G1-34)

- 2G1-28** Chiral Bronsted Acid-Catalyzed Enantioselective aza-Darzens Reaction (Faculty of Science, Gakushuin Univ.) SUZUKI, Tohru; MORI, Keiji; AKIYAMA, Takahiko
- 2G1-29** Chiral Bronsted Acid-Catalyzed Enantioselective Friedel-Crafts Alkylation of Indole with Trifluoropyruvate (Faculty of Science, Gakushuin Univ.) KASHIKURA, Wataru; ITOH, Junji; MORI, Keiji; AKIYAMA, Takahiko
- 2G1-30** Theoretical Study on Chiral Bronsted acid-catalyzed enantioselective Friedel-Crafts alkylation (Rikkyo Univ.; Gakushuin Univ.) HIRATA, Takashi; YAMANAKA, Masahiro; AKIYAMA, Takahiko
- 2G1-31*** Total Synthesis of Bromine-containing Polycyclic Marine Natural Products Using Enantioselective Halocyclization of Polyprenoids (Nagoya Univ.) UKAI, Atsushi; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 2G1-33** Enantioselective 5-*exo-trig* Iodolactonization Catalyzed by Chiral Nucleophilic Phosphites (Nagoya Univ.) SHOMI, Gakujun; UKAI, Atsushi; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 2G1-34** Chiral Phosphonium Salt-Catalyzed Enantioselective Polyene Cyclization (Nagoya Univ.) SAKUMA, Masayuki; SAKAKURA, Akira; ISHIHARA, Kazuaki

Sunday, March 29, AM

Chair: HONDA, Kiyoshi (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3G1-01, 3G1-02, 3G1-03, 3G1-04, 3G1-05, 3G1-06)

- 3G1-01** Reaction of 1- or/and 3-substituted allylic alcohols and hetero nucleophiles with tin(II) chloride (Sophia Univ.) SATO, Ryohei; OKUTSU, Keisuke; MASUYAMA, Yoshiro
- 3G1-02***† Synthesis of Arylamines by Nucleophilic Arylation of *N*-Chloroamines (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) YOSHIMOTO, Yuya; GHORAI, Sujit; HATAKEYAMA, Takuji; NAKAMURA, Masaharu
- 3G1-03** Preparation of Indoles by Intramolecular Cyclization of *o*-Alkynylaniline Catalyzed by Silver Nitrate (Faculty of Science, Gakushuin Univ.) MOHAMED AHMED, Mohamed Soliman; NOGUCHI, Hideyuki; MORI, Keiji; AKIYAMA, Takahiko
- 3G1-04** Concise Construction of a Quinazoline Skeleton by Exploiting the α -Amino Effect (Faculty of Science, Gakushuin Univ.) EHARA, Kensuke; OHSHIMA, Yoshitaka; MORI, Keiji; AKIYAMA, Takahiko
- 3G1-05** Development of Direct Ester-Amide Exchange Reaction Catalyzed by Metal Alkoxide Under Mild Conditions (Graduate School of Engineering

Science, Osaka Univ.) YOSHIYAMA, Asako; HAYASHI, Yukiko; OHSHIMA, Takashi; MASHIMA, Kazushi

- 3G1-06** Effective Synthesis of Esters Using Novel Bronsted Acid Catalyst (Gifu university) FUNABIKI, Kazumasa; KOMEDA, Takuya; HIGASHIJIMA, Shinji; SUZUKI, Singo; MORITA, Masayuki; MIURA, Hidetoshi; KUBOTA, Yasuhiro; MATSUI, Masaki

Chair: SATO, Sota (10 : 10~11 : 00)

* 10:00-10:10: interval for laptop PC connection.(3G1-08, 3G1-09, 3G1-10, 3G1-11, 3G1-12)

- 3G1-08** A novel metal-free one-pot method for oxidative conversion of primary alcohols into amides via nitriles with molecular iodine and H₂O₂ in aq. NH₃. (Chiba Univ.) OHMURA, Ryosuke; SAITO, Takao; TOGO, Hideo
- 3G1-09** Examination of metal-catalyzed ring opening of cyclic anhydrides using hydroxamic acid ligands (Yokohama National Univ.) HOSHINO, Yujiro; MIYAKE, Shinpei; HONDA, Kiyoshi; INOUE, Seiichi
- 3G1-10** TTMP-catalyzed ring opening reaction of aziridines with silylated nucleophiles (Ibaraki Univ.) TSUKAMOTO, Kumiko; MATSUKAWA, Satoru
- 3G1-11** Development of Protective/Activating Group for Silanol (Inst. for Materials Chemistry and Engineering, Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.; Tokyo Inst. of Technology) MIYAKE, Yuuki; HIRASHIMA, Ryouichi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3G1-12** Dynamic Covalent Chemistry of Nicholas Etherification Reaction (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) KIDOBA, Kazuyuki; KIHARA, Nobuhiro

Chair: FUCHIBE, Kohei (11 : 10~11 : 50)

* 11:00-11:10: interval for laptop PC connection.(3G1-14, 3G1-15, 3G1-16, 3G1-17)

- 3G1-14** S_{RN}1 reaction in ionic liquids (Yamaguchi Univ.) TOYOSHIMA, Seiichi; KAMIMURA, Akio
- 3G1-15** Reaction Mechanism of Bromination and Dimerization of Active Methylene Compounds by DBU-BrCCl₃ Reagent System (Univ. of Saga) HORI, Yuji; TAKAI, Masami; KITAMURA, Tsugio
- 3G1-16** Acceleration effects of trace amounts of solvents on organic reactions (Ryukoku Univ.) KAWAGUCHI, Yusuke; OHYAMA, Tohru; HARADA, Tadao
- 3G1-17** New method for preparing of lumiflavin (Kagawa School of Pharmaceutical Science, Tokushima Bunri Univ.) KOBAYASHI, Teruhiko; KINO, Katsuhito; KOBAYASHI, Takanobu; KOMORI, Rie; MIYAZAWA, Hiroshi

Asian International Symposium -Organic Chemistry

Sunday, March 29, PM

Chair: TAKATA, Toshikazu (13 : 00~14 : 10)

- 3G1-25***† Keynote Lecture Efficient rotaxane syntheses: From solution phase to solid state (National Taiwan Univ.) CHIU, Sheng-Hsien
- 3G1-26***† Invited Lecture Synthesis of magnetically aligned molecule via self-assembly (The Univ. of Tokyo; Nagoya City Univ.; RIKEN; Inst. for Mol. Sci.; Okazaki Inst. for Integrative Bioscience; CREST) ○SATO, Sota • MOROHARA, Osamu • FUJITA, Daishi • YAMAGUCHI, Yoshiki • KURIMOTO, Eiji • YAMAGUCHI, Takumi • KATO, Koichi • FUJITA, Makoto
- 3G1-30***† Invited Lecture π -conjugation in boracycles: Borole and 1H,2H-1,2-Diborin derivatives, and their dianionic species (Nagoya Univ.) WAKAMIYA, Atsushi

Chair: KAMBE, Nobuaki (14 : 20~15 : 30)

- 3G1-33***† Invited Lecture In cell organic chemistry: Chemical tools for in cell analysis of nucleic acids (Kyoto Univ.) ○SANDO, Shinsuke • AOYAMA, Yasuhiro
- 3G1-35***† Keynote Lecture Development of novel fluorescent glucose bioprobes and their application toward the discovery of Diabetes treatment (Seoul National Univ.) PARK, Seung Bum
- 3G1-38***† Invited Lecture Selective reactions based on retro-allylation of homoallyl alcohols (Kyoto Univ.) YORIMITSU, Hideki

Chair: SHIBATA, Takanori (15 : 40~17 : 10)

- 3G1-41***† Invited Lecture Rhenium- and manganese-catalyzed transformations via C-H and C-C bond cleavage (Okayama Univ.) KUNINOBU, Yoichiro
- 3G1-43***† Invited Lecture New synthetic methods of cyclic compounds by palladium-catalyzed reactions (Kyoto Univ.) SHINTANI, Ryo
- 3G1-45***† Keynote Lecture Enantioselective friedel-crafts reactions by chiral bronsted acid (Chinese Academy of Sci.) YOU, Shu-Li
- 3G1-48***† Invited Lecture A self-supporting strategy for chiral catalyst immobilization (Chinese Academy of Sci.) DING, Kuiling

Organic Chemistry -Reaction and Synthesis-
Aliphatic and Alicyclic Compounds

Monday, March 30, AM

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

* 8:50-9:00: interval for laptop PC connection.(4G1-01, 4G1-02, 4G1-03, 4G1-04, 4G1-05)

4G1-01 Asymmetric Esterification of Free Carboxylic Acids with Racemic Alcohols Using Pivalic Anhydrides and Tetramisole Derivatives (1) (Tokyo Univ. of Science) NAKATA, Kenya; SUGIMOTO, Masuhiro; ONDA, Yusuke; KATAOKA, Jun; SHIINA, Isamu**4G1-02** Asymmetric Esterification of Free Carboxylic Acids with Racemic Alcohols Using Pivalic Anhydrides and Tetramisole Derivatives (2) (Tokyo Univ. of Science) NAKATA, Kenya; IZUMI, Takashi; ONO, Keisuke; SHIINA, Isamu**4G1-03[†]** Asymmetric Desymmetrization of meso-Aziridines with Thiols Catalyzed by Prolinol Derivatives (Faculty of Science, Ibaraki Univ.) NAGASHIMA, Fumiaki; ORIYAMA, Takeshi**4G1-04** One-pot Highly Enantioselective Desymmetrization of meso-Diols by Catalytic Asymmetric Acylation-Silylation (Faculty of Science, Ibaraki Univ.) URAI, Hitomi; ORIYAMA, Takeshi**4G1-05*** Mild, powerful, and robust acylations and sulfonylation utilizing *N*-methylimidazole (NMI) - base combined catalyst (synergy effect) (Kwansei Gakuin Univ.) NAKATSUJI, Hidefumi; MORIMOTO, Mami; UENO, Kanako; NISHIKADO, Hiroshi; HORI, Hiroshi; TANABE, Yoo

Chair: MOMIYAMA, Norie (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 Kinetic Resolution of Oxazolyl-1-ethanol by Asymmetric Esterification of Free Carboxylic Acids Using Benzoic Anhydrides and Tetramisole Derivatives (Tokyo Univ. of Science) SHIINA, Isamu; ONO, Keisuke; NAKATA, Kenya**4G1-09** Kinetic Resolution of 2-Hydroxy Esters by Asymmetric Esterification of Free Carboxylic Acids Using Benzoic Anhydrides and Tetramisole Derivatives (Tokyo Univ. of Science) SHIINA, Isamu; SUGIMOTO, Masuhiro; SEKIGUCHI, Akihiro; NAKATA, Kenya**4G1-10** Kinetic Resolution of Aryl Allyl Carbinols by Asymmetric Esterification of Free Carboxylic Acids Using Benzoic Anhydrides and Tetramisole Derivatives (Tokyo Univ. of Science) SHIINA, Isamu; MIYAMOTO, Tomomi; TOSAKI, Yu-ta; NAKATA, Kenya**4G1-11** 3-Pyrroline-1-carbonyl Group: A Protective and Removable Group for the Kinetic Resolution of Racemic Alcohols and Carboxylic Acids through Catalytic Asymmetric Acylation (Nagoya Univ.) UMEMURA, Shuhei; SAKAKURA, Akira; ISHIIHARA, Kazuaki**4G1-12** Design of hydrophobic ammonium sulfate catalysts for the dehydrative ester condensation in water (Nagoya Univ.) KOSHIKARI, Yoshiki; SAKAKURA, Akira; ISHIIHARA, Kazuaki**4G1-13** Synthesis of Carboxylic Anhydrides by Dehydrative Condensation Catalysis. (Nagoya Univ.) OHKUBO, Takuro; SAKAKURA, Akira; ISHIIHARA, Kazuaki

Chair: MATSUMOTO, Takatoshi (11:20~12:10)

* 11:10-11:20: interval for laptop PC connection.(4G1-15, 4G1-16, 4G1-17, 4G1-19)

4G1-15 The First Asymmetric Esterification of Racemic Carboxylic Acids with Achiral Diarylmethanols Using Benzoic Anhydrides and Tetramisole Derivatives (Tokyo Univ. of Science) SHIINA, Isamu; ONDA, Yusuke; NAKATA, Kenya**4G1-16** The First Asymmetric Esterification of Racemic Carboxylic Acids with Achiral Diarylmethanols Using Benzoic Anhydrides and New BTM Catalyst (Tokyo Univ. of Science) NAKATA, Kenya; ONDA, Yusuke; SHIINA, Isamu**4G1-17*[†]** Oxidation and Aerobic Hydrogenation Catalyzed by Noncovalently Dendronized Flavin (Graduate School of Engineering Science, Osaka Univ.) IMADA, Yasushi; KITAGAWA, Takahiro; IIDA, Hiroki; NAOTA, Takeshi**4G1-19** Asymmetric organocatalytic synthesis of trifluoromethylated 1,3-diols using trifluoroacetaldehyde ethyl hemiacetal (Gifu university) FUNABIKI, Kazumasa; FURUNO, Yudai; KUBOTA, Yasuhiro; MATSUI, Masaki

Monday, March 30, PM

Chair: SHIINA, Isamu (13:20~14:10)

* 13:10-13:20: interval for laptop PC connection.(4G1-27, 4G1-28, 4G1-29, 4G1-30, 4G1-31)

4G1-27 Optical Resolution and Determination of the Absolute Configuration of Secondary Alcohols from Higher Fatty Acid (The Univ. of Shiga Prefecture; Tohoku Univ.; Tohoku Pharmaceutical Univ.) KAWAI, Yoshihiko; MURATA, Takahiko; KUBO, Shinya; MATSUMOTO, Takatoshi; TAKESHITA, Mitsuhiro; WATANABE, Masataka; INOUE, Yoshinori; KUMAGAI, Tsutomu**4G1-28** Optical Resolution of Furfuralcohols Synthesized from 2-, 3-Furfural and Comparison between Those Stereoisomers (The Univ. of Shiga Prefecture ;

Department of Materials Science; Tohoku Univ.; Tohoku Pharmaceutical Univ.) KAWAGUCHI, Tsuyoshi; KUBO, Shinya; MATSUMOTO, Akihisa; MATSUMOTO, Takatoshi; TAKESHITA, Mitsuhiro; WATANABE, Masataka; INOUE, Yoshinori; KUMAGAI, Tsutomu

4G1-29 Synthesis and Optical Resolution of Alcohols including Triple Bond (The Univ. of Shiga Prefecture ; Department of Materials Science; Tohoku Univ.; Yamagata Univ.) NISHIDA, Junya; KUBO, Shinya; MATSUMOTO, Akihisa; IZUMI, Taeko; MURAKAMI, Satoshi; MATSUMOTO, Takatoshi; WATANABE, Masataka; INOUE, Yoshinori; KUMAGAI, Tsutomu**4G1-30** Self-annulation of enals via umpolung catalyzed by a cyclophane-type chiral NHC (Faculty of engineering the university of Tokyo) KAWATSU, Kunihiko; MATSUOKA, Yuki; ISHIDA, Yasuhiro; SAIGO, Kazuhiko**4G1-31** Benzoin condensation reaction catalyzed by *N*-functionalized imidazolium salts (Kansai Univ.) SHIMAKAWA, Yuuki; MORIKAWA, Takashi; SAKAGUCHI, Satoshi

Room G2

Bldg.10 1032

Organic Chemistry -Reaction and Synthesis-
Aliphatic and Alicyclic Compounds

Friday, March 27, AM

Chair: FUCHIBE, Kohei (9:00~10:10)

* 8:50-9:00: interval for laptop PC connection.(1G2-01, 1G2-02, 1G2-03, 1G2-04, 1G2-05, 1G2-06)

1G2-01 Development of direct-type asymmetric hydroxymethylation of ketones in water (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) KAWASUMI, Katsuaki; KOKUBO, Masaya; NAGANO, Takashi; KOBAYASHI, Shu**1G2-02** Chiral Copper-catalyzed Enantioselective Ring-Opening of meso-Epoxides in Water (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) NAITO, Takeshi; KOKUBO, Masaya; KOBAYASHI, Shu**1G2-03** Asymmetric oxygen atom transfer using chiral Ru(NO)-salen complexes as catalyst: enantioselective aerobic oxidation of sulfides (Kyushu Univ.) NISHIKAWA, Hiroaki; TANAKA, Haruna; UCHIDA, Tatsuya; KATSUKI, Tsutomu**1G2-04** Mechanistic study on stereoselectivity induction in aluminum-catalyzed oxidation of cyclic thioacetals (Kyushu Univ.) FUJISAKI, Junichi; MATSUMOTO, Kazuhiro; KATSUKI, Tsutomu**1G2-05** Synthetic study on optically-active C₂-symmetric cyclophanes (Graduate School of Science and Technology, Tokyo Institute of Technology) TAKIGUCHI, Hiromu; HOMMA, Sunao; MORI, Keizi; OHMORI, Ken; SUZUKI, Keisuke**1G2-06** Catalytic enantioselective borane reduction of enones using chiral lactam alcohol (Faculty of Agriculture, Kagawa Univ.) MIKAMI, Yuudai; KAWANAMI, Yasuhiro

Chair: MORI, Keiji (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(1G2-08, 1G2-09, 1G2-10, 1G2-11, 1G2-12, 1G2-13)

1G2-08 Asymmetric C-H bond Insertion Reaction Using an Iridium-salen Complex as Catalyst (Kyushu Univ.) SUEMATSU, Hidehiro; KATSUKI, Tsutomu**1G2-09** Asymmetric Si-H Bond Insertion Reaction Using an Iridium-Salen Complex as Catalyst (Kyushu Univ.) YASUTOMI, Yoichi; SUEMATSU, Hidehiro; KATSUKI, Tsutomu**1G2-10** Study on a Novel Palladium-catalyzed Enantioselective Cyclization of Dienamide Compounds. (Science and Technology, Univ. of Kwansei Gakuin) TSUCHIKAWA, Hiroshi; SAKAGUCHI, Taku; KATSUMURA, Shigeo**1G2-11** Stereospecific Interconversion of *cis*- and *trans*- γ, δ -Epoxy α, β -Unsaturated Ester Systems (Hokkaido Univ.) YOSHIMURA, Fumihiko; YU, Xiao-qiang; TANINO, Keiji; MIYASHITA, Masaaki**1G2-12** Study of Asymmetric Metathesis Reaction Using Chiral Tether (Univ. of Hyogo) SIDIKI, SMA Hakim; SUGIMURA, Takashi**1G2-13** Highly Enantioselective Epoxidation of *cis*-Alkenylsilanes (Kyushu Univ.) KUBO, Takuya; MATSUMOTO, Kazuhiro; KATSUKI, Tsutomu

Chair: KONNO, Tsutomu (11:20~12:10)

* 11:10-11:20: interval for laptop PC connection.(1G2-15, 1G2-17, 1G2-19, 1G2-20)

1G2-15* Asymmetric epoxidation of allylic alcohols with hydrogen peroxide (Dept. of Chemistry, Faculty of Science, Graduate School, Kyushu Univ.) EGAMI, Hiromichi; KATSUKI, Tsutomu**1G2-17*** Mechanistic Study on Titanium-Catalyzed Asymmetric Epoxidation (Nissan Chemical Industries, LTD.; Kyushu Univ.) KONDO, Shoichi; SARUHASHI, Kowichiro; SEKI, Kenichi; MATSUBARA, Koutatsu;

MIYAJI, Katsuaki; KUBO, Takuya; MATSUMOTO, Kazuhiro; KATSUKI, Tsutomu

- 1G2-19** Asymmetric Bis(alkoxycarbonylation) Reaction of Cyclic Olefins Catalyzed by Palladium in the Presence of Copper(I) Triflate (Kanazawa Univ., Graduate School of Natural Science and Technology) KITAMURA, Satoko; UKAJI, Yutaka; INOMATA, Katsuhiko
- 1G2-20** Ring-Opening Bis(alkoxycarbonylation) Reaction of Methylenecyclopropanes Catalyzed by Palladium in the Presence of Copper(I) Salt (Kanazawa Univ., Graduate School of Natural Science and Technology) ARATANI, Takahiro; UKAJI, Yutaka; INOMATA, Katsuhiko

Friday, March 27, PM

Chair: UCHIDA, Tatsuya (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(1G2-28, 1G2-29, 1G2-30, 1G2-31, 1G2-32, 1G2-33)
- 1G2-28** Synthesis of 1,1-Difluoro-1-alkenes via Nucleophilic Addition to 1,1-Difluoroallenes (Univ. of Tsukuba) FUCHIBE, Kohei; UEDA, Mikiko; YOKOTA, Misaki; ICHIKAWA, Junji
- 1G2-29[†]** Direct conversion of propargylic alcohols containing a trifluoromethyl group to bromoallenes (Tokyo Univ. of Agri. and Tec.) WATANABE, Yohsuke; YAMAZAKI, Takashi
- 1G2-30** Reductive coupling reaction of β -halo- β , β -difluoropropanoic acid ester with various aldehydes (Kyoto Institute of Technology; Department of Chemistry and Materials Technology) YOKOTANI, Saya; KONNO, Tsutomu; ISHIHARA, Takashi
- 1G2-31** Development of the Cobalt-catalyzed Difluoromethylation (Sagami Chemical Research Center) ARAKI, Keisuke; INOUE, Munenori
- 1G2-32** Synthesis of difluoropyruvate via ozonolysis (Department of Applied Chemistry, Faculty of Engineering, Okayama Univ.) KATAGIRI, Toshimasa; OZAKI, Fumiya; TANAKA, Yasuhiro
- 1G2-33** Design and synthesis of nucleophilic monofluoromethylating reagent with cyclic structure (Nagoya Institute of Technology) FURUKAWA, Tatsuya; GOTO, Yosuke; KAWAZOE, Jumpei; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi

Chair: YAMAZAKI, Takashi (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(1G2-35, 1G2-37, 1G2-39, 1G2-40)
- 1G2-35^{††}** Development of asymmetric trifluoromethylation (Graduate School of Engineering, Nagoya Institute of Technology) NORITAKE, Shun; NOMURA, Yoshinori; HUANG, Yiyong; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
- 1G2-37^{††}** Asymmetric Tandem Aldol-cyclization Reaction using Trifluoropyruvate (Nagoya Institute of Technology, Graduate School of Engineering) OGAWA, Shinichi; IIDA, Norihito; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
- 1G2-39** Catalytic Asymmetric Reaction of β -Trifluoromethyl-Substituted Sulfonyl-Functionalized Enone with mono-Substituted Olefins (Shimane Univ.) MUROSHITA, Satoshi; HOSOKI, Atsushi; NAITO, Yuya; WADA, Eiji
- 1G2-40** Asymmetric Trifluoromethylation Reaction catalyzed by Ammonium Salts and Crown Ethers (Graduate School of Engineering, Nagoya Institute of Technology) KAWAI, Hiroyuki; KUSUDA, Akihiro; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi

Chair: MINAMI, Tatsuya (15:50~16:50)

- * 15:40-15:50: interval for laptop PC connection.(1G2-42, 1G2-43, 1G2-44, 1G2-45, 1G2-46, 1G2-47)
- 1G2-42** A simple synthesis and application of the trifluorinated epoxy ester (Graduate School of Engineering, Tokyo Univ. of Agriculture and Technology) SOMEYA, Sae; TAKASUKA(KAWASAKI), Tomoko; YAMAZAKI, Takashi
- 1G2-43** Development of Trifluoromethylation reactions in Solkane. (Graduate School of Engineering, Nagoya Institute of Technology) KUSUDA, Akihiro; KAWAI, Hiroyuki; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
- 1G2-44** Cyclization reaction of 3-trifluoromethyl-4-alkenol via epoxide. (Graduate School of Engineering, Tokyo Univ. Agri. Tech.) ISHITANI, Takuji; YAMAZAKI, Takashi
- 1G2-45** Preparation of γ -fluoroalkylated allylic alcohols. (Faculty of Engineering, Tokyo Univ. Agri. Tech.) ICHIKAWA, Masashi; ISHITANI, Takuji; TAKASUKA(KAWASAKI), Tomoko; YAMAZAKI, Takashi
- 1G2-46** Stereoselective synthesis of β -substituted- α , β -unsaturated esters with perfluoroalkyl groups at the β -position (Graduate School of Engineering, Tokyo Univ. Agri. Tech., Faculty of Engineering Tokyo Univ. Agri. Tech.) YAMAZAKI, Takashi; MANO, Noriko; TAKASUKA(KAWASAKI), Tomoko
- 1G2-47** Bisstannylation of Fluoroalkylated Alkynes (Kyoto Institute of Technology; Department of Chemistry and Materials Technology) KINUGAWA, Ryoko; KONNO, Tsutomu; ISHIHARA, Takashi

Chair: SHIBATA, Norio (17:00~18:00)

- * 16:50-17:00: interval for laptop PC connection.(1G2-49, 1G2-50, 1G2-51, 1G2-52, 1G2-53, 1G2-54)

- 1G2-49** Highly stereoselective synthesis of fluorine-containing enediynes (Kyoto Institute of Technology; Department of Chemistry and Materials Technology) KISHI, Misato; KONNO, Tsutomu; ISHIHARA, Takashi
- 1G2-50** Novel Introduction of C2 Synthetic Unit with Tertiary Amines: Studies on the Reaction Mechanism and Its Synthetic Applications (Kyoto Institute of Technology; Department of Chemistry and Materials Technology) KAWAMURA, Mio; KONNO, Tsutomu; ISHIHARA, Takashi
- 1G2-51** Enantioselective Aldol Reaction of Siloxyfurans Catalyzed by Chiral Sulfonylamides (Osaka City Univ.) HATANAKA, Yasuo; HIROSE, Daichi; MINAMI, Tatsuya
- 1G2-52** Design and Synthesis of New Fluorine-Containing MMP Inhibitors (Ochanomizu Univ.) NISHIKAWA, Aya; YAJIMA, Tomoko; NAGANO, Hajime
- 1G2-53** Enantioselective Aldol Reactions Catalyzed by Chiral Zinc(II) Complexes Inspired by Aldolases (Faculty of Pharmaceutical Sciences, Tokyo Univ. of Science and Center for Drug Delivery Research, Tokyo Univ. of Science) ITOH, Susumu; AOKI, Shin; KITAMURA, Masanori; KAGEYAMA, Yoshiyuki
- 1G2-54[†]** Perfluoroalkyl Radical Addition to Dehydroamino Acids: A Novel Synthetic Route to Fluorinated Chiral Amino Acids and Peptides (Ochanomizu Univ.) TONOI, Takayuki; YAJIMA, Tomoko; NAGANO, Hajime; MIKAMI, Koichi

Saturday, March 28, AM

Chair: KAWASAKI, Tsuneomi (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(2G2-01, 2G2-02, 2G2-03, 2G2-04, 2G2-05)
- 2G2-01** Polymer-supported catalysts for asymmetric hydrogenation via dynamic kinetic resolution (Toyoohashi Univ. of Tech.) HARAGUCHI, Naoki; CHIWARA, Vinia Ipai; ITSUNO, Shinichi
- 2G2-02** Cationic polymer-supported chiral catalyst for asymmetric transfer hydrogenation of α -keto acid derivatives in water (Toyoohashi Univ. of Technology) CHIBA, Atsuko; ARAKAWA, Yukihiko; HARAGUCHI, Naoki; ITSUNO, Shinichi
- 2G2-03** Enantioselective Addition of Diethylzinc to Benzaldehyde Catalyzed by Chiral Diamines Immobilized on Silica Gel (Yokohama National Univ.) HOSODA, Naoya; YOKOSE, Takuya; ODA, Akinori; ASAMI, Masatoshi
- 2G2-04** Synthesis of Chiral 1,4-Aminoalcohols from (*R*)-1-Phenylethylamine and an Application to Asymmetric Catalytic Reaction (Yokohama National Univ.) MIYAIRI, Naomichi; SASAHARA, Yukihiko; HOSODA, Naoya; ASAMI, Masatoshi
- 2G2-05[#]** Asymmetric Nucleophilic Addition of Organozinc Reagents to Nitrones. Enantiomeric Enhancement by A Racemic Product-like Additive (Kanazawa Univ., Graduate School of Natural Science and Technology) WEI, Weilin; KONISHI, Atsuko; HAMAMOTO, Yoshihira; KOBAYASHI, Masato; UKAJI, Yutaka; INOMATA, Katsuhiko

Chair: OHSHIMA, Takashi (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** Asymmetric Alkylation of Aldehyde by Organozinc Reagent using a chiral Amine Catalyst (Yokohama Natl. Univ.) ASAMI, Masatoshi; SEKI, Ayako; HOSODA, Naoya
- 2G2-09** Highly Enantioselective Asymmetric Autocatalysis Induced by Chiral Amino Acid Due to the Deuterium Substitution (2) (Tokyo Univ. of Science) OZAWA, Hitomi; ITO, Masateru; KAWASAKI, Tsuneomi; SOAI, Kenso
- 2G2-10** Chiral Discrimination of Carbon Isotopic Chiral Compounds Using Asymmetric Autocatalysis (3) (Tokyo Univ. of Science) MATSUMURA, Yukari; SUZUKI, Kenta; ITO, Masateru; OKANO, Yasushi; TSUTSUMI, Takashi; KAWASAKI, Tsuneomi; SOAI, Kenso
- 2G2-11** Structure of Asymmetric Autocatalyst Based on X-ray Single Crystal Structure Analysis (Tokyo Univ. of Science) TOBITA, Takayuki; KAWASAKI, Tsuneomi; SOAI, Kenso
- 2G2-12** Catalytic Asymmetric Arylation of Aldehydes by using Functionalized Grignard Reagents (Kyoto Institute of Technology) KANEHIRA, Shin-ichi; MURAMATSU, Yusuke; HARADA, Toshiro
- 2G2-13** Catalytic Asymmetric Addition of Grignard Reagents in the Presence of Titanium Tetraisopropoxide: Nature of Reactive Titanium Species (Kyoto Institute of Technology) MURAMATSU, Yusuke; HARADA, Toshiro

Chair: HATANANO, Manabu (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(2G2-15, 2G2-16, 2G2-17, 2G2-18, 2G2-20)
- 2G2-15** Novel *N,N,P*-tridentate Ligands for the Highly Enantioselective Copper-catalyzed 1,4-Addition of Dialkylzincs to Enones (Graduate School of Science, Kobe Univ.) KAWAMURA, Kenjiro; HAYASHI, Masahiko
- 2G2-16** Development of Catalytic Asymmetric Alkylation of α -ketoester Using Heterochiral Rhodium Complexes (Graduate School of Engineering Science, Osaka Univ., Graduate School of Engineering, Nagoya Univ.) YONEZAWA, Takayuki; KAKINUMA, Takahiro; MURAKAMI, Hajime; KAWABATA, Takahito; IWASAKI, Takanori; OHSHIMA, Takashi; MASHIMA, Kazushi; NISHIYAMA, Hisao

- 2G2-17** Asymmetric Autocatalysis Induced by Chiral Organic Crystal Formed from Achiral Tetraphenylethylenes (Tokyo Univ. of Science) KAITO, Nobuhiro; NAKAODA, Mai; SASAGAWA, Taisuke; KAWASAKI, Tsuneomi; SOAI, Kenso
- 2G2-18*** Spontaneous Absolute Asymmetric Synthesis in the Presence of Achiral Substance in Conjunction with Asymmetric Autocatalysis (Tokyo Univ. of Science) SUZUKI, Kenta; KAMIMURA, Sayaka; HATASE, Kunihiko; NISHIYAMA, Daisuke; SHIMIZU, Masako; ISHIKAWA, Keisuke; KAWASAKI, Tsuneomi; SOAI, Kenso
- 2G2-20** Asymmetric Autocatalysis Induced by Isotactic Polystyrene Oligomer (Tokyo Univ. of Science) ARAKI, Yuko; HATASE, Kunihiko; KAWASAKI, Tsuneomi; OKUDA, Jun; SOAI, Kenso

Saturday, March 28, PM

Chair: SHIBATA, Takanori (13 : 30~14 : 40)

- * 13:20-13:30: interval for laptop PC connection.(2G2-28, 2G2-31, 2G2-32, 2G2-33, 2G2-34)
- 2G2-28** Young Scholar Lectures of CSJ Generation of Chirality in Crystallization of Achiral Compound and Highly Enantioselective Synthesis in Combination with Asymmetric Autocatalysis (Tokyo Univ. of Sci.) KAWASAKI, Tsuneomi
- 2G2-31** Catalytic Enantioselective Synthesis of Tertiary Alcohols with Grignard Reagents (Nagoya Univ.) MIZUNO, Tomokazu; HATANO, Manabu; ISHIHARA, Kazuaki
- 2G2-32** Highly Efficient Alkylation of Ketones and Aldehydes with Zinc(II) Catalysts and Grignard Reagents (RMgX: X = I, Br, Cl) (Nagoya Univ.) ITO, Ori; SUZUKI, Shinji; HATANO, Manabu; ISHIHARA, Kazuaki
- 2G2-33** Asymmetric Autocatalysis Induced by Chiral Crystal of Achiral Cytosine (2) (Tokyo Univ. of Science) MINEKI, Hiroko; SUZUKI, Kenta; HAKODA, Yuko; KAWASAKI, Tsuneomi; SOAI, Kenso
- 2G2-34** Reversal of Enantioselectivity Using Two Chiral Catalysts Possessing the Same Face-selectivity in Asymmetric Autocatalysis. (Tokyo Univ. of Science) WAKUSHIMA, Yuki; LUTZ, Francois; KINOSHITA, Tomoyuki; ASAHINA, Mai; KAWASAKI, Tsuneomi; SOAI, Kenso

Sunday, March 29, AM

Chair: IGAWA, Kazunobu (9 : 00 ~9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(3G2-01, 3G2-02, 3G2-03, 3G2-04, 3G2-05)
- 3G2-01** Oxazaborolidinone Catalyzed Asymmetric Friedel-Crafts Reaction of Furans with α, β -Unsaturated Ketones (Kyoto Institute of Technology) TANAKA, Fumi; ADACHI, Shinya; HARADA, Toshiro
- 3G2-02** Oxazaborolidinone Catalyzed Asymmetric Friedel-Crafts Reaction of Indoles with α, β -Unsaturated Ketones (Kyoto Institute of Technology) ADACHI, Shinya; WATANABE, Kazuya; HARADA, Toshiro
- 3G2-03** Ester-enolate Claisen Rearrangement of Pyroglutamic Acid-containing α -Acyloxy- α -Alkenylsilane (Graduate School of Sci., Osaka City Univ.) AMAO, Akihito; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi
- 3G2-04** Design of Chiral Supramolecular Catalysts for the Highly Enantioselective Diels-Alder Reaction (Nagoya Univ.) ASAI, Takafumi; AKAKURA, Matsujiro; HATANO, Manabu; ISHIHARA, Kazuaki
- 3G2-05** Highly Enantioselective Direct Mannich-type Reaction Catalyzed by Chiral Lithium Binaphtholate Complexes (Nagoya Univ.) HORIBE, Takahiro; HATANO, Manabu; ISHIHARA, Kazuaki

Chair: HATANO, Manabu (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(3G2-07, 3G2-09, 3G2-10, 3G2-11)
- 3G2-07*†** Catalytic Asymmetric Friedel-Crafts Reaction Using Imidazoline-Aminophenol-Cu Complex (Chiba Univ.) YOKOYAMA, Naota; WASAI, Makiko; ARAI, Takayoshi
- 3G2-09** Catalytic Asymmetric Synthesis of β -Carboline Alkaloids (Chiba Univ.) WASAI, Makiko; YOKOYAMA, Naota; ARAI, Takayoshi
- 3G2-10** Stereochemical Behavior of Nine-membered Alkenyl Ketone: Analysis and Control of Dynamic Planar Chirality Thereof (Inst. for Materials Chemistry and Engineering, Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.; Tokyo Inst. of Technology) EZAWA, Takayuki; INOUE, Hiroko; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3G2-11** Synthesis and Reaction of Planar Chiral Cyclic Dialkoxysilane (Inst. for Materials Chemistry and Engineering, Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.; Tokyo Inst. of Technology) MIYASAKA, Shoji; MOTOMURA, Shogo; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

Chair: MATSUBARA, Ryosuke (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(3G2-13, 3G2-15, 3G2-16, 3G2-17)
- 3G2-13*** Highly Enantioselective Diels-Alder Reaction Catalyzed by Cu(II)-Bis(oxazolines) Based on Non-covalent Bonding Interaction (Nagoya Univ.) KONDO, Rei; SAKAKURA, Akira; AKAKURA, Matsujiro; ISHIHARA, Kazuaki
- 3G2-15** Catalytic Enantioselective [3+2] Cycloaddition Reaction of Nitrones with Alkynes Based on Cation- π Interaction (Nagoya Univ.) HORI,

- Masahiro; FUSHIMI, Makoto; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 3G2-16** Enantioselective Diels-Alder Reaction of α -Acyloxyacroleins Catalyzed by Chiral Ammonium Salts (Nagoya Univ.) SUZUKI, Kenji; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 3G2-17** Asymmetric Diels-Alder Reaction Catalyzed by Chiral Silicon Lewis Acids (Osaka City Univ.) HATANAKA, Yasuo; IWANE, Yuhki; SAKAGUCHI, Yuhuke; MINAMI, Tatsuya

Sunday, March 29, PM

Chair: SAKAKURA, Akira (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(3G2-25, 3G2-26, 3G2-28, 3G2-29)
- 3G2-25** Asymmetric Strontium Catalysis for Enantioselective Direct-Type C-C Bond Formations (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) YAMAGUCHI, Miyuki; AGOSTINHO, Magno; SCHNEIDER, Uwe; KOBAYASHI, Shu
- 3G2-26*** Sulfonylimidate as a Novel Nucleophile (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) MATSUBARA, Ryosuke; BERTHOL, Florian; KAN, Jennifer; KOBAYASHI, Shu
- 3G2-28** Development of Catalytic Reactions Using Phosphonylimidates as Nucleophiles (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) MATSUBARA, Ryosuke; NAKANO, Junya; KOBAYASHI, Shu
- 3G2-29*†** Syn-Selective Catalytic Asymmetric Nitro-Mannich Reactions with A Heterobimetallic Schiff Base Complex (The Univ. of Tokyo, Pharmaceutical Sciences) HANDA, Shinya; MATSUNAGA, Shigeki; SHIBASAKI, Masakatsu

Chair: HASHIMOTO, Takuya (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(3G2-32, 3G2-34, 3G2-35, 3G2-36, 3G2-37)
- 3G2-32*** Engineering Water Molecule Directed toward Molecular Catalysts: Development and Mechanistic Studies of the Acid-Base Catalysis Involving Single Water Molecule (Grad. Sch. Sc. Nagoya Univ.) YOSHIMOTO, Junichi; NOYORI, Ryoji; SAITO, Susumu
- 3G2-34** Development of Acid-Base Conjugated Molecular Catalyst and Importance of Open Structure in Hydrogen Bond-promoted Catalysis (Grad. Sch. Sci., Nagoya Univ.) OISHI, Shunsuke; YOSHIMOTO, Junichi; NOYORI, Ryoji; SAITO, Susumu
- 3G2-35** Development of New Chiral Imidazolidine-pyridine and The Application in Catalytic Asymmetric Reactions (Chiba Univ.) SUZUKI, Kuniko; ARAI, Takayoshi
- 3G2-36** Bis(imidazoline)-Cu Catalyzed Asymmetric Benzoylation of diols (Chiba Univ.) MISHIRO, Asami; MIZUKAMI, Tomoe; YANAGISAWA, Akira; ARAI, Takayoshi
- 3G2-37** Diastereoselective Addition Reaction to the Iminium Salt Generated from α -Amino Ketene Silyl Acetal with Various Nucleophile. (Mie Univ.) KONDO, Koichi; SHIMIZU, Makoto

Chair: ARAI, Takayoshi (15 : 20~16 : 10)

- * 15:10-15:20: interval for laptop PC connection.(3G2-39, 3G2-40, 3G2-41, 3G2-42, 3G2-43)
- 3G2-39*** Catalytic Mannich-type Addition of Alkyl Amines Protected as Fluorenone Imines (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) CHEN, Yi-jing; SEKI, Kazutaka; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 3G2-40** Development of Asymmetric Mannich Reactions Using Fluorenone imine-protected Glycine derivatives (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) KAWARA, Shinshi; UKITA, Takashi; SEKI, Kazutaka; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 3G2-41** Development of Catalytic Asymmetric [3+2] Cycloaddition Reactions of α -Aminophosphonate Derivatives (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences The Univ. of Tokyo; ERATO, JST) TAKASHITA, Ryuta; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 3G2-42** anti-Selective Direct Catalytic Asymmetric Mannich-type Reaction of α -Ketoamide (Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo) XU, Yingjie; LU, Gang; MATSUNAGA, Shigeki; SHIBASAKI, Masakatsu
- 3G2-43** Development of *anti*-selective direct catalytic asymmetric Mannich-type reaction using trichloromethyl ketones as an ester equivalent donor (Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo) YOSHINO, Tatsuhiko; MORIMOTO, Hiroyuki; MATSUNAGA, Shigeki; SHIBASAKI, Masakatsu

Chair: SAITO, Susumu (16 : 20~17 : 20)

- * 16:10-16:20: interval for laptop PC connection.(3G2-45, 3G2-46, 3G2-47, 3G2-48, 3G2-49, 3G2-50)
- 3G2-45** Asymmetric 1,3-Dipolar Cycloaddition of Azomethine Imines (Department of Chemistry, Graduate School of Science, Kyoto Univ.)

MAEDA, Yuko; OMOTE, Masato; HASHIMOTO, Takuya; MARUOKA, Keiji

3G2-46 Phase-transfer catalyzed enantioselective α -alkylation of α -alkyl- α -silylethynyl esters (Department of Chemistry, Graduate School of Science, Kyoto Univ.) SAKATA, Kazuki; HASHIMOTO, Takuya; MARUOKA, Keiji

3G2-47 trans-Selective Asymmetric Aziridination of Diazoacetamides and N-Boc Imines Catalyzed by Axially Chiral Dicarboxylic Acid (Department of Chemistry, Graduate School of Science, Kyoto Univ.) HASHIMOTO, Takuya; UCHIYAMA, Nanase; MARUOKA, Keiji

3G2-48 Development of catalytic asymmetric reactions of nitroolefins using a novel chiral calcium catalyst (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

3G2-49[#] Development of Catalytic Asymmetric Mannich Reactions Using Chiral Alkaline Earth Metal Complexes (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) POISSON, Thomas; TSUBOGO, Tetsu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

3G2-50 Development of catalytic asymmetric 1,4-addition reactions of azlactones using novel chiral calcium complexes (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) TSUBOGO, Tetsu; IKEMOTO, Koki; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

Monday, March 30, AM

Chair: HATANO, Manabu (9:00 ~ 10:00)

* 8:50-9:00: interval for laptop PC connection.(4G2-01, 4G2-03, 4G2-05, 4G2-06)

4G2-01* Catalytic Atropo-Enantioselective Preparation of Axially Chiral Biary Compounds (Keio Univ.) ASHIZAWA, Tomoko; KIKUCHI, Satoshi; YAMADA, Tohru

4G2-03* Catalytic Atropo-Enantioselective Preparation of Axially Chiral Biary Compounds (II): Acceleration of Dynamic Kinetic Resolution by Microwave Irradiation (Keio Univ.) KIKUCHI, Satoshi; ASHIZAWA, Tomoko; YAMADA, Tohru

4G2-05 Enzyme-catalyzed enantioselective desymmetrization of a prochiral 3-O-protected pentane-1,3,5-triol derivatives by lipase from the yeast, *Cryptococcus* sp. S-2 (Department of Chemistry, Graduate School of Science, Hiroshima Univ.) NAKAMURA, Yoshihiro; HIRAGA, Yoshikazu; MASAKI, Kazuo; IEFUJI, Haruyuki; ABE, Manabu

4G2-06 Cobalt-catalyzed Oxidative Kinetic Resolution of Secondary Benzylic Alcohols with Molecular Oxygen (Keio Univ.) HIGANO, Sho; YANO, Takanori; YAMADA, Tohru

Chair: KIKUCHI, Satoshi (10:10 ~ 11:10)

* 10:00-10:10: interval for laptop PC connection.(4G2-08, 4G2-09, 4G2-10, 4G2-11, 4G2-12)

4G2-08 Lanthanum(III)-Catalyzed Highly Chemoselective Transesterification in the Presence of Competitive Amines (Nagoya Univ.) MORIYAMA, Katsuhiko; SHIMMURA, Takumi; HATANO, Manabu; ISHIHARA, Kazuaki

4G2-09 Enantioselective Strecker-type Reaction Catalyzed by Chiral Lanthanum(III)-Binaphthylidene Complexes (Nagoya Univ.) HATTORI, Yasushi; HATANO, Manabu; ISHIHARA, Kazuaki

4G2-10 Synthesis of Chiral 3,3'-Disubstituted-binaphthyl Disulfonic Acids (Nagoya Univ.) SUGIURA, Yoshihiro; HATANO, Manabu; ISHIHARA, Kazuaki

4G2-11 Asymmetric redox C-C bond formation between aldehydes and α -substituted diazoacetyl compounds (Department of Chemistry, Graduate School of Science, Kyoto Univ.) MIYAMOTO, Hisashi; NAGANAWA, Yuki; HASHIMOTO, Takuya; MARUOKA, Keiji

4G2-12* Stereoselective Construction of Seven-Membered Rings with an All-Carbon Quaternary Center by Direct Tiffeneau-Demjanov-type Ring Expansion (Department of Chemistry, Graduate School of Science, Kyoto Univ.) NAGANAWA, Yuki; HASHIMOTO, Takuya; MARUOKA, Keiji

Chair: HASHIMOTO, Takuya (11:20 ~ 12:20)

* 11:10-11:20: interval for laptop PC connection.(4G2-15, 4G2-16, 4G2-17, 4G2-18, 4G2-19, 4G2-20)

4G2-15[#] In(I)-Catalyzed Asymmetric Allylations of *N*-Acyldiazones (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) CHAKRABARTI, Ananya; KONISHI, Hideyuki; SCHNEIDER, Uwe; KOBAYASHI, Shu

4G2-16 Development of In(I)-Catalyzed Selective Allylations of Acetals and Ketals (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) SCHNEIDER, Uwe; DAO, Thanh Hai; KOBAYASHI, Shu

4G2-17[#] Direct Type C-C Bond Formation Using Non-Metallic Pro-Nucleophiles (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) FERRER-FLEGEAU, Emmanuel; SCHNEIDER, Uwe; KOBAYASHI, Shu

4G2-18 Asymmetric Alk-2-enylation of Aldehydes by Allyl-Transfer Reaction: Matching and Mismatching due to a Configuration of Substituent on Aldehyde (Faculty of Engineering, Okayama Univ. of Science) MATSUO, Yasuhiro; YAMADA, Mitsuhiko; MAEDA, Reina; KAWAASHIMA, Susumu; NOKAMI, Junzo

4G2-19 Metal Hydroxide-Catalyzed Highly Stereoselective Formal α -Addition-type Allylation Reactions of Aldehydes in Aqueous Media (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) ENDO, Toshimitsu; UENO, Masaharu; KOBAYASHI, Shu

4G2-20 The Effect of Catalysts in Formal α -Addition-type Allylation Reaction of Hydrazones 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

Monday, March 30, PM

Chair: UENO, Masaharu (13:30 ~ 14:20)

* 13:20-13:30: interval for laptop PC connection.(4G2-28, 4G2-29, 4G2-30, 4G2-31, 4G2-32)

4G2-28 Optical Resolution of δ -Hydroxyesters Derived from δ -Lactones and Application to Synthesis of Natural Product (The Univ. of Shiga Prefecture; Department of Materials Science; Tohoku Univ.; Tohoku Pharmaceutical Univ.) KUBO, Shinya; NISHIDA, Junya; MATSUMOTO, Takatoshi; TAKESHITA, Mitsuhiko; WATANABE, Masataka; INOUE, Yoshinori; KUMAGAI, Tsutomu

4G2-29 The Remote Recognition and Optical Resolution of Asymmetric Carbon with Aromatic Primary Alcohol (The Univ. of Shiga Prefecture; Department of Materials Science; Tohoku Univ.; Tohoku Pharmaceutical Univ.) MATSUMOTO, Akihisa; HIKITA, Yumiko; MATSUMOTO, Takatoshi; TAKESHITA, Mitsuhiko; WATANABE, Masataka; INOUE, Yoshinori; KUMAGAI, Tsutomu

4G2-30 Synthetic Study of Chiral 12-Hydroxy Stearic Acid Derivatives. (Graduate School of Science & Engineering, Yamagata Univ.) SATO, Kazuhiro; NAKAMICHI, Yutaro; TAKEDA, Norihumi; MURAKAMI, Satoshi; KIJIMA, Tatsuro; WATANABE, Masataka; IZUMI, Taeko

4G2-31 Asymmetric Synthesis of 3-Arylphthalides Using (*S,S*)-1,2-Bis(1-hydroxypropyl)benzene as Chiral Auxiliary (Yokohama National Univ.) ARAI, Tsubasa; MIYOSHI, Keita; TAKETOSHI, Ayako; HOSODA, Naoya; ASAMI, Masatoshi

4G2-32 Optical Resolution of *dl*-1, 2-Bis(1-hydroxyalkyl)benzenes and Their Application to Asymmetric Synthesis (Yokohama National Univ.) YAMADA, Kumiko; ZHONG, Lvling; HOSODA, Naoya; ASAMI, Masatoshi

Room G3

Bldg.10 1033

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Friday, March 27, AM

Chair: KOBAYASHI, Shoji (9:00 ~ 10:00)

* 8:50-9:00: interval for laptop PC connection.(1G3-01, 1G3-02, 1G3-03, 1G3-04, 1G3-05)

1G3-01 Iron-catalyzed Addition of Acrylic acid to Olefin. (National Institute of Advanced Industrial Science and Technology (AIST)) YAHAGI, Takeshi; NAKAGAWA, Kou; CHOI, Jun-chul; YASUDA, Hiroyuki; SAKAKURA, Toshiyasu

1G3-02 Wittig-lactonization of acyloins using Cu(II)-catalyzed transesterification as a key reaction (Interdis Eng Sci, Kyushu Univ; Inst Mater Chem Eng, Kyushu Univ) MATSUO, Kazumasa; SHINDO, Mitsuru

1G3-03 Chemical Fixation of Carbon Dioxide Catalyzed by Silver Complex(1) Synthesis of Oxazolidinone Derivatives from Propargylic Amines (Keio Univ.) FUKUI, Kosuke; YOSHIDA, Shunsuke; YAMADA, Tohru

1G3-04 Chemical Fixation of Carbon Dioxide Catalyzed by Silver Complex(2) Enantioselective Reaction with Bispropargylic Alcohols (Keio Univ.) YOSHIDA, Shunsuke; FUKUI, Kosuke; YAMADA, Tohru

1G3-05* Low-Oxidation Indium Catalysis for Selective Carbon-Carbon Bond Transformations (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) SCHNEIDER, Uwe; KOBAYASHI, Shu

Chair: SAKAKURA, Toshiyasu (10:10 ~ 11:10)

* 10:00-10:10: interval for laptop PC connection.(1G3-08, 1G3-09, 1G3-10, 1G3-11, 1G3-13)

1G3-08 New radical cyclization method involving elimination of hydrazyl radicals (Graduate School of Science, Osaka Prefecture Univ.) HIRAO, Hidefumi; KOBAYASHI, Shoji; RYU, Ilhyong

1G3-09 Radical Substitution Reaction of α , β -Unsaturated Acyl Radicals at

tertiary Amine Nitrogen (Graduate School of Science, Osaka Prefecture Univ.) TERASOMA, Nozomi; KOBAYASHI, Shoji; RYU, Ilhyong

- 1G3-10** Total synthesis of (+)-Communiol E using radical hydroxymethylation (Graduate school of science, Osaka Prefecture Univ.) KOBAYASHI, Shoji; KAWAMOTO, Takuji; RYU, Ilhyong
- 1G3-11*** A New Type of Oxidation-Reduction Condensation Using Phenyl Diphenylphosphinite (1)-Stereo-inversion of Tertiary Alcohols- (Tokyo Univ. of Science) KURODA, Kiichi; MARUYAMA, Yuji; HAYASHI, Yujiro; MUKAIYAMA, Teruaki
- 1G3-13** A New Type of Oxidation-Reduction Condensation Using Phenyl Diphenylphosphinite (2)-Stereo-inversion of Tertiary alcohols- (Tokyo Univ. of Science) MUKAIYAMA, Teruaki; KURODA, Kiichi; MARUYAMA, Yuji

Chair: SHINDO, Mitsuru (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(1G3-15, 1G3-16, 1G3-17, 1G3-18, 1G3-19, 1G3-20)
- 1G3-15** Synthesis of Novel Chiral 1,2-Diamines Derived from δ -Pinene (Graduate School of Science and Engineering Yamagata Univ.) YAMAGUCHI, Kasumi; KATAGIRI, Hiroshi; OHBA, Yoshihiro
- 1G3-16** Trimethoxyborane as an efficient iminium ion generator: Ugi-type reaction using secondary amines as an amine component (Kyoto Univ.) TANAKA, Yusuke; HIDAHA, Kousuke; SUGINOME, Michinori
- 1G3-17** Formation of α -hydroxyketones via irregular Wittig reaction (Faculty of Science and Technology, Keio Univ.) OKADA, Hideki; MORI, Tomonori; SAIKAWA, Yoko; NAKATA, Masaya
- 1G3-18** Highly stereocomplementary method for the preparation of α, β -unsaturated esters utilizing enol tosylates (Kwansei Gakuin Univ.) UENO, Kanako; NAKATSUJI, Hidefumi; TANABE, Yoo
- 1G3-19** Morita-Baylis-Hillman-type C-acylation utilizing $TiCl_4$ -amine reagent (Kwansei Gakuin Univ.) HOZUMI, Kenji; IIDA, Yuuki; NAGASE, Ryohei; TANABE, Yoo
- 1G3-20** Synthesis of the seed germination stimulant 3-methyl-2H-furo[2,3c]pyran-2-ones utilizing direct and regioselective Ti-crossed aldol addition (Kwansei Gakuin Univ.) MURA, Hiroaki; KATAYAMA, Mayumi; MITARAI, Kumi; NAGASE, Ryohei; MATSUO, Noritada; TANABE, Yoo

Organic Chemistry -Reaction and Synthesis-High-Throughput Synthesis

Friday, March 27, PM

Chair: FUKUYAMA, Takahide (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(1G3-28, 1G3-29, 1G3-30, 1G3-32, 1G3-33)
- 1G3-28** Development of the highly efficient synthetic method for the resorcylic acid lactones based on the three component coupling (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; SUGIYAMA, Sakae; TAKAHASHI, Takashi
- 1G3-29** Construction of synthetic route of α -imino-carboxamides toward library synthesis (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) HUSE, Shinichiro; MASUI, Hisashi; TAKAHASHI, Takashi
- 1G3-30*** Withdrawn
- 1G3-32** Controlled Rapid Acid Chlorination and Amidation Using a Microreactor (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) HUSE, Shinichiro; TANABE, Nobutake; TAKAHASHI, Takashi
- 1G3-33** Synthesis of A Epicatechin Library Based on Combinatorial Chemistry and Lab-Automation (Graduate School of Science and Engineering, Tokyo Institute of Technology) TANAKA, Hiroshi; YAMANOUCHI, Maasa; MIYOSHI, Haruko; TAKAHASHI, Takashi

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

- * 14:30-14:40: interval for laptop PC connection.(1G3-35, 1G3-36, 1G3-37, 1G3-38, 1G3-40)
- 1G3-35** Development of Main-Chain Borate Polymer-Supported Copper Catalysts via Molecular Convolution (RIKEN) OHTA, Hidetoshi; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro
- 1G3-36** Development of Polymeric Phosphotungstate Catalysts via Ionic Molecular Convolution and Their Application to Oxidation Reactions (RIKEN) JIN, Chungkeun; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro
- 1G3-37** Catalytic Membrane-Installed Microchannel Devices for Instantaneous Carbon-Carbon Bond Forming Reactions (RIKEN) WATANABE, Toshihiro; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro
- 1G3-38*** New Immobilization method of chiral quaternary ammonium salt to polymer support (Department of Materials Science, Toyohashi Univ. of Technology) ITSUNO, Shinichi; ARAKAWA, Yukihiko; OHISHI, Azusa; HARAGUCHI, Naoki
- 1G3-40** Catalytic Allylic Substitution with Indole in Water Catalyzed by an Amphiphilic Resin-Supported Palladium Complex (Univ. of the Ryukyus) SUZUKA, Toshiyama; NAGATOMI, Yurie; UOZUMI, Yasuhiro

Chair: FUSE, Shinichiro (15:50~16:50)

- * 15:40-15:50: interval for laptop PC connection.(1G3-42, 1G3-43, 1G3-44, 1G3-45, 1G3-46, 1G3-47)
- 1G3-42** Palladium-catalyzed Cross-Coupling Reaction of Vinyl Halides with Aryllithiums Using Microflow System (Kyoto Univ.) NAGAKI, Aiichiro; TAKABAYASHI, Naofumi; YOSHIDA, Jun-ichi
- 1G3-43** Synthesis of Unsymmetrical Substituted Biaryls via Sequential Lithiation of Dibromobiaryls Using Integrated Microflow Systems (Kyoto Univ.) NAGAKI, Aiichiro; TAKABAYASHI, Naofumi; TOMIDA, Yutaka; YOSHIDA, Jun-ichi
- 1G3-44** Carbolithiation of Conjugated-enynes with Aryllithiums using Microflow System (Kyoto Univ.) TOMIDA, Yutaka; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 1G3-45** Multi-Ten Gram Scale Synthesis of Matrix Metalloprotease Inhibitor's Precursor by a Catalyst Recycling Microflow System (Osaka Pref. Univ.) FUKUYAMA, Takahide; RAHMAN, Md. Taifur; RYU, Ilhyong
- 1G3-46** Deprotonation of Substituted Styrene Oxides using Microflow System (Kyoto Univ.; Nihon Nohyaku Co.,Ltd.) TAKIZAWA, Eiji; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 1G3-47** Halogen-Lithium Exchange Reactions of Iodobenzenes Bearing a Nitro Group Using Microflow System (Kyoto Univ.) KIM, Heejin; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

Chair: YAMADA, Yoichi M. A. (17:00~17:50)

- * 16:50-17:00: interval for laptop PC connection.(1G3-49, 1G3-50, 1G3-51, 1G3-52, 1G3-53)
- 1G3-49** Fast Sonogashira Coupling Reactions in a Microwave-Assisted Continuous Microflow System (Osaka Pref. Univ.) FUKUDA, Yoji; YOSWATHANANONT, Nungruethai; SATO, Masaaki
- 1G3-50** Microwave irradiation heating for organic reactions in a cylindrical waveguide (AIST) SUGIYAMA, Jun-ichi; OKAMOTO, Tadashi; YASUDA, Masahiro
- 1G3-51** Rapid oligosaccharide Synthesis using novel benzyl type heavy fluorine tag (Lab. of Glyco-organic Chemistry; The Noguchi Institute) MIZUNO, Mamoru; GOTO, Kohtarō
- 1G3-52** Hydroxyapatite-supported palladium-catalyzed Suzuki-Miyaura cross-coupling reactions (Sophia Univ.) SUGIOKA, Yutaka; CHONAN, Shiori; MASUYAMA, Yoshiro
- 1G3-53** Dehydrative Condensation Reactions in Water Using Microwave Heating (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) SATO, Takehiro; AKIYAMA, Ryo; KOBAYASHI, Shu

Organic Chemistry -Reaction and Synthesis-Aliphatic and Alicyclic Compounds

Saturday, March 28, AM

Chair: FUSE, Shinichiro (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** Efficient Method for the Preparation of Isobenzofurans from Phthalide Derivatives (Okayama Univ. Graduate School of Natural Science and Technology) KUDOH, Takayuki; SAITO, Seiki
- 2G3-02** π -facial selectivity in the Diels-Alder reactions of 5-heteroaryl-substituted cyclopentadiene derivatives (Faculty of Engineering, Gifu Univ.) ITO, Toru; ISHIDA, Masaru
- 2G3-03** Stereoselective synthesis of polysubstituted bicyclic lactones using intramolecular Diels-Alder reaction and functional conversion. (Graduate School of Environment and Information Sciences and Graduate School of Engineering, Yokohama National Univ.) INOUE, Seiichi; KOYANAGI, Takashi; MATSUURA, Shinji; HOSHINO, Yuujiro; HONDA, Kiyoshi
- 2G3-04** Synthesis of donor-acceptor-substituted conjugated diene and their reactivities (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) MOCHIZUKI, Yuta; YOSHINARI, Tomohiro; OHMORI, Ken; SUZUKI, Keisuke
- 2G3-05** Synthesis of multifunctionalized six-substituted benzene derivatives (Department of Chemistry, Tokyo Institute of Technology) SEO, Hana; SHONO, Tomohiro; OHMORI, Ken; SUZUKI, Keisuke
- 2G3-06** Studies on the synthesis of the dermocanarins (Department of Chemistry, Tokyo Institute of Technology; SORST) YAMAGUCHI, Satoru; TAKAHASHI, Nobuyuki; SUZUKI, Keisuke; MATSUMOTO, Takashi

Chair: OKAUCHI, Tatsuo (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(2G3-08, 2G3-09, 2G3-10, 2G3-11, 2G3-12, 2G3-13)
- 2G3-08** Synthesis of Cyclopropane and Cyclobutane Derivatives from Ketones and γ -Alkoxy- β, γ -Unsaturated Nitriles (Hokkaido Univ.) IKEDA, Shinichi; NAKAGAWA, Daisuke; TANINO, Keiji
- 2G3-09** Formation of 1,3-Diketones within Polycyclic Structures via Isoxazole Derivatives (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) HIKITA, Katsuyoshi; TAKIKAWA, Hiroshi; AKIOMI, Takada; SUZUKI, Keisuke
- 2G3-10** Total synthetic study of antibiotic BE-43472B by using benzoin

cyclization (Graduate School of Science and Technology, Tokyo Institute of Technology;SORST) YAMASHITA, Yu; TAKADA, Akiomi; TAKIKAWA, Hiroshi; SUZUKI, Keisuke

- 2G3-11** Synthetic study of polycyclic natural product, seragakinone A, by using enantioselective benzoin cyclization (Graduate School of Science and Technology, Tokyo Institute of Technology; SORST) TAKADA, Akiomi; HIKITA, Katsuyoshi; SUZUKI, Keisuke
- 2G3-12** Efficient Synthesis of Rare Sugar D-allal by Diastereoselective Reduction of Protected 1-En-3-uloses (Graduate School of Science, Kobe Univ.) FUJIWARA, Takashi; HAYASHI, Masahiko
- 2G3-13** Synthesis of asymmetric ketones labeled at a-position with ¹³C (Waseda Univ. School of/ Graduate School of Advanced Science and Engineering) UMEZAWA, Kazuhito; OKIYAMA, Haruhiko; MATSUZAKA, Teruki; SHIMIZU, Isao

Chair: MORI, Keiji (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2G3-15, 2G3-16, 2G3-17, 2G3-18, 2G3-19, 2G3-20)
- 2G3-15** Short Process Synthesis of Ascofuranone (Tottori Univ.) TAMURA, Sayuri; TAKAHASHI, Yuki; ANBIRU, Yoshihide; HAGA, Yasushi; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 2G3-16** Synthesis of Universally Labeled C6-Aliphatic Compound with Stable Carbon Isotope from ¹³C Labeled Carbon Dioxide (Waseda Univ.) SHIMIZU, Yusuke; SHIMIZU, Isao
- 2G3-17** Synthesis of Fluorescence-Labeled Estradiol (Waseda Univ. Graduate School of Advanced Science and Engineering) IKEUCHI, Hiroshi; NAGAE, Yusuke; SHIMIZU, Isao
- 2G3-18** Synthesis of 7α-Hydroxypregnenolone from cholic acid (Waseda Univ. School of/ Graduate School of Advanced Science and Engineering) MITOBE, Hirokazu; NAGAE, Yusuke; SHIMIZU, Isao
- 2G3-19** Synthetic Study of Pyripropene A via Radical Cyclization (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; KARASAWA, Tomoya; DOI, Takayuki; TAKAHASHI, Takashi
- 2G3-20** Synthesis of 9-membered enediyne compound containing DNA sequence recognition moiety. (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology.) TANAKA, Yoshikazu; FUSE, Shinichiro; TANAKA, Hiroshi; DOI, Takayuki; TAKAHASHI, Takashi

Saturday, March 28, PM

Chair: ANDO, Yoshio (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2G3-28, 2G3-29, 2G3-30, 2G3-31, 2G3-32, 2G3-33)
- 2G3-28** Synthesis of five-membered ring compound using Nazarov oxyallyl cation intermediate (Kyusyu Institute of Tecnology, Faculty of Engineering) INOUE, Hidetoshi; OKAUCHI, Tatsuo
- 2G3-29** TfOH-Catalyzed Synthesis of Highly Substituted Cyclopentenones via the Alkyne-Carbonyl Cyclization (Graduate School of Science, Tohoku Univ.) JIN, Tienan; YANG, Fan; YAMAMOTO, Yoshinori
- 2G3-30** TfOH-Catalyzed Synthesis of Spirocycles via the Acetylene-Cation Cyclization (Graduate School of Science, Tohoku Univ.) JIN, Tienan; HIMURO, Masafumi; YAMAMOTO, Yoshinori
- 2G3-31** Acid-Catalyzed Intramolecular Cyclization Reaction of α-Hydroxy-α-alkenylsilanes (Graduate School of Sci., Osaka City Univ.) AKAGI, Wataru; HIGASHINO, Masato; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi
- 2G3-32** Synthetic studies of cyclic compounds by tandem reactions including ring-closing metathesis (Department of Chemistry, Graduate School of Science, Hiroshima Univ.) YAMAMOTO, Koumei; TANAKA, Kenji; TAKAGI, Ryukichi; OHKATA, Katsuo; ABE, Manabu
- 2G3-33** Dual Functionalization of Allene Induced Easy Construction of Polycyclic Skeleton (Faculty of Science, Gakushuin Univ.) SUEOKA, Shosaku; MORI, Keiji; AKIYAMA, Takahiko

Sunday, March 29, AM

Chair: ISHITANI, Haruro (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3G3-01, 3G3-02, 3G3-03, 3G3-04, 3G3-05)
- 3G3-01** Aerobic oxidative potential transfer system using immobilized platinum nanocluster catalysts (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) MIYAMURA, Hiroyuki; MATSUBARA, Ryosuke; KOBAYASHI, Shu
- 3G3-02** Study of oxidation of 2-butanol to 2-butanone using immobilized bimetallic nanocluster catalyst (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) LEE, Kayoung; MIYAMURA, Hiroyuki; MATSUBARA, Ryosuke; KOBAYASHI, Shu
- 3G3-03** Synthesis of Homoallyl Alcohol Derivatives Catalyzed by Ordered Mesoporous Aluminosilicate (Yokohama Natl. Univ.) ITO, Suguru; HAYASHI, Akira; KUBOTA, Yoshihiro; ASAMI, Masatoshi
- 3G3-04** Development of Polymer Incarcerated Lewis Acid Catalyst for

Carbon-Carbon Bond-forming Reactions in Water (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences; The Univ. of Tokyo; ERATO, JST) OKAJIMA, Yuki; AKIYAMA, Ryo; KOBAYASHI, Shu

- 3G3-05** Development of Polymer-Supported Osmium Catalysts (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences; The Univ. of Tokyo; ERATO, JST) AKIYAMA, Ryo; TSUCHIYA, Yasunori; OYAMADA, Hidekazu; KOBAYASHI, Shu

Chair: IRIE, Ryo (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3G3-08, 3G3-09, 3G3-10, 3G3-12, 3G3-13)
- 3G3-08** Reactions of Diazo Compounds and α,β-Unsaturated Carbonyl Compounds on Cooper-plated Mesoporous Silica Catalyst (Chemical Resources Laboratory, Tokyo Institute of Technology) MOCHIGASE, Hidenobu; ISHITANI, Haruro; IWAMOTO, Masakazu
- 3G3-09** A remarkable deviation from Anderson-Schultz-Flory distribution on Fischer-Tropsch synthesis over coprecipitated Co3O4-based catalysts (Dept. Chem. Kyushu Univ.) LIU, Xiaohao; TOKUNAGA, Makoto
- 3G3-10** Hypervalent Iodine(V)-Catalyzed Highly Efficient Oxidation of Alcohols and Its Reaction Mechanism (Nagoya Univ.) UYANIK, Muhammet; AKAKURA, Matsujiro; ISHIHARA, Kazuaki
- 3G3-12** Chiral Hypervalent Iodine-Catalyzed Oxidative Oxylactonization of Ketocarboxylic Acids with Hydrogen Peroxide (Nagoya Univ.) YASUI, Takeshi; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3G3-13** Chiral Hypervalent Iodine-Catalyzed Enantioselective Oxidative Cycloetherification of Ketophenols with Hydrogen Peroxide (Nagoya Univ.) OKAMOTO, Hiroaki; YASUI, Takeshi; UYANIK, Muhammet; ISHIHARA, Kazuaki

Chair: UENO, Masaharu (11 : 20~11 : 50)

- * 11:10-11:20: interval for laptop PC connection.(3G3-15, 3G3-16, 3G3-17)
- 3G3-15** Development of Direct Amination of Allylic Alcohols Using Efficient Platinum Catalyst (Department of Chemistry, Graduate School of Engineering Science, Osaka Univ.) MIYAMOTO, Yoshiki; OHSHIMA, Takashi; MASHIMA, Kazushi
- 3G3-16** Development of Gold Complex Catalyzed Direct Substitution of Hydroxyl Groups with Nitrogen Nucleophiles (Graduate School of Engineering Science, Osaka Univ.) NAKAHARA, Yasuhiro; MIYAMOTO, Yoshiki; IPPOSHI, Junji; OHSHIMA, Takashi; MASHIMA, Kazushi
- 3G3-17** Development of Lewis Acid-Catalyzed Direct Substitution of Hydroxyl Groups with Nitrogen Nucleophiles (Graduate School of Engineering Science, Osaka Univ.) IPPOSHI, Junji; NAKAHARA, Yasuhiro; OHSHIMA, Takashi; MASHIMA, Kazushi

Sunday, March 29, PM

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

- * 12:50-13:00: interval for laptop PC connection.(3G3-25, 3G3-26, 3G3-27, 3G3-28, 3G3-29, 3G3-30)
- 3G3-25** Oxidation of Alcohols with Molecular Oxygen Using Gold-Immobilized Microcapillary Reactor (Graduate School of Science, The Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo; ERATO, JST) MATSUYAMA, Yuka; WANG, Naiwei; MATSUMOTO, Tsutomu; UENO, Masaharu; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 3G3-26** Development of oxidation reaction system using nanoclusters immobilized on oxidative-resistant polystyrene-based polymers (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) MIYAMURA, Hiroyuki; MAEHATA, Kanako; MATSUBARA, Ryosuke; KOBAYASHI, Shu
- 3G3-27** Aerobic Oxidation of Aminophenol Derivatives Catalyzed by Polymer-Incarcerated Metal Nanocluster (Graduate School of Science, the Univ. of Tokyo; Graduate School of Pharmaceutical Sciences, the Univ. of Tokyo; ERATO, JST) MIYAMURA, Hiroyuki; KAIZUKA, Kosuke; SHIRAMIZU, Mika; MATSUBARA, Ryosuke; KOBAYASHI, Shu
- 3G3-28** Radical addition to 1-alkynyl sulfides (Graduate School of Engineering, Kyoto Univ.) IMOTO, Junichi; SATO, Akinori; YORIMITSU, Hideki; OSHIMA, Koichiro
- 3G3-29** Radical addition to ethynylboron compounds (Graduate School of Engineering, Kyoto Univ.) WADA, Tatsuya; SUMIDA, Yuto; YORIMITSU, Hideki; OSHIMA, Koichiro
- 3G3-30** Radical addition of S-diphenylthiophosphinyl O-ethyl dithiocarbamate to arylacetylenes (Graduate School of Engineering, Kyoto Univ.) SATO, Akinori; YORIMITSU, Hideki; OSHIMA, Koichiro

Chair: IMADA, Yasushi (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(3G3-32, 3G3-34, 3G3-35, 3G3-36, 3G3-37)
- 3G3-32** Development of Practical O-Acetylation and Deacetylation Catalyzed by a Tetranuclear Zinc Cluster (Graduate School of Engineering Science, Osaka Univ.) IWASAKI, Takanori; MAEGAWA, Yusuke; OHSHIMA, Takashi; MASHIMA, Kazushi
- 3G3-34** Effects of amine additives on transesterification reaction catalyzed by tetranuclear zinc cluster (Graduate School of Engineering Science, Osaka

- Univ.) MAEGAWA, Yusuke; IWASAKI, Takanori; HAYASHI, Yukiko; OHSHIMA, Takashi; MASHIMA, Kazushi
- 3G3-35** Ligand effects of tetranuclear zinc cluster (Graduate School of Engineering Science, Osaka Univ.) HAYASHI, Yukiko; IWASAKI, Takanori; MAEGAWA, Yusuke; OHSHIMA, Takashi; MASHIMA, Kazushi
- 3G3-36** Iron(III)-catalyzed Ring-Opening Reaction of 2,5-Dihydrofurans for Convenient and Efficient Synthesis of 1,3-Cyclohexadiene Derivatives (Kumamoto Univ.) YANO, Tomotsugu; FUJISHIMA, Takashi; IRIE, Ryo
- 3G3-37** Synthesis of New Cross-conjugated Cyclohexadienone Derivatives as Useful Synthetic Intermediates (Kumamoto Univ.) FUJISHIMA, Takashi; YANO, Tomotsugu; IRIE, Ryo

Chair: HACHIYA, Iwao (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(3G3-39, 3G3-40, 3G3-41, 3G3-42, 3G3-43, 3G3-44)
- 3G3-39** Aerobic Hydrogenation of Olefins Catalyzed by Flavin-Functionalized Gold Nanoparticles (Graduate School of Engineering Science, Osaka Univ.) IMADA, Yasushi; NOGUCHI, Mikiko; OSAKI, Motonari; IIDA, Hiroki; NAOTA, Takeshi
- 3G3-40** Ruthenium-Catalyzed Chemoselective Aerobic Oxidation of Primary Alcohols to Aldehydes (Kyushu Univ.) MIZOGUCHI, Hirota; UCHIDA, Tatsuya; ISHIDA, Kohichi; KATSUKI, Tsutomu
- 3G3-41** Ozone Oxidation of Alkenylsilane: Study of Substituent Effect (Inst. for Materials Chemistry and Engineering, Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.;Tokyo Inst. of Technology) KAWASAKI, Yuuya; SAKITA, Kyohei; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3G3-42** Ozone Oxidation of Alkenylsilane: Efficient Approach for Carboxylsilane Ester (Inst. for Materials Chemistry and Engineering, Kyushu Univ.; Tokyo Inst. of Technology) IGAWA, Kazunobu; KOKAN, Naoto; TOMOOKA, Katsuhiko
- 3G3-43** Stereoselective Synthesis of β -Silyl Ketones Using Nucleophilic Addition to α,β -Unsaturated Acylsilanes (Graduate School of Natural Science and Technology, Kanazawa Univ.) FUJITA, Takatsugu; SUMIGAWA, Takumi; HONDA, Mitsunori; SEGI, Masahito
- 3G3-44** Regioselective Synthesis of Silyl Enol Ethers Using the Reaction of Acylsilanes with α -Sulfinyl Carbanions (Graduate School of Natural Science and Technology, Kanazawa Univ.) YAMAGUCHI, Keita; NAKAJIMA, Tadashi; HONDA, Mitsunori; SEGI, Masahito

Chair: IGAWA, Kazunobu (16 : 30~17 : 20)

- * 16:20-16:30: interval for laptop PC connection.(3G3-46, 3G3-47, 3G3-48, 3G3-49, 3G3-50)
- 3G3-46** Titanium Tetraiodide Promoted Reductive Enolate Formation of α -Alkoxyketone Derivatives and Its Aldol Reaction (Mie Univ.) INAGAKI, Takao; HACHIYA, Iwao; SHIMIZU, Makoto
- 3G3-47** Reductive Aldol Reaction of Azetidin-3-one Promoted by Titanium Tetraiodide (Mie Univ.) HATA, Shingo; FUKUDA, Daisuke; HACHIYA, Iwao; SHIMIZU, Makoto
- 3G3-48** Gallium Chloride Promoted Ring Expansion Reaction of Azetidin-3-one (Mie Univ.) HATA, Shingo; HACHIYA, Iwao; SHIMIZU, Makoto
- 3G3-49** Ring-opening and Ring-enlargement Reaction of 1-Phenylselenocyclopropylmethanols with Acid-catalyst (Graduate School of Natural Science and Technology, Kanazawa Univ.) NISHII, Yuko; NISHIZAWA, Toshiaki; HONDA, Mitsunori; SEGI, Masahito
- 3G3-50** Nickel-Catalyzed Multicomponent Coupling Reaction Using Ynones (Chiba Univ.) IKEMATSU, Yui; ARAI, Takayoshi

Chair: ARAI, Takayoshi (17 : 30~18 : 00)

- * 17:20-17:30: interval for laptop PC connection.(3G3-52, 3G3-53, 3G3-54)
- 3G3-52** N-Alkylation/Friedel-Crafts Reaction Using an Umpolung of α -Imino Esters (Mie Univ.) YOSHITOMI, Takuya; SHIMIZU, Makoto
- 3G3-53** Study of the Reactivity of β,γ -Unsaturated Iminoester with Organometallic Reagents (Mie Univ.) MATSUDA, Yuri; SHIMIZU, Makoto
- 3G3-54** Synthesis of Indoline Derivatives by the Intramolecular Cyclization Using an Umpolung of α -Imino Ester. (Mie Univ.) UMEDA, Yuki; SHIMIZU, Makoto

Monday, March 30, AM

Chair: KURAHASHI, Takuya (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4G3-01, 4G3-02, 4G3-03, 4G3-04, 4G3-05)
- 4G3-01** Selective cyclopropanation of electron-deficient alkenes with active methylene dibromides. (Graduated School of Engineering, Nagoya Institute of Technology) KAWAI, Daisuke; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 4G3-02** Lewis acid-promoted Reactions of Ethene-tricarboxylates with gamma-CF₃-substituted Propargyl Alcohols (Nara Univ. of Education) YAMAZAKI, Shoko; YAMAMOTO, Yuki
- 4G3-03** Stereospecific synthesis of α,β -unsaturated ketones from (E)-1-chloro-3,3,3-trifluoropropene (Faculty of Engineering, Tokyo Univ. of Agriculture and Technology, Graduate School of Engineering, Tokyo Univ. Agri. Tech.) NAKA, Motoki; TAKASUKA(KAWASAKI), Tomoko; YAMAZAKI, Takashi

- 4G3-04** Intermolecular Ene Reaction of β -cyanoallenes (Graduate School of Engineering, Kyoto Univ.) UEDA, Keita; MIURA, Tomoya; MURAKAMI, Masahiro
- 4G3-05*** Highly Stereoselective Olefination of Carbonyl Compounds Using a Lewis Base Catalyst (Daichi Sankyo Co. Ltd.) MICHIDA, Makoto; TORIUMI, Takako; MUKAIYAMA, Teruaki

Chair: HACHIYA, Iwao (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** Double Michael Addition of Dithiol to α,β -Alkynyl Carbonyl Compounds by MS 4A/DMSO (Faculty of Science, Ibaraki Univ.) KAKINUMA, Tomoko; ORIYAMA, Takeshi
- 4G3-09** Synthesis of α -Hydroxyphosphonates from Carbonyl Compounds Promoted by MS 4A/DMSO (Faculty of Science, Ibaraki Univ.) KAWAMATA, Yoshiyuki; ORIYAMA, Takeshi
- 4G3-10** Microwave-Assisted Multicomponent Reactions of 2-Chloroketones and Enamines (Okayama Univ., Toyama National College of Technology) MA, Li-jian; LI, Xiaoxia; MEI, Zhen-wu; UEKAWA, Masahiko; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 4G3-11** Microwave-Assisted Indole Synthesis from Cyclohexane-1,3-diones and Its Application (Okayama Univ., Toyama National College of Technology) MA, Li-jian; KUSUYAMA, Tomoyo; LI, Xiaoxia; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 4G3-12** Michael Addition of Lactate and Its Polymer to Nitroolefins (Okayama Univ., Toyama National College of Technology) PENG, Wei; TAKEBAYASHI, Takeshi; DIEP, Nguyen Kim; OKIHARA, Takumi; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 4G3-13*** High Pressure Organic Chemistry. Aza-Michael Addition Reaction of Amide and Urea Substrates. (Kochi Univ., Faculty of Science) AZAD, Saleha; KOTSUKI, Hiroyshizo

Chair: MIURA, Tomoya (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4G3-15, 4G3-16, 4G3-18, 4G3-19, 4G3-20)
- 4G3-15** N-Alkylation of α -Imino Esters Followed by Nucleophilic Addition to Various Electrophiles (Mie Univ.) MIZOTA, Isao; SHIMIZU, Makoto
- 4G3-16*** SmI₂-promoted highly stereoselective Reformatsky-type reaction and acylation of alkyl 1-chlorocyclopropanecarboxylates (Shinshu Univ.) NAGANO, Takao; MOTOYOSHIIYA, Jiro; NISHII, Yoshinori
- 4G3-18** Reformatsky-type Reaction using the reagent from γ -acetoxy- α,β -unsaturated esters and organozinc species (Kyoto Univ.) UENO, Shizue; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 4G3-19** Tandem reaction via conjugate addition using gem-organodiazine (Kyoto Univ.) SADA, Mutsumi; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 4G3-20** A Highly Stereoselective Knoevenagel Reaction of *N*-Tosylimines with Active Methylene Compounds in DMSO (Faculty of Science, Ibaraki Univ.) CHIBA, Ryoichi; ORIYAMA, Takeshi

Monday, March 30, PM

Chair: KURAHASHI, Takuya (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4G3-28, 4G3-29, 4G3-30, 4G3-31, 4G3-32, 4G3-33)
- 4G3-28** Development of New Synthetic Route of 3,4-Ethylenedioxythiophene (EDOT) from 2,3-Butanedione (Mie Univ.) MATSUMOTO, Tomohiro; TAKAHASHI, Atsushi; HACHIYA, Iwao; SHIMIZU, Makoto
- 4G3-29** Study of a 1,4- and 1,2- Double Nucleophilic Addition Reaction Using *N*-Allylideneamine as a Latent Acrolein (Mie Univ.) MIZOTA, Isao; KAWANISHI, Mami; HACHIYA, Iwao; SHIMIZU, Makoto
- 4G3-30** Preparation of Sulfonyl Ketones via One-pot Sulfonylation and Hydration of 1-Halo-1-alkynes (Tokyo Institute of Technology) OKAZAKI, Jun; HATA, Takeshi; URABE, Hirokazu
- 4G3-31** Reactions of 2-Aryl-5,6-dihydro-2*H*-pyran Derivatives with Electrophile or Nucleophile (Tokyo Institute of Technology) HIDEHISHI, Taku; HATA, Takeshi; URABE, Hirokazu
- 4G3-32** Triflic anhydride-mediated reactions of ketene dithioacetal monoxides with silyl enolates (Graduate School of Engineering, Kyoto Univ.) KOBATAKE, Takayuki; YOSHIDA, Suguru; YORIMITSU, Hideki; OSHIMA, Koichiro
- 4G3-33** Extended Pummerer reactions of trifluoromethylketene dithioacetal monoxide with allylsilanes (Graduate School of Engineering, Kyoto Univ.) YOSHIDA, Suguru; YORIMITSU, Hideki; OSHIMA, Koichiro

Room G4

Bldg.10 1041

Organic Chemistry -Reaction and Synthesis-
Heterocyclic Compounds

Friday, March 27, AM

Chair: MINAKATA, Satoshi (9:30~10:30)

- * 9:20-9:30: interval for laptop PC connection.(1G4-04, 1G4-05, 1G4-06, 1G4-07, 1G4-08, 1G4-09)
- 1G4-04** Synthesis of 3-oxo- λ^5 -phospholes by an addition-cyclization of phosphinoacetates and alkynes. (Ehime Univ.) TSUJIMOTO, Hiroumi; NISHIMURA, Yasunobu; UMANO, Rika; WATANABE, Yutaka; HAYASHI, Minoru
- 1G4-05[†]** Synthesis of 2-substituted-3-oxo- λ^5 -benzophospholes by intramolecular cyclization via phosphorus ylides (Ehime Univ.) NISHIMURA, Yasunobu; SAKAI, Ami; UMANO, Rika; WATANABE, Yutaka; HAYASHI, Minoru
- 1G4-06** Synthesis of fulleropyrrolidine derivatives for organic solar cell (Tottori Univ.) MATSUMOTO, Kei; HASHIMOTO, Koji; HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki
- 1G4-07** Regioselective Oxidation of Pyrrole Derivatives with DDQ and Its Synthetic Application (Kanazawa Univ., Graduate School of Natural Science and Technology) IWAMOTO, Ryoji; KINOSHITA, Hideki; UKAJI, Yutaka; INOMATA, Katsuhiko
- 1G4-08** Phosphazene Base Catalyzed Construction of Multisubstituted Pyrroles (Tohoku Univ.; Nagoya Univ.) NAKA, Hiroshi; KOSEKI, Daiki; KONDO, Yoshinori
- 1G4-09** The Neighboring Effects of 1,2,3-Triazole for the Epoxide-Opening Reaction. (Hokkaido Univ.) NAMBA, Kosuke; TANINO, Keiji

Chair: KONDO, Yoshinori (10:40~11:40)

- * 10:30-10:40: interval for laptop PC connection.(1G4-11, 1G4-12, 1G4-13, 1G4-14, 1G4-15, 1G4-16)
- 1G4-11[†]** Regioselective Lithiation-Functionalization of *N*-Benzenesulfonyl-3-bromopyrrole: C-2 Selective Lithiation-Functionalization and Its Application to the Synthesis of Lamellarin Derivatives (Graduate School of Science and Technology, Nagasaki Univ.; Faculty of Engineering, Nagasaki Univ.) OHTA, Takeshi; FUKUDA, Tsutomu; IWAO, Masatomo
- 1G4-12** Regioselective Lithiation-Functionalization of *N*-Benzenesulfonyl-3-bromopyrrole: Optional Regioselective Lithiation-Functionalization Based on Dynamic Control (Graduate School of Science and Technology, Nagasaki Univ.; Faculty of Engineering, Nagasaki Univ.) FUKUDA, Tsutomu; OHTA, Takeshi; IWAO, Masatomo
- 1G4-13** Practical Synthesis of Polysubstituted Aminooxazole via Cycloaddition of Isocyanide with *N*-Acyl aminal (Graduate School of Science, Tohoku Univ.) MORIYA, Ken-ichi; SORIMACHI, Keiichi; TERADA, Masahiro
- 1G4-14** Friedel-Crafts-type Alkylation of Furans under Organocatalysis / High Pressure (Kochi Univ., Faculty of Science) MIMOTO, Akiko; NAKAMURA, Mutsumi; KOTSUKI, Hiyoishizo
- 1G4-15** Synthesis and Reactions of 3-(Alkylthio)furan derivatives (Hokkaido Univ.) SASE, Naoki; TAKAHASHI, Motomasa; TANINO, Keiji
- 1G4-16** Synthesis of Cyclic Carbonates by Atmospheric CO₂ Fixation to Unsaturated Alcohols Using *t*-BuOI: Expansion of Substrates and Consideration of Reaction Path (Osaka Univ.) MINAKATA, Satoshi; SASAKI, Itsuro; IDE, Toshihiro; HAYAKAWA, Junpei

Friday, March 27, PM

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

- * 12:50-13:00: interval for laptop PC connection.(1G4-25, 1G4-26, 1G4-27, 1G4-28, 1G4-29, 1G4-30)
- 1G4-25[†]** Single-step synthesis of polysubstituted pyridinederivatives by a three-component coupling reaction of an enamine, an acetal, and an alkyne (Tokyo Univ. of Science) KONAKAHARA, Takeo; SASADA, Toshiaki; SAKAI, Norio
- 1G4-26** A novel approach to the synthesis of *N*-vinylaminonitrile derivatives by a one-pot four-component coupling reaction and its application to the construction of a 1,4-dihydropyridine skeleton. (Tokyo Univ. of Science) KONAKAHARA, Takeo; YANAGIBASHI, Kenji; SASADA, Toshiaki; SAKAI, Norio
- 1G4-27** Synthetic Study of (-)-A58365B via an Asymmetric 2-Pyridone Synthesis by Conjugate Addition of β -Keto Ester to Chiral Alkynyl Imine as a Key Reaction (Mie Univ.) YAMADA, Yoshiyasu; HACHIYA, Iwao; SHIMIZU, Makoto
- 1G4-28** Oxidative Conversion of Functionalized 3,4-Dihydropyrimidines to the Corresponding Pyrimidines Using Activated Carbon-Molecular Oxygen System (Graduate School of Science, Kobe Univ.) OKUNAGA, Kenichi; NOMURA, Yukiko; HAYASHI, Masahiko
- 1G4-29** Effect of 6-aryl Groups on Aldose Reductase Inhibitory Activity of

- Botryllazine B Analogues (Toho Univ.) SAITO, Ryota; TOKITA, Mai; ISHIKAWA, Chikako; SATOH, Mitutoshi
- 1G4-30** Aldose reductase inhibitory effects of coelenteramide derivatives (Univ. of Toho) SAITO, Ryota; UDA, Keisuke; TOKITA, Mai; ISHIKAWA, Chikako; SATOH, Mitutoshi

Chair: OKADA, Etsuji (14:10~15:10)

- * 14:00-14:10: interval for laptop PC connection.(1G4-32, 1G4-33, 1G4-35, 1G4-36, 1G4-37)
- 1G4-32** Novel Synthesis of 1-Aminopyrazoles and 1,2,3-Triazines via Inter-molecular Cycloaddition of Azides (Tokyo Univ. of Science, Faculty of Science) IKEMATSU, Yusuke; KIKUCHI, Tomohiro; YAHIRO, Jun-ichi; OOTANI, Takashi; SAITO, Takao
- 1G4-33*** Facile synthesis of 4-substituted 3,5-dinitro-1,4-dihydropyridines and study on their structures and physical properties (Graduate School of Engineering Science, Osaka Univ.; Anan National College of Technology; Osaka Kyoiku Univ.) NAKAIKE, Yumi; NISHIWAKI, Nagatoshi; ARIGA, Masahiro; TOBE, Yoshito
- 1G4-35** High-Pressure Organic Chemistry. Thiourea-catalyzed Hetero Diels-Alder Reaction of Ketones (Kochi Univ.) MORI, Kaori; KOTSUKI, Hiyoishizo; MADDALUNO, Jacques
- 1G4-36** Studies on synthesis of fluorescent azaquinophenyls (Shimane university interdisciplinary faculty of science and engineering material science) SHIMOSHIMA, Yuko; TAKAHASHI, Kazufumi
- 1G4-37** Synthesis of Nitrogen-Containing Heterocycles via Tandem Cyclizations of Functionalized Carbodiimides (Tokyo Univ. of Science, Faculty of Science) SUZUKI, Risako; SAKAI, Terumi; HIROTA, Sinsuke; OTANI, Takashi; SAITO, Takao

Chair: SAITO, Ryota (15:20~16:20)

- * 15:10-15:20: interval for laptop PC connection.(1G4-39, 1G4-40, 1G4-41, 1G4-42, 1G4-43, 1G4-44)
- 1G4-39** Short-step Construction of Fused Pyridine Alkaloid Skeletons by Using Hetero Diels-Alder Reaction of Isotellurazoles (Faculty of Engineering, Iwate Univ.) SHIMADA, Kazuaki; OSAKI, Yu; TAKATA, Yukichi; OGAWA, Satoshi
- 1G4-40** Novel Synthesis of Carbolines and Quinolines through Hetero-Diels-Alder Reaction of Isotellurazoles (Faculty of Engineering, Iwate Univ.) SHIMADA, Kazuaki; TAKATA, Yukichi; OSAKI, Yu; OGAWA, Satoshi
- 1G4-41** Synthesis and fluorescence properties of 2-arylquinolines (Waseda Univ.) SUEKI, Shunsuke; OKAMOTO, Chiharu; SHIMIZU, Isao; SETO, Keisuke; FURUKAWA, Yukio
- 1G4-42** Zinc-catalyzed Reactions of Ethenetrioxylates with 2-(Trimethylsilylethynyl)anilines Leading to Bridged Quinoline Derivatives (Nara Univ. of Education) YAMAZAKI, Shoko; MIYAZAKI, Kazuya; TAKEBAYASHI, Masachika; YAMAMOTO, Yuko
- 1G4-43** Synthesis of 4-aryl-quinoline-2-thiones and 2-ones, indoline-2-thiones and 2-ones via tandem reaction of 2-alkynylphenyl heterocumulenes (Tokyo Univ. of Science, Faculty of Science) TAKAHASHI, Taku; KUNIMATSU, Shinichi; NIHEI, Hiroshi; OTANI, Takashi; SAITO, Takao
- 1G4-44** Synthesis of quinoline compounds from *o*-alkynylnitrobenzenes (Faculty of Science, Fukuoka Univ.) OZAKI, Saori; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro

Chair: SAKAI, Norio (16:30~17:30)

- * 16:20-16:30: interval for laptop PC connection.(1G4-46, 1G4-47, 1G4-48, 1G4-49, 1G4-50, 1G4-51)
- 1G4-46** Synthesis and Properties of Heterocycles via Rh-Catalyzed Intramolecular [2+2+2] Cycloaddition of Dialkynylcarbodiimide (Tokyo Univ. of Science, Faculty of Science) OSADA, Hiroyuki; FURUKAWA, Naoki; NIWA, Kentaro; SAKAMOTO, Ryota; OTANI, Takashi; SAITO, Takao
- 1G4-47** Novel Formation of the Dihydroquinoline Derivatives from 3-(Arylamino)acrylic Esters with an Acid (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; MORI, Takahiro; KIMURA, Masato; AKAZOME, Motohiro
- 1G4-48** Simple Synthesis of Novel Fluorine-Containing Pyrroloquinolines by N-N Exchange Reaction of *N,N*-Dimethyl-6,8-bis(trifluoroacetyl)-5-quinolylamine with Amino Acid Derivatives (Kobe Univ.) NOSE, Takayuki; FUKUDA, Yoshiyuki; SHIBATA, Dai; OKADA, Etsuji
- 1G4-49** A Facile Synthetic Method for Novel Fluorine-Containing 1,7-Phenanthrolines by the Condensation Reaction of 6,8-Bis(trifluoroacetyl)-5-quinolylamine with Ketones (Kobe Univ.) HINOSHITA, Mamoru; KOMORI, Takatsugu; SHIBATA, Dai; OKADA, Etsuji
- 1G4-50** A Convenient Synthetic Method for Novel 4-Trifluoromethyl-7-dimethylaminobenzo[*h*]quinolines (Kobe Univ.) SAIKAWA, Shohei; KOMORI, Takatsugu; ISHIKAWA, Hiroki; OKADA, Etsuji
- 1G4-51** Mn(III)-Based Oxidative Intramolecular Cyclization of 2-(*N*-Arylamino)ethylmalonates. Synthesis of Quinoline Derivatives (Dept. Chem., Grad. School Sci. & Tech., Kumamoto Univ.) NAGASHIMADA, Takayuki; NISHINO, Hiroshi

Saturday, March 28, AM

Chair: FUCHIBE, Kohei (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 Syntheses of allyl sulfenamoylbenzoate and analogous compounds (National Inst. Adv. Ind. Sci. & Tech.; Tokyo Univ. of Science) SHIMIZU, Masao; KOMAE, Kazutomo; ANDO, Wataru; KONAKAHARA, Takeo
2G4-02 A New Synthesis of 1,2-Benzisothiazolin-3-ones from 1,3-Benzoxathiin-4-ones (National Inst. Adv. Ind. Sci. & Tech.; Tokyo Univ. of Science) SHIMIZU, Masao; SHIMAZAKI, Teruaki; ANDO, Wataru; KONAKAHARA, Takeo
2G4-03 Novel synthesis of isoindole derivatives by using super critical carbon dioxide. (Faculty of Engineering, Utsunomiya Univ.) AKAKI, Masayuki; ITO, Satoshi; YAZIMA, Yumiko; SATO, Takafumi; ITOH, Naotsugu; OBA, Toru; HIRATANI, Kazuhisa
2G4-04 Total Syntheses of Sterically Locked 15Zs and 15Es Phycocyanobilin Derivatives Toward Investigation of the Relationship between Stereochemistry and Function of the Phytochrome Chromophore (Kanazawa Univ., Graduate School of Natural Science and Technology) KAMIYA, Ayumi; KINOSHITA, Hideki; UKAJI, Yutaka; INOMATA, Katsuhiko
2G4-05 Total Syntheses of Sterically Locked 15Za and 15Ea 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; NISHIDA, Chika; KINOSHITA, Hideki; UKAJI, Yutaka; INOMATA, Katsuhiko
2G4-06[#] Total Synthesis of Doubly Locked (5Zs,15Za)-Phycocyanobilin Derivatives (Kanazawa Univ., Graduate School of Natural Science and Technology) CHEN, Liyi; KINOSHITA, Hideki; UKAJI, Yutaka; INOMATA, Katsuhiko

Chair: INOMATA, Katsuhiko (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(2G4-08, 2G4-09, 2G4-10, 2G4-11, 2G4-12, 2G4-13)
2G4-08 Reactivities of pyrrole-fused-porphyrin dimer linked with diyne moiety (Saitama Univ., Graduate School of Science and Engineering) OHKOSHI, Takahiro; AKIMOTO, Kensaku; ISHIMARU, Yoshihiro
2G4-09 Synthesis and Properties of Linear and Cyclic Oligopyrroles Having Dipyrrolylene Units. (Kobe Univ.) SONODA, Makoto; WATANABE, Keigo; SETSUNE, Junnichirou
2G4-10 Trifluoromethanesulfonic acid-promoted cyclization with rearrangement of N-(2-alkynylphenyl)heterocumulenes. (Tokyo Univ. of Science, Faculty of Science) SONOKI, Yoshihiko; WATANABE, Shou; KUNIMATU, Shinichi; OTANI, Takashi; SAITO, Takao
2G4-11 Environmentally Benign Preparation of Benzosultams Using Catalytic Amount of IL-PhI (Chiba Univ.) ISHIWATA, Yoshihide; TOGO, Hideo
2G4-12 Preparation of benzosultams and tetrahydroquinolines from the reactions of sulfonamides with DIH (Chiba Univ.) FURUYAMA, Shusuke; TOGO, Hideo
2G4-13 Novel Preparation of Oxazolines with DIH (Chiba Univ.) TAKAHASHI, Shogo; TOGO, Hideo

Chair: KARIKOMI, Michinori (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(2G4-15, 2G4-16, 2G4-17, 2G4-18, 2G4-19, 2G4-20)
2G4-15 Iron salt-catalyzed Alkylation of Indole with microreactor (Tottori Univ.) MATSUI, Shin-ichiro; HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki
2G4-16 Iron Salt-catalyzed Alkylation of Indole with silyl group rearrangement (Tottori Univ.) KOBAYASHI, Jun-ka; HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki
2G4-17 Iron salt catalyzed Nazarov Cyclization / Michael Addition of Pyrrole derivatives (Tottori Univ.) FUJIWARA, Masamune; IBARA, Tie; HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki
2G4-18[†] Synthesis of 2-(3,1-benzothiazin-4-yl)acetic acid derivatives by reactions of 3-(2-isothiocyanatophenyl)acrylic acid derivatives with amines (Graduate School of Engineering, Tottori Univ.) FUKAMACHI, Shuhei; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
2G4-19 Synthesis of indoles by the reaction of zinc halide catalyzed-cyclization of 2-alkynylanilides (Faculty of Science, Fukuoka Univ.) SETO, Jun-ichi; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro
2G4-20 Synthesis of Isochromanes and Isothiochromanes Bearing Fluorinated One-Carbon Units via Intramolecular Cyclizations of 2-Trifluoromethyl-1-alkenes (Univ. of Tsukuba) IKEDA, Masahiro; HATTORI, Masahiro; ICHIKAWA, Junji

Saturday, March 28, PM

Chair: TOGO, Hideo (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(2G4-28, 2G4-29, 2G4-30, 2G4-31, 2G4-33)
2G4-28 Synthesis of 9-hydroxyxanthene by the coupling reaction of benzynes with salicylaldehydes (Faculty of Science, Fukuoka Univ.) MATSUNAGA, Nahoko; NOJIMA, Akiko; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro
2G4-29 Synthesis of 3,1-Benzoxazines via Palladium Catalyzed Regioselective Cyclization (Tokyo Univ. of Science, Faculty of Science) TAKEI, Naoya; OGAWA, Shohei; NIWA, Kentaro; OTANI, Takashi; SAITO, Takao

- 2G4-30** Phosphazene Base-Catalyzed Regio- and E/Z-selective Intramolecular Cyclization Reaction for Synthesis of Indane Derivatives. (Graduate School of Science, Tohoku Univ.) ITO, Akira; KANAZAWA, Chikashi; TERADA, Masahiro
2G4-31^{††} Phosphazene Base-Catalyzed Intramolecular Cyclization Reaction for Efficient Synthesis of Benzofuran via Carbon-Carbon Bond Formation (Graduate School of Science, Tohoku Univ.) KANAZAWA, Chikashi; TERADA, Masahiro
2G4-33[†] Phosphazene Base-Catalyzed Tandem Addition-Cyclization Reaction of *o*-Alkynylbenzaldehyde with Oxygen and Nitrogen Nucleophiles. (Graduate School of Science, Tohoku Univ.) KANAZAWA, Chikashi; ITO, Akira; TERADA, Masahiro

Sunday, March 29, AM

Chair: YAMADA, Shinji (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3G4-01, 3G4-02, 3G4-03, 3G4-05, 3G4-06)
3G4-01[†] Formation of aziridino[60]fullerene from C₆₀O and its thermal rearrangement reaction (RIKEN) NUMATA, Youhei; KAWASHIMA, Jun-ichi; TAJIMA, Yusuke
3G4-02 Silylation of heterocyclic compounds with silylamines by aromatic electrophilic substitution reaction (Graduate School of Environmental Studies, Tohoku Univ.) EGUSA, Naoki; ONOZAWA, Satoru; NEMOTO, Koji; MOROHASHI, Naoya; HATTORI, Tetsutaro
3G4-03^{*} Synthesis and Stability of Fluorinated Thalidomide Derivatives (Nagoya Institute of Technology) YAMAMOTO, Takeshi; TAKASHIMA, Masayuki; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
3G4-05 Studies on the Total Synthesis of Batzellaside B, a New Piperidine Alkaloid from Marine Sponge. (Shizuoka Univ.) OHSHIMA, Manami; SUZUKI, Takamasa; SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi
3G4-06 Studies on the Asymmetric Synthesis of New Pyrrolizidine Alkaloids, Hyacinthacine C₂ and C₃ (Shizuoka Univ.) SATOH, Yasutaka; SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi

Chair: KATOH, Akira (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(3G4-08, 3G4-09, 3G4-10, 3G4-11, 3G4-12, 3G4-13)
3G4-08 Design and Synthesis of Novel Biscinchona alkaloid Using Click Reaction. (Nagoya Institute of Technology, Graduate School of Engineering) YASUI, Hiroyuki; SUZUKI, Satoru; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
3G4-09 Development of New Synthetic Method for the α -Methylene Carbonyl Cyclic Compounds (Shizuoka Univ.) ATSUMI, Jun-ichi; SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi
3G4-10 Synthetic Studies of the Natural Polyketide (+)-Vittarilide A (Shizuoka Univ.) HAKAMATA, Yuki; SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi
3G4-11 Synthesis of 4-chloro-2-azetidinone through electrooxidative chlorination. (Graduate School of Natural Science and Technology, Okayama Univ.) TATEYAMA, Shouichi; YONEDA, Masahiro; KUROBOSHI, Manabu; TANAKA, Hideo
3G4-12 Synthetic study toward Platensimycin via tandem radical cyclization reaction (Yamaguchi Univ.) KAWAKAMI, Yusuke; KAMIMURA, Akio
3G4-13 Synthesis study toward Tamifu via Diels-Alder reaction to pyrrole (Yamaguchi Univ.) NAKANO, Toshiki; KAMIMURA, Akio

Chair: MOROHASHI, Naoya (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(3G4-15, 3G4-16, 3G4-17, 3G4-18, 3G4-19, 3G4-20)
3G4-15 Synthesis of New Quinoxaline Derivatives Bearing Aminobenzocrown Ether and Their Antiproliferative Activities (Faculty of Science and Technology, Seikei Univ.) KATOH, Akira; MASUDA, Yusuke; MATSUMURA, Yuriko; UCHIDA, Marie; HISATOMI, Hisashi
3G4-16 Synthesis of fluorescent 2,5-Bis(benzimidazol-2-yl)pyrazines and their fluorescent characteristics. (Faculty of Science and Technology, Seikei Univ.) MATSUMURA, Yuriko; OKAZAKI, Naoki; SAITO, Ryota; KATOH, Akira
3G4-17 Substituent effect on Tetrazolium Mesoionic Compounds (Graduated School of Engineering, Nagoya Institute of Technology) WATABE, Yuta; OHIZUMI, Shogo; HIRASHITA, Tunchisa; ARAKI, Shuki
3G4-18 Synthesis and properties of 5,15-disubstituted benzoporpyrins (Faculty of Engineering Utsunomiya Univ.) ITO, Takahiro; ITO, Satoshi; OBA, Toru; HIRATANI, Kazuhisa
3G4-19 VOC-induced Luminescence Switching of Phenylterpyridine-containing alkylphosphonate/Eu(III)/SiO₂ Composites (Tokyo Institute of Technology; Kanagawa Institute of Technology) MAKIOKA, Yoshikazu; TANIGUCHI, Yuki; KONDO, Masaki; TAKAMURA, Takeji
3G4-20 Synthesize and Computational chemistry of the ionic liquid having acetylacetonato anion. (The Nippon Synthetic Chemical Industry Co., Ltd) AOKI, Yasuhiro; HAYAKAWA, Seiichirou; MAEDA, Seiji; HORI, Mariko; TATSUMI, Ryouta

Sunday, March 29, PM

Chair: TAKAHASHI, Masaki (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(3G4-28, 3G4-29, 3G4-30, 3G4-31, 3G4-32, 3G4-33)
- 3G4-28** Synthesis of eight-membered cyclic ureas by the reaction of vinylazetidines with electron-deficient isocyanates. (Tokyo Univ. of Science) KOYA, Shunsuke; YAMANOI, Kenichi; YAMASAKI, Ryu; AZUMAYA, Isao; MASU, Hyuma; SAITO, Shinichi
- 3G4-29** Intramolecular hydroarylation of aryl-substituted alkynes catalyzed by cationic iron complex (Hiroshima Univ.) KOMEYAMA, Kimihiro; IGAWA, Ryoichi; TAKAKI, Ken
- 3G4-30** Alkynyl cyclopropanation of enynols using bismuth catalyst (Department of Chemistry and Chemical Engineering, Graduate School of Engineering) KOMEYAMA, Kimihiro; MIYAGI, Motoyoshi; TAKAKI, Ken
- 3G4-31** Proline Chiral Ionic Liquids for Enantioselective Synthesis (Oita Univ.) KAWANO, Yuuki; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3G4-32** Behavior of DNA-Porphyrin complexes in ionic liquids (Oita Univ.) SUMI, Kensuke; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3G4-33** Enantioselective Reactions Catalyzed by Novel Chiral Pyrazole Metal Complexes (Kyushu Univ., Faculty of Sciences) ITOH, Kennosuke; TANAKA, Tomoaki; ITO, Yoshio; KAWATO, Toshio

Chair: KAMIMURA, Akio (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(3G4-35, 3G4-36, 3G4-37, 3G4-38, 3G4-40)
- 3G4-35** The Asymmetric Synthesis of β -Lactams:IndaBox/Cu-Mediated Kinugasa Reaction (Tokyo Univ. of Science, Faculty of Science) YAHIRO, Junichi; KIKUCHI, Tomohiro; OTANI, Takashi; SAITO, Takao
- 3G4-36** Effect of Anion Structure on Diels-Alder Reaction (Oita Univ.) YANAGISAKO, Atsuki; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3G4-37** Pressure Effects on the Thermal Cyclization of a Hexadiene Formed from a Diphenylanthropyran in Ionic Liquids (Oita Univ.) MIURA, Junji; KITAOKA, Satoshi; NOBUOKA, Kaoru; OHGA, Yasushi; ISHIKAWA, Yuichi
- 3G4-38*** Three-Component Ag-Catalyzed Enantioselective Vinylogous Mannich and Aza-Diels-Alder Reactions with Alkyl-Substituted Aldehydes (Boston College) MANDAI, Hiroki; MANDAI, Kyoko; SNAPPER, Marc; HOVEYDA, Amir
- 3G4-40** Asymmetric Synthesis of Furans Bearing a Chiral Quaternary Stereocenter at the 2-Position (Department of Chemistry, Graduate School of Science, Hiroshima Univ. Center for Quantum Life Science, Hiroshima Univ.) SASHIHARA, Yoshiaki; IWAMOTO, Akihisa; KOJIMA, Satoshi; ABE, Manabu

Chair: SUGA, Hiroyuki (15:50~16:40)

- * 15:40-15:50: interval for laptop PC connection.(3G4-42, 3G4-43, 3G4-44, 3G4-45)
- 3G4-42** Asymmetric 1,3-Dipolar Cycloaddition of Azomethine Imines to Unsaturated Alcohols Utilizing Tartaric Acid Ester as a Chiral Auxiliary (Kanazawa Univ., Graduate School of Natural Science and Technology) KATO, Tomomitsu; UKAJI, Yutaka; INOMATA, Katsuhiko
- 3G4-43** Stereoselective Addition Reaction of N-Acyliminium Ion Through Intramolecular Interaction (Ochanomizu Univ.) TAKAHASHI, Yasuko; YAMADA, Shinji
- 3G4-44** Development of a Novel Protecting Group for Carboxylic Acids Based on the Properties of 2-Hydroxypyridine (Ochanomizu Univ.) ABE, Misato; YAMADA, Shinji
- 3G4-45*** Synthetic study toward trachelanthamidine via asymmetric Aza-Baylis-Hillman adducts (Yamaguchi Univ.) ISHIKAWA, Shingo; KAMIMURA, Akio

Chair: YAMASAKI, Ryu (16:50~17:30)

- * 16:40-16:50: interval for laptop PC connection.(3G4-48, 3G4-49, 3G4-50, 3G4-51)
- 3G4-48** Asymmetric cycloaddition reactions between cyclic carbonyl ylides and several olefins in the presence of chiral Lewis acids-scope and limitations for olefin substrates (Shinshu Univ.) SUGA, Hiroyuki; OTSUKA, Motoo; HIGUCHI, Satoshi; KAKEHI, Akikazu
- 3G4-49** Binaphthylidimine-Ni(II)-catalyzed asymmetric 1,3-dipolar cycloaddition reactions of diazoacetates with 2-(2-alkenyl)-3-pyrazolidinone derivatives (Shinshu Univ.) SUGA, Hiroyuki; FURIHATA, Yasuhisa; KAKEHI, Akikazu
- 3G4-50** Development of Novel Quaternary Ammonium Salts Based on a Chiral Spiro Framework (ISIR, Osaka Univ.) TANAKA, Kaori; TAKENAKA, Kazuhiko; HIROTA, Tomoko; SHIMOMOTO, Ai; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 3G4-51** Withdrawn

Room G5

Bldg.10 1042

Organic Chemistry -Reaction and Synthesis-Heteroatom Compounds

Friday, March 27, AM

Chair: FUJII, Takayoshi (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** Synthesis and Characterization of Multi-Ferrocenyl Derivative Bridged by Oligothiophene spacer (Fac. of Engin., Iwate Univ.) MURAOKA, Hiroki; OZAWA, Kouhei; OGAWA, Satoshi
- 1G5-02** Synthesis, Structures and Properties of Bridged [5]Heterohelicenes. (Wakayama Univ.) TANAKA, Ken-ichi; OSUGA, Hideji; SANNOHE, Yuta; SHINOHARA, Ken-ichi; SUGIYAMA, Hiroshi; SAKAMOTO, Hidefumi
- 1G5-03** Reductions at the S(IV) Atom of a Sulfur-substituted Sulfurane (The Univ. of Tokyo.) KUSAKA, Shinpei; ITOH, Yusuke; KANO, Naokazu; KAWASHIMA, Takayuki
- 1G5-04** Synthesis and Reactions of Cyclic Polysulfides having hydroxy and alkoxy group. (Facu. Of Engin., Iwate Univ.) SATO, Ryu; SHIMAWAKI, Daiki; NAKAJO, Shiduko
- 1G5-05** Synthesis and Reactions of New Mother Type of Tetrathiins. (Faculty of Engineering, Iwate Univ.) SATO, Ryu; KOBAYASHI, Yasuko; KON-NO, Masaru; NAKAJO, Shiduko
- 1G5-06** Synthesis and properties of benzopolysulfanes having a pyrene unit (Facu. of Engin., Iwate Univ.) SATO, Ryu; SOMA, Yoshinori; KATSUMATA, Miho; NAKAJO, Shiduko

Chair: NAKATA, Norio (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(1G5-08, 1G5-09, 1G5-10, 1G5-11, 1G5-12, 1G5-13)
- 1G5-08** Synthesis and application of N-thioacyl 1,2-diamines via the reaction of thioamide dianions with imines (Department of Chemistry, Faculty of Engineering, Gifu Univ.) KOBAYASHI, Shunichiro; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 1G5-09** Preparation and Reactivity of S-amino-N-alkyliminosulfonium salts (Univ. of Toyama) YOSHIMURA, Toshiaki; HIGASHIDANI, Kazuyoshi; FUKUROI, Hironobu; OZAWA, Yuki
- 1G5-10** Oxidation of Sulfides with Hydrogen Peroxide Catalyzed by TaC, NbC or VC (Sizuoka Inst. Sci. & Tech.) ITOH, Atsushi; NOGUCHI, Takuya; YAMAMOTO, Junya; KIRIHARA, Masayuki
- 1G5-11** Synthesis and Structures of Novel Spiro Compounds Consisted of Heavier Group 14 and 16 Elements and Their Reactions with Zero Valent Group 10 Metal Complexes (Institute for Chemical Research, Kyoto Univ.) TANABE, Taro; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 1G5-12** Synthesis of Interlocked Compounds by Utilizing Characteristics of Hypervalent Bonding in Pentacoordinate Silicon Compounds (Tokyo Institute of Technology) TAKEUCHI, Kazumasa; SASE, Shohei; GOTO, Kei
- 1G5-13** Synthesis of Benzosiloles via KH-Mediated Cyclization of (2-Alkynylphenyl)silanes (Univ. of Tokyo) ILIES, Laurean; TSUJI, Hayato; NAKAMURA, Eiichi

Chair: KANO, Naokazu (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(1G5-15, 1G5-16, 1G5-17, 1G5-18, 1G5-19, 1G5-20)
- 1G5-15** Preparation and Characterization of Donor Type Self-assembled Monolayers Containing Thiole Terminal (Fac. of Eng., Iwate Univ.) OGAWA, Satoshi; AMANO, Kaori; YAMAMOTO, Tatsuya; MURAOKA, Hiroki; SHIMADA, Kazuaki
- 1G5-16** Preparation and Characterization of Donor and Acceptor Type Self-assembled Monolayers Containing Silyl Terminal (Fac. of Eng., Iwate Univ.) OGAWA, Satoshi; INOUE, Sayuri; YAMAMOTO, Tatsuya; MURAOKA, Hiroki; SHIMADA, Kazuaki
- 1G5-17** Synthesis and Oxidation of Stable α,β -Unsaturated Thiols (Department of Chemistry, School of Science, Kitasato Univ.) NAGASAWA, Takuya; MINOURA, Mao; YAMAMOTO, Gaku; MAZAKI, Yasuhiro
- 1G5-18** Elucidation of the mechanism of catalytic hydroselenation. Reaction of a stable *cis*-hydrido(selenolato) Pt(II) complex with DMAD (Saitama Univ.) KAMON, Hitomi; MURAKAMI, Keiko; NAKATA, Norio; ISHII, Akihiko
- 1G5-19** Transformation Utilizing the Reaction of Terminal Alkynes Having a Phenylseleno Group with Nitrones (Kanazawa Univ.) MINAI, Yui; HONDA, Mitsunori; SEGI, Masahito
- 1G5-20** Development of a new synthetic route to selenocysteine derivatives and evaluation of the antioxidation catalytic activity (Tokai Univ.) YOSHIDA, Sari; IWAOKA, Michio

Friday, March 27, PM

Chair: ITO, Shigekazu (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1G5-28, 1G5-30, 1G5-31, 1G5-32)
- 1G5-28*** Catalytic asymmetric synthesis of α -fluorocarbonyl compounds (Toyohashi Univ. of Tech.; The Univ. of Chicago) SHIBATOMI, Kazutaka; MUTO, Tsubasa; NARAYAMA, Akira; KOBAYASHI, Fumito; IWASA, Seiji; YAMAMOTO, Hisashi
- 1G5-30^T** Synthesis and Characterization of Monohaloarsoranes Bearing a Novel Tridentate Ligand Occupying One Apical and Two Equatorial Sites (Hiroshima Univ.) YAMAMICHI, Hideaki; MATSUKAWA, Shiro; YAMAMOTO, Yohsuke
- 1G5-31** Mechanism of Selective Complexation of Mono- and Di-nuclear Platinum Complexes with Organoarsenic Ligands (Kyoto Univ.; Kyoto Institute of Technology) SHIMAMOTO, Tatsuo; NAKA, Kensuke; ARITA, Manabu; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 1G5-32*** Controlled Structures of 1,4-Dihydro-1,4-Diarsinines and Their Dinuclear Platinum(II) Complexes (Kyoto Univ.; Kyoto Institute of Technology) NAKA, Kensuke; ARITA, Manabu; SHIMAMOTO, Tatsuo; MORISAKI, Yasuhiro; CHUJO, Yoshiki

Chair: NISHIYAMA, Yutaka (14 : 40~15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(1G5-35, 1G5-36, 1G5-37, 1G5-38, 1G5-39)
- 1G5-35** Gold nano particle catalyzed reductive amination of aldehydes under hydrogenation condition (Dept. of Chemistry, Kyushu Univ.; JST CREST) YAMANE, Yoshihiro; HAMASAKI, Akiyuki; LIU, Xiaohao; TOKUNAGA, Makoto
- 1G5-36** Cobalt Oxide Supported Gold Nanoparticles Catalyzed Hydroaminomethylation of Olefins (Dept. of Chemistry, Kyushu Univ.; JST CREST) LIU, Xiaohao; HAMASAKI, Akiyuki; YAMANE, Yoshihiro; TOKUNAGA, Makoto
- 1G5-37** Synthesis of 3,3'-Diaryl-substituted 2,2'-diamino-1,1'-binaphthyl and the Derivatives (Research Center for Materials Science and Department of Chemistry, Nagoya Univ.) MURAOKA, Toshimitsu; TSUDUKI, Masahiro; YOSHIMURA, Masahiro; KITAMURA, Masato
- 1G5-38** [3,3]Sigmatropic Rearrangement of Enammonium Salts Derived from Several Ammonium Salts (Graduate School of Engineering, Graduate School of Environment and Information Sciences, Yokohama National Univ.) HONDA, Kiyoshi; YOSHIDA, Masanori; TAKASU, Noriaki; HOSHINO, Yujiro; INOUE, Seiichi
- 1G5-39** Diazotization of naphthol derivatives with Guanidino diazonium salt (Kyushu Institute of Technology) SAKATA, Rie; TASHIRO, Norifumi; KITAMURA, Mitsuro

Chair: NAGAHORA, Noriyoshi (15 : 40~16 : 30)

- * 15:30-15:40: interval for laptop PC connection.(1G5-41, 1G5-42, 1G5-43, 1G5-44, 1G5-45)
- 1G5-41** Analysis of ^{131}P , (Se) in R_3PSe : Evaluations Based on the Relativistic and Non-relativistic Treatments (Fac. of Systems Engineering, Wakayama Univ.) KITAMOTO, Masayuki; HAYASHI, Satoko; NAKANISHI, Waro
- 1G5-42** Proposal of New Method to Analyze NMR Chemical Shifts: Evaluation of Relativistic Effect on δ (Se) (Wakayama Univ.; Tokyo Metropolitan Univ.) KATSURA, Yoshifumi; KAWANISHI, Hideaki; NARAHARA, Kenji; HAYASHI, Satoko; NAKANISHI, Waro; HADA, Masahiko
- 1G5-43** Attempt to Analyze ^{17}O NMR Chemical Shifts Separately by the Factors: Difficulties and Possibility (Wakayama Univ., Faculty of Systems Engineering) KAWANISHI, Hideaki; NARAHARA, Kenji; HAYASHI, Satoko; NAKANISHI, Waro
- 1G5-44** Synthesis and properties of π -extended benzothiophene-condensed dithiin derivatives (Fac. Eng., Iwate Uni) OGAWA, Satoshi; WATANABE, Daichi; MURAOKA, Hiroki; SHIMADA, Kazuaki
- 1G5-45** Synthesis and properties of π -extended distyrylthiophene derivatives (Faculty of Engineering, Iwate Univ.) OGAWA, Satoshi; ITO, Hiroki; MURAOKA, Hiroki; SHIMADA, Kazuaki

Chair: SATO, Soichi (16 : 40~17 : 30)

- * 16:30-16:40: interval for laptop PC connection.(1G5-47, 1G5-48, 1G5-49, 1G5-50, 1G5-51)
- 1G5-47** Synthesis of new spherands and attempts to its application (Department of Chemistry, Graduate School of Science, Hiroshima Univ.) SUZUKAWA, Naoyuki; KASHIWABA, Takashi; MATSUKAWA, Shiro; YAMAMOTO, Yohsuke
- 1G5-48** Variation of a Number of Sulfur Atoms in N,N' -Origothiodiamines by Action with Acid (Saitama Univ.) TAMAI, Minako; SUGIHARA, Yoshiaki
- 1G5-49** Solid-State Thiirration of Tetrasubstituted Alkenes Using 3*H*-1,2-Benzodithiol-3-one 1,1-Dioxide and Silica Gel (Saitama Univ.) SAIKI, Aya; SUGIHARA, Yoshiaki
- 1G5-50** Preparation and Electrochemical Property of Bis(octakis(methylthio)phthalocyaninato) Ti (IV) benzenetetrathiolate (Iwate Univ.) KIMURA, Takeshi; KUMASAKA, Jun; NAMAOU, Toshiharu
- 1G5-51** Preparation of Octakis(methylthio)octaethylphthalocyaninato Tita-

nium (IV) Benzenedichalcogenolates (Iwate Univ.) KIMURA, Takeshi; YAMAMOTO, Arata; NAMAOU, Toshiharu

Saturday, March 28, AM

Chair: KIMURA, Takeshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2G5-01, 2G5-02, 2G5-03, 2G5-04, 2G5-05, 2G5-06)
- 2G5-01** Synthesis and redox properties of ferrocene dimer derivatives bridged by thiophene spacer (Fac. of Engin., Iwate Univ.) MURAOKA, Hiroki; IZUTSU, Kenta; OGAWA, Satoshi
- 2G5-02** Reaction of 1,3-Thiazine-2,6-dithiones with Diphenyldiazomethane. Synthesis of Pyrroline-4-thions by the Novel Rearrangement (Department of Chemistry, Faculty of Science, Josai Univ.) YAMAMOTO, Tatsuo; MURAOKA, Motomu
- 2G5-03** Synthesis and Structure of Novel Ag(I) Complexes Containing S=C=S Unit and It's Ligand Transfer Reactions (Fujii Lab., Dept. Appl. Mol. Chem., Coll. Ind. Tech., Nihon Univ.) IKEDA, Manabu; FUJII, Takayoshi
- 2G5-04** New Synthesis of 2,1-Benzisoselenolole by the Reaction of 2-Methylaniline with Selenium Dioxide (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) IMAI, Yuusuke; NISHIYAMA, Yutaka
- 2G5-05** Coordination properties of divinylbenzene derivatives bearing chalcogen moieties. (Osaka Prefecture Univ.) MINATOBE, Yuta; NOMOTO, Akihiro; OGAWA, Akiya
- 2G5-06** Synthesis of Porphyrin bearing hetero atom moieties and coordination properties (Osaka Prefecture Univ.) SHIINO, Go; NOMOTO, Akihiro; OGAWA, Akiya

Chair: SAITO, Masaichi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2G5-08, 2G5-09, 2G5-10, 2G5-11, 2G5-12, 2G5-13)
- 2G5-08** Synthesis of Pt-Ir dinuclear complexes having a dithiolate ligand and their development to hydrosilylation (Saitama Univ.) SAKASHITA, Masahiro; NAKATA, Norio; ISHII, Akihiko
- 2G5-09** Silyl substitution of (E)-3,3,3-trifluoro-1-phenyl-1,2-di(trimethylsilyl)propene (Department of Applied Chemistry, Faculty of Engineering, Okayama Univ.) KATAGIRI, Toshimasa; SEIKI, Takayuki; OHNO, Ken-ichi
- 2G5-10** Synthesis and Structures of Novel Pentacoordinated Carboxysilanes Bearing Intramolecular Nitrogen-Silicon Coordination (Tokyo Institute of Technology, The Univ. of Tokyo) DOMOTO, Yuya; SASE, Shohei; GOTO, Kei; FUKUSHIMA, Akihiro; KAWASHIMA, Takayuki
- 2G5-11** Chalcogenation of a stable 1,2-bis(ferrocenyl)disilene : Synthesis of the first stable 1,2,3,4-dithiadisilene. (Institute for Chemical Research, Kyoto Univ.) YUASA, Akihiro; SASAMORI, Takahiro; TOKITOH, Norihiro
- 2G5-12** Aerobic Oxygenation of Silane using Diaryl Telluride Catalysts (Graduate School of Science and Technology, Tokai Univ.; National Institute of Advanced Industrial Science and Technology) OKADA, Yasunori; ARAI, Atsushi; OBA, Makoto; NISHIYAMA, Kozaburo; ANDO, Wataru
- 2G5-13** Synthesis of Hydrido(selenolato)platinum(II) Complex Having 1,1-Dimethylethaneselenolato Ligand. (Saitama Univ.) IKEDA, Takashige; NAKATA, Norio; ISHII, Akihiko

Chair: YAMASHITA, Makoto (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2G5-15, 2G5-16, 2G5-17, 2G5-18, 2G5-19, 2G5-20)
- 2G5-15** Study on the Substituent Effects of the Ligands of the Hypervalent Organotelluriums (IV) (Department of Chemistry, School of Science, Kitasato Univ.) WADA, Hiroo; ISHII, Hana; MINOURA, Mao; YAMAMOTO, Gaku; MAZAKI, Yasuhiro
- 2G5-16** New Synthetic Method on Organic Telluranyl Dication and Its Reaction Mechanism (Tokyo Metropolitan Univ.) KUWAHARA, Junryo; SATO, Soichi; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 2G5-17** Fluoride Ion Sensing Ability and Electrochemical Properties of an Azaborine Bearing Several Boryl Groups (The Univ. of Tokyo) SEKINE, Masaki; AGOU, Tomohiro; KOBAYASHI, Junji; KAWASHIMA, Takayuki
- 2G5-18** Synthesis of triazine derivatives having triarylborene groups containing sulfur atom. (Facu. of Engin., Iwate Univ.) SATO, Ryu; KAMADA, Yuya; NAKAJO, Shiduko
- 2G5-19** Control of Fluorescence Properties of *N*-Substituted C-N Double-Bond Compounds Containing an Intramolecular N-B Coordination (The Univ. of Tokyo) YOSHINO, Junro; KANO, Naokazu; KAWASHIMA, Takayuki
- 2G5-20** Synthesis of Octupolar-Type Conjugated Molecules Bearing a Spirobiboratafluorene as an Electron-Donating Core (The Univ. of Tokyo) FUKUSHIMA, Haruya; AGOU, Tomohiro; KAWASHIMA, Takayuki

Saturday, March 28, PM

Chair: GOTO, Kei (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2G5-28, 2G5-29, 2G5-31, 2G5-32, 2G5-33)

- 2G5-28[†]** Synthesis of a bidentate ligand bearing a mesitylpyrimidinyl group and application to the system for estimation of the bond energy (Univ. of Hiroshima) HIRANO, Yuichi; YAMAMOTO, Yohsuke
- 2G5-29*** Development of Boron-containing Unsaturated Bond Species by Utilizing Bulky "Rind" Groups (RIKEN) SHOJI, Yoshiaki; HASHIZUME, Daisuke; MATSUO, Tsukasa; TAMAO, Kohei
- 2G5-31** Syntheses, Crystal Structures and Photoluminescent Properties of Palladium(II) Complexes Containing Disulfanenitrile Ligand. (FUJII Lab., Dept. Appl. Mol. Chem., Coll. Ind. Tech., Nihon Univ.) SAKAGAMI, Michiyasu; FUJII, Takayoshi
- 2G5-32** Reactions of Cycloheptane-fused Crown Thioethers with Metal Complexes (Saitama Univ.) FUJIWARA, Yoko; NAKATA, Norio; ISHII, Akihiko
- 2G5-33** Thermal isomerization and complexation of partially unsaturated thiocrown ethers (Tokyo Metropolitan Univ) KOMATSUZAKI, Satoru; HIRABAYASHI, Kazunori; SATO, Soichi; SHIMIZU, Toshio

Chair: TOYOTA, Kozo (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2G5-35, 2G5-37, 2G5-38, 2G5-39)
- 2G5-35*** Thionation of amides with hydrosilanes and elemental sulfur (Department of Chemistry, Faculty of Engineering, Gifu Univ.) SHIBAHARA, Fumitoshi; SUGIURA, Rie; MURAI, Toshiaki
- 2G5-37** Synthetic Application of Functionalized Methylphosphonates (Kinki Univ.) OKADA, Yoshiharu; MARUYAMA, Tomohiro; NOMURA, Masato
- 2G5-38** Cycloaddition Reaction of Conjugated Dienes with Chlorophosphines and Chloroarsines in the Presence of Lewis Acids (Chubu Univ.) HONG, Hua; KOKETSU, Jugo; ANDO, Fumio
- 2G5-39*** Synthesis and Versatile Reactivities of Hexacoordinated Dihydrophosphoranides (The Univ. of Tokyo) MIYAKE, Hideaki; KANO, Naokazu; KAWASHIMA, Takayuki

Chair: MINOURA, Mao (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2G5-42, 2G5-43, 2G5-45, 2G5-47)
- 2G5-42** Generation of carbon-centered radicals from organotellurium compounds by photoirradiation. (Kyoto Univ. Institute for Chemical Research.) NAKAMURA, Yasuyuki; UEDA, Tokiko; YAMAGO, Shigeru
- 2G5-43*** Reactivities of Group 15 and 16 Diheteroatom Compounds under Radical Conditions (Institute for Chemical Research, Kyoto Univ.) KAYAHARA, Eiichi; YAMAGO, Shigeru
- 2G5-45*[†]** Copper(0)-Induced Deselenative Reactions of Selenoamides in the Presence of Alkenes and Alkynes (Osaka Prefecture Univ.; Graduate School of Engineering.) MITAMURA, Takenori; OGAWA, Akiya
- 2G5-47** Photoinduced intramolecular radical cyclization of *o*-ethynylisocyanides with diphenyl ditelluride (Osaka Prefecture Univ.; Graduate School of Engineering) IWATA, Kimiyo; MITAMURA, Takenori; OGAWA, Akiya

Sunday, March 29, AM

Chair: KOBAYASHI, Junji (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3G5-01, 3G5-02, 3G5-03, 3G5-04, 3G5-05, 3G5-06)
- 3G5-01** Synthesis and Properties of Novel Planar Triarylphosphines (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) HASHIMOTO, Sigma; HATAKEYAMA, Takuji; NAKAMURA, Masaharu
- 3G5-02** Stereospecific synthesis of cyclic phosphorus compounds by using chiral bisphosphines (Graduate School of Engineering, Kyoto Univ.) IMOTO, Hiroaki; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 3G5-03** Synthesis of optically active phosphacrowns (Graduate School of Engineering, Kyoto Univ.) IMOTO, Hiroaki; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 3G5-04** Synthesis of Oligomers Involving Pentacoordinate Phosphorus with Hydrophosphorane (Kitasato Univ.) KAJIYAMA, Kazumasa; HAZAMA, Yuki; YAMAMOTO, Yusuke; MIYAMOTO, Takeshi
- 3G5-05** Formation of *p*-substituted 3-aminodithiocinnamates by the Reaction of Enamine Tautomers of Aromatic ketimines with Carbon Disulfide and their Isolation as Methyl Esters (Department of Chemistry, Faculty of Science, Josai Univ.) MURAOKA, Motomu; YAMAMOTO, Tatsuo
- 3G5-06** Substituent Effect on Ring Expansion Reaction of Vinylsulfonium Ylide (Kobe City College of Tech.) NAKATA, Yusuke; KOIZUMI, Takuya

Chair: HIRABAYASHI, Kazunori (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3G5-08, 3G5-09, 3G5-10, 3G5-11, 3G5-12, 3G5-13)
- 3G5-08** Synthesis of Novel Chiral Thiourea Derivatives bearing Borneane-type Chiral Auxiliaries and Their Synthetic use as Chiral Brønsted Acids (Faculty of Engineering, Iwate Univ.) SHIMADA, Kazuaki; SAWAGUCHI, Koji; OGAWA, Satoshi
- 3G5-09** Convenient synthesis of thiocarboxylic acids and the oxidative coupling to diacyldisulfides catalyzed by vanadium oxide. (Tokyo Institute of Technology, Chemical Resources Laboratory) ARAI, Yuki; MAKIOKA, Yoshikazu; TANIGUCHI, Yuki
- 3G5-10** Synthesis of 4'-Hydroxymethyl-4'-thioribonucleosides (Faculty of

Engineering, Okayama Univ. of Science) SASHIKI, Okihito; DU, Zhenjun; NOKAMI, Junzo

- 3G5-11** Preparation of Thianthrene by the Photolysis of Benzotrithiole Application to Synthesis of Unsymmetric Phthalocyanine (Iwate Univ.) KIMURA, Takeshi; OBONAI, Takeru; NOZAKI, Takayuki; NAMAOU, Toshiharu
- 3G5-12** Palladium-Catalyzed Construction of 5-Methylene-2(5H)-furanone Framework by Carbonylation of Baylis-Hillman Adduct (Osaka Dental Univ.; Graduate School of Engineering, Osaka Univ.) FUJIWARA, Shin-ichi; OKADA, Atsushi; KAMBE, Nobuaki
- 3G5-13** Regiocontrol in [2,3]-Wittig rearrangement of β, β' -disubstituted unsymmetrical bis(allyl)ethers (Graduate School of Science and Engineering, Tokyo Institute of Technology) MIKAMI, Koichi; FUJITA, Kumiko; WAKABAYASHI, Kazuki; ITO, Shigekazu

Chair: KAJIYAMA, Kazumasa (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3G5-15, 3G5-16, 3G5-17, 3G5-18, 3G5-19, 3G5-20)
- 3G5-15[†]** Synthesis and Properties of a Novel Phosphaalkenylphosphido Ligand Bearing Bulky Substituents (Institute for Chemical Research, Kyoto Univ.) MATSUZAKI, Teruyuki; SASAMORI, Takahiro; TOKITOH, Norihiro
- 3G5-16** The synthesis of ammonium phosphoro monofluoridates by the reaction of phosphoric esters and amides with fluoride ion (Department of Chemistry, Faculty of Engineering, Gifu Univ.) TONOMURA, Yusuke; TAKENAKA, Toru; MURAI, Toshiaki
- 3G5-17[#]** The Atherton-Todd Reaction Goes Stereospecifically: An Efficient and General Method for the Preparation of Optically Pure Phosphamides (Xiamen Univ., AIST) WANG, Gang; XU, Qing; GOTO, Midori; ZHAO, Yufen; HAN, Li-biao
- 3G5-18** Synthesis of 1-Phospha-1,3-butadiene Derivatives using Palladium-catalyzed C-P Coupling Reactions of Primary Phosphine and Their Properties in [4+2] Cycloaddition (Osaka City Univ. Fac. of Eng. Dep. of App. Chem.) MINAMI, Tatsuya; OKAMOTO, Hiroki; IDA, Mika; HATANAKA, Yasuo
- 3G5-19** Reduction Reactions of an Aryldichlorophosphine Derivative Bearing a Boron Atom at the *ortho*-Position of the Aromatic Ring (Institute for Chemical Research, Kyoto Univ.) TSURUSAKI, Akihiro; SASAMORI, Takahiro; TOKITOH, Norihiro
- 3G5-20** Preparation and Properties of Poly(biradical)s Composed of 1-*s*-Butyl-1,3-diphosphacyclobutane-2,4-diyl Units (Tohoku Univ., The Univ. of Alabama, Tokyo Institute of Technology) MIURA, Joji; MORITA, Noboru; YOSHIFUJI, Masaaki; ITO, Shigekazu

Sunday, March 29, PM

Chair: TOKITOH, Norihiro (13 : 30~14 : 00)

- * 13:20-13:30: interval for laptop PC connection.(3G5-28, 3G5-31, 3G5-33)
- 3G5-28 CSJ Award for Young Chemists** Creation of Nucleophilic Boryl Anions and Their Properties (Sch. of Eng. The Univ. of Tokyo) YAMASHITA, Makoto
- Chair: SHIOJI, Kosei (14 : 00~14 : 30)
- 3G5-31*** Synthesis and Coordination Behavior to Cation of Crown Ether Derived from Optically Active [7]Heterohelicene Moieties. (Wakayama Univ.) OSUGA, Hideji; KUBOTA, Kaoru; SAKAMOTO, Hidefumi
- 3G5-33** Lewis Acid Mediated Reactions of Propargyl Sulfides with Ethyl Glyoxylate (Tokyo Metropolitan Univ.) SHIBAGAKI, Kazuteru; HIRABAYASHI, Kazunori; SATO, Soichi; SHIMIZU, Toshio

Chair: HAYASHI, Satoko (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(3G5-48, 3G5-49, 3G5-50, 3G5-51, 3G5-52, 3G5-53)
- 3G5-48** Synthesis and Structure of Color-tunable Organotelluronium Salts (Department of Chemistry, School of Science, Kitasato Univ.) MINOURA, Mao; ISHII, Hana; YAMAMOTO, Gaku; MAZAKI, Yasuhiro
- 3G5-49** Synthesis and Dynamic Behavior of Organo-chalcogen Compounds having Binaphthyl Ligands (Tokyo Metropolitan Univ.) KIM, Kumi; SATO, Soichi; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 3G5-50** Synthesis of Novel Selenium-containing Heterocyclic Compounds via [4+2] Cycloaddition of Selenoaldehydes with Aza-1,3-dienes (Kanazawa Univ.) KINJO, Jun; ENDO, Yuki; HONDA, Mitsunori; SEGI, Masahito
- 3G5-51** Synthesis and Structure of Novel 5-Membered 1,2-Oxaplatinacycles (Saitama Univ.) FURUKAWA, Noriyuki; TODA, Tomoyuki; NAKATA, Norio; ISHII, Akihiko
- 3G5-52** Syntheses of cyclic polysulfides by the reactions of thiocamphor and thiofenchone with sulfur reagents (Faculty of Science, Fukuoka Univ.) NAGAHOA, Noriyoshi; TABUCHI, Miki; KANTO, Masayuki; SHIOJI, Kosei; OKUMA, Kentaro
- 3G5-53** Synthesis, structure, and characterization of 1,1'-bis(arylorigothenyl) ferrocene compounds (Fac. of Engin., Iwate Univ.) MURAOKA, Hiroki; KOBAYASHI, Haruka; OGAWA, Satoshi

Monday, March 30, AM

Chair: SUGIHARA, Yoshiaki (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(4G5-01, 4G5-02, 4G5-03, 4G5-04, 4G5-05, 4G5-06)

4G5-01 Synthesis of secondary thiocarbonylsilanes and their properties. (Department of Chemistry, Faculty of Engineering, Gifu Univ.) HORI, Rumi; SHIBAHARA, Fumitoshi; MURAI, Toshiaki**4G5-02** Synthesis of benzopentathiepins and its derivatives having multi benzene ring as substituents. (Facu. of Engin., Iwate Univ.) SATO, Ryu; OKAWA, Masayoshi; MINATO, Kayoko; SATO, Yuki; NAKAJO, Shiduko**4G5-03** A catalytic hydrothiolation of allenes with disulfides and water in the presence of triphenylphosphine (Osaka Prefecture Univ.) KODAMA, Shintaro; OGAWA, Akiya**4G5-04** Photoinduced Hydrophosphinylation of Alkenes with Diphenylphosphine Oxide (Osaka Prefecture Univ.) KAWAGUCHI, Shin-ichi; OGAWA, Akiya**4G5-05** Construction of catalytic system of vanadium for highly selective oxidation of amines under atmospheric molecular oxygen (Osaka Prefecture Univ.) YOSHIDA, Jun; KODAMA, Shintaro; NOMOTO, Akihiro; UESHIMA, Michio; OGAWA, Akiya**4G5-06** Reactions of four-membered selenaplatinacycles with acetylenes (Saitama Univ.) YAMAGUCHI, Yuki; NAKATA, Norio; ISHII, Akihiro

Chair: SASAMORI, Takahiro (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(4G5-08, 4G5-09, 4G5-10, 4G5-11, 4G5-12, 4G5-13)

4G5-08 Synthesis and Electron-Conducting Property of Dibenzophosphole Sulfide-Anchored Single Molecular Junction (Graduate School of Science, Nagoya Univ.; Graduate School of Science, Hokkaido Univ.; PRESTO, JST) FUKAZAWA, Aiko; ICHIHASHI, Yasunori; TANGE, Satoshi; ZHAO, Qiang; YAMAGUCHI, Shigehiro; KIGUCHI, Manabu; KONISHI, Tatsuya; MURAKOSHI, Kei**4G5-09** Development and Applications of a Novel Synthetic Method of Dibenzophosphole (The Univ. of Tokyo) HAGA, Shunsuke; KOBAYASHI, Junji; KAWASHIMA, Takayuki**4G5-10** Synthesis and properties of novel [c]-fused phosphole derivatives (Kyoto Univ.; iCeMS) SAITO, Arihiro; MATANO, Yoshihiro; MIYAJIMA, Tooru; FUKUSHIMA, Tatsuya; KAJI, Hironori; IMAHORI, Hiroshi**4G5-11** Synthesis and Coordinating Ability of α -(1,2,3-Triazol-4-yl)phospholes (Kyoto Univ.; iCeMS) NAKASHIMA, Makoto; MATANO, Yoshihiro; UMEYAMA, Tomokazu; IMAHORI, Hiroshi**4G5-12** Phosphole Oxides As Explosive Sensors (Tokyo Institute of Technology) SHIRAIISHI, Kentaro; SANJI, Takanobu; TANAKA, Masato**4G5-13** Phosphole Oxides As Lectin Sensors (Tokyo Institute of Technology) SHIRAIISHI, Kentaro; SANJI, Takanobu; TANAKA, Masato

Chair: SHIBAHARA, Fumitoshi (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(4G5-15, 4G5-16, 4G5-17, 4G5-18, 4G5-19, 4G5-20)

4G5-15 Synthesis of Selenoamides and Selenoactams via Beckmann Rearrangement (Kanazawa Univ.) HIRAO, Hirotsugu; TSUCHIDA, Hideki; HONDA, Mitsunori; SEGI, Masahito**4G5-16** 1,3,2-Dioxaselenolane-2-oxides-Catalyzed Oxidation of Alkenes (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) KANDA, Eiji; NISHIYAMA, Yutaka**4G5-17** Selective Synthesis of Multi-phenylseleno-substituted Benzenes. (Department of Chemistry Graduate School of Science and Engineering, Saitama University) KANATAMI, Yoshihiko; SAITO, Masaichi**4G5-18** Elucidation of Reactivity of *N*-Hydroxysulfenamides and Related Compounds (Tokyo Institute of Technology) YOSHIKAWA, Shuhei; SASE, Shohei; GOTO, Kei; MIYAKE, Yusuke; KAWAI, Akio; SHIBUYA, Kazuhiko**4G5-19** Model Study of Highly Reactive Cysteine Derivatives by Taking Advantage of a Bowl-shaped Primary Alkyl Group (Tokyo Institute of Technology) AOKI, Yohei; SASE, Shohei; GOTO, Kei**4G5-20** Preparation and Properties of Novel Bis(2-ethynyl-3-thienyl)arenes Containing Various Substituents (Tohoku Univ., Toyama Univ.) TSUJI, Yasutomo; KATSUTA, Hiroshi; TOYOTA, Kozo; MORITA, Noboru; KURODA, Shigeyasu

Room G6

Bldg.10 1043

Analytical Chemistry

Friday, March 27, AM

Sensor

Chair: HISAMOTO, Hideaki (9:00~9:50)

* 8:50-9:00: interval for laptop PC connection.(1G6-01, 1G6-02, 1G6-03, 1G6-04)

1G6-01 Chloride Ion Sensor Based on Sol-gel-derived Membrane Modified Chemically with Porphyrin Derivative (Wakayama Univ., Faculty of Systems Engineering) HORI, Yusuke; YAJIMA, Setsuko; KIMURA, Keiichi**1G6-02** Visual Sensor Based on Inverse Opal Gel with Anion Responsive Groups (Wakayama Univ., Faculty of Systems Engineering) YASUDA, Yuichirou; NAKAHARA, Yoshio; KADO, Shinpei; IWAMOTO, Hitoshi; KIMURA, Keiichi**1G6-03** Potassium ion image sensor using charged transfer technique (Toyohashi Univ. of Tech.) HATTORI, Toshiaki; MASAKI, Yoshitomo; ASTUMI, Kazuya; KATO, Ryo; SAWADA, Kazuaki**1G6-04*** Synthesis and Photophysical Properties of A Novel TICT-type Fluorescent Sensor for Amino Acids (VIII) (Hokkaido Univ.) ITO, Akitaka; ISHIZAKA, Shoji; KITAMURA, Noboru

Electroanalysis, Surface analysis

Chair: KIMURA, Keiichi (10:00~10:50)

* 9:50-10:00: interval for laptop PC connection.(1G6-07, 1G6-08, 1G6-09, 1G6-10, 1G6-11)

1G6-07 Stability of RTIL salt bridge constructed of pyrrolidinium, applied to low ionic strength water solution (Kyoto Univ.) FUJINO, Yousuke; NISHI, Naoya; YAMAMOTO, Masahiro; KAKIUCHI, Takashi**1G6-08** Phase-boundary potential at the interface between an ionic liquid composed of multivalent ions and water (Kyoto university) KANEMURA, Shinsuke; NISHI, Naoya; YAMAMOTO, Masahiro; KAKIUCHI, Takashi**1G6-09** Investigation of Chemical stability of Polymer Electrolyte Materials for Polymer Electrolyte Fuel Cell (FC-Cubic, AIST) OHIRA, Akihiro; OHIRA, Kayo; KIDENA, Koh**1G6-10** FM-AFM analysis of local hydration structures at the titanium oxide-solution interface (Faculty of Science, Kobe Univ.) HIASA, Takumi; KIMURA, Kenjiro; ONISHI, Hiroshi; OHTA, Masahiro; WATANABE, Kazuyuki; KOKAWA, Ryohei; OHYABU, Noriaki; KOBAYASHI, Kei; YAMADA, Hirofumi**1G6-11** The effect of purification of ionic liquid on the formation constants of alkali metal ions with dibenzo-18-crown-6 determined by voltammetry (Kyoto Univ.) MATSUYAMA, Yoshio; NISHI, Naoya; YAMAMOTO, Masahiro; KAKIUCHI, Takashi

Chair: KAKIUCHI, Takashi (11:00~12:00)

* 10:50-11:00: interval for laptop PC connection.(1G6-13)

1G6-13 CSJ Award for Creative Work DNA Nano Materials for Reliable Bio-Sensing (RIKEN) MAEDA, Mizuo

Friday, March 27, PM

Separation, Extraction, Analytical reagents

Chair: NISHIZAWA, Seiichi (13:10~14:10)

* 13:00-13:10: interval for laptop PC connection.(1G6-26, 1G6-27, 1G6-28, 1G6-29, 1G6-30, 1G6-31)

1G6-26 Design and Function of Boronic Acid Type Fluorescent Probe/Cyclodextrin Derivative Sensors (Sophia Univ.) KUMAI, Mio; KODUKA, Satoko; HASHIMOTO, Takeshi; HAYASHITA, Takashi**1G6-27** Design and evaluation Boronic Acid azoprobe/cyclodextrin complex sensors possessing glucose recognition function (Sophia Univ.) FURUMICHI, Maiko; SHIMPUKU, Chie; HASHIMOTO, Takeshi; HAYASHITA, Takashi**1G6-28** Self-assembly of Boronic Acid Azoprobes on Dendrimer Surface and Their Sugar Recognition Function (Sophia Univ.) SAKAI, Yuuki; TSUCHIDO, Yuji; HASHIMOTO, Takeshi; HAYASHITA, Takashi**1G6-29** Development of Supramolecular Fluorescence Probe Possessing Dipicolylamine Recognition Site. (Sophia Univ.) FUJII, Yuri; SHIMA, Naomi; HASHIMOTO, Takeshi; HAYASHITA, Takashi**1G6-30** Synthesis and assessment of NIPA Gel Containing TPEN [N,N,N',N'-tetrakis(2-pyridylmethyl)ethylenediamine] Derivatives for Extracting Minor Actinide from High Level Radioactive Waste. (Graduate School of Engineering, Kobe Univ.) TSUMAGARI, Takayuki; FUKUOKA, Sachio; INABA, Yusuke; MORI, Atsunori; NAKANO, Yoshio; TAKESHITA, Kenji**1G6-31** Synthesis of TPEN [N,N,N',N'-tetrakis(2-pyridylmethyl)ethylenedia-

mine] derivatives bearing fluorinated substituents and its extraction ability of soft metal ion. (Graduate School of Engineering, Kobe Univ.) KIDA, Tatsuya; WATANABE, Wataru; INABA, Yusuke; MORI, Atsunori; TAKESHITA, Kenji

Separation, Extraction, Analytical reagents

Chair: HAYASHITA, Takashi (14:20~15:20)

- * 14:10-14:20: interval for laptop PC connection.(1G6-33, 1G6-34, 1G6-35, 1G6-37, 1G6-38)
- 1G6-33** Fluorescent Visualization of the Conformational Change of Aromatic Amide and Urea for Development of Fluorescent Sensors (Sch. Biomed. Sci., Instit. Biomat. Bioeng., Tokyo Med. Dent. Univ., Tokushima Bunri Univ., Ochanomizu Univ., JST PRESTO) HIRANO, Tomoya; OSAKI, Takashi; FUJII, Shinya; KOMATSU, Daisuke; AZUMAYA, Isao; TANATANI, Aya; KAGECHIKA, Hiroyuki
- 1G6-34** Mass spectrometry measurement of low molecular weight drugs using an inclusion matrix (Crime Invest. Lab., Metropolitan Police Dept., Univ. Tokyo, Tokyo Metropolitan Univ.) ASANO, Takashi; YONEZAWA, Tetsu; FUJINO, Tatsuya; NISHIHARA, Hiroshi
- 1G6-35*** Comparative Evolved Gas Analyses of Crystalline and Amorphous Titanium(IV)oxo-hydroxo-acetylacetonates by TG-FTIR and TG/DTA-MS (Budapest Univ. of Technology and Economics Shizuoka Univ. Industrial Research Institute of Shizuoka Prefecture SPD CO., Ltd.) JANOS, Madarasz; OKUYA, Masayuki; SUGIYAMA, Osamu; GYORGY, Pokol; KANEKO, Shoji
- 1G6-37** Lithium Ion Extractabilities of Macrocyclic Trinuclear Arene Ruthenium(II) Complexes Bridged by 2,3-Dioxopyridine: Effect of Arene-Ligand Structures (Chiba Univ.) NOMURA, Hajime; EGASHIRA, Takuya; KATSUTA, Shoichi; KUDO, Yoshihiro; TAKEDA, Yasuyuki
- 1G6-38** Distribution of Various Aromatic Compounds between 1-Butyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)amide and Water (Chiba Univ.) NAKAMURA, Kohichi; KATSUTA, Shoichi; KUDO, Yoshihiro; TAKEDA, Yasuyuki

Micro-nano analysis

Chair: HIRANO, Ayumi (15:30~16:30)

- * 15:20-15:30: interval for laptop PC connection.(1G6-40, 1G6-42, 1G6-43, 1G6-44, 1G6-45)
- 1G6-40*** Efficient extraction of lanthanides into ionic liquids using a diamide-type ligand (Japan Atomic Energy Agency) SHIMOJO, Kojiro; KURAHASHI, Kensuke; NAGANAWA, Hirochika
- 1G6-42** Precious size-exclusive separation of nanoparticles by a hybrid mesoporous membrane (Tohoku Univ.; NIMS) YAMAGUCHI, Akira; MEKAWY, Moataz M.; EL-SAFTY, Sherif A.; TERAMAE, Norio
- 1G6-43** Structural Analysis of Chemically Modified Silica Nanoparticles Using NMR Method (Faculty of Systems Engineering, Wakayama Univ.) NAKAHARA, Yoshio; TAKEUCHI, Tsutomu; KIMURA, Keiichi
- 1G6-44** Preparation of biomolecule-modified capillary tube and its application to analytical chemistry (Faculty of Science and Engineering, Doshisha Univ.) MIZUKAMI, Tomoe; NODA, Keiichi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 1G6-45** Chemiluminescence analysis using micro reaction place with enzyme modified micro beads (TMU UES Applied Chemistry) MURATA, Hikaru; NAKAJIMA, Hizuru; UCHIYAMA, Katsumi

Micro-nano analysis

Chair: YAMAGUCHI, Akira (16:40~17:40)

- * 16:30-16:40: interval for laptop PC connection.(1G6-47, 1G6-48, 1G6-49, 1G6-50, 1G6-51, 1G6-52)
- 1G6-47** The optimized structure of micro channel that the hybridization of DNA progresses quickly is applied to the protein detection (PME, Nagoya Univ.) AKI, Michihiko; WANG, Jun; ONOSHIMA, Daisuke; ARINAGA, Kenji; KAJI, Noritada; TOKESHI, Manabu; FUJITA, Shozo; YOKOYAMA, Naoki; BABA, Yoshinobu
- 1G6-48** Silicon microfabrication-based bilayer lipid membrane sensors: stabilization of the membranes (Graduate School of Biomedical Engineering, Tohoku Univ.) HIRANO-IWATA, Ayumi; AOTO, Kouji; TAIRA, Tasuku; YAMAGUCHI, Ryo-taro; KIMURA, Yasuo; NIWANO, Michio
- 1G6-49** Development of Micro Plasma Separation Device (Univ of Tokyo, Kitamori Lab.) TAKAHASHI, Susumu; AOTA, Arata; KITAMORI, Takehiko
- 1G6-50** Micro-chip electrophoresis-chemiluminescence detection; effects of surfactants on 1,10-phenanthroline luminescence detection (Faculty of Science and Engineering, Doshisha Univ.) NOGAMI, Takahiro; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 1G6-51** Development of 2-Step Isoelectric Focusing in a Micro Chamber Array Chip (the univ. of Tokyo, Kitamori lab.) ISHIBASHI, Ryo; KITAMORI, Takehiko; SHIMURA, Kiyohito
- 1G6-52** Development of a micropump using PDMS check valves (Univ. Tokyo) TANAKA, Yo; SATO, Kae; KITAMORI, Takehiko

Saturday, March 28, AM

Flow injection analysis

Chair: TOKESHI, Manabu (9:10~9:50)

- * 9:00-9:10: interval for laptop PC connection.(2G6-02, 2G6-04, 2G6-05)
- 2G6-02*** Micro-flow separation system using an open capillary tube; examination of tube materials and consideration of separation mechanism (Faculty of Science and Engineering, Doshisha Univ.) JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2G6-04** Micro-flow separation system using an open capillary tube; introduction of fluorescence detection (Faculty of Science and Engineering, Doshisha Univ.) KUDOU, Yudai; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2G6-05** Micro-flow separation system using an open capillary tube; introduction of chemiluminescence detection (Faculty of Science and Engineering, Doshisha Univ.) ISHIMOTO, Seiji; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

Electrophoresis

Chair: TSUKAGOSHI, Kazuhiko (10:00~10:50)

- * 9:50-10:00: interval for laptop PC connection.(2G6-07, 2G6-09, 2G6-10, 2G6-11)
- 2G6-07*** Synthesis of Novel Sugar-based Surfactants and Application to MEKC-Correlation between Structure of Glycosides and Enantioseparation of Amino Acids (Hokkaido Univ. (Graduate School of Environmental Science)) TANO, Chiharu; FURUKAWA, Jun-ichi; FURUIKE, Tetsuya; SAKAIRI, Nobuo
- 2G6-09[†]** Dependence of desulfonation of strongly acidic cation exchanger on counter ion charge, polymer matrix and crosslinking degree (Fac. Sci., Kyushu Univ.) FUJIMORI, Takao; KURISAKI, Kousuke; OKOBIRA, Tadashi; UEZU, Kazuya; YOSHIMURA, Kazuhisa
- 2G6-10** Capillary-assembled microchip(42)Preparation of reagent-release capillary for use in highly-sensitive immunoassay based on capillary isoelectric focusing (osaka prefecture university graduate school of engineering) YOKOYAMA, Hiroki; KATAOKA, Masaki; TERENSU, Henaresu; YAO, Toshio; HISAMOTO, Hideaki
- 2G6-11** Nano liter sample injection system using inkjet microchip for a capillary gas chromatography (Tokyo Metropolitan Univ.) NAGANO, Hazumu; NAKAJIMA, Hizuru; UCHIYAMA, Katsumi

Chair: BABA, Yoshinobu (11:00~12:00)

- * 10:50-11:00: interval for laptop PC connection.(2G6-13)
- 2G6-13** CSJ Award for Creative Work Studies on Improving Performance of Microscale Electrophoresis (Grad. Sch. of Eng., Kyoto Univ.) OTSUKA, Koji

Saturday, March 28, PM

Flow-injection analysis, Electrophoresis

Chair: MAWATARI, Kazuma (13:10~14:10)

- * 13:00-13:10: interval for laptop PC connection.(2G6-26, 2G6-27, 2G6-28, 2G6-29, 2G6-31)
- 2G6-26** Micro-flow separation system using an open capillary tube (4); separation of optical isomers (Faculty of Science and Engineering Doshisha Univ.) HAMADA, Mariko; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2G6-27** Micro-flow separation system using an open capillary tube; separation of biomolecule-related substances and fluorescence detection (Faculty of Science and Engineering, Doshisha Univ.) NISHIURA, Sayo; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2G6-28** Micro-flow separation system using an open capillary tube; separation of biomolecule-related substances and chemiluminescence detection (Faculty of Science and Engineering, Doshisha Univ.) YOSHIDA, Kazuma; FUJIWARA, Chikafumi; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2G6-29*** Development of high-performance analysis of amino acids using transient-trapping in capillary electrophoresis (Kyoto Univ.) SUEYOSHI, Kenji; HASHIBA, Kota; TANAKA, Ryuta; KITAGAWA, Fumihiko; OTSUKA, Koji
- 2G6-31** Highly Sensitive Analysis of Sugar Chains in Capillary Electrophoresis (Kyoto Univ.) KAWAI, Takayuki; KITAGAWA, Fumihiko; OTSUKA, Koji

Flow-injection analysis, Food and drug analysis, Micro-nano analysis

Chair: HIBARA, Akihito (14:20~15:20)

- * 14:10-14:20: interval for laptop PC connection.(2G6-33, 2G6-34, 2G6-35, 2G6-36, 2G6-37)
- 2G6-33** Micro-flow separation system using an open capillary tube; consideration based on fluorescence visual imaging (Faculty of Science and Engineering, Doshisha Univ.) MURAKAMI, Mari; JINNO, Naoya;

- HASHIMOTO, Masahiko; TUKAGOSHI, Kazuhiko
2G6-34 Micro-flow separation system using an open capillary tube; introduction of double-capillary tubes having different inner diameters. (Faculty of Science Engineering, Doshisha Univ.) YAMADA, Koji; JINNO, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
2G6-35 Basic study of the Bactericidal effects of electrolyzed water containing hypochlorous acid-Interaction with amino acids- (Faculty of Science, Kanagawa Univ., Fujigaoka Hospital, Showa Univ.) NISHIMOTO, Yuko; YASUTOMI, Mao; IWASAWA, Atsuo
2G6-36 Magnetic effect on the water state in the thermo reversible hydro gel containing polyethylene oxide (Kanagawa Univ., TAI) IITAKA, Yuichi; ATSUTA, Kazumi; TAKENOSHITA, Itsuro; AIKAWA, Toru; NISHIMOTO, Yuko
2G6-37* Development of rapid and easy-to-use immunoassay chip (Nagoya Univ.; PME, Nagoya Univ.) TOKESHI, Manabu; IKAMI, Mai; KAJI, Noritada; BABA, Yoshinobu

Micro nano analysis

Chair: UCHIYAMA, Katsumi (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2G6-40, 2G6-42, 2G6-44, 2G6-45)
2G6-40* Electrophoretic Analyses of Biogenic Compounds Using Surface Modified Polymer Microchips (Kyoto Univ.; Waseda Univ.; SOKEN) KITAGAWA, Fumihiko; KUBOTA, Kei; SHINOHARA, Hidetoshi; TAKAHASHI, Yoshikazu; MIZUNO, Jun; SHOJI, Shuichi; OTSUKA, Koji
2G6-42* Development of the new injection method for the microchip electrophoresis with inkjet apparatus (Nagoya Univ.) INOUE, Yousuke; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu
2G6-44 Computer simulation of diffusion in restricted geometry (Faculty of Science, Univ. of Hyogo) MAKOSHI, Kenji; SHIMA, Nobuyuki; AONO, Yuki
2G6-45 Measuring refractive indices of liquids in extended-nano space with nano grating channels (KITAMORI Lab, the Univ. of Tokyo) MURAO, Takuya; MAWATARI, Kazuma; HIBARA, Akihiko; KITAMORI, Takehiko

Micro nano analysis

Chair: KITAGAWA, Fumihiko (16 : 40~17 : 00)

- * 16:30-16:40: interval for laptop PC connection.(2G6-47, 2G6-48)
2G6-47 Micr-channel chemiluminescence analysis (MCCLA); diffusion behavior of metal catalyst and luminol detection (Faculty of Science and Engineering, Doshisha Univ.; National Institute of Advanced Industrial Science and Technology) ONODA, Takeshi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko; YAMASHITA, Kenichi; MAEDA, Hideaki
2G6-48 Micr-channel chemiluminescence analysis (MCCLA); diffusion behavior of fluorescence compounds and oxalate-luminescence detection (Faculty of Science and Engineering, Doshisha Univ.; National Institute of Advanced Industrial Science and Technology) MINAMIYAMA, Tomoki; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko; YAMASHITA, Kenichi; MAEDA, Hideaki

Sunday, March 29, AM

Bioanalysis

Chair: SATO, Moritoshi (9 : 40 ~10 : 50)

- * 9:30-9:40: interval for laptop PC connection.(3G6-05, 3G6-06, 3G6-08, 3G6-09, 3G6-10, 3G6-11)
3G6-05 Molecular design of hypoxia probe for F-MR imaging (Graduate School of Engineering, Kyoto Univ.) TANABE, Kazuhito; HARADA, Hiroshi; NARAZAKI, Michiko; MATSUDA, Tetsuya; HIRAOKA, Masahiro; NISHIMOTO, Sei-ichi
3G6-06* Construction of Fluorescent Probe for hypoxic cell (Univ. of Tokushima) NAKATA, Eiji; YUKIMACHI, Yoshihiro; KARIYAZONO, Hirokazu; IM, Seongwang; UTO, Yoshihiro; HORI, Hitoshi
3G6-08 Multi fluorescent probe for acidic and hypoxic environment (Kyoto Univ; ASTEM) KOMATSU, Hirokazu; YAMADA, Hisatsugu; ITO, Takeo; TANABE, Kazuhito; NISHIMOTO, Sei-ichi
3G6-09 Formation of DNA higher-order structure and its application to clinical diagnosis. (PALMA Bee'Z) USUI, Mitsugu
3G6-10 ELISAs using monoclonal antibodies against highly conserved region of hemagglutinin molecule of influenza virus a type. (Applied chemistry, Oita Univ.) ISHIDA, Kazuya; HIFUMI, Emi; UDA, Taizo
3G6-11 A sensing method based on the control of enzyme reaction in the pores of mesoporous compounds. (Nihon Univ., College of Humanities and Sciences) NOZAWA, Keiichiro; SUGAWARA, Masao

X-ray analysis

Chair: TERADA, Yasuko (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(3G6-13, 3G6-14, 3G6-15)
3G6-13 Valence states and their diffusion at the Si-SiO₂ interface observed by micro-X-ray absorption spectroscopy (Japan Atomic Energy Agency)

HIRAO, Norie; BABA, Yuji; SEKIGUCHI, Tetsuhiro; SHIMOYAMA, Iwao; HONDA, Mitsunori; NARITA, Ayumi

- 3G6-14** Development of Thermal Lens XAFS (High Energy Accelerator Research Organization) SATOU, Haruhiko; HARADA, Makoto; OKADA, Tetsuo
3G6-15 Young Scholar Lectures of CSJ Study on accumulation mechanism of Cd and As in hyperaccumulating plants by X-ray spectrometry utilizing a synchrotron radiation X-ray microbeam (Tokyo Univ. of Sci.; Waseda Univ., WIAS) HOKURA, Akiko

Sunday, March 29, PM

Bioanalysis

Chair: KIM, Sung Bae (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(3G6-25, 3G6-27, 3G6-29)
3G6-25* Development of New type visual determination with non-dependence of color vision (Toyama National College of Technology) MANAKA, Atsushi; IGARASHI, Shukuro
3G6-27* Bright, Color-Tunable Multicolor Fluorescent Dyes in the VIS-NIR Region (Keio Univ.) UMEZAWA, Keitaro; MATSUI, Akihiro; NAKAMURA, Yuki; CITTERIO, Daniel; SUZUKI, Koji
3G6-29* Near infrared enhanced Raman monitoring of Avidin-Biotin interaction for non-labeling aqueous phase detection (Archilys) FUKUOKA, Takao; MORI, Yasushige

Bioanalysis

Chair: SUGAWARA, Masao (14 : 10~14 : 50)

- * 14:00-14:10: interval for laptop PC connection.(3G6-32, 3G6-34)
3G6-32** A split Gaussia luciferase-based bioluminescence template for tracing protein dynamics in living cells (AIST) KIM, Sung Bae; TAO, Hiroaki
3G6-34** Circularly permuted bioluminescent probes for illuminating ligand-activated protein dynamics (AIST) KIM, Sung Bae; TAO, Hiroaki

Room H3
Bldg.11 1113

Environmental and Green Chemistry, Geo and Space Chemistry

Friday, March 27, PM

Chair: YOSHIDA, Masaaki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1H3-28, 1H3-29, 1H3-30, 1H3-31, 1H3-32, 1H3-33)
1H3-28 Production of glycerol carbonate from glycerol using solid base catalysts (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) IWATANI, Ken; NISHIMURA, Shun; TAKAGAKI, Atsushi; EBITANI, Kohki
1H3-29 Selective oxidation of glycerol over hydrotalcite Supported metal catalysts (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) TSUJI, Akihiro; NISHIMURA, Shun; TAKAGAKI, Atsushi; EBITANI, Kohki
1H3-30 The Development of environment-conscious process for glycosylation-The improvement of solid super acid promoter for glycosylation reactions-(Grad.Sch. of Life Sci., Hokkaido Univ.) SAITO, Naohiro; HINO, Hiroshi; NISHIMURA, Shin-ichiro
1H3-31 Reduction of CO₂ emissions in laundry detergents (LION Corporation) HAGIWARA, Hiroyuki; OSHITA, Hiroyuki; TAKAOKA, Hiromitsu
1H3-32 One-Pot Synthesis of HMF from glucose using solid acid and base catalysts (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) OHARA, Mika; NISHIMURA, Shun; TAKAGAKI, Atsushi; EBITANI, Kohki
1H3-33 Levoglucosan production from glucose over solid acid catalysts (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) TAKAGAKI, Atsushi; EBITANI, Kohki

Chair: EBITANI, Kohki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1H3-35, 1H3-36, 1H3-37, 1H3-38, 1H3-39)
1H3-35 Esterification of ascorbic acid in supercritical carbon dioxide (Material and Environmental Chemistry, Utsunomiya Univ.) YOSHIDA, Masaaki; IZUMITA, Takahiro
1H3-36 Oxidation of cyclic C₆ compounds with nitrogen dioxide in supercritical carbon dioxide. (Teikyo Univ.; Utsunomiya Univ.) YANAGIHARA, Naohisa; OHGANE, Kennichiro; ABE, Naoto; YPSHIDA, Masaaki
1H3-37 Development of Hydroxyapatite-Supported Ag Nanoparticle Catalyst for Aqueous Oxidation of Phenylsilanes to Silanols (Osaka Univ.) ARITA, Shusuke; MIKAMI, Yusuke; MORI, Haruhiko; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
1H3-38 Dehalogenation of DDT and its Analogues Using Hydroxyapatite-

supported Pd Nanoparticle Catalysts (Osaka Univ.) HASHIMOTO, Norifumi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

1H3-39* High-Performance Catalysts Based on Palladium Nanoparticles That Are Embedded in Precisely-Fabricated Microporous Polymers. (Kawamura Institute of Chemical Research) OGASAWARA, Shin; KATO, Shinji

Chair: EINAGA, Hisahiro (15 : 50~16 : 40)

* 15:40-15:50: interval for laptop PC connection.(1H3-42, 1H3-43, 1H3-44, 1H3-45)

1H3-42 Photocatalytic hydrogen production from methanol aqueous solution with nanocomposite semiconductors (Department of Chemistry for Materials, Graduate School of Engineering, Mie Univ.) MIWA, Takuya; KANEKO, Satoshi; KATSUMATA, Hideyuki; SUZUKI, Tohru; OHTA, Kiyohisa; S. C., Verma; SUGIHARA, Kunihiro

1H3-43 A study of AMC removal by photocatalyst (Toshiba Corporation Power and Industrial Systems Research and Development Center) TAKAHASHI, Masanori; SHIMURA, Naohiko; ASAYAMA, Masahiro; SEGAWA, Noboru

1H3-44 Photosensitized Degradation of Organic Pollutants with Polymer Nanocapsule encapsulating Fe(bpy)₃²⁺ complex (Osaka Univ.) MANABE, Kenji; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

1H3-45* Decomposition of trimethylamine using visible light responsive photocatalyst in flow phase without a bias (ILE Osaka Univ.; Osaka Univ.; Hirotsaki Univ.) YASUDA, Yuzuri; NAGAI, Keiji; NORIMATSU, Takayoshi; ABE, Toshiyuki

Chair: SHIRAIISHI, Yasuhiro (16 : 50~17 : 20)

* 16:40-16:50: interval for laptop PC connection.(1H3-48, 1H3-49, 1H3-50)

1H3-48 Chase for intermediate compounds of toluene photooxidation reaction (Univ. of Kyushu) MOCHIDUKI, Keisuke; KUSABA, Hazime; EINAGA, Hisahiro; TERAOKA, Yasutake

1H3-49 Solar photocatalytic degradation of organic pollutants with ozone (Meisei Univ., GESC) TAKEUCHI, Masashi; ITO, Nao; YAMAZAKI, Masae; KOIKE, Takayoshi; OYAMA, Toshiyuki; HODAKA, Hisao

1H3-50 Photoactivity of AgBr from different preparation methods (Toyohashi Univ. of Technology) KOBAYASHI, Bungaku; OHKITA, Hironobu; MIZUSHIMA, Takanori; KAKUTA, Noriyoshi

Saturday, March 28, AM

Chair: HATA, Noriko (10 : 10~11 : 00)

* 10:00-10:10: interval for laptop PC connection.(2H3-08, 2H3-09, 2H3-10, 2H3-11, 2H3-12)

2H3-08 Physiological Water under Atmosphere and CO₂ Fixation (Catalysis Research Center, Hokkaido Univ.) ICHIKAWA, Kazuhiko

2H3-09 Investigation for Practical Use on the Reducing Treatment of Wastes contained Hexavalent Chromium(Cr⁶⁺) (Hokkaido Inst. of Tech.) KISHI, Masami; SAKAMOTO, Tomokazu; TANAKA, Seira; UEOKU, Takashi; TAKAHASHI, Satoshi

2H3-10 Removal of micelle from liquid phase using allophane (Shinshu Univ.) NISHIKIORI, Hiromasa; KOBAYASHI, Kiyokazu; KUBOTA, Satoshi; TANAKA, Nobuaki; FUJII, Tsuneo

2H3-11 Design of rapid phenol removal in water using chitosan-conjugated thermo-responsive polymer (Nagoya Univ. Grad. Eng.) SAITOH, Tohru; SUGIURA, Yusuke; HIRAIDE, Masataka

2H3-12 Synthesis of layered manganese compounds and removal of heavy metal ions with them (Kansai Univ.; Functional Materials lab) FUKUNISHI, Hiroto; ARIMATSU, Hiroshi; SANO, Makoto; MIYAKE, Takanori

Chair: SAITOH, Tohru (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(2H3-14, 2H3-15, 2H3-16, 2H3-18, 2H3-19)

2H3-14 Secondary organic aerosol formation from the ozonolysis of 3-hexene-1-ol (leaf alcohol) (National Institute for Environmental Studies) TSUTSUI, Tatsuya; HATAKEYAMA, Shiro; SATO, Kei; IMAMURA, Takashi

2H3-15 Secondary organic aerosol formation in the isoprene-ozone system: Effect of OH-radical scavenger (National Institute for Environmental Studies) UCHIDA, Risa; FUKUDA, Sayaka; NAKAGAWA, Kazumichi; XING, Jia-hua; SATO, Kei; IMAMURA, Takashi; HIKIDA, Toshihide; SHIMONO, Akio

2H3-16* Investigation of Rainwater Pollution with Formaldehyde in Japan (Univ. of Toyama) MURAI, Keita; KURAMITZ, Hideki; HATA, Noriko; TAGUCHI, Shigeru

2H3-18 Continuous observations of atmospheric nitrogen compounds at Cape Hedo, Okinawa: Comparison with CMAQ model simulation. (Osaka Prefecture Univ.) SERA, Toshiki; YUBA, Akie; SADANAGA, Yasuhiro; TAKENAKA, Norimichi; BANDOW, Hiroshi; UNO, Itsushi; TAKAMI, Akinori; HATAKEYAMA, Shiro

2H3-19 Organic Aerosols in the Polluted Air Parcel from East Asia (Tokyo Univ. Agric. Technol.; Nat'l Inst. Environ. Studies) IWASAKI, Yuka; HATAKEYAMA, Shiro; SATO, Kei

Saturday, March 28, PM

Chair: UTSUNOMIYA, Satoshi (14 : 20~15 : 10)

* 14:10-14:20: interval for laptop PC connection.(2H3-33, 2H3-34, 2H3-35, 2H3-36)

2H3-33 Catalytic decomposition of chlorinated organic compounds (Tokuyama Corporation) MASUDA, Masafumi; FUKUJU, Tadahiro

2H3-34 Sampling method of polycyclic aromatic hydrocarbons in rain and snow (Grad. Sch. Eng., Osaka Pref. Univ.) TAKENAKA, Norimichi; NABESHIMA, Yoshie; SADANAGA, Yasuhiro; BANDOW, Hiroshi; KAMEDA, Takayuki

2H3-35 Hydrochloric acid leaching behavior of lead compounds in a dilute condition and application to environmental materials (Osaka City Inst Publ Heal & Environ Sci) FUNASAKA, Kunihiro; KANEKO, Satoshi; OHTA, Kiyohisa

2H3-36* Efficient decomposition of environmentally persistent fluorochemical surfactants using peroxodisulfate in hot water (National Institute of Advanced Industrial Science & Technology (AIST)) HORI, Hisao; NAGAOKA, Yumiko; MURAYAMA, Misako; KUTSUNA, Shuzo

Chair: HORI, Hisao (15 : 20~16 : 10)

* 15:10-15:20: interval for laptop PC connection.(2H3-39, 2H3-41, 2H3-42, 2H3-43)

2H3-39* Colloid-Facilitated Transport of Radionuclides to the Far-field in Mayak, Russia and Nevada Test Site (Kyushu Univ.) UTSUNOMIYA, Satoshi

2H3-41 Research on non-heating decomposition of asbestos -Effect of metal powder as a reducing agent in this process- (Pref. Univ. of Hiroshima; Setsunan Univ.) MITOMA, Yoshiharu; EGASHIRA, Naoyoshi; KAKEDA, Mitsunori; MIYATA, Hideaki

2H3-42 Size-controlled synthesis of hematite(alpha-Fe₂O₃) nanoparticle and the mechanism of toxic metal incorporation. (Kyushu Univ.;Inorganic Reaction Chemistry Lab.) INAGI, Kei; UTSUNOMIYA, Satoshi

2H3-43 Nanoscale phenomena in the interaction between apatite and aqueous lead (Kyushu Univ.; Inorganic Reaction Chemistry Lab.) KAMIISHI, Eigo; UTSUNOMIYA, Satoshi

Room H4

Bldg.11 1121

Asian International Symposium -Biofunctional Chemistry and Biotechnology

Sunday, March 29, PM

(13 : 30~13 : 40)

3H4-28# Opening remark (Tokyo Inst. Tech.) MIHARA, Hisakazu

Chair: MIHARA, Hisakazu (13 : 40~14 : 20)

3H4-29# Plenary Lecture Carbon nanotubes electronics: Opportunity and challenge of chemists (Peking Univ.) LIU, Zhongfan

Chair: SHIONOYA, Mitsuhiro (14 : 20~15 : 00)

3H4-33# Keynote Lecture Molecular electronic devices potentially for biosensing and DNA detecting (Peking Univ.) GUO, Xuefeng

Chair: MIHARA, Hisakazu (15 : 00~15 : 40)

3H4-37# Keynote Lecture Micro-patterning of transparent carbon nanotube (CNT) electrode and its application to bioanalysis (Hanyang Univ.) SEONG, Gi Hun

Chair: HAMACHI, Itaru (15 : 40~16 : 10)

3H4-41# Invited Lecture Single-cell analysis based on scanning probe technique and electrochemical microdevice (Tohoku Univ.) OSHIKU, Hitoshi • MATSUE, Tomokazu

Chair: SUGIMOTO, Naoki (16 : 10~16 : 40)

3H4-44# Invited Lecture Morphological control of magnetic nanoparticles using mms6 protein of magnetotactic bacteria (Tokyo Univ. Agric. Tech.) OARAKAKI, Atsushi • MATSUNAGA, Tadashi

Chair: HISAEDA, Yoshio (16 : 40~17 : 10)

3H4-47# Invited Lecture Nano-assemblies from C₃-symmetric peptide conjugates (Kyushu Univ.) MATSUURA, Kazunori

Chair: HAYASHI, Takashi (17 : 10~17 : 40)

3H4-50# Invited Lecture Nucleic acid interaction revisited: Cation and water binding to nucleotides (Konan Univ.) ONAKANO, Shu-ichi • SUGIMOTO, Naoki

Room H5

Bldg.11 1122

Biofunctional Chemistry ; Biotechnology

Sunday, March 29, PM

molecular accumulation

Chair: IJIRO, Kuniharu (12 : 30~13 : 20)

* 12:20-12:30: interval for laptop PC connection.(3H5-22, 3H5-23, 3H5-24, 3H5-26)

3H5-22 Organic/Inorganic Hybrid Materials For Protein Recognition (Graduate School of Engineering, Kobe Univ.) FUCHIMOTO, Kazutaka; OOYA, Tooru; TAKEUCHI, Tshifumi**3H5-23** Protein imprinting using immobilized proteins (Kobe Univ.) SUGA, Toshiaki; OOYA, Tooru; TAKEUCHI, Toshifumi**3H5-24*** Effects of Bulkiness and Hydrophobicity of Aliphatic Amino Acid at Recognition Helix of GAGA Zinc Finger on the Stability of Hydrophobic Core and DNA-Binding Affinity (Faculty of Pharmaceutical Sciences, Doshisha Women's Univ.) NEGI, Shigeru; SUZUKI, Michiko; SUGIURA, Yukio**3H5-26** Folding of Short Peptides within Self-assembled Space (Grad. School of Engineering, The Univ. of Tokyo; CREST) HATAKEYAMA, Yoshiyuki; SAWADA, Tomohisa; KAWANO, Masaki; FUJITA, Makoto

Chair: TAKEUCHI, Toshifumi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3H5-28, 3H5-29, 3H5-31, 3H5-32)

3H5-28 Interactions of Multivalent Anionic Porphyrins with V3 Loop Region of HIV-1 and Their Antiviral Activities (Doshisha university, faculty of science and engineering) WATANABE, Kenji; NEGI, Shigeru; SUGIURA, Yukio; KANO, Koji**3H5-29*†** Protein encapsulation into virus-like nano capsules using anchoring molecules (RIES, Hokkaido Univ.) OHTAKE, Noriko; NIIKURA, Kenichi; SUZUKI, Tadaki; NAGAKAWA, Keita; SAWA, Hirofumi; IJIRO, Kuniharu**3H5-31** Gold nanoparticle array based on virus-like nanocapsules through the viral ligand recognition. (Hokkaido Univ.; RIES) NAGAKAWA, Keita; NIIKURA, Kenichi; OHTAKE, Noriko; SUZUKI, Tadaki; MATSUO, Yasutaka; SAWA, Hirofumi; IJIRO, Kuniharu**3H5-32*** Investigation of the shape control factor of bullet-shaped nanomagnetic crystals in sulfate reducing magnetotactic bacterium, *Desulfotomaculum magneticum* RS-1 (Tokyo Univ. Agri. Tech.) NEMOTO, Michiko; ARAKAKI, Atsushi; TANAKA, Masayoshi; MATSUNAGA, Tadashi

Chair: TANAKA, Toshiaki (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3H5-35, 3H5-36, 3H5-37, 3H5-39)

3H5-35 Expression and purification of OB folds of mouse single-stranded telomeric DNA-binding protein Pot1 and analyses of the interaction with telomeric DNA (Tokyo Univ. of Science) KANEDA, Kaoru; FURUMI, Yasuko; TORIGOE, Hidetaka**3H5-36** Expression and purification of telomerase recruitment domain of yeast telomere binding protein Cdc13 (Tokyo Univ. of Science) HORIO, Yujin; NAMIKI, Junko; TORIGOE, Hidetaka**3H5-37*** Artificial Supramolecular System That Functions in Vivo: Capture and Removal of Endogenous CO by an Iron(II)Porphyrin-Cyclodextrin Inclusion Complex (Doshisha Univ.; Doshisha Women's Univ.) KITAGISHI, Hiroaki; NEGI, Shigeru; KIRIYAMA, Akiko; HONBO, Akino; SUGIURA, Yukio; KANO, Koji**3H5-39*** Accommodation of functional molecules in porous protein crystals of myoglobin by chemical modification of cysteine residues (iCeMS Kyoto Univ.; Grad. school of Eng. Nagoya Univ.; Res. Ctr. Mat. Sci. Nagoya Univ.; Grad. Sch. of Sci. Nagoya Univ.) KOSHIYAMA, Tomomi; HIKAGE, Tatsuo; KAWABA, Naomi; WATANABE, Yoshihito; UENO, Takafumi

Chair: TORIGOE, Hidetaka (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3H5-42, 3H5-43, 3H5-44, 3H5-45, 3H5-46)

3H5-42 Immobilization of photosynthesis antenna system protein/pigment complex on substrate with pattern (Grad. School Eng., Nagoya Inst. of Tech.) GOTO, Osamu; HATASAKI, Mikio; AKEGAWA, Misaki; HARADA, Kaori; IIDA, Koji; DEWA, Takehisa; HASHIMOTO, Hideki; NANGO, Mamoru**3H5-43** Self-Assembly of Poly(ethylene glycol)-linked photosynthetic Light-Harvesting Model Polypeptide / Pigment Complexes (Grad. School Eng., Nagoya Inst. of Tech.) SHIMOYAMA, Kosuke; OCHIAI, Tsuyoshi; OSAKA, Shinichiro; DEWA, Takehisa; YAMASHITA, Keiji; NANGO, Mamoru**3H5-44** Electron Transfer of Lipid-Linked Chlorin Derivatives onto Electrodes. (Grad. School Eng., Nagoya Inst. of Tech.) TAKEUCHI, Yoshito;JOKE, Takashi; KUZUYA, Koutarou; ISHIGURE, Syuichi; DEWA, Takehisa; YAMASHITA, Keiji; HASHIMOTO, Hideki; NANGO, Mamoru
3H5-45 Construction and Functional Evaluation of Myoglobin Based Supramolecular Assembly (Graduate School of Engineering, Osaka Univ.) OOHORA, Koji; ONODA, Akira; HAYASHI, Takashi
3H5-46* Metal Accumulation on the Surface of Porous Protein Crystal (iCeMS, Kyoto Univ.; PRESTO/JST; Grad. Sch. Eng. Nagoya Univ.; Res. Ctr. Mat. Sci. Nagoya Univ.) ABE, Satoshi; HIKAGE, Tatsuo; WATANABE, Yoshihito; UENO, Takafumi

Chair: NANGO, Mamoru (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(3H5-49, 3H5-51, 3H5-52, 3H5-53, 3H5-54)

3H5-49*† Fabrication of alpha-elastin nanoparticles by gamma-irradiation and their characterization (Graduate school of Science, Osaka Prefecture Univ.) FUJIMOTO, Mari; HARA, Masayuki; OKAMOTO, Kouji; FURUTA, Masakazu**3H5-51** Redox responses of the D-fructose dehydrogenase on nanoparticles modified electrodes (Department of Biotechnology, Tokyo Univ. of Agri. & Tech.) SUZUKI, Masato; MURATA, Kenichi; KAZIYA, Kazuki; NAKAMURA, Nobuhumi; OHNO, Hiroyuki**3H5-52** Identification of DNA binding specificity for EWS (Shizuoka Univ.) TAKAHAMA, Kentaro; KINO, Katsuhito; UCHIYAMA, Yumiko; NAGAHASHI, Mayumi; OYOSHI, Takanori**3H5-53** Construction of metal ion dependent DNA binding protein (Graduate School of Engineering, Nagoya Institute of Technology) MURASE, Shigeo; YAMAMOTO, Noritaka; SAKURAI, Hiroshi; TANAKA, Toshiaki**3H5-54** A mechanism of protein-protein interactions in the heme transfer from ferrochelatase to a heme-regulated transcription factor, Irr (Univ. of Hokkaido) ISHIMORI, Koichiro; UCHIDA, Takeshi; KITATUJI, Chihiro; IZUMI, Kozue**Room H6**

Bldg.11 1123

Biofunctional Chemistry ; Biotechnology

Friday, March 27, AM

Nucleic Acid

Chair: NAKAMURA, Mitsunobu (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1H6-01, 1H6-02, 1H6-03, 1H6-04, 1H6-05, 1H6-06)

1H6-01 Improvement of DNA aptamer heterodimer bound to Vascular Endothelial Growth Factor(VEGF165) (Tokyo Univ. of Agric. & Technol.) Ikebukuro, Kazunori; NONAKA, Yoshihiko; SAITOU, Humihiko; MORITA, You; SOUDE, Kouji**1H6-02** Improvement of DNA aptamers against C-reactive protein (Tokyo Univ. Agric. & Technol.; Sode Ikebukuro Tsugawa lab.) SAITO, Fumihiko; SODE, Kouji; Ikebukuro, Kazunori**1H6-03** Improvement of DNA aptamers against thyroglobulin (Tokyo Univ. Agri. & Technol.; Sode Ikebukuro Tsugawa lab) TAKAHASHI, Chiaki; SODE, Kouji; Ikebukuro, Kazunori**1H6-04** Development of catalytic DNA with peroxidase activity by in vitro selection (RIKEN) LIU, Mingzhe; ABE, Hiroshi; ITO, Yoshihiro**1H6-05** New SELEX Strategy for Screening of DNA Aptamer by AFM (Faculty of Eng., Kobe Univ.) MIYACHI, Yusuke; SHIMIZU, Nobuaki; OGINO, Chiaki; FUKUDA, Hideki; KONDO, Akihiko**1H6-06** Detection of biomolecule by fluorescence-labeled DNA aptamer (Gunma Univ., Graduate School of Engineering) OZAKI, Hiroaki; HAGIWARA, Yasuhisa; ASAKURA, Hiromi; KUWAHARA, Masayasu; SAWAI, Hiroaki

Chair: SHIBATA, Aya (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1H6-08, 1H6-09, 1H6-10, 1H6-11, 1H6-12)

1H6-08 Electrochemical detection of biomolecules by the use of redox-modified DNA aptamer immobilized on gold electrode (Univ. of Hyogo) HAYASHI, Eriko; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige**1H6-09** Photo-functionalization of DNA by polymerase extension reaction (Univ. of Hyogo) WATANABE, Sayuri; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige**1H6-10** Screening of DNA aptamers bound to α -synuclein (Tokyo Univ. of Agric. & Technol.) Ikebukuro, Kazunori; TSUKAKOSHI, Kaori; TAKAHASHI, Chiaki; HARADA, Ryuichi; OGASAWARA, Daisuke; SODE, Kouji**1H6-11** Novel labeling method of aptamer using luciferase fused zinc finger protein (Tokyo Univ. of Agric. & Technol.) Ikebukuro, Kazunori;

MURAKAMI, Yoshiyuki; MURANO, Tamaki; KUMAGAI, Takenori; OSAWA, Yuko; SOUDE, Kouji

1H6-12* Enzyme labeling by enzyme binding aptamer and its application to sensing (Tokyo Univ. of Agric. & Technol.) ABE, Koichi; TAKASE, Madoka; SODE, Koji; IKEBUKURO, Kazunori

Chair: IKEBUKURO, Kazunori (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(1H6-15, 1H6-17, 1H6-18, 1H6-20)

1H6-15* Structural aspects for the function of fluorescent ribonucleopeptide sensors. (Kyoto Univ., Institute of Advanced Energy) NAKANO, Shun; FUKUDA, Masatora; TAINAKA, Kazuki; MORII, Takashi

1H6-17 Construction of ribonucleopeptide based fluorescent sensors targeting bioactive amines (Institute of Advanced Energy, Kyoto Univ.) FUKUDA, Masatora; HASEGAWA, Tetsuya; LIEW, Fong-fong; MORII, Takashi

1H6-18*† Synthesis and evaluation of fluorescent G-quadruplex ligand (Tokyo Univ. of Agric. and Tech, Faculty of Technology) TERA, Masayuki; SUGANUMA, Masami; TAKAGI, Motoki; SHIN-YA, Kazuo; NAGASAWA, Kazuo

1H6-20 Enzymatic Detection of RNA Quadruplex Formations (Institute of Scientific and Industrial Research, Osaka Univ.) HAGIHARA, Masaki; NAKATANI, Kazuhiko

Friday, March 27, PM

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

* 13:20-13:30: interval for laptop PC connection.(1H6-28, 1H6-30, 1H6-32)

1H6-28* Development of a Novel Device to Trap Heavy Metal Cations: Application of the Specific Interaction between Heavy Metal Cation and Mismatch DNA Base Pair (Tokyo Univ. of Science; Tohoku Univ.; Kanagawa Univ.) KOZASA, Tetsuo; MIYAKAWA, Yukako; TANAKA, Yoshiyuki; ONO, Akira; TORIGOE, Hidetaka

1H6-30* Living cell sorting based on genetic signals using reduction-triggered fluorescence probe (RIKEN Waseda Univ.) FURUKAWA, Kazuhiro; ABE, Hiroshi; NAGAO, Atsushi; OKI, Kazuma; AOI, Yoshiteru; TSUNEDA, Satoshi; ITO, Yoshihiro

1H6-32* Real-time imaging of the immediate-early response genes using fluorescence-modified RNA probes in living cells (Kyoto Institute of Technology) WAKI, Reiko; UEDA, Takako; KOBORI, Akio; YAMAYOSHI, Asako; MURAMAMI, Akira

Chair: TERAMAE, Norio (14:40~15:40)

* 14:30-14:40: interval for laptop PC connection.(1H6-35, 1H6-36, 1H6-37, 1H6-38, 1H6-39, 1H6-40)

1H6-35 Development of RNA detecting probe containing phenylboronic acid structure (Kanagawa Univ.) OKAMOTO, Itaru; FUJII, Shino; ONO, Akira

1H6-36 Detection of mRNAs expressed in the Drosophila melanogaster embryo with Pyrene RNA Probe (Kyoto Institute of Technology) UEDA, Takako; WAKI, Reiko; KOBORI, Akio; YAMAYOSHI, Asako; YAMAGUCHI, Masamitsu; MURAKAMI, Akira

1H6-37 A single molecule analysis of DNA conformational transition using microfluidics (Nagoya Univ.) SUZUKI, Hiroshi; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu

1H6-38 Application of anomalous transport phenomena in nanostructures for fast DNA separation (Nagoya Univ.; Nat. Inst. Mater. Sci.) YASUI, Takao; KAJI, Noritada; OKAMOTO, Yukihiko; TOKESHI, Manabu; HORIIKE, Yasuhiro; BABA, Yoshinobu

1H6-39 Analysis of the DNA Local Structures Using the Malachite Green Modified DNA (The Institute of Scientific and Industrial Research, Osaka Univ.) DOURA, Tomohiro; HAYASHI, Gousuke; HAGIHARA, Masaki; NAKATANI, Kazuhiko

1H6-40† Selective Degradation of Nucleic Acids by High Temperature-Pressure Region Generated around Gold Nanoparticles Irradiated by Laser in Solution (Genesis Research Institute, Inc; the Univ. of Tokyo; Toyota Technological Institute) TAKEDA, Yoshihiro; MAFUNE, Fumitaka; KONDOW, Tamotsu

Chair: KATO, Teru (15:50~16:50)

* 15:40-15:50: interval for laptop PC connection.(1H6-42, 1H6-43, 1H6-44, 1H6-45, 1H6-46, 1H6-47)

1H6-42 Development of furan-conjugated oligodeoxyribonucleotides for detecting target nucleic acids using in situ ethenoadenosine-forming reaction (Kyoto Institute of Technology) KOBORI, Akio; MORITA, Jumpei; IKEDA, Masato; YAMAYOSHI, Asako; MURAKAMI, Akira

1H6-43 FRET-based detection of a single-nucleotide mutation by pyrene-labeled RNA probe. (Department of Biomolecular Engineering, Kyoto Institute of Technology) WATANABE, Toki; YAMAYOSHI, Asako; KOBORI, Akio; MURAKAMI, Akira

1H6-44 SNPs Detection by Synchronizing Pulse Potential Frequency with Dynamics of DNA Probes Immobilized onto Gold Electrodes (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) KOBAYASHI, Sakie; IKEDA, Reona; CHIBA, Jyn-ya; INOUE, Masahiko

1H6-45 SNP Typing Based on Synchronization of Pulse Potential Frequency Using DNA Probes Possessing a Different Redox Potential (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) IKEDA, Reona; CHIBA, Jyn-

ya; INOUE, Masahiko

1H6-46 Use of mismatch base-pairing for highly selective DNA-ligand interactions (Tohoku Univ.) KAGEYAMA, Tomoe; SATO, Yusuke; NISHIZAWA, Seiichi; TERAMAE, Norio

1H6-47 Development of pteridine-based DNA-binding ligands (Tohoku Univ.) KANAI, Eriko; NISHIZAWA, Seiichi; TERAMAE, Norio

Chair: MURAKAMI, Akira (17:00~18:00)

* 16:50-17:00: interval for laptop PC connection.(1H6-49, 1H6-50, 1H6-51, 1H6-52, 1H6-53, 1H6-54)

1H6-49 Development of Twin probe contain anthracene derivative and its application to gene detection (Nihon Univ. school of engineering) SHINOHARA, Yuta; SUZUKI, Azusa; ISHIOHARA, Shinya; SAITO, Yoshio; SAITO, Isao

1H6-50 Assessment of absorption spectra and stabilities of threoninol nucleotide "base-pairs" for the design of novel molecular beacons. (Nagoya Univ.) FUJII, Taiga; KASHIDA, Hiromu; ASANUMA, Hiroyuki

1H6-51 Development of new molecular beacon by use of homo and hetero clustering of threoninol nucleotides (Nagoya Univ.) HARA, Yuichi; FUJII, Taiga; NIWA, Kousuke; TAKASE, Tomokazu; YOSHIDA, Yasuko; LIANG, Xingguo; KASHIDA, Hiromu; ASANUMA, Hiroyuki

1H6-52 Development of highly sensitive molecular beacons by perylene-modified DNA (Nagoya Univ.) TAKATSU, Tomohiko; NIWA, Kousuke; TAKASE, Tomokazu; YOSHIDA, Yasuko; LIANG, Xingguo; KASHIDA, Hiromu; ASANUMA, Hiroyuki

1H6-53 Methylcytosine detection by using template-directed DNA photoligation (JAIST) OGINO, Masayuki; TAYA, Yuuta; FUJIMOTO, Kenzo

1H6-54 Detection of 5-methylcytosine based on the formation of branched DNA structures (Tokyo Univ. of Technol.) SATO, Kazuhisa; HATAHARA, Chiaki; KATO, Teru

Saturday, March 28, AM

Nucleic Acid

Chair: WADA, Takehiko (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(2H6-01, 2H6-02, 2H6-03, 2H6-04, 2H6-05, 2H6-06)

2H6-01 Synthesis and properties of 2'-O-cyanoethyladenosine analogs (Tokyo Institute of Technology) MASAKI, Yoshiaki; MIYASAKA, Ryuta; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo

2H6-02 Synthesis and properties of uridine derivatives incorporating coumarin residues at its 2'-hydroxyl group (Tokyo Institute of Technology) IJIMA, Yoshihiro; OEDA, Yusuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo

2H6-03 Synthesis and properties of oligonucleotides having 4-N-(pyrrole-2-yl-carbonyl)deoxycytidine (Tokyo Institute of Technology) YAMADA, Ken; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo

2H6-04 Synthesis and properties of modified oligonucleotides containing silylated pyrene derivative at the 2'-position (Graduate school of engineering, Gunma Univ.) MORIGUCHI, Tomohisa; MOGI, Mika; SHINOZUKA, Kazuo

2H6-05 Radiolytic One-Electron Reductive Ligation of Oligodeoxynucleotides Possessing a Disulfide Bond (Graduate School of Engineering, Kyoto Univ.) MATSUMOTO, Eiji; TANABE, Kazuhito; NISHIMOTO, Sei-ichi

2H6-06 Development of the Selective Cross-Linking Reagent for RNA (IMRAM, Tohoku Univ.) HORI, Tsuneaki; IMOTO, Syuhei; HAGIHARA, Shinya; NAGATSUGI, Fumi

Chair: YAMANA, Kazushige (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(2H6-08, 2H6-09, 2H6-10, 2H6-12, 2H6-13)

2H6-08 Syntheses of peptide ribonucleic acids (PRNA) that carry a phenylboronic acid moiety as an internal switch of the base's syn-anti orientation. (IMRAM, Tohoku Univ.) ENDO, Eriko; GESHI, Keiichi; SAKAMOTO, Seiji; ARAKI, Yasuyuki; INOUE, Yoshihisa; WADA, Takehiko

2H6-09 Synthesis and Complexation Behavior of Peptide Ribonucleic Acid (PRNA)-PNA Hybrid Oligomers (Graduate School of Engineering, Osaka Univ.) SAWA, Nobuya; WADA, Takehiko; YANG, Cheng; MORI, Tadashi; NIELSEN, Peter E.; INOUE, Yoshihisa

2H6-10* Gene recombination in human cell using artificial restriction DNA cutter (RCAST, The Univ. of Tokyo) KATADA, Hitoshi; CHEN, Hsuan Jung; SHIGI, Narumi; KOMIYAMA, Makoto

2H6-12 Synthesis and Complexation Behavior of a Serine Residue Introduced to Arginine-containing α Peptide Ribonucleic (IMRAM, Tohoku Univ., PRESTO/JST, ICORP/ST) ONODERA, Keiko; NISHIO, Akihiro; SAKAMOTO, Seiji; ARAKI, Yasuyuki; INOUE, Yoshihisa; WADA, Takehiko

2H6-13 Effects of a Serine Residue Introduced to Arginine-containing α -Peptide Ribonucleic Acids upon their Cell Membrane Permeability (Graduate School of Engineering, Osaka Univ., PRESTO/JST, ICORP/ST) NISHIO, Akihiro; WADA, Takehiko; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; NAKASE, Ikuhiko; FUTAKI, Shiroh; INOUE, Yoshihisa

Chair: SHINOZUKA, Kazuo (11:20~12:30)

- * 11:10-11:20: interval for laptop PC connection.(2H6-15, 2H6-16, 2H6-17, 2H6-18, 2H6-19)
- 2H6-15** Combination of Ce(III) with multiphosphonate-bearing oligonucleotide for site-selective DNA hydrolysis (RCAST, The Univ. of Tokyo) HAMANO, Yuya; AIBA, Yuichiro; TUOMAS, Lonnberg; MIYAJIMA, Yoshitaka; SUMAOKA, Jun; KOMIYAMA, Makoto
- 2H6-16** Site-selective scission of human genome using artificial restriction DNA cutter (RCAST, The Univ. of Tokyo) ITO, Kenichiro; KATADA, Hitoshi; SHIGI, Narumi; KOMIYAMA, Makoto
- 2H6-17[†]** Synthesis and property of electron donor and acceptor modified RNA (Univ of Hyogo) MAIE, Kenji; NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige
- 2H6-18** Synthesis of ferrocene conjugated nucleobase (Univ. of Hyogo) HASEGAWA, Yusuke; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 2H6-19*** Photosensitized DNA damage with several photosensitizers (The Institute of Scientific and Industrial Research, Osaka Univ.) OSAKADA, Yasuko; KAWAI, Kiyohiko; MAJIMA, Tetsuro

Saturday, March 28, PM

Chair: OZAKI, Hiroaki (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(2H6-28, 2H6-31, 2H6-32, 2H6-33)
- 2H6-28 CSJ Award for Young Chemists** Design of Functional Nucleic Acid Systems for Biomolecular Analysis (Inamori Frontier Research Center, Kyushu Univ.) SANDO, Shinsuke
- 2H6-31** Synthesis of novel oligodiaminosaccharides having α -glycoside bonds and interactions between them and oligonucleotide duplexes. (Univ. of Tokyo) IWATA, Rintaro; SUDO, Masahumi; NAGAHUJI, Kenta; WADA, Takeshi
- 2H6-32** Development of a compound promoting interstrand crosslinking reaction at abasic sites of DNA (National Institute of Advanced Industrial Science and Technology; Research Institute of Genome-Based Biofactory) ICHIKAWA, Kohei; KOJIMA, Naoshi; TAKEBAYASHI, Toshie; OHTSUKA, Eiko; KOMATSU, Yasuo
- 2H6-33** Synthesis and properties of novel fluorescent oligoDNA probe bearing bispyrene moiety linked to C-5 position of certain deoxyuridine residue (Gunma Univ.) ARAKI, Hikari; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo

Chair: ARAKAKI, Atsushi (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(2H6-35, 2H6-36, 2H6-37, 2H6-38, 2H6-39, 2H6-40)
- 2H6-35** New method for the synthesis of boranophosphate RNA (Univ. of Tokyo) MURAYAMA, Ryuji; IWAMOTO, Naoki; OKA, Natsuhisa; WADA, Takeshi
- 2H6-36** Fluorescent DNA Probe Containing Silylated Perylene Derivative Linked to C5 of 2'-deoxyuridine (Gunma Univ.) SATOU, Yuzuru; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo
- 2H6-37** Synthesis and properties of 6-N-azoyladenine derivatives (Tokyo Institute of Technology) MASAKI, Yoshiaki; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 2H6-38** Synthesis and fluorescence of new DNA molecules having a pyrene residue at the N-6 position (Tokyo Institute of Technology) SEIO, Kohji; SATOH, Yuri; TASAKI, Kaori; OHKUBO, Akihiro; SEKINE, Mitsuo
- 2H6-39** Synthesize a novel oligonucleotide bearing bipyridyl transition metal (ISIR, Osaka Univ.) ZHOU, Dayang; NAKATANI, Kazuhiko
- 2H6-40** Synthesis and evaluation of novel modified DNAs containing a formyl group. (The Institute Of Scientific And Industrial Research, Osaka Univ.) SHIBATA, Tomonori; DOHNO, Chikara; NAKATANI, Kazuhiko

Chair: MORIGUCHI, Tomohisa (15:50~16:50)

- * 15:40-15:50: interval for laptop PC connection.(2H6-42, 2H6-43, 2H6-44, 2H6-45, 2H6-46, 2H6-47)
- 2H6-42** Synthesis and application of G-G mismatch binding dimeric molecule. (The Institute of Scientific And Industrial Research, Osaka Univ.) IMAMURA, Masami; RYU, Kiyonori; DOUNO, Chikara; HAGIHARA, Masaki; NAKATANI, Kazuhiko
- 2H6-43** Synthesis of DNA-polyaniline conjugate containing modified pyrimidine residue which have aniline structure at the 5-position (Kanagawa Univ.) TODOROKI, Takehiko; ONO, Akira; OKAMOTO, Itaru
- 2H6-44** Convergent Synthesis of Triazole-Linked Analogue of DNA (Department of chemistry, Tohoku Univ.) YAMAZAKI, Naomi; FUJINO, Tomoko; ISOBE, Hiroyuki
- 2H6-45** Synthesis of Spin-labeled Oligonucleotides with High Relaxivities (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) OKAZAKI, Manami; SATO, Yuichiro; KARASAWA, Satoru; KOGA, Noboru
- 2H6-46** Synthesis and Relaxivities of Oligonucleotides Carrying Organic Spin on Base Moiety (Graduate School of Pharmaceutical Sciences, Kyushu Univ.) MASUMOTO, Chisato; TANAKA, Tomoyasu; OKAZAKI, Manami; SATO, Yuichiro; KARASAWA, Satoru; KOGA, Noboru
- 2H6-47** Site-specific ¹⁵N-labeling of RNAs (Tohoku Univ.) HARUTA, Kaichiro; IKAWA, Yoshiya; KONDO, Yoshinori; TANAKA, Yoshiyuki

Chair: TANAKA, Tsuyoshi (17:00~17:30)

- * 16:50-17:00: interval for laptop PC connection.(2H6-49, 2H6-51)
- 2H6-49*** Development of affinity labeling based on abasic site binding fluorescent molecules (Tohoku Univ.) SATO, Yusuke; NISHIZAWA, Seichi; TERAMAE, Norio
- 2H6-51** Synthesis and Hybridization Properties of Oligonucleotides Modified at Their Terminal Guanine Bases (Tohoku Institute of Technology) SEIO, Kohji; MIYAZAKI, Kazuya; KUROHAGI, Sayako; TSUNODA, Hirotsuke; OHKUBO, Akihiro; SEKINE, Mitsuo

Sunday, March 29, PM

Function

Chair: KITADE, Yukio (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(3H6-28, 3H6-29, 3H6-30, 3H6-31, 3H6-32)
- 3H6-28** Efficient method for preparing a sensitive DNA probe for photochemical ligation in click chemistry (JAIST; Innovation Plaza Ishikawa) AMI, Takehiro; MATSUZAKI, Tomoya; FUJIMOTO, Kenzo
- 3H6-29** Synthesis and evaluation of oligonucleotides incorporating photo-cross-linking nucleoside (Kyoto Institute of Technology) TAKAYA, Kazutaka; HIGUCHI, Maiko; KOBORI, Akio; YAMAYOSHI, Asako; MURAKAMI, Akira
- 3H6-30** Reversible photocrosslinking of DNA conjugates (Kumamoto Univ.) IHARA, Toshihiro; MARUYAMA, Takakazu; MUKAE, Motoko; JYO, Akinori
- 3H6-31** Synthesis of Novel Light-Responsive DNA Binders That Bear Azaquinolone-arm and Evaluation of the Binding to Their Target Sequences (The Institute Of Scientific And Industrial Research, Osaka Univ.) YAMAMOTO, Tsuyoshi; DOHNO, Chikara; NAKATANI, Kazuhiko
- 3H6-32*** Photoswitching of DNA hybridization by a naphthyridine tetramer derivatives (The Institute Of Scientific And Industrial Research, Osaka Univ.) DOHNO, Chikara; UNO, Shin-nosuke; NAKATANI, Kazuhiko

Chair: DOHNO, Chikara (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(3H6-35, 3H6-36, 3H6-38, 3H6-39, 3H6-40)
- 3H6-35** Ultrafast reversible DNA photocrosslinking via the artificial nucleoside containing carbazole derivative (JAIST) YOSHIMURA, Yoshinaga; OKADA, Hajime; OHTAKE, Tomoko; FUJIMOTO, Kenzo
- 3H6-36*** Molecular Design of photoresponsive DNA as nanomaterial? Symmetric introduction of azobenzene for complete ON-OFF photoregulation (Nagoya Univ.) LIANG, Xingguo; MOCHIZUKI, Toshio; TAKENAKA, Nobutaka; ASANUMA, Hiroyuki
- 3H6-38** Photoregulation of the opening and closing of a DNA hairpin and its application as a photoswitch of RNA digestion (Graduate school of engineering, Nagoya Univ.) MOCHIZUKI, Toshio; LIANG, Xingguo; ASANUMA, Hiroyuki
- 3H6-39** Development of the Molecular Motor with Peptide to Control of DNA Structure (IMRAM, Univ. of Tohoku) KOBAYASHI, Maiko; NAGAYA, Naoto; KUWAHARA, Syunsuke; NAGATSUGI, Fumi
- 3H6-40** Photocurrent generation by gold electrodes modified with DNA self-assembled monolayer under visible light irradiation (Kyoto Univ., Institute of Advanced Energy) TAN, Yoshio; TAINAKA, Kazuki; FUJIEDA, Nobutaka; MORII, Takashi

Chair: FUJIMOTO, Kenzo (15:50~16:50)

- * 15:40-15:50: interval for laptop PC connection.(3H6-42, 3H6-43, 3H6-44, 3H6-45, 3H6-46, 3H6-47)
- 3H6-42** Design of fluorescent DNA probes that change their pKa upon hybridization. (Nagoya Univ.) KASHIDA, Hiromu; YAMAGUCHI, Kyohei; HARA, Yuichi; ASANUMA, Hiroyuki
- 3H6-43** Formation of G-C Watson-Crick Base Pair within a Self-assembled Hydrophobic Space (Grad. School of Engineering, The Univ. of Tokyo; CREST) SAWADA, Tomohisa; FUJITA, Makoto
- 3H6-44** NanoBioNow(15) Determination of the thermodynamic parameters for stable pentaloop formation (Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) TANAKA, Yuko; KISHIMOTO, Kae; KAWAKAMI, Junji; SUGIMOTO, Naoki
- 3H6-45** NanoBioNow(16) Influence of the electrostatic interaction of cation on the structural transition of a hairpin RNA (Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) HIRAYAMA, Hidenobu; NAKANO, Shu-ichi; SUGIMOTO, Naoki
- 3H6-46** NanoBioNow(17) Engineering of the riboswitch from *Aspergillus oryzae* (FIBER, Konan Univ.; Hakutsuru Sake Brewing Co., Ltd.; Fac. of Sci. and Eng., Konan Univ.) YAMAUCHI, Takahiro; MIYOSHI, Daisuke; TOKUI, Misato; KAMIYA, Hisaya; MATSUNAGA, Masayoshi; SUGIMOTO, Naoki
- 3H6-47** Fluorescence spectra changes corresponding to duplex formation of oligodeoxyribonucleotides carrying pyrene residues. (Kanagawa Univ.) KOYAMA, Yuko; OKAMOTO, Itaru; ONO, Akira

Chair: NAGATSUGI, Fumi (17:00~18:00)

- * 16:50-17:00: interval for laptop PC connection.(3H6-49, 3H6-50, 3H6-51,

- 3H6-52, 3H6-53, 3H6-54)
3H6-49 Stabilization of DNA duplex by the introduction of "base pairs" of cationic dyes. (Nagoya Univ.) KASHIDA, Hiromu; ITO, Hidehiro; FUJII, Taiga; ASANUMA, Hiroyuki
3H6-50 NanoBioNow(21) Effects of histone mimicking peptide on thermodynamics of DNA structure (FIBER, Konan Univ.; Fac. of Sci. and Eng., Konan Univ.) MIYOSHI, Daisuke; NAKAMURA, Kaori; SANJUETA, Muhuri; SUGIMOTO, Naoki
3H6-51 Synthesis and properties of clusters of fluorescent dye arrayed along benzen-phosphate backbones (1) (Gifu Univ.) KOMATSUZAKI, Shinji; TAKASU, Keiji; KAWAI, Satoru; KITAMURA, Yoshiaki; UENO, Yoshihito; KITADE, Yukio
3H6-52 Synthesis and properties of clusters of fluorescent dye arrayed along benzene-phosphate backbones (2) (Gifu Univ.) TAKASU, Keiji; KOMATSUZAKI, Shinji; KITAMURA, Yoshiaki; UENO, Yoshihito; KITADE, Yukio
3H6-53 NMR structure of DNA duplex containing an oxanine:thymine pair (Kyoto Institute of Technology; Univ. of Kyoto Univ.) KANAORI, Kenji; MORIMOTO, Hirohisa; TAJIMA, Kunihiko; PACK, Seung Pil; MAKINO, Keisuke
3H6-54 Deamination Reaction of Guanine in Telomere G-quartets (Kyoto Institute of Technology; Univ. of Kyoto Univ.) KANAORI, Kenji; UMEKI, Shingo; TAJIMA, Kunihiko; PACK, Seung Pil; MAKINO, Keisuke

Monday, March 30, AM

Function

Chair: YAMAMOTO, Yasuhiko (9:00 ~ 10:00)

- * 8:50-9:00: interval for laptop PC connection.(4H6-01, 4H6-02, 4H6-03, 4H6-04, 4H6-06)
4H6-01 Synthesis and properties of covalently linked DNA duplexes (Kanagawa Univ.) ONO, Takashi; SAOTOME, Yuko; SAKABE, Rei; OKAMOTO, Itaru; ONO, Akira
4H6-02 Synthesis and properties of covalently linked DNA triplexes (Kanagawa Univ.) ITO, Shota; ONO, Takashi; OKAMOTO, Itaru; ONO, Akira
4H6-03 Effect of 2',4'-BNA^{NC} Modification of Triplex Forming Oligonucleotide on Pyrimidine Motif Triplex Formation (Tokyo Univ. of Science; Osaka Univ.) SASAKI, Kiyomi; RAHMAN, Abdur; IMANISHI, Takeshi; OBIKA, Satoshi; TORIGOE, Hidetaka
4H6-04* Triplex DNA recognition mechanism of yeast triplex DNA binding protein STM1 (Tokyo Univ. of Science) KATAYAMA, Takuma; TORIGOE, Hidetaka
4H6-06 Unusual stabilization of DNA triplexes by metal ions (Kumamoto Univ.) IHARA, Toshihiro; ISHII, Tatsuki; JYO, Akinori
 Chair: IHARA, Toshihiro (10:10 ~ 11:10)
 * 10:00-10:10: interval for laptop PC connection.(4H6-08, 4H6-09, 4H6-10, 4H6-11, 4H6-12)
4H6-08 NanoBioNow(18) Quantitative approach for the Coulomb interaction between Mg²⁺ and DNA phosphates (Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) KITAGAWA, Yuichi; NAKANO, Shu-ichi; SUGIMOTO, Naoki
4H6-09 NanoBioNow(19) Relationship between stability of telomere DNA structure and telomerase activity (Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) MIMURA, Kenta; YU, Hai-quing; ZHANG, Donghao; MIYOSHI, Daisuke; SUGIMOTO, Naoki
4H6-10 NanoBioNow(20) Thermodynamics of DNA G-quadruplexes depending on loop regions (Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) FUJIMOTO, Takeshi; MIYOSHI, Daisuke; KARIMATA, Hisae; SUGIMOTO, Naoki
4H6-11 DNA G-quadruplex formation induced by the interaction with a thrombin protein (Univ. of Tokyo; Grad. Sch. Front. Sci.) NAGATOISHI, Satoru; TANAKA, Yoshikazu; KUDOU, Motonori; TSUMOTO, Kouhei
4H6-12* Folding pathways of human telomeric hybrid-1 and hybrid-2 G-quadruplex structures (Kyoto Univ.) MASHIMO, Tomoko; SANNOHE, Yuta; YAGI, Hirota; SUGIYAMA, Hiroshi

Chair: TORIGOE, Hidetaka (11:20 ~ 12:20)

- * 11:10-11:20: interval for laptop PC connection.(4H6-15, 4H6-17, 4H6-18, 4H6-19, 4H6-20)
4H6-15* Formation of G-quadruplex by human telomere DNA/RNA and the application (The Univ. of Tokyo, RCAST) XU, Yan; KAMINAGA, Kuniyuki; SUZUKI, Yuta; KOMIYAMA, Makoto
4H6-17 Stabilization of G-quadruplex DNA through complexation with spermine and riboflavin (Univ. of Tsukuba) ARAI, Tamaki; TAI, Hulin; NAGATOMO, Shigenori; HEMMI, Hikaru; MITA, Hajime; YAMAMOTO, Yasuhiko
4H6-18 Cooperative Alkylation of Human Telomere Repeat Sequences by Pyrrole-Imidazole Polyamides Based on a Heterotrimeric Design (Department of Chemistry, Graduate School of Science, Kyoto Univ.) KASHIWAZAKI, Gengo; SHINOHARA, Ken-ichi; BANDO, Toshikazu; SUGIYAMA, Hiroshi
4H6-19 The orientation of the ends of human telomeric G-quadruplex structures (Kyoto Univ.; Yokohama City Univ.) SANNOHE, Yuta;

- SATO, Kyosuke; MATSUGAMI, Akimasa; SHINOHARA, Kenichi; MASHIMO, Tomoko; KATAHIRA, Masato; SUGIYAMA, Hiroshi
4H6-20 Switching Metal Ion Binding Selectivity of Duplexes Triggered by pH Change (Kanagawa Univ.) ONO, Akira; IWAMOTO, Kenji; OKAMOTO, Itaru

Monday, March 30, PM

Chair: ONO, Akira (13:30 ~ 14:40)

- * 13:20-13:30: interval for laptop PC connection.(4H6-28, 4H6-29, 4H6-31, 4H6-32, 4H6-33, 4H6-34)
4H6-28 Base Selectivity of Metal Deposition onto DNA as Template (Faculty of Science, Hokkaido Univ.) WATANABE, Yukie; TANAKA, Aya; MATSUO, Yasutaka; IJIRO, Kuniharu
4H6-29* Silver wire formation as a DNA duplex template bound to naphthalene diimide carrying reducing sugars (Kyushu Institute of Technology) OHTSUKA, Keiichi; KOMIZO, Kohei; TAKENAKA, Shigeori
4H6-31 Precise Assembly of Fe(III) and Ni(II) using Artificial DNA (Grad. School of Science, The Univ. of Tokyo; Grad. School of Science, Nagoya Univ.) KANEKO, Motoo; TAKEZAWA, Yusuke; MAEDA, Wakana; SAKURADA, Naoko; CLEVER, Guido H.; TANAKA, Kentaro; SHIONOYA, Mitsuhiro
4H6-32 DNA assisted assembly of gold nanoparticles (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) MIYOSHI, Nozomi; SHINGUBARA, Shoso; OHYA, Yuichi
4H6-33 Selective DNA Modification of Streptavidin in a nanometer scale well constructed with DNA (RCAST, The Univ. of Tokyo) NUMAJIRI, Kentaro; KUZUYA, Akinori; KOMIYAMA, Makoto
4H6-34 Construction of DNA Origami Equipped with Nanometer-Scale Wells and its Application as a Protein Nanoarray (Research Center for Advanced Science and Technology, The Univ. of Tokyo) KIMURA, Mayumi; KUZUYA, Akinori; KOMIYAMA, Makoto

Room J1

Bldg.11 1131

Biofunctional Chemistry ; Biotechnology

Friday, March 27, AM

Chair: MATSUURA, Kazunori (9:00 ~ 10:00)

- * 8:50-9:00: interval for laptop PC connection.(1J1-01, 1J1-02, 1J1-03, 1J1-04, 1J1-05, 1J1-06)
1J1-01 Synthesis of Cyclic Hexapeptide Bearing Porphyrins and Interaction with Fullerene C60 (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) MAEHARA, Hiroki; NISHINO, Norikazu; KATO, Tamaki
1J1-02 Cell-Penetration of Chlorophyll Derivatives Possessing Oligoarginine (Kinki Univ.) SAGA, Yoshitaka; SHIMOURA, Yousuke; IWAMORI, Masao
1J1-03 Synthesis of Metal-Substituted Chlorophyll Derivatives with Oligoarginine and Their Properties (Kinki Univ.) SAGA, Yoshitaka; OKAZAKI, Hiroshi; SHIMOURA, Yousuke
1J1-04 Intracellular delivery of protein conjugated with sugar-binding peptides (Keio Univ.) YAMASHITA, Miki; MATSUBARA, Teruhiko; SATO, Toshinori
1J1-05 Chemical modification of peptides to improve inhibitory activity against influenza virus infection (Keio Univ.) CHIBA, Shoko; MATSUBARA, Teruhiko; SATO, Toshinori
1J1-06 Optical Control of the Interaction of Phosphatidylinositol 3-Kinase SH3 Domain with a Photocleavable Cyclic Peptide (Nara Institute of Science and Technology (NAIST)) TAKAHASHI, Isao; KUROIWA, Shigeki; LINDFORS, H. E.; NDAMBA, L. A.; HIRUMA, Y.; OKISHIO, Nobuyuki; UBBINK, Marcellus; HIROTA, Shun

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

- * 10:00-10:10: interval for laptop PC connection.(1J1-08, 1J1-09, 1J1-10, 1J1-12, 1J1-13)
1J1-08 Fibrillization of amyloid β -peptide by novel dimerized designed peptides and cytotoxicity (Tokyo Institute of Technology) IGUCHI, Risa; TAKAHASHI, Tsuyoshi; MIHARA, Hisakazu
1J1-09 Inhibition of Amyloid β Peptide ($A\beta$) Fibrillization by IGF2R Domain Embedding the $A\beta$ Sequence (Tokyo Institute of Technology) MURAKOSHI, Yuko; TAKAHASHI, Tsuyoshi; MIHARA, Hisakazu
1J1-10* Monitoring of amyloid β peptide ($A\beta$) aggregation using fluorescent protein variants embedding the $A\beta$ sequence (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) TAKAHASHI, Tsuyoshi; OHTA, Kenichi; MIHARA, Hisakazu
1J1-12 Extremely Long Nanofibrils of Structure-Controlled-Amyloid Peptide Derived from TTR and Alignment of Functional Molecules on The Fibrils (Dept. of Chem.; Fac. of Sci.; Hokkaido Univ.) SAKAI, Hiroki;

KOBAYASHI, Yumiko; MASUDA, Takuya; CHUMAN, Yoshiro; UOSAKI, Kohei; SAKAGUCHI, Kazuyasu

- 1J1-13** Design and evaluation of an artificial model of histone using peptide-grafted polymer (Graduate school of Engineering, Kyushu Univ.) SHIOSAKI, Shujiro; KURAMOTO, Masanori; MORI, Takeshi; NIDOME, Takuro; KATAYAMA, Yoshiaki

Chair: KOBATAKE, Eiry (11:20~12:00)

- * 11:10-11:20: interval for laptop PC connection.(1J1-15, 1J1-16, 1J1-17, 1J1-18)

- 1J1-15** Functionalization of self-assembled peptide nanofibers using phage-displayed peptides (Tokyo Institute of Technology) SAWADA, Toshiki; TAKAHASHI, Tsuyoshi; MIHARA, Hisakazu

- 1J1-16** Evaluation of binding properties between mono-saccharide modified A-helix peptides and lectins. (Tokyo Institute of Technology) MAEDA, Yusuke; TAKAHASHI, Tsuyoshi; YUASA, Hideya; MIHARA, Hisakazu

- 1J1-17** Preparation of molecular assembly using peptide secondary structure (Institute of industrial science, The Univ of Tokyo) YUMOTO, Shinya; SAKAMOTO, Seiji; KUDO, Kazuaki

- 1J1-18** Interaction between C₃-symmetric basic peptide conjugates and DNA (Kyushu Univ.; PRESTO-JST) MATSUURA, Kazunori; MURASATO, Kazuya; UCHIDA, Youhei; KIMIZUKA, Nobuo

Friday, March 27, PM

Chair: IKEBUKURO, Kazunori (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(1J1-28, 1J1-29, 1J1-30, 1J1-31, 1J1-33)

- 1J1-28** The Development of Reactive Tag System for D4 Tag labeling (Department of Synthetic Chemistry and Biological Chemistry Kyoto Univ.) OJIDA, Aki; NONAKA, Hiroshi; FUJISHIMA, Shohei; UCHINOMIYA, Shohei; HAMACHI, Itaru

- 1J1-29** The Development of Reactive Tag System for His Tag labeling (Department of Synthetic Chemistry and Biological Chemistry Kyoto Univ.) UCHINOMIYA, Shohei; NONAKA, Hiroshi; FUJISHIMA, Shohei; OJIDA, Aki; HAMACHI, Itaru

- 1J1-30** Development of probes to visualize beta-actin mRNA in single living cells (Univ. of Tokyo) INAGUMA, Asumi; TAKEUCHI, Masaki; OZAWA, Takeaki

- 1J1-31*†** Development of the Bioluminescent Indicator to Visualize Production of Cyclic GMP in Living Cells (Department of Chemistry, School of Science, The Univ. of Tokyo) NAGAOKA, Yasutaka; TAKEUCHI, Masaki; OZAWA, Takeaki

- 1J1-33** Improvement of substrate specificity of FAD glucose dehydrogenase capable of direct electron transfer (Tokyo Univ. of Agric. & Technol.) HUYNH, Thi Mai Linh; YAMASHITA, Yuki; FERRI, Stefano; SODE, Koji

Chair: OKAHATA, Yoshio (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(1J1-35, 1J1-36, 1J1-37, 1J1-39)

- 1J1-35** Development of firefly luciferase with improved ATP-specificity (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) MASHIMO, Yasumasa; NAKAMURA, Makiko; SUZUKI, Shigeo; NAKATSU, Toru; MIE, Masayasu; KOBATAKE, Eiry

- 1J1-36** Construction of fluorescent and luminescent fusion proteins for analyzing Amyloid beta peptide localization and aggregation (Tokyo Institute of Technology) USUI, Kenji; MIE, Masayasu; MIHARA, Hisakazu; KOBATAKE, Eiry

- 1J1-37*** Development of novel method for cytotoxicity biosensing of amyloid forming proteins (Tokyo Univ. of Agric. & Technol.) SODE, Koji; KIM, Jihoon; MIYAGAWA, Chisato; INADA, Masaki; IKEBUKURO, Kazunori

- 1J1-39*** Cyclic Luciferase for Real-Time Imaging of Caspase-3 in Living Subjects (School of Science, The Univ. of Tokyo) KANNO, Akira; UMEZAWA, Yoshio; OZAWA, Takeaki

Chair: FUJIMOTO, Kazuhisa (15:50~16:50)

- * 15:40-15:50: interval for laptop PC connection.(1J1-42, 1J1-44, 1J1-45, 1J1-46)

- 1J1-42*** Real-time imaging of Smad interactions in living *Xenopus* embryos using multicolor luciferases (The Univ. of Tokyo) HIDA, Naoki; TAKEUCHI, Masaki; OZAWA, Takeaki

- 1J1-44** New chemistry of protein labeling and imaging 1: protein selective affinity labeling by Ugi reaction. (Kyoto Univ.) ISHIDA, Yoshiyuki; MIYAGAWA, Masayoshi; KANEKO, Naofumi; TSUKIJI, Shinya; HAMACHI, Itaru

- 1J1-45** New chemistry of protein labeling and imaging 2: Extension of protein affinity's driving force model for Ugi reaction to surface of target protein (Graduate School of Engineering, Kyoto Univ.) KANEKO, Naofumi; ISHIDA, Yoshiyuki; TSUKIJI, Shinya; HAMACHI, Itaru

- 1J1-46*** New chemistry of protein labeling and imaging 3: Labeling Proteins in Living Cells and Animals with Ligand-Directed Tosyl Chemistry (Graduate School of Engineering, Kyoto Univ.) TAMURA, Tomonori; TAKAOKA, Yousuke; MIYAGAWA, Masayoshi; TSUKIJI, Shinya; HAMACHI, Itaru

Chair: OZAWA, Takeaki (17:00~18:00)

- * 16:50-17:00: interval for laptop PC connection.(1J1-49, 1J1-50, 1J1-51, 1J1-52, 1J1-53)

- 1J1-49** Design of a high-sensitive quartz crystal microbalance with a flow system to detect small molecules such as catechins (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) YOSHIMINE, Hiroshi; FURUSAWA, Hiroyuki; KAMEI, Masanori; MIYASE, Toshio; YAMAMOTO (MAEDA), Mari; OKAHATA, Yoshio

- 1J1-50** Observation of one-base elongation on DNA polymerase reactions using a high sensitive quartz-crystal microbalance with flow system (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) KOJIMA, Taisuke; YOSHIMINE, Hiroshi; FURUSAWA, Hiroyuki; OKAHATA, Yoshio

- 1J1-51** Construction of Various Fluorophore-labeled Helical Peptides and their Interaction with Biomolecules (Faculty of Pharmaceutical Sciences, Univ. of Toyama) KAJINO, Masaaki; FUJIMOTO, Kazuhisa; INOUE, Masahiko

- 1J1-52** Photoregulation of Interaction between Diarylethene-cross-linked Peptides and DNAs (Univ. of Toyama) KAWAI, Hirokazu; FUJIMOTO, Kazuhisa; INOUE, Masahiko

- 1J1-53*** Photo-induced reaction dynamics of blue light sensing PixD proteins (Kyoto Univ., The Univ. of Tokyo., Osaka. Pref. Univ.) TANAKA, Keisuke; NAKASONE, Yusuke; OKAJIMA, Koji; IKEUCHI, Masahiko; TOKUTOMI, Satoru; TERAZIMA, Masahide

Saturday, March 28, AM

Protein Engineering

Chair: YAMAMOTO, Yasuhiko (9:00~10:10)

- * 8:50-9:00: interval for laptop PC connection.(2J1-01, 2J1-02, 2J1-03, 2J1-04, 2J1-05, 2J1-07)

- 2J1-01** Increase of *m*-aminophenol carboxylation activity in a reversible salicylic acid decarboxylase by site-directed mutagenesis (Dept. Appl. Chem., Fac. Sci. Engineer., Waseda Univ.) YANASO, Satomi; KOYAMA, Keiko; HATTORI, Takasumi; KIRIMURA, Kohtarō

- 2J1-02** Expression and characterization of germline gene A3/19 #7 clone of human antibody light chain (Applied chemistry, Oita Univ.) SAKATA, Hiroyuki; HIFUMI, Emi; UDA, Taizo

- 2J1-03** Expression and characterization of germline gene A17 #16 clone of human antibody light chain (Applied chemistry, Oita Univ.) KANDA, Masashi; HIFUMI, Emi; UDA, Taizo

- 2J1-04** Expression and characterization of germline gene A18b of human antibody light chain (Applied chemistry, Oita Univ.) IKEGAMI, Taiga; HIFUMI, Emi; UDA, Taizo

- 2J1-05*†** Reprogramming genetic code for mRNA-programmed peptoid synthesis (Graduate School of Engineering, Univ. of Tokyo; RCAST, Univ. of Tokyo) KAWAKAMI, Takashi; MURAKAMI, Hiroshi; SUGA, Hiroaki

- 2J1-07** Synthesis of site-specifically PEGylated proteins using nonnatural amino acid mutagenesis (JAIST) SHOZEN, Naoki; HOHSAKA, Takahiro

Structure and Function

Chair: NAKAMURA, Satoshi (10:20~11:20)

- * 10:10-10:20: interval for laptop PC connection.(2J1-09, 2J1-12, 2J1-13, 2J1-14)

- 2J1-09** Young Scholar Lectures of CSJ Identification of peptides by library selection for control of glycoconjugate function on cell surface (Sci. and Technol., Keio Univ.) MATSUBARA, Teruhiko

- 2J1-12** Statistical theory of peptide folding: Analysis on cis-peptide bonds (Toyoashi Univ. of Technology; Itsuno, Haraguchi Lab.) ZEN, Hei; ITSUNO, Yasuko; HARAGUCHI, Naoki; ITSUNO, Shinichi

- 2J1-13** Effect of Heme Modification on Oxygen Affinity of Myoglobin and the Equilibrium of the Acid-Alkaline Transition in Metmyoglobin (Univ. of Tsukuba) SHIBATA, Tomokazu; MIZUSEKI, Kazuya; NAGAO, Satoshi; TAI, Hulin; NAGATOMO, Shigenori; SUZUKI, Akihiro; IMAI, Kiyohiro; YAMAMOTO, Yasuhiko

- 2J1-14** Novel Methodologies for Detection of Subunit Interaction in Hemoglobin (Univ. of Tsukuba) SHIBATA, Tomokazu; NAGAO, Satoshi; TAI, Hulin; NAGATOMO, Shigenori; SUZUKI, Akihiro; YAMAMOTO, Yasuhiko

Chair: HOHSAKA, Takahiro (11:30~12:20)

- * 11:20-11:30: interval for laptop PC connection.(2J1-16, 2J1-18, 2J1-19, 2J1-20)

- 2J1-16*†** Design and functional evaluation of prenyltransferase dual inhibitors targeting active site and protein surface (ISIR, Osaka Univ.) MACHIDA, Shinnosuke; KATO, Nobuo; HARADA, Kazuo; OHKANDA, Junko

- 2J1-18*** Improvement of Alkaliphily of Hyperthermostable Xylanase from *Thermotoga maritima* with Amino Acids Substitutions (Tokyo tech. Biosci. Biotech.) TSUKIMURA, Wataru; WATANABE, Keiko; MOROKUMA, Chihiro; TAKAHASHI, Hidenori; Ihsanawati; YATSUNAMI, Rie; FUKUI, Toshiaki; KUMASAKA, Takashi; TANAKA, Nobuo; NAKAMURA, Satoshi

- 2J1-19** Construction of novel extracellular matrix protein for gene transfection

(Graduate School of Bioscience and Graduate School of Biotechnology, Tokyo Institute of Technology) BAE, Jooyoun; GOTO, Sayaka; MIE, Masayasu; KOBATAKE, Eiry

- 2J1-20** Construction novel bone and cartilage forming factor with engineered growth differentiation factor (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) KUBO, Keita; MIE, Masayasu; KOBATAKE, Eiry

Saturday, March 28, PM

Chair: KIRIMURA, Kohtarō (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(2J1-30, 2J1-32, 2J1-34, 2J1-35)
- 2J1-30*** The amyloid fibrillation of phosphorylated human tau core peptides (Kyoto Univ., Institute of advanced energy) INOUE, Masafumi; TAINAKA, Kazuki; KONNO, Takashi; MORII, Takashi
- 2J1-32*** Photo-induced reaction dynamics of LOV domains from Arabidopsis (Kyoto Univ; Chuo Univ; Osaka Prefecture Univ; Koube Univ) NAKASONE, Yusuke; EITOKU, Takeshi; ZIKIHARA, Kazunori; MATSUOKA, Daisuke; TOKUTOMI, Satoru; TERAZIMA, Masahide
- 2J1-34** Study on the production of a myoglobin dimer from its monomer (Nara Institute of Science and Technology (NAIST)) AOKI, Koji; NAGAO, Satoshi; TAKAHASHI, Isao; HIROTA, Shun
- 2J1-35** Study on carbon monoxide binding to a myoglobin dimer (Nara Institute of Science and Technology (NAIST)) YAMADA, Takuya; AOKI, Koji; NAGAO, Satoshi; HIROTA, Shun

Chair: MORI-I, Takashi (15 : 00~15 : 40)

- * 14:50-15:00: interval for laptop PC connection.(2J1-37, 2J1-38, 2J1-39, 2J1-40)
- 2J1-37** NMR Analysis of Nanotube Formation of Cyclic Hexapeptides (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) TERANISHI, Hitomi; YAMAGUCHI, Shuji; YOSHIZAKI, Mai; NISHINO, Norikazu; KATO, Tamaki
- 2J1-38** Investigation of the functional role of repeated sequences observed in α -synuclein, an amyloid protein (Tokyo Univ. of Agric. & Technol.) HARADA, Ryuichi; ABE, Koichi; KIM, Jihoon; KOBAYASHI, Natsuki; IKEBUKURO, Kazunori; SODE, Koji
- 2J1-39** Structural and functional characterization of Cu-containing Nitrite Reductase from *Propionibacterium* species, a commensal bacteria of human skin. (Dep. of Chem., Grad. of Sci., Osaka Univ.) SHIROTA, Felicia; NOJIRI, Masaki; HIRA, Daisuke; YAMAGUCHI, Kazuya; SUZUKI, Shinichiro
- 2J1-40** Structure and function of a copper-containing nitrite reductase from a marine thermophilic gram-positive bacterium, *Geobacillus kaustophilus* HTA426 (Dep. of Chem., Fac. of Sci., Osaka Univ.) FUKUDA, Yota; NOJIRI, Masaki; YAMAGUCHI, Kazuya; SUZUKI, Shinichiro

Chair: UDA, Taizo (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2J1-42, 2J1-43, 2J1-45, 2J1-46, 2J1-47)
- 2J1-42** Structural Analysis of Troponin in Regulation of Muscle Contraction by Double Quantum Coherence ESR (Tohoku Univ.; Kagawa Graduate School of Pharmaceutical Sciences, Tokushima Bunri Univ.; Biological Science Graduate School of Science, Osaka Univ.) ABE, Jun; OHBA, Yasumori; UEKI, Shoji; ARATA, Toshiaki; YAMAUCHI, Seigo
- 2J1-43*** Regulation of VEGF-A Expression by Artificial DNA-binding Proteins (Kyoto Univ.) MORI, Tomoaki; SASAKI, Jun; AOYAMA, Yasuhiro; SERA, Takashi
- 2J1-45** Inhibition of Tomato Yellow Leaf Curl Virus Replication by Artificial DNA-binding Proteins (Kyoto Univ.) DOMOTO, Fumiya; KOSHINO-KIMURA, Yoshihiro; TAKENAKA, Kosuke; AOYAMA, Yasuhiro; SERA, Takashi
- 2J1-46** Correlation between polarity of ionic liquids and solubility of cytochrome c in them (Tokyo Univ. of Agriculture & Technology) NARABE, Shouko; TAMURA, Kaori; OHNO, Hiroyuki
- 2J1-47** Identification of phosphatase PPMID inhibitors containing novel scaffold (Hokkaido Univ.; Fac. of Sci.; Dept. of Chem.) YAGI, Hiroaki; CHUMAN, Yoshiro; YOSHIMURA, Fumihiko; TANINO, Keiji; SAKAGUCHI, Kazuyasu

Chair: SERA, Takashi (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(2J1-49, 2J1-51, 2J1-52)
- 2J1-49*†** Engineering of novel extracellular matrix proteins with activity of promoting angiogenesis (Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) NAKAMURA, Makiko; YAMAGUCHI, Kumiko; MIE, Masayasu; NAKAMURA, Makoto; AKITA, Keiichi; KOBATAKE, Eiry
- 2J1-51** Observation of the key intermediates on the refolding processes of ribonuclease A and the thermodynamic stabilities (Tokai Univ.) ARAI, Kenta; KUMAKURA, Fumio; IWAOKA, Michio
- 2J1-52** Biochemical features of monoclonal antibodies (InfA series) against hemagglutinin molecule of influenza virus (Applied chemistry, Oita Univ.) FUJIMOTO, Naoko; HIFUMI, Emi; UDA, Taizo

Sunday, March 29, PM

Protein (Sensing/Imaging)

Chair: KIKUCHI, Kazuya (13 : 30~14 : 20)

- * 13:20-13:30: interval for laptop PC connection.(3J1-28, 3J1-29, 3J1-30, 3J1-31)
- 3J1-28** Bioimaging of His-tag fused protein by using a novel zinc complex (Kyoto Univ.) FUJISHIMA, Shohei; NONAKA, Hiroshi; UCHINOMIYA, Shohei; OJIDA, Akio; HAMACHI, Itaru
- 3J1-29*** New chemistries of protein labeling and imaging 4: NMR/MRI Detection of Glycosylated Proteins and Cells by 19F-Labeled Lectins (Faculty of Engineering, Kyoto Univ.) SUN, Yedi; TAKAOKA, Yousuke; TSUKIJI, Shinya; NARAZAKI, Michiko; MATSUDA, Tetsuya; HAMACHI, Itaru
- 3J1-30** New chemistry of protein labeling and imaging 5: Self-assembling turn-on 19F MRI probes for protein imaging (Kyoto Univ.) KIMINAMI, Keishi; TAKAOKA, Yousuke; TSUKIJI, Shinya; TOCHIO, Hidehito; SHIRAKAWA, Masahiro; NARAZAKI, Michiko; MATSUDA, Tetsuya; HAMACHI, Itaru
- 3J1-31*** Development of fluorescent probes for analyzing Arf GAP family proteins (The Univ. of Tokyo) HATTORI, Naoshi; TAKEUCHI, Masaki; OZAWA, Takeaki

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

- * 14:20-14:30: interval for laptop PC connection.(3J1-34, 3J1-35, 3J1-36, 3J1-37, 3J1-39)
- 3J1-34** Design and Synthesis of External Stimuli Responsible Split-GFP for Fluorescence Detection System (IMRAM, Tohoku Univ.) TERAUCHI, Mika; SAKAMOTO, Seiji; ARAKI, Yasuyuki; WADA, Takehiko
- 3J1-35** Development of a ¹⁹F MRI Probe to Detect β -Lactamase Activity For Imaging gene expression (Engineering, Osaka Univ) MATSUSHITA, Hisashi; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 3J1-36** Distance dependence of paramagnetic effect of metal ions in ¹⁹F NMR (Graduate School of Engineering, Osaka Univ.) TSUJI, Shintaro; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 3J1-37*** Real-time imaging of inositol tetrakisphosphate dynamics in cells by fluorescent biosensors (Institute of Advanced Energy, Kyoto Univ.) SAKAGUCHI, Reiko; KIYONAKA, Shigeki; TAINAKA, Kazuki; MORI, Yasuo; MORII, Takashi
- 3J1-39** Unprecedented Design of Non-FRET type Biosensors Based on Circularly Permuted GFP (Inst. Adv. Energy., Pion. Res. Unit Next Gen., Kyoto Univ.) FUJIEDA, Nobutaka; YAMAMOTO, Seigo; ENDOH, Takashi; SAKAGUCHI, Reiko; TAINAKA, Kazuki; MORII, Takashi

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

- * 15:30-15:40: interval for laptop PC connection.(3J1-41, 3J1-42, 3J1-43, 3J1-44, 3J1-45)
- 3J1-41[†]** Synthesis of doubly fluorescent-labeled proteins by using nonnatural amino acid mutagenesis and its application to FRET analysis. (JAIST; School of Materials Science) EGUSA, Tadayoshi; HOHSAKA, Takahiro
- 3J1-42** Site-specific incorporation of fluorescent nonnatural amino acids into C-terminus of proteins (JAIST) TOKUDA, Yasunori; SHIRAGA, Kaori; HOHSAKA, Takahiro
- 3J1-43** Influence of the surrounding amino acid sequence on incorporation of fluorescent non-natural amino acids into proteins (JAIST) HORII, Mikiko; SHIRAGA, Kaori; HOHSAKA, Takahiro
- 3J1-44** Monitoring of Biological Processes Using Multiple Resonance NMR: Turn-On Sensing of Metabolic Events with Signal Switching Probe (Kyoto Univ.) MIZUSAWA, Keigo; UEHIRA, Kosei; SANDO, Shinsuke; AOYAMA, Yasuhiro; IGARASHI, Ryuji; TOCHIO, Hidehito; SHIRAKAWA, Masahiro
- 3J1-45*** Development of novel protein imaging tools towards sensing biology (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) TSUTSUMI, Hiroshi; ABE, Seiichiro; MINO, Tomoaki; NOMURA, Waratu; TAMAMURA, Hirokazu

Chair: SANDO, Shinsuke (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(3J1-48, 3J1-50, 3J1-51, 3J1-52)
- 3J1-48*** An Enhanced Anomalous-reflection-QCM with a Modified Au electrode (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) KAWASAKI, Takayoshi; OKAHATA, Yoshio
- 3J1-50** Kinetic analyses of hydrolysis reaction of protease using the anomalous-reflection-QCM (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) TANAKA, Chikako; MANAKA, Yuichi; KAWASAKI, Takayoshi; KATO, Tadashi; OKAHATA, Yoshio
- 3J1-51** Characterizations of DNA hydration and enzyme reaction of DNA polymerase using the anomalous-reflection-QCM (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) MITUSGI, Junjo; KAWASAKI, Takayoshi; MANAKA, Yuichi; KAJIKAWA, Kotaro; OKAHATA, Yoshio
- 3J1-52*** FRET analysis of structural changes of protein containing two nonnatural amino acids labeled with fluorophore and quencher (JAIST) IJIMA, Issai; HOHSAKA, Takahiro

Monday, March 30, AM

protein(structure function)

Chair: KANO, Koji (9:00 ~ 10:00)

* 8:50-9:00: interval for laptop PC connection.(4J1-01, 4J1-02, 4J1-03, 4J1-05, 4J1-06)

- 4J1-01** *Meso* ¹³C Probe for Elucidation of Electronic Structure of Heme Protein: a Case of Myoglobin (School of Medicine, Toho Univ.; Graduate School of Pharmaceutical Sciences, Chiba Univ.) IKEZAKI, Akira; NEYA, Saburo; SUZUKI, Masaaki; HOSHINO, Tyuji; NAKAMURA, Mikio
- 4J1-02** Liposome could control amyloid fibril formation (Facil.Chem.Eng. Sci., Grad.Schl.Eng.Sci., Osaka Univ.) SHIMANOCHI, Toshinori; NISHIYAMA, Keiichi; SHIMAUCHI, Naoya; UMAKOSHI, Hiroshi; KUBOI, Ryoichi
- 4J1-03*** Comparison of biophysical properties and behavior of proteins in aqueous solutions vibrated with quartz-crystal microbalance. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) FURUSAWA, Hiroyuki; OZEKI, Tomomitsu; MORITA, Mizuki; OKAHATA, Yoshio
- 4J1-05** Observation of biophysical changes on formation of a translation initiation complex using an admittance analysis of a Quartz-crystal microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) TSUYUKI, Yumi; TAKAHASHI, Shuntaro; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 4J1-06** Observations of translation elongation processes from translation initiation complex immobilized on Quartz-crystal Microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) HONDA, Tomoko; TAKAHASHI, Shuntaro; FURUSAWA, Hiroyuki; SHIMIZU, Yoshihiro; UEDA, Takuya; OKAHATA, Yoshio

Chair: OKAHATA, Yoshio (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(4J1-08, 4J1-09, 4J1-10, 4J1-11, 4J1-12, 4J1-13)

- 4J1-08** Studies on the structure and amyloid fibrillation of cytochrome *c* oligomers (Nara Institute of Science and Technology (NAIST)) HATTORI, Yoko; TAKAHASHI, Isao; NAGAO, Satoshi; HIROTA, Shun
- 4J1-09** Structure and Activity of HDAC Inhibitors containing Glycine (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) ISHII, Hiroyuki; KATO, Tamaki; NISHINO, Norikazu
- 4J1-10** Construction of oxygen storage polymers which have a myoglobin model complex in their side-chains (Doshisha Univ.) OKUNAKA, Sayuri; KITAGISHI, Hiroaki; KANO, Koji
- 4J1-11** Thermostabilization of Protein by Water-Miscible Ionic Liquid (Tokyo Metropolitan Univ.) NORITOMI, Hidetaka; MINAMISAWA, Ken; KAMIYA, Reo; KATO, Satoru
- 4J1-12** Role of N-terminal additional domain found in haloarchaeal ferredoxin under hyper-saline conditions (Tokyo Tech) HADA, Hiroki; HIROTA, Naoki; MATSUO, Takatoshi; IKEDA, Akiko; YATSUNAMI, Rie; FUKUI, Toshiaki; NAKAMURA, Satoshi
- 4J1-13** Stabilization of Oxy-Tyrosinase by Site-Directed Mutagenesis of Cys92 Existing near the Enzyme Active Site. (Graduate school of science, Osaka city university; Graduate school of engineering, Osaka university) MURATA, Michiaki; ITOH, Shinobu

Chair: TAKEDA, Naoya (11:20~12:40)

* 11:10-11:20: interval for laptop PC connection.(4J1-15, 4J1-16, 4J1-17, 4J1-18, 4J1-19, 4J1-20, 4J1-21)

- 4J1-15** Control of the stability of novel heme Fe-N-terminal amino group coordination bond in denatured cytochrome *c* (Univ. of Tsukuba) WATANABE, Naoki; TAI, Hulin; MIKAMI, Shinichi; IRIE, Kiyofumi; NAGATOMO, Shigenori; YAMAMOTO, Yasuhiko; MUNEGUMI, Toratane
- 4J1-16** Molecular mechanisms responsible for entropic contribution to the control of redox potential of cytochrome *c* (Univ. of Tsukuba) MIKAMI, Shin'ichi; IRIE, Kiyofumi; TAI, Hulin; NAGATOMO, Shigenori; YAMAMOTO, Yasuhiko
- 4J1-17** Synthesis and structure analysis of (D-Pro-D-Pro-Gly)_n. (Graduate School of Life Science and Systems Engineering, Kyusyu Institute of Technology) KANYAMA, Takahide; Sonu Ram, Shankar; KATO, Tamaki; NISHINO, Norikazu
- 4J1-18** Site directed mutagenesis study on the residues responsible for the electron acceptor availability of fructosyl amino acid oxidase (FAOD) (Tokyo Univ. Agric. and Technol.) KIM, Seungsu; NIBE, Eri; FERRI, Stefano; TSUGAWA, Wakako; SODE, Koji
- 4J1-19[†]** Structural study of glycosylated EGF12 on mouse Notch-1 receptor (Grad. Sch. of Life Sci., Hokkaido Univ.) HOSOGUCHI, Kensaku; HIRUMA, Kazumi; FUJITANI, Naoki; HINO, Hiroshi; NISHIMURA, Shin-ichiro
- 4J1-20** A Study on the Cis Conformation of Peptide Bonds (Univ. of Tokyo) TAIRA, Shunichi; KANENO, Daisuke; TOMODA, Syuji
- 4J1-21*** Gene Cloning and Characterization of a Flavin Reductase from a Thermophilic Dibenzo[thiophene]-Desulfurizing Bacterium (Dept. Appl. Chem., Fac. Sci. Engineer., Waseda Univ.) TAKAHASHI, Shusuke;

TSURU, Keitaro; FURUYA, Toshiki; ISHII, Yoshitaka; KIRIMURA, Kohtaro

Room J2
Bldg.11 1132

Biofunctional Chemistry ; Biotechnology

Friday, March 27, AM

Chair: MURAKAMI, Yuji (9:00 ~ 10:00)

* 8:50-9:00: interval for laptop PC connection.(1J2-01, 1J2-03, 1J2-05, 1J2-06)

- 1J2-01*** Laminar flow-assisted dendritic amplification: a new signal amplification method for microchips and its application to DNA sensors (RIKEN) HOSOKAWA, Kazuo; SATO, Takahiro; SATO, Yasunobu; MAEDA, Mizuo
- 1J2-03*[†]** Microchip affinity electrophoresis for determination of protein kinase activity (RIKEN Bioengineering Laboratory) HAN, Aishan; HOSOKAWA, Kazuo; MAEDA, Mizuo
- 1J2-05** Development of rapid microfluidic PCR device system for GM detection (Osaka Univ.; National Food Research Institute; Industrial Research Institute of Ishikawa) SAITO, Masato; FURUI, Satoshi; YONEZAWA, Yuji; NAKANO, Kouichi; TAMIYA, Eiichi
- 1J2-06[#]** An interference Localized Surface Plasmon Resonance (iLSPR) biosensor based on the photonic structure of Au nanoparticles and SiO₂/Si multilayers (JAIST; Osaka Univ.) HIEP, Ha Minh; YOSHIKAWA, Hiroyuki; SAITO, Masato; TAMIYA, Eiichi

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

* 10:00-10:10: interval for laptop PC connection.(1J2-08, 1J2-10, 1J2-12)

- 1J2-08*** Development of Artificial-enzyme gel membrane-based biosurveillance sensor (Department of Biological Functions and Engineering Kyushu Institute of Technology) IKENO, Shinya; HARUYAMA, Tetsuya
- 1J2-10*[†]** Bioluminescent Indicator for determining Protein-Protein Interactions Using Intramolecular Complementation of Split Click Beetle Luciferase (AIST) KIM, Sung Bae; TAO, Hiroaki
- 1J2-12*[†]** An integrated-molecule-format multicolor probe for monitoring multiple activities of a bioactive small molecule (AIST) KIM, Sung Bae; TAO, Hiroaki

Chair: IKENO, Shinya (11:20~12:10)

* 11:10-11:20: interval for laptop PC connection.(1J2-15, 1J2-16, 1J2-18)

- 1J2-15** Development of an indwelling thin enzyme electrode in the oral cavity (Research Institute of Integrated Sciences for Nanodevice and Bio Systems, Hiroshima Univ.) MURAKAMI, Yuji; KUNIMASA, Takunari; SHIBATA, Kazuaki; TAKEUCHI, Tsuyoshi; NODA, Tomohide; ISHIKAWA, Tomohiro; TSUGA, Kazuhiro; KURODA, Akio
- 1J2-16*[†]** DNA duplex interaction of naphthalene diimide carrying β cyclodextrin and ferrocene units (Kyushu Institute of Technology) WATANABE, Sadayoshi; OHTSUKA, Keiichi; SATO, Shinobu; TAKENAKA, Shigeori
- 1J2-18*** Discrimination of methylated and unmethylated genes using ferrocenyl naphthalene diimide-based electrochemical hybridization assay (Kyushu Inst. Tech.) SATO, Shinobu; TSUEDA, Masato; KANEZAKI, Yusuke; OHTSUKA, Keiichi; TAKENAKA, Shigeori

Friday, March 27, PM

Chair: HASHIZUME, Mineo (13:20~14:20)

* 13:10-13:20: interval for laptop PC connection.(1J2-27, 1J2-28, 1J2-29, 1J2-31, 1J2-32)

- 1J2-27** Development of EGFR-binding peptides by using multi-component fluorescent tag method (1)-establishment of protocol for quest for the peptides (Graduate School of Natural Science and Technology, Okayama Univ.) INOUE, Keisuke; KISHIMOTO, Yoshiko; KUROIWA, Hiroyuki; HUKUDA, Takayuki; HUTAMI, Midori; KITAMATSU, Mizuki; SHISHIDO, Masahiko
- 1J2-28** Development of EGFR-binding peptides by using multi-component fluorescent tag method (2)-detection of EGFR-binding peptides- (Graduate School of Natural Science and Technology, Okayama Univ.) YAMAMOTO, Takahiro; KISHIMOTO, Yoshiko; KUROIWA, Hiroyuki; HUKUDA, Takahiko; KITAMATSU, Mizuki; SHISHIDO, Masahiko
- 1J2-29*** Development of EGFR-binding peptides by using multi-component fluorescent tag method (3)-direct screening of the peptide binding to A431 that express high level of EGFR- (Graduate School of Natural Science and Technology, Okayama Univ) FUKUDA, Takayuki; FUTAMI, Midori; KUROIWA, Hiroyuki; KITAMATSU, Mizuki; SISIDO, Masahiko
- 1J2-31** Development of easy, rapid and high sensitivity screening for methicillin-resistant *Staphylococcus aureus* using immunomagnetic beads in a microfluidic device (Graduate School of Engineering, Nagoya Univ.) KAWAKAMI, Ayako; OKAMOTO, Yukihiko; KAJI, Noritada; YAMADA, Keiko; TOKESHI, Manabu; OHTA, Michio; BABA, Yoshinobu

1J2-32 Expression of monoclonal antibody InfA-15 light chain against hemagglutinin molecule of influenza virus (Applied chemistry, Oita Univ.)
YAHIRO, Taka-aki; HIFUMI, Emi

Chair: KITAMATSU, Mizuki (14 : 30~15 : 40)

* 14:20-14:30: interval for laptop PC connection.(1J2-34, 1J2-35, 1J2-36, 1J2-37, 1J2-39, 1J2-40)

1J2-34 Hydroxyapatite Deposition on Polystyrene Surfaces Mediated by Serum Protein Layers under Body Fluid Conditions (Tokyo Univ. of Science; Univ. of Tokyo) SAKAMOTO, Yuri; HASHIZUME, Mineo; MATSUNO, Hisao; SERIZAWA, Takeshi

1J2-35 Hydroxyapatite Deposition on Polysaccharide-modified Polytetrafluoroethylene Surfaces under Body Fluid Conditions (Tokyo Univ. of Science) KAWAKUBO, Hideharu; HASHIZUME, Mineo

1J2-36 Preparation of Phosphorylcholine-conjugated Polyrotaxane and its Interaction with Biogenic Substances (Japan Advanced Institute of Science and Technology, Univ. of Tokyo, JST, CREST) AOKI, Nobuhiro; KATOONO, Ryo; YAMAGUCHI, Jun; YAMASHITA, Atsushi; YUI, Nobuhiko; KONNO, Tomohiro; ISHIHARA, Kazuhiko

1J2-37* Effect of gamma-irradiation on the molecular weight of fibrous proteins (Grad. Sch. Sci., Osaka Prefecture Univ.; NTNU) KOSHIMIZU, Naoki; YOSHIDA, Mayumi; CHRISTENSEN, Bjorn; MORI, Hideki; HARA, Masayuki

1J2-39 Evaluation of cytotoxic effects induced by photosensitization on murin neural stem cells (Grad. Sch. Sci., Osaka Prefecture Univ.) MORI, Hideki; IMAMOTO, Rie; HARA, Masayuki

1J2-40 Application of the modified silica nanoparticles with biodegradable polymers containing fluorinated fluorophores for multimodal imaging probes (Kyoto Univ.) KITAMURA, Narufumi; TANAKA, Kazuo; CHUJO, Yoshiki

Chair: MORI, Hideki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1J2-42, 1J2-43, 1J2-44, 1J2-45, 1J2-46, 1J2-47)

1J2-42 Direct and short-time uptake of [70] fullerene into the cell membrane using an exchange reaction and resulting photodynamic activity (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST); Graduate School of Biological Science, NAIST) MATSUMOTO, Masashi; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi; OGAWA, Takuya; TAKEYA, Tatsuo

1J2-43 Preparation of lipid membrane incorporated C₆₀ and determination of location of C₆₀ in lipid bilayer membrane (Graduate School of Materials Science, Nara Institute of Science and Technology) SHIGEMATSU, Tamami; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi; HASHIZUME, Mineo; OGAWA, Takuya; TAKEYA, Tatsuo

1J2-44 Time-Resolved Circular Dichroism Study by Laser Irradiation in DNA-Cationic Porphyrin Complex (IMRAM Tohoku Univ.) MURAKAMI, Makoto; ARAKI, Yasuyuki; SAKAMOTO, Seiji; WADA, Takehiko

1J2-45 Dissection of the interaction between Transducer of ErbB2,1 (TOB1) and CNOT7 (Grad. Schl. of Front. Sci, The Univ. of Tokyo) WATANABE, Masato; KUDOU, Motonori; TANAKA, Yoshikazu; YAMAMOTO, Tadashi; TSUMOTO, Kouhei

1J2-46 Development of single template amplification and product immobilization with single bead trap array (Tokyo Univ. Agri. Tech.; Waseda Univ.; Hitachi Ltd.) OKAMURA, Yoshiko; WATANABE, Yuka; TAKEYAMA, Haruko; SHIRAI, Masataka; KAJIYAMA, Tomoharu; KAMBARA, Hideki; MUTSUNAGA, Tadashi

1J2-47 Efficient gene transport into living cells by impact of giant droplets (Graduate School of Science and Engineering, Division of Life Science Saitama Univ.) KOIKE, Kanako; IKEMOTO, Kazuto; SAKAHARA, Satoshi; SAKAI, Takafumi

Chair: OKAMURA, Yoshiko (17 : 00~17 : 50)

* 16:50-17:00: interval for laptop PC connection.(1J2-49, 1J2-51, 1J2-52, 1J2-53)

1J2-49* High stable carbohydrate conjugated quantum dots library for live cell imaging (Grad. Sch. of Life Sci., Hokkaido Univ.) OHYANAGI, Tatsuya; NAGAHORI, Noriko; SHIMAWAKI, Ken; SASAKI, Akira; KINJYO, Masataka; NISHIMURA, Shin-ichiro

1J2-51 Development of fluorescent fused protein for measurement of in vivo redox state (Dep. of Biomolecular Eng., Kyoto Inst. of Tech) IHARA, Yutaka; KITADOKORO, Kengo; KARATANI, Hajime

1J2-52 Non-linear fluorescent space-time analysis of E.coli colony emitting blue fluorescence (Dep. of Biomolecular Eng., Kyoto Inst. of Tech) SHISHIMOTO, Shota; KITADOKORO, Kengo; KARATANI, Hajime

1J2-53 Characterization of bacterial fluorescent protein and its application to live cell (Dep. of Biomolecular Eng., Kyoto Inst. of Tech) KARATANI, Hajime; IHARA, Yutaka; SHISHIMOTO, Shota; KITADOKORO, Kengo

Saturday, March 28, AM

Sugar

Chair: TOTANI, Kiichiro (9 : 20 ~10 : 10)

* 9:10-9:20: interval for laptop PC connection.(2J2-03, 2J2-04, 2J2-05, 2J2-06)

2J2-03 R & D on Phosha Sugar Anti-cancer Agents (Graduate School of Science and Technology, Graduate School of Engineering) YAMASHITA, Junko; YAMASHITA, Mitsuji; ASAI, Kazuhide; YAMADA, Manabu

2J2-04 Regulation of Glycan Biosynthetic Mechanism by Glycomimics (Grad. Sch. of Life Sci., Hokkaido Univ.) HYUGAJI, Satoshi; HATO, Megumi; AMANO, Maho; FENG, Fei; MIURA, Yoshiaki; SHINOHARA, Yasuro; HINO, Hiroshi; NISHIMURA, Shin-ichiro

2J2-05 Synthetic study of fucosyl-chitobiose derivative (Saitama Univ., Faculty of Engineering, Department of Functional Materials Science) YAMAGUCHI, Hiroki; KOUHZU, Tatsuya; HAKUMURA, Takashi; KOYAMA, Tetsuo; HATANO, Ken; TERUNUMA, Daiyo; MATSUOKA, Koji

2J2-06* Syntheses of fluorescence-labeled amylase substrates and their evaluations (Graduate School of Science and Engineering, Saitama Univ., Scientific Investigation Lab., Fukushima Prefectural Police HQ) OKA, Hiroyuki; HATANO, Ken; TERUNUMA, Daiyo; MATSUOKA, Koji

Chair: YUASA, Hideya (10 : 20~11 : 10)

* 10:10-10:20: interval for laptop PC connection.(2J2-09, 2J2-10, 2J2-12)

2J2-09 The synthesis and biological properties of multivalent trehalose and other glycopolymers (School of Material Science, Japan Advanced Institute of Science and Technology) MIYAZAWA, Yuta; WADA, Masaya; MIURA, Yoshiko

2J2-10* Preparation and interaction analyses on the Dendritic-sugar immobilized substrate (JAIST) FUKUDA, Tomohiro; ONOGI, Shunsuke; MATSUMOTO, Erino; MIURA, Yoshiko

2J2-12* Analysis of the Substrate Specificity of UGGT Using UDP-glucose analogs and Estimation of Cleavabilities of the Glucosylated Products by ER Glucosidase II (RIKEN) MIYAGAWA, Atsushi; TOTANI, Kiichiro; MATSUO, Ichiro; ITO, Yukishige

Chair: MATSUOKA, Koji (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2J2-15, 2J2-17, 2J2-18, 2J2-19)

2J2-15* Interaction of glycosaminoglycan mimic polymers with amyloid b peptide (School of Materials Science, Japan Advanced Institute of Science and Technology) MIURA, Yoshiko; MIZUNO, Hikaru

2J2-17 Study of an Inhibitor of ppGalNAcTs (Grad. Sch. of Life Sci., Hokkaido Univ.) ABE, Hiroki; HINO, Hiroshi; FURUKAWA, Jun-ichi; MAEDA, Takahiro; HOSOGUCHI, Kensaku; NISHIMURA, Shin-ichiro

2J2-18 Properties of ER Glucosidase II under Molecular Crowding Conditions (Department of Materials and Life Science, SEIKEI Univ.; RIKEN) MATSUSHIMA, Hikaru; ITO, Yukishige; TOTANI, Kiichiro

2J2-19* On the mechanism of glucosidase II inhibition by bromoconduritol (RIKEN) TAKEDA, Yoichi; TOTANI, Kiichiro; MATSUO, Ichiro; ITO, Yukishige

Saturday, March 28, PM

Chair: MIURA, Yoshiko (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2J2-28, 2J2-29, 2J2-30, 2J2-31, 2J2-32, 2J2-33)

2J2-28 Synthesis of Heparan Sulfate Partial Disaccharide Structure Containing Iduronic Acid (Graduate School of Science and Engineering, Kagoshima Univ.) WAKAO, Masahiro; HARUYAMA, Mami; OHISHI, Koh; SAITO, Akihiro; MITSUSHITA, Noriko; SUDA, Yasuo

2J2-29* Efficient Method for the Preparation of Uronic Acid Moiety toward the Syntheses of Heparan Sulfate Partial Structures (Graduate School of Science and Engineering, Kagoshima Univ.) SAITO, Akihiro; DEGUCHI, Hiroshi; MAWATARI, Aya; WAKAO, Masahiro; SUDA, Yasuo

2J2-30 Preparation of the Biosynthetic Intermediate of Heparan Sulfate (Graduate School of Science and Engineering, Kagoshima Univ.) YAMAGUCHI, Yuzo; SATO, Masaki; WAKAO, Masahiro; SUDA, Yasuo

2J2-31 Reaction analysis of Chondroitin Polymerase using a Quartz-crystal-Microbalance. (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; Inst. for Mol. Sci. and Med, Aichi Med. Univ.; JST-SENTAN; JST-PRESTO) KODERA, Takayuki; SUGIURA, Nobuo; KIMATA, Koji; MORI, Toshiaki; OKAHATA, Yoshio

2J2-32 Analysis of glycosylations catalyzed by dextran sucrose using an AFM (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) ASAKURA, Megumi; MORI, Toshiaki; OKAHATA, Yoshio

2J2-33 Syntheses of Glycoclusters Using Siloxane Scaffolds (Saitama Univ., Faculty of Engineering, Depart of Functional Materials Science) HOSHINA, Yusuke; HATANO, Ken; KOYAMA, Tetsuo; MATSUOKA, Koji; TERUNUMA, Daiyo

Chair: MATSUURA, Kazunori (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2J2-35, 2J2-36, 2J2-37, 2J2-38, 2J2-39, 2J2-40)
- 2J2-35** A study of a hinge sugar polymer whose conformation is controllable (Dept. Life Science, Graduate School of Tokyo Tech) TAGO, Akane; CAO, Cxianzi; YUASA, Hideya; SEKIGUCHI, Hiroshi; IKAI, Astushi
- 2J2-36** Production of therapeutic Glycoprotein in Insect Cell (Hokkaido Univ. Graduate School of Life Science) FUJIIHARA, Haruhiko
- 2J2-37** Solid phase glycopeptide synthesis using Si protecting group (Grad. Sch.of Life Sci.,Hokkaido Univ.) KAWASAKI, Kei; SHIMAWAKI, Ken; HINO, Hiroshi; NISHIMURA, Shin-ichiro
- 2J2-38** Construction of an Oligosaccharide Library by Cells (45) Synthesis of proteoglycan by a Xylose-Linked Saccharide Primer (Keio Univ.) KUMAZAWA, Tomoaki; OSUMI, Kenji; MIZUNO, Mamoru; SATO, Toshinori
- 2J2-39** Analysis of N-Glycan processing under ER stress conditions caused by diabetes. (Department of Materials and Life Science, Seikei Univ.;RIKEN) IWAMOTO, Shogo; ITO, Yukishige; TOTANI, Kiichiro
- 2J2-40** Understanding of Alzheimer's disease by N-linked glycan processing in ER (Department of Materials and Life Science,Seikei Univ.; RIKEN) TADA, Miho; ITO, Yukishige; TOTANI, Kiichiro

Chair: SATO, Toshinori (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(2J2-42, 2J2-43, 2J2-44, 2J2-45, 2J2-46)
- 2J2-42** Syntheses of Chondroitin Sulfate Disaccharide Structures and Their Application to Sugar Chips (Graduate School of Science and Engineering, Kagoshima Univ.) OBATA, Rumi; SAKAMI, Chiho; KONDO, Takao; MITSUSHITA, Noriko; WAKAO, Masahiro; SUDA, Yasuo
- 2J2-43** Synthesis of Mucin-type Core 3 Structure and Its Application to Sugar Chips (Graduate School of Science and Engineering, Kagoshima Univ.) WAKAO, Masahiro; MIYAHARA, Tsukasa; HASHIGUCHI, Hironori; SUDA, Yasuo
- 2J2-44** Importance of multiple display of oligosaccharides in sugar-dependent nuclear import (Hokkaido Univ.) SEKIGUCHI, Shota; NIKURA, Kenichi; NISHIO, Takashi; MATSUO, Yasutaka; IJIRO, Kuniharu
- 2J2-45** Preparation of Sugar Chain-Immobilized Magnetic Nanoparticles using Au-Fe as core materials (Graduate School of Science and Engineering, Kagoshima Univ.) WAKAO, Masahiro; TANAKA, Sayori; SHIMOGAMA, Hiromi; SUDA, Yasuo
- 2J2-46** Development of an analytical method for glycan-protein interaction using glycosylated magnetic beads (Department of Materials and Life Science Seikei Univ. ; RIKEN) KURATA, Shino; ITO, Yukishige; TOTANI, Kiichiro

Chair: WAKAO, Masahiro (16 : 50~17 : 30)

- * 16:40-16:50: interval for laptop PC connection.(2J2-48, 2J2-49, 2J2-50, 2J2-51)
- 2J2-48** A Facile Latex Agglutination Lectin Assay for Weakly Binding Ligands (Graduate School of Biosci. and Biotechnol., Tokyo Inst. of Tech.; Graduate School of Agricultural Science., Kobe Univ.) ITAGAKI, Tomoyuki; YUASA, Hideya; UMEKAWA, Nao; OSAWA, Ro
- 2J2-49** Evaluation of lectin-binding ability of synthetic mannoses by latex beads assay (Graduate school of Biosci. and Biotechnol.,Tokyo Inst. of Tech.) OGAWA, Daisuke; ITAGAKI, Tomoyuki; KUBOTA, Daijirou; HARAGUCHI, Tsuyoshi; MITSUHASHI, Nobuyuki; YUASA, Hideya
- 2J2-50** Interaction between polysialic acid and fluorescence rareearth complexes (Kyushu Univ.; PRESTO-JST) KASHINO, Tsubasa; TAO, Shuichi; MATSUURA, Kazunori; KIMIZUKA, Nobuo
- 2J2-51** NanoLC/MS analysis of sugar chains using bis(terpyridine)ruthenium (II) labeling reagent (Osaka Univ. Graduate School of Science) HANAZAKI, Tomoaki; OKAMURA, Taka-aki; YAMAMOTO, Hitoshi; ONITSUKA, Kiyotaka

Sunday, March 29, AM

Chair: MIZUKAMI, Shin (9 : 00 ~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(3J2-01, 3J2-02, 3J2-04)
- 3J2-01** Application of GK Knock-out mice for diabetes model mice (Department of Biotechnology and Life Science Tokyo Univ. of Agriculture and Technology) AMAKUSA, Yuki; MATSUOKA, Hideaki; SAITO, Mikako
- 3J2-02*** Evaluation of diabetes model cells (Department of Biotechnology and Life Science,Tokyo Univ. of Agriculture and Technology) SAITO, Mikako; AMAKUSA, Yuki; KAERIYAMA, Tsukasa; INAGAKI, Hiromi; SHIGETO, Hajime; MATSUOKA, Hideaki
- 3J2-04** Correlation between the direction of slight flow generated in the collagen gel and the neurite orientation in the three dimensional gel culture system (ASMw, Waseda Univ.) UCHIDA, Yuto; UEHARA, Jun; MATSUMURA, Kazunari; EDAGAWA, Yoshikuni; TAKEDA, Naoya

Sunday, March 29, PM

Chair: TAKEDA, Naoya (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(3J2-23, 3J2-24, 3J2-25,

3J2-26, 3J2-28)

- 3J2-23** Gene analysis associated with the generation of the spermine induced multilayer muscle fiber sheet. (Department of Biotechnology and Life science, Tokyo Univ. of Agriculture and Technology) SEKI, Motohiro; MATSUOKA, Hideaki; SAITO, Mikako
- 3J2-24** Evaluation of anti-angiogenic activity on adhesive peptide obtained by peptide informatics (Department of Biotechnology, School of Engineering, Nagoya Univ.) SUGAWARA, Takeshi; KAGA, Chiaki; KATO, Ryuji; OKOCHI, Mina; HONDA, Hiroyuki
- 3J2-25** Examination of novel cell transplantation treatment for diabetes mouse (Department of Biotechnology and Life Science ,Tokyo Univ. of Agriculture and Technology) SHIGETO, Hajime; AMAKUSA, Yuki; MATSUOKA, Hideaki; SAITOH, Mikako
- 3J2-26*** Morphological Transformation of Protein Nano-films on Cell Surface and Cellular Lamination (Graduate School of Eng., Osaka Univ.) MATSUSAKI, Michiya; KADOWAKI, Koji; AKASHI, Mitsuru
- 3J2-28** Injectoassay for chemical stress compounds. (Dept. Biotechnology and Life Science, Tokyo Univ. of Agriculture and Technology) OGINO, Shiho; SAITO, Mikako; MATSUOKA, Hideaki

Chair: SAITO, Mikako (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(3J2-30, 3J2-31, 3J2-32, 3J2-34)
- 3J2-30** Single cell RT-PCR analysis using a magnetic force-based lab-on-a-chip (Department of Biotechnology, School of Engineering, Nagoya Univ.) KUMAZAWA, Fumitaka; OKOCHI, Mina; TSUCHIYA, Hiroyoshi; SHIKIDA, Mitsuhiro; HONDA, Hiroyuki
- 3J2-31** Analysis of mRNA binding to immobilized molecular beacon (RICE/AIST, Dept. Biotechnol. & Life Sci. Tokyo Univ. of Agric. & Technol.) KITAGAWA, Taro; NAKAMURA, Chikashi; KIHARA, Takanori; NAKAMURA, Noriyuki; YOSHIDA, Narutoshi; MIYAKE, Jun
- 3J2-32*** Mechanical detection of IGF-II ligand bound to IGF-I receptor using antibody immobilized AFM tip (RICE/AIST, Tokyo Univ. of Agric. and Technol.) NAKAMURA, Chikashi; HAN, Sung-wong; RYU, Seung-hwan; MIEDA, Shingo; NAKAMURA, Noriyuki; MIYAKE, Jun
- 3J2-34*** Development of MHC/MAGE-1 peptide complex-conjugated bacterial magnetic particles for magnetic separation of melanoma-specific cytotoxic T lymphocytes (Tokyo Univ. Agri. Tech.; Waseda Univ.; Shizuoka Cancer Center Research Institute) TAKAHASHI, Masayuki; AKIYAMA, Yasuto; YOSHINO, Tomoko; TAKEYAMA, Haruko; MUTSUNAGA, Tadashi

Chair: OKOCHI, Mina (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(3J2-37, 3J2-38, 3J2-39, 3J2-40, 3J2-42)
- 3J2-37** Detection of microorganisms in raw milk by nonculture-culture traceable method (Department of Biotechnology and Life Science, Tokyo Univ. of Agriculture and Technology) SHIGETOMI, Tomoya; SAITOU, Mikako; MATSUOKA, Hideaki
- 3J2-38** Direct applications of the electron beam lithography and the polymer resist surface to the patterning system for single cell culture with fine resolution (ASMw, Waseda Univ.) TAKEDA, Naoya; YOSHINO, Nobuhiro; SHIMAMOTO, Naonobu; YOKOMACHI, Yuki; EDAGAWA, Yoshikuni
- 3J2-39** Withdrawn
- 3J2-40*** Cell patterning based on the micro structured organosilane layer fabricated by VUV lithography (AIST) YAMAGUCHI, Munehiro; IKEDA, Kouji; SUZUKI, Masaaki; KUDOH, Suguru N.; KIYOHARA, Ai; UCHIDA, Tsutomu; GOHARA, Kazutoshi; SHIMIZU, Kyoko; TAIRA, Toshio
- 3J2-42** Post-translational knockdown of transmembrane protein using a small molecule (Graduate School of Engineering, Osaka Univ.) HORI, Yuichiro; SHIBATA, Akane; KIKUCHI, Kazuya

Chair: TANAKA, Tsuyoshi (16 : 10~17 : 00)

- * 16:00-16:10: interval for laptop PC connection.(3J2-44, 3J2-45, 3J2-46, 3J2-48)
- 3J2-44** Search for lipid derivatives taken in the specific cell cycle (Hokkaido Univ. : Faculty of science) NAMBARA, Katsuyuki; NIKURA, Kenichi; KAMITANI, Ryosuke; IJIRO, Kuniharu
- 3J2-45** Development of a protein labeling method based on Photoactive Yellow Protein. (Osaka university) UENO, Hideki; HORI, Yuichiro; KIKUCHI, Kazuya
- 3J2-46*** Protein Labeling System Based on Non-catalytic Beta-Lactamase by Using Designed FRET Substrate (Graduate school of engineering, Osaka Univ.) WATANABE, Shuji; MIZUKAMI, Shin; HORI, Yuichiro; KIKUCHI, Kazuya
- 3J2-48** Long term Adipose tissue-derived Stem Cells imaging using Quantum Dots (Nagoya Univ.;Nat. Inst. Mater. Sci.) KAGAMI, Yukimasa; YUKAWA, Hiroshi; KAJI, Noritada; OKAMOTO, Yukihiro; NOGUCHI, Hirofumi; TOKESHI, Manabu; HAYASHI, Shuji; BABA, Yoshinobu

Chair: NAKAMURA, Chikashi (17 : 10~17 : 50)

- * 17:00-17:10: interval for laptop PC connection.(3J2-50, 3J2-51, 3J2-53)
- 3J2-50** Fabrication of Micro-partitions on photosensor array and application to digital cell measurement (Tokyo Univ. Agri. Tech.; Casio Computer Co. Ltd.) SUNAGA, Yoshihiko; TANAKA, Tsuyoshi; HATAKEYAMA,

Keiichi; SAWAGUCHI, Masahiro; IWADATE, Akihito; MIZUTANA, Yasushi; SASAKI, Kazuhiro; TATEISHI, Naofumi; MATSUNAGA, Tadashi
3J2-51* Development of a biosensing device applicable in lipophilic chemical screening and evaluation (Tokyo Univ. Agri. Tech.; Waseda Univ.; Central Research Institute of Electric Power Industry) MORI, Tetsushi; HAYASHI, Takuma; HOSOKAWA, Masahito; YOSHINO, Tomoko; NAKASONO, Satoshi; TAKEYAMA, Haruko; MATSUNAGA, Tadashi
3J2-53 Visualization of intracellular trafficking process of DNA using quantum dots (Nagoya Univ.) MAMORI, Chiharu; KAJI, Noritada; OKAMOTO, Yukihiro; TOKESHI, Manabu; BABA, Yoshinobu

Monday, March 30, AM

Chair: MATSUBARA, Teruhiko (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(4J2-01, 4J2-03, 4J2-04, 4J2-05, 4J2-06)
4J2-01* Lipid Bilayer Self-spreading Behavior on Curved Substrate (Hokkaido Univ.) NABIKI, Hideki; MURAKOSHI, Kei
4J2-03 Shape transitions of cell-sized liposomes upon oxidative stress (School of Materials Science; Japan Advanced Institute of Science and Technology) YODA, Tsuyoshi; VESTERGAARD, Mun'delanji; HAMADA, Tsutomu; TAKAGI, Masahiro
4J2-04 Dynamic change in cell-sized model membrane by interaction with amyloid β peptides. (School of Materials science; Japan advanced institute of science and technology) MORITA, Masamune; VESTERGAARD, Mun'delanji; HAMADA, Tsutomu; TAKAGI, Masahiro
4J2-05 Kinase reaction assay with polycations and fluorogenic liposomes (Ryukoku Univ.; Univ. of Geneva) MIYATAKE, Tomohiro; MURATA, Hiroto; SAITOH, Yasuhiko; MATILE, Stefan
4J2-06 Flavor sensing using cell-penetrative peptides activated by hydrazide compounds. (Ryukoku Univ.; Univ. of Geneva) MIYATAKE, Tomohiro; SAITOH, Yasuhiko; MATILE, Stefan

Chair: TAKAGI, Masahiro (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(4J2-08, 4J2-09, 4J2-10, 4J2-12)
4J2-08 Development of several fluorescent cholesterol analogs bearing a silylated pyrene moiety (Gunma Univ.) YOSHINARI, Akihito; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo
4J2-09 The role of stressed model biomembrane in *in vitro* protein synthesis [~]LIPOzyme(VI)[~] (Facil.Chem.Eng.Sci.,Grad.Schl.Eng.Sci., Osaka Univ.) Bui Thi, Huong; SUGA, Keishi; TANABE, Tomoyuki; NISHIDA, Masato; UMAKOSHI, Hiroshi; KUBOI, Ryoichi
4J2-10* Molecular Communication System Using Gemini Peptide Lipids as Molecular Switches (Nara Inst. of Sci. and Technol.; NTT DOCOMO, Inc.; Univ. of California, Irvine) MUKAI, Masaru; WANG, Zhong-hua; KIKUCHI, Jun-ichi; HIYAMA, Satoshi; MORITANI, Yuki; SUDA, Tatsuya
4J2-12* Molecular Communication System Using Oligonucleotide Lipids as Molecular Switches (Nara Inst. of Sci. and Technol.; NTT DOCOMO, Inc.; Univ. of California, Irvine) WANG, Zhong-hua; MUKAI, Masaru; ISHIKAWA, Takahiro; KIKUCHI, Jun-ichi; HIYAMA, Satoshi; MORITANI, Yuki; SUDA, Tatsuya

Chair: MIYATAKE, Tomohiro (11:20~12:00)

- * 11:10-11:20: interval for laptop PC connection.(4J2-15, 4J2-16, 4J2-17)
4J2-15 Drug release system by light irradiation (Univ. of Osaka; Kikuchi Lab.) SATAKE, Takafumi; MIZUKAMI, Shin; KIKUCHI, Kazuya
4J2-16 Distribution and recognition of ganglioside complex in membrane microdomain (Keio Univ.) SOGA, Norihiro; MATSUBARA, Teruhiko; ODAKA, Masaaki; SATO, Toshinori
4J2-17* Observation of the glycosphingolipid cluster formed in membrane microdomain and interaction with amyloid β (Keio Univ.) IJIMA, Kazutoshi; MATSUBARA, Teruhiko; YAMAMOTO, Naoki; YANAGISAWA, Katsuhiko; SATO, Toshinori

Monday, March 30, PM

Chair: UEDA, Takehiko (13:10~14:10)

- * 13:00-13:10: interval for laptop PC connection.(4J2-26, 4J2-28, 4J2-29, 4J2-30)
4J2-26* Mannosyl erythritol lipid-A forms glycolipid-enriched microdomains in phospholipid monolayers, and exhibits molecular recognition ability (Advanced Industrial Science and Technology (AIST); Research Institute for Innovation in Sustainable Chemistry) ITO, Seya; IMURA, Tomohiro; FUKUOKA, Tokuma; MORITA, Tomotake; SAKAI, Hideki; ABE, Masahiko; KITAMOTO, Dai
4J2-28 Structure-activity relationship of yeast glycolipid biosurfactant (Advanced Industrial Science and Technology (AIST); Research Institute for Innovation in Sustainable Chemistry) KAWAMURA, Mayo; FUKUOKA, Tokuma; MORITA, Tomotake; IMURA, Tomohiro; SAKAI, Hideki; ABE, Masahiko; KITAMOTO, Dai
4J2-29 Enzymatic synthesis and aqueous phase behavior of a novel glycolipid biosurfactant (National Institute of Advanced Industrial Science and Technology (AIST)) YANAGIHARA, Takashi; FUKUOKA, Tokuma; MORITA, Tomotake; IMURA, Tomohiro; SAKAI, Hideki; ABE,

Masahiko; KITAMOTO, Dai

- 4J2-30*** Investigation of function and a novel reconstitution method of connexin proteoliposomes using baculovirus expression systems (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.; Graduate School of Engineering Mie Univ.) KAMIYA, Koki; TSUMOTO, Kanta; YOSHIMURA, Tetsuro; AKIYOSHI, Kazunari

Chair: SAKAI, Hideki (14:20~15:30)

- * 14:10-14:20: interval for laptop PC connection.(4J2-33, 4J2-34, 4J2-35, 4J2-36, 4J2-37, 4J2-38, 4J2-39)
4J2-33 A novel preparation method of giant liposomes with lipid multilayer membrane on aminopropyltriethoxysilane-modified microscaled pattern imprinted on glass surface (Kagoshima Univ.) NAKAHAMA, Masashi; UEDA, Takehiko
4J2-34 Factors Controlling Mobility of Drug Delivered into Phospholipid Bilayer Membrane Studied by Solution-State NMR (Inst. Chem. Res., Kyoto Univ.) SHINTANI, Megumi; MATUBAYASI, Nobuyuki; NAKAHARA, Masaru
4J2-35 Preparation of LIPOzyme using oxidized peptide fragments[~] LIPOzyme(IV)[~] (Facil.Chem.Eng.Sci.,Grad.Schl.Eng.Sci., Osaka Univ.) UMAKOSHI, Hiroshi; Le Quoc, Tuan; MORIMOTO, Kengo; SHIMANOUCI, Toshinori; KUBOI, Ryoichi
4J2-36 Preparation of antioxidative LIPOzyme with modification by acylated-His (Facil.Chem.Eng.Sci.,Grad.Schl.Eng.Sci., Osaka Univ.) UMAKOSHI, Hiroshi; MORIMOTO, Kengo; YASUDA, Naoto; Le Quoc, Tuan; SHIMANOUCI, Toshinori; KUBOI, Ryoichi
4J2-37 Rapid construction of Multifunctional Envelope-type Nanodevice using microfluidic device (Nagoya Univ) KITAZOE, Katsuma; KAJI, Noritada; OKAMOTO, Yukihiro; TOKESHI, Manabu; KOGURE, Kentaro; HARASHIMA, Hideyoshi; BABA, Yoshinobu
4J2-38 Development of MRI probes for detecting amyloid β aggregates (Graduate School of Engineering, Osaka Univ.) YAMANO, Katsumasa; MIZUKAMI, Shin; SUGIHARA, Fuminori; SHIRAKAWA, Masahiro; NODA, Munehiro; HOSHI, Minako; MURAMATSU, Shinichi; KIKUCHI, Kazuya
4J2-39 Development of a pH-Responsive MRI Probe (Graduate school of engineering, Osaka Univ.) OKADA, Satoshi; MIZUKAMI, Shin; KIKUCHI, Kazuya

Room J3
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Biofunctional Chemistry ; Biotechnology

Friday, March 27, AM

Functional Small Molecule

Chair: KANAORI, Kenji (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(1J3-01, 1J3-02, 1J3-03, 1J3-04, 1J3-06)
1J3-01 Synthesis of the cyclodextrin dimer with a triazole moiety (Saitama Univ., Grad. Sch. of Sci. and Eng.) IGUCHI, Kensaku; ISHIMARU, Yoshihiro
1J3-02 Synthesis of a New Cross-Linker to Detect DNA-Protein Interaction (Faculty of Science, Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) TOYOSHIMA, Takuya; AOKI, Junichi; HIRAMOTO, Ryusuke; TANIGUCHI, Keiko; YANAI, Kazuyuki; WATANABE, Soichiro
1J3-03 NanoBioNow(22) Structural effect of compatible solutes on the activity of α -Glucosidase (Fac. of Sci. and Eng., Konan Univ.; FIBER, Konan Univ.) DEGUCHI, Eisuke; KOUMOTO, Kazuya; SUGIMOTO, Naoki
1J3-04* Target-selective Photo-degradation of HIV-1 Protease by a Fullerene-sugar Hybrid. (Keio Univ.; Faculty of Science and Technology) TAKAHASHI, Daisuke; SAKAI, Satoshi; TANIMOTO, Shuho; TOSHIMA, Kazunobu
1J3-06 Target-selective Degradation of Estrogen Receptor α by a Porphyrin Derivative upon Visible Photo-irradiation. (Keio Univ.; Faculty of Science and Technology) TANIMOTO, Shuho; MATSUMURA, Shuichi; TOSHIMA, Kazunobu
- Chair: TOSHIMA, Kazunobu (10:10~11:10)
- * 10:00-10:10: interval for laptop PC connection.(1J3-08, 1J3-09, 1J3-10, 1J3-11, 1J3-12)
1J3-08 Synthesis and evaluation PI polyamide of SAHA conjugated (Department of Chemistry, Graduate school of Science, Kyoto Univ.) OHTSUKI, Akimichi; BANDO, Toshikazu; NAGASE, Hiroki; KIMURA, Makoto; SUGIYAMA, Hiroshi
1J3-09 Mechanistic study of formation and decay reaction of semiquinone radical derived from flavonoids (Graduate School of Science and Technology,

Kyoto Institute of Technology) SANUKI, Hodaka; KANAORI, Kenji; TAJIMA, Kunihiko

1J3-10 Mechanistic investigation on reaction of hydroxyl radicals and amino acids by spin-trapping ESR measurements using flow-injection ESR (Kyoto Institute of Technology) SAKURAI, Yasuhiro; KANAORI, Kenji; TAJIMA, Kunihiko

1J3-11 Synthesis and properties of triarylphosphine containing perylenyl group as a fluorophore for detection of lipid peroxide in mitochondria (Department of Chemistry, Faculty of Science, Fukuoka Univ.) OYAMA, Yu; NAKAGAWA, Hiroyuki; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei

1J3-12* Application of 7-hydroxyquinoline derivatives for bioimaging fluorescence probes (Pure and Applied Sci., Univ. of Tsukuba) SENDA, Naoko; MIWA, Yoshihiro; MOMOTAKE, Atsuya; ARAI, Tatsuo

Chair: ANDO, Tsuyoshi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1J3-15, 1J3-17, 1J3-18, 1J3-19, 1J3-20)

1J3-15* Development of Luminescent Sensor for Zinc Ion Based on Nunchaku-style Peptides (Kyoto university) HIRAYAMA, Tasuku; TAKI, Masayasu; YAMAMOTO, Yukio

1J3-17 Synthesis of new fluorescent probe for detection of biological thiol. (RIKEN; itonanomedical) SHIBATA, Aya; ABE, Hiroshi; FURUKAWA, Kazuhiro; ITO, Mika; TSUNEDA, Satoshi; KURITA, Kimio; ALANDER, Johan; MORGENSTERN, Ralf; ITO, Yoshihiro

1J3-18 Measurements of Activation Energies of Demetalation Reactions for Natural Chlorophylls (Kinki Univ.; Ritsumeikan Univ.) HIRAI, Yuki; TAMIAMI, Hitoshi; SAGA, Yoshitaka

1J3-19 Esterification of Unnatural Long Alkyl Chains with Light-Harvesting Bacteriochlorophylls by Biosynthesis in Green Sulfur Photosynthetic Bacteria (Kinki Univ.; Ritsumeikan Univ.) SAGA, Yoshitaka; NISHIMORI, Risato; MIZOGUCHI, Tadashi; TAMIAMI, Hitoshi

1J3-20 Changes of Self-Assembly of Hydrophilic Zinc Chlorophyll Derivatives by Contact with Organic Solvents (Kinki Univ.; Ryukoku Univ.; Ritsumeikan Univ.) SAGA, Yoshitaka; NAKAGAWA, Toshihiro; MIYATAKE, Tomohiro; TAMIAMI, Hitoshi

Friday, March 27, PM

Chair: YAMAMOTO, Yukio (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1J3-28, 1J3-29, 1J3-30, 1J3-31, 1J3-32, 1J3-33)

1J3-28 Synthesis of Bacteriochlorophyll-*f* (Ritsumeikan Univ.) TAMIAMI, Hitoshi; KOMADA, Jun; KUNIEDA, Michio; FUKAI, Kazuhiro; YOSHITOMI, Taichi; HARADA, Jiro; MIZOGUCHI, Tadashi

1J3-29 Self-Aggregation of Synthetic C20-Substituted Chlorophyll Derivatives (Ritsumeikan Univ.) TAMIAMI, Hitoshi; MATSUNAGA, Shizuka; KUNIEDA, Michio

1J3-30 Synthesis of Chlorophyll Derivatives Possessing an Silsesquioxyl Group at the 17-Propionate Residue and Their Self-Aggregation (Ritsumeikan Univ.) TAMIAMI, Hitoshi; KOBAYASHI, Takaki; KUNIEDA, Michio

1J3-31 Self-assemblies of amphiphilic zinc 3-(1-hydroxyethyl)chlorins (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; TAKEHARA, Masatoshi; TAMIAMI, Hitoshi

1J3-32 Reaction of 3-vinyl group of chlorophylls with thiols (Univ. of Utsunomiya) OBA, Toru; UDA, Yuki; ITO, Satoshi; HIRATANI, Kazuhisa

1J3-33 Synthesis and photochemical properties of mono-, di-, tri- and tetra-substituted glucosyl-porphyrin platinum(II) complexes (Nara Institute of Science and Technology ; Nara Women's Univ.) SHARYO, Kohei; HIROHARA, Shihō; OBATA, Makoto; ANDO, Tsuyoshi; TANIHARA, Masao

Chair: TAMIAMI, Hitoshi (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1J3-35, 1J3-37, 1J3-39, 1J3-40)

1J3-35** Preparation and Spectroscopic Characterization of side-on and end-on Heme peroxide and hydroperoxide Species (Inst. for Materials Chem. and Eng., Kyushu Univ.) LIU, Jin-gang; OHTA, Takehiro; NARUTA, Yoshinori

1J3-37†** A Fluorescent Probe for Magnesium Ions Based on Porphyrin Analogues and Their Substituent Effects (Graduates school of Sciences, Kyushu Univ.; Institute for Materials Chemistry and Engineering, Kyushu Univ.) ISHIDA, Masatoshi; NARUTA, Yoshinori

1J3-39 Cellular uptake processes and photodynamic activity of silylporphyrin (Department of Chemistry and Chemical Biology, Gunma Univ., Institute for Molecular and Cellular Regulation, Gunma Univ.) HORIUCHI, Hiroaki; KAMEYA, Takehiro; YOSHIMURA, Kimio; KYUSHIN, Soichiro; MATSUMOTO, Hideyuki; HOSAKA, Masahiro; TAKEUCHI, Toshiyuki; HIRATSUKA, Hiroshi

1J3-40 Functional analysis of heme acquisition protein, IsdH from *Staphylococcus aureus* (Grad. Sch. of Frnt. Scs., The Univ. of Tokyo) MORIWAKI, Yoshitaka; WATANABE, Masato; TANAKA, Yoshikazu; KUDOH, Motonori; TSUMOTO, Kouhei

Molecular recognition

Chair: HAMACHI, Itaru (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1J3-42)

1J3-42 CSJ Award for Creative Work Construction of Cooperative and Responsive Supramolecular Systems for Regulation of Molecular Functions Modulation (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) NABESHIMA, Tatsuya

Chair: ISHIDA, Yoshiyuki (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1J3-49, 1J3-51, 1J3-52, 1J3-53, 1J3-54)

1J3-49* Self-assembling of Triazolyl Zn(II) Porphyrins (Univ. of Kyoto, Graduate School of Science) MAEDA, Chihiro; OSUKA, Atsuhiko

1J3-51* Organic-metallic Hybrid Polymers with Bio-related Functional Groups. (National Institute for Materials Science, Functional Modules Group) LI, Jinghua; PAL, Ravindra R.; IKEDA, Taichi; HIGUCHI, Masayoshi

1J3-52 AFM observation of supramolecular porphyrin nanotube standing vertically on a mica substrate (Nara Institute of Science and Technology (NAIST)) SATAKE, Akiharu; AZUMA, Shintaro; HIROTA, Shun; KOBUE, Yoshiaki

1J3-53 Gold Nanoparticles Covered with Multiple Heme Model Complexes (Doshisha Univ.; Kyoto Univ.) HITOMI, Yutaka; AOKI, Kazuki; OHYAMA, Junya; HIGUCHI, Yasuhiro; TANAKA, Tsunehiro; FUNABIKI, Takuzo; KODERA, Masahito

1J3-54 Construction of Acid-Base Catalytic Space by Transition Metal-Templated Self-Assembly of Zinc(II) Complexes (Faculty of Pharmaceutical Sciences, Tokyo Univ. of Science; Center for Drug Delivery Research, Tokyo Univ. of Science) KITAMURA, Masanori; KISHI, Mayumi; KAGEYAMA, Yoshiyuki; AOKI, Shin

Saturday, March 28, AM

Molecular recognition

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

* 8:50-9:00: interval for laptop PC connection.(2J3-01, 2J3-02, 2J3-03, 2J3-04, 2J3-06)

2J3-01 Substituent effects on complexation of zinc chlorins with polypeptides (Ryukoku Univ.) MIYATAKE, Tomohiro; MUKAI, Yumi

2J3-02 Synthesis and Evaluation of Fluorescent DAG-lactone Derivatives toward Sensing Biology (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental Univ.) OKUDA, Yoshiaki; TSUTSUMI, Hiroshi; NOMURA, Wataru; OHASHI, Nami; SERIZAWA, Yuuki; TAMAMURA, Hirokazu

2J3-03 Evaluation of Interaction between Lectins and Carbohydrate Probe carrying Ru using Fluorescent Polarization Method (Tokyo Univ. of Technology, Graduate School of Bionics) MAKINO, Taro; OKADA, Tomoko; MINOURA, Norihiko

2J3-04* Development of fluorescent probe for selective imaging of neurofibrillary tangles in Alzheimer's disease (Kyoto Univ. Grad. School of Eng.) SAKAMOTO, Takashi; INOUE, Tomonori; OJIDA, Akio; HAMACHI, Itaru

2J3-06 The Developments of off/on-mode fluorescence chemosensor for ATP (Department of Synthetic Chemistry and Biological Chemistry Kyoto Univ.) KURISHITA, Yasutaka; KOHIRA, Takahiro; TAKASHIMA, Ippai; OJIDA, Akio; HAMACHI, Itaru

Chair: HAMACHI, Itaru (10 : 10~11 : 20)

* 10:00-10:10: interval for laptop PC connection.(2J3-08, 2J3-10, 2J3-11, 2J3-12, 2J3-13, 2J3-14)

2J3-08* Naphthyridine-Substituted Nitronyl Nitroxide Radicals Noncovalently binding to Mismatched DNA (The Institute of Scientific and Industrial Research, Osaka Univ.; Graduate School of Science, Osaka City Univ.) MAEKAWA, Kensuke; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; NAKATANI, Kazuhiko

2J3-10 The fluorescence change of xanthone derivative reflecting the interaction between RNA and ligand. (The institute of scientific and industrial research, Osaka univ.) UMEMOTO, Shiori; HAGIHARA, Masaki; NAKATANI, Kazuhiko

2J3-11 Synthesis of β -hairpin peptides containing DNA base-pairing moieties (Organic Nanomaterials Center, National Institute for Materials Science) ISOZAKI, Katsuhiro; MIKI, Kazushi

2J3-12 DFT study on the pH-dependency of the NAD/NADH binding to 3α -HSD from *Pseudomonas* sp. B-0831. (Graduate School of Human Environment Science, Kyoto Prefectural Univ.) IWATA, Kazuya; LINTULUOTO, Masami

2J3-13 Selective Detection of Tyrosine Phosphorylation by Lanthanide Complex (RCAT, The Univ. of Tokyo) AKIBA, Hiroki; WATANABE, Yuuki; SUMAOKA, Jun; KOMIYAMA, Makoto

2J3-14 Application of gold nano particles to the analysis of interaction between low molecular weight compounds (Department of Chemistry, Okayama Univ. of Science) YAMADA, Haruo; MACHIDA, Kazufumi

Sunday, March 29, PM

Biocatalysis

Chair: MIYAZAWA, Toshifumi (13 : 10~14 : 00)

* 13:00-13:10: interval for laptop PC connection.(3J3-26, 3J3-27, 3J3-28, 3J3-30)

3J3-26 Rational Improvement of Enantioselectivity of Lipase by Introducing Double Mutations (Okayama Univ.) EMA, Tadashi; KAMATA, Shusuke; TAKEDA, Masahiro; KORENAGA, Toshinobu; SAKAI, Takashi**3J3-27** Simple Preparation of Optically Pure allyl alcohol Using Ionic liquid through Lipase Catalyzed Reaction. (Kagawa Univ.) TAKAGI, Yumiko; ISHIIHARA, Hiroaki; ITOH, Toshiyuki**3J3-28*** Synergy Effect on the Activation of Enzymatic Reactions by Coating by an Amino Acid with Imidazolium AlkylPEG Sulfate (Tottori Univ.) ABE, Yoshikazu; YOSHIYAMA, Kazuhide; HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki**3J3-30** Design of Phosphonium Ionic Liquids Appropriate for Lipase-catalyzed Transesterification (Tottori Univ.) YOSHIYAMA, Kazuhide; ABE, Yoshikazu; HAYASE, Shuichi; KAWATSURA, Motoi; ITOH, Toshiyuki

Chair: MATSUMOTO, Kazutsugu (14 : 10~14 : 50)

* 14:00-14:10: interval for laptop PC connection.(3J3-32, 3J3-33, 3J3-34, 3J3-35)

3J3-32 Lipase-catalyzed Selective Acylation of (Hydroxyalkyl)phenols (Konan Univ.) MIYAZAWA, Toshifumi; YAMAMOTO, Masato; MURASHIMA, Takashi; YAMADA, Takashi**3J3-33** *Carica papaya* Lipase-catalyzed Resolution of Carboxylic Acids (Konan Univ.) MIYAZAWA, Toshifumi; IGUCHI, Wakana; MURASHIMA, Takashi; YAMADA, Takashi**3J3-34** Development of a novel domino reaction by esterase from *Sulfolobus tokodaii* strain 7 (Dept. of Biosciences and informatics, Keio Univ.) WADA, Reina; MIYAMOTO, Kenji; OHTA, Hiromichi; UEMURA, Daisuke**3J3-35** Shifting the pH profile of arylmalonate decarboxylase by introducing mutations to C-terminal region. (Keio Univ., the Faculty of Science and Technology, Department of Biosciences and Informatics) MIYAUCHI, Yusuke; MIYAMOTO, Kenji; OHTA, Hiromichi; UEMURA, Daisuke

Chair: TAKAGI, Yumiko (15 : 00~15 : 50)

* 14:50-15:00: interval for laptop PC connection.(3J3-37, 3J3-38, 3J3-39, 3J3-40, 3J3-41)

3J3-37 Purification and Cloning of Enantioselective Alcohol Oxidase (Department of science and technology, Keio university) FUJIMORI, Kumiko; OHTA, Hiromichi; MIYAMOTO, Kenji; UEMURA, Daisuke**3J3-38** Studies on Purification and Reactivities of a Novel Tropane Dehydrogenase. (Dept. of Biosciences and Informatics, Keio) KADOWAKI, Hideki; UEMURA, Daisuke; OHTA, Hiromichi; MIYAMOTO, Kenji**3J3-39** Bioreduction of gem-Difluorinated Ketones (Okayama Univ.) EMA, Tadashi; AKIHARA, Kumiko; KADOYA, Taro; KORENAGA, Toshinobu; SAKAI, Takashi**3J3-40** Biocatalytic asymmetric reduction and oxidation in supercritical carbon dioxide (Ryukoku Univ.; Tokyo Institute of Technology School and Graduate; Kyoto Univ.) KUBOTA, Yuki; MATSUDA, Tomoko; HARADA, Tadao; NAKAMURA, Kaoru**3J3-41** Development of Enzymatic Deracemization of Mandelic Acid Derivatives (Department of Biosciences and Informatics, Keio Univ.) SANO, Tomoko; OHTA, Hiromichi; MIYAMOTO, Kenji; UEMURA, Daisuke

Chair: MIYAMOTO, Kenji (16 : 00~16 : 50)

* 15:50-16:00: interval for laptop PC connection.(3J3-43, 3J3-44, 3J3-45, 3J3-46, 3J3-47)

3J3-43[†] Synthesis of Optically Active Compounds by Enzymatic Hydrolysis of 1,2-Diol Monotosylate Derivatives and the Following Effective Stereo Inversion Reaction (Meisei Univ.) SHIMADA, Yasutaka; USUDA, Kazumasa; MATSUMOTO, Kazutsugu**3J3-44** Chemo-enzymatic Synthesis of Efficient Chiral Building Blocks Using D-Allose (Kagawa University) UNEYAMA, Emi; TAKAHASHI, Rie; SONODA, Akinari; TAKAGI, Yumiko**3J3-45** Biotransformation of flavanoids using plant cultured cells-hydroxylation and glycosylation- (Faculty of Sci., Okayama Univ. of Sci.) YAMAMOTO, Ryohei; KOBAYASHI, Tatsunari; HIGA, Nozomi; SIMODA, Kei; NAKAJIMA, Nobuyoshi; HAMADA, Hiroki**3J3-46** glycosylation of monoterpenes using plant cultured cells (Faculty of Sci., Okayama Univ. of Sci.) KOBAYASHI, Tatsunari; SATO, Daisuke; SHIMODA, Kei; KUBOTA, Naoki; HAMADA, Hiroki**3J3-47** Functional elucidation of a no hot red pepper and grape polyphenols (Faculty of Sci., Okayama Univ. Sci.) HAMADA, Hiroki; OOHIRO, Azusa; SHIMODA, Kei; HONMA, Tomoo

Chair: EMA, Tadashi (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(3J3-49, 3J3-51, 3J3-52, 3J3-53)

3J3-49* Synthetic study of terpene BE-40644 based on enzymatic optical

resolution. (Faculty of Pharm. Sci., Toho Univ.) FUJII, Mikio; ISHII, Sadayuki; AKITA, Hiroyuki

3J3-51 Studies on substrate specificities of transaminase in preparation of optically active amines (Manchester Interdisciplinary Biocentre, Univ. of Manchester) KUBOKI, Atsuhito; TRUPPO, M; TURNER, N. J.**3J3-52** Catalytic activity of mouse IgM monoclonal antibodies against human TNF- α (Applied chemistry, Oita Univ.) HIGASHI, Kyohei; HIFUMI, Emi; UDA, Taizo**3J3-53*** DNA-catalyzed pyrrole-imidazole polyamide chain reaction-1 (Kyoto university, Institute for Integrated Cell-Material Science; Kyoto university, Institute for Chemical Research) SATO, Ayato; SUMIYA, Eriko; UESUGI, Motonari

Room J4

Bldg.11 1141

Natural Products Chemistry

Saturday, March 28, AM

Fatty acid derivative, Polyphenol

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

* 8:50-9:00: interval for laptop PC connection.(2J4-01, 2J4-02, 2J4-03, 2J4-04, 2J4-05, 2J4-06)

2J4-01[†] Synthesis of Biotinylated Salicylaldehyde to Elucidate Its Binding Site in Vacuolar Type ATPase (Osaka Univ.) SUGIMOTO, Yoshinori; OISHI, Tohru; KONOKI, Keiichi; MURATA, Michio; MATSUSHITA, Masafumi; KANAZAWA, Hiroshi**2J4-02** TEMPO-mediated Direct Oxidation of 1,6- and 1,7-Diols into Lactones and Its Application to Natural Product Synthesis. (Graduate School of Life Sciences, Tohoku Univ.) EBINE, Makoto; SUGA, Yuto; FUWA, Haruhiko; SASAKI, Makoto**2J4-03** Synthesis of the C23-C34 fragment of Symbiodinolide (Nagoya Univ.; Okayama Univ.; Keio Univ.) SANO, Masayuki; MURATA, Takeshi; TAKAMURA, Hiroyoshi; KADOTA, Isao; UEMURA, Daisuke**2J4-04** structure analysis of symbiodinolide using the 2nd-generation Grubbs catalyst. (Graduate School of Science, nagoya university) YAMANO, Yoshi; KAN, Shunko; KITA, Masaki; UEMURA, Daisuke**2J4-05** Synthesis and Structural Determination of the C33-C42 Fragment of Symbiodinolide (Okayama Univ.; Nagoya Univ.; Keio Univ.) TAKAMURA, Hiroyoshi; KADONAGA, Yuichiro; YAMANO, Yoshi; HAN, Chunguang; KADOTA, Isao; UEMURA, Daisuke**2J4-06** Synthetic Studies on the DE/F-ring Fragment of Goniodomin A (Graduate School of Life Sciences, Tohoku Univ.) SAITO, Tomoyuki; FUWA, Haruhiko; SASAKI, Makoto

Chair: TERUYA, Toshiaki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2J4-08, 2J4-09, 2J4-10, 2J4-11, 2J4-12, 2J4-13)

2J4-08 Synthesis and Biological Activity of Neopeltolide Analogues (Graduate School of Life Sciences, Tohoku Univ.) SAITO, Asami; FUWA, Haruhiko; KONOKI, Keiichi; SASAKI, Makoto**2J4-09** Synthetic studies on a hybrid compound of aplyronine A and mycalolide B (Univ. of Tsukuba) KOBAYASHI, Kenichi; FUJII, Yusuke; HAYAKAWA, Ichiro; KIGOSHI, Hideo**2J4-10** Synthetic study on mycalolide B, an actin-depolymerizing macrolide (Graduate School of Pure and Applied Science Univ. of Tsukuba) WATANABE, Hidekazu; KOJIMA, Keiji; WATANABE, Toru; KITA, Masaki; KIGOSHI, Hideo**2J4-11** Synthetic Studies on Amphidinolides (Keio Univ.) IWASAKI, Yuki; HARA, Akihiro; MORIMOTO, Ryo; ISHIKAWA, Yuichi; NISHIYAMA, Shigeru**2J4-12** Total Synthesis of (+)-Cytotrienin A (1) (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; HONMA, Masakazu; SHOJI, Mitsuru; ISHIKAWA, Hayato; YAMAGUCHI, Junichiro; TAMURA, Tomohiro; IMAI, Hiroki; NISHIGAYA, Yosuke; TAKABE, Kenichi**2J4-13** Total Synthesis of (+)-Cytotrienin A (2) (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; TAKABE, Kenichi; SHOJI, Mitsuru; ISHIKAWA, Hayato; YAMAGUCHI, Junichiro; TAMURA, Tomohiro; IMAI, Hiroki; NISHIGAYA, Yosuke

Chair: FUWA, Haruhiko (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(2J4-15, 2J4-16, 2J4-17, 2J4-18, 2J4-19)

2J4-15 Total Synthesis of (+)-Cytotrienin A (3) (Faculty of Engineering, Tokyo Univ. of Science) HAYASHI, Yujiro; ISHIKAWA, Hayato; SHOJI, Mitsuru; YAMAGUCHI, Junichiro; TAMURA, Tomohiro; IMAI, Hiroki; NISHIGAYA, Yosuke; TAKABE, Kenichi**2J4-16** Stereocontrolled Synthesis of the C79-C96 Fragment of Symbiodinolide (Okayama Univ.; Tohoku Univ.; Nagoya Univ.; Keio Univ.)

TAKAMURA, Hiroyoshi; ABE, Takashi; ANDO, Junki; MURATA, Takeshi; KADOTA, Isao; UEMURA, Daisuke

- 2J4-17** Synthetic studies on Reidispondiolide A, actin-targeting Macrolide (Faculty of Science and Technology, Keio) AKIYAMA, Satoshi; TORIIHARA, Eisuke; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 2J4-18** Synthetic study on biselide E (Univ. of Tsukuba) KAWAMURA, Dai; UEDA, Mituru; IKEDA, Yoichi; SUZUKI, Yuta; YAMAURA, Masashi; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 2J4-19** Synthesis and cytotoxicity of haterumalide B and artificial analogs (Univ. of Tsukuba) HAYAKAWA, Ichiro; UEDA, Mitsuru; IKEDA, Yoichi; KIGOSHI, Hideo

Saturday, March 28, PM

Chair: MAKI, Shojiro (13:20~14:20)

- * 13:10-13:20: interval for laptop PC connection.(2J4-27, 2J4-29, 2J4-30, 2J4-31, 2J4-32)
- 2J4-27*** Total Synthesis of Macrocin A (Graduate School of Science and Technology, Tokyo Institute of Technology) YOSHINARI, Tomohiro; OHMORI, Ken; SUZUKI, Keisuke
- 2J4-29** Synthetic Studies on Peroxydemethylmerrillianin (Tokyo Univ. of Science) SHIINA, Isamu; SUGIMOTO, Masuhiro; IIZUMI, Takashi; OGAWA, Go
- 2J4-30** Synthetic Studies on Astakolactin (Tokyo Univ. of Science) SHIINA, Isamu; KATO, Koji; FUKUI, Hiroki
- 2J4-31** Synthetic Studies on Eushearilide (Tokyo Univ. of Science) SHIINA, Isamu; FUJIMORI, Keiko
- 2J4-32** Studies on the Total Synthesis of Hericenones (Graduate School of Science, Osaka Prefecture Univ.) KOBAYASHI, Shoji; ANDO, Ami; RYU, Ilhyong

Chair: NAGASAWA, Kazuo (14:30~15:30)

- * 14:20-14:30: interval for laptop PC connection.(2J4-34, 2J4-35, 2J4-36, 2J4-37, 2J4-38)
- 2J4-34** Formal Asymmetric Total Synthesis of (-)-platencin (Waseda Univ. Graduate School of Sci. and Engin.) HIRAI, Sho; NAKADA, Masahisa
- 2J4-35[†]** Structure-Activity Relationships of (+)-Phomopsidin and MK8383 for New Agrochemicals (Waseda Univ., Graduate School of Advanced Sci. and Engin.) HAYASHI, Nobuyuki; NAKADA, Masahisa
- 2J4-36** Synthetic studies on Carnic Acid A (Waseda Univ., Graduate School of Sci. and Engin.) YAMAKOSHI, Shuhei; HAYASHI, Nobuyuki; NAKADA, Masahisa
- 2J4-37** Stereocontrolled Synthesis of Epicatechin Derivatives (Tokyo Institute of Technology) YANO, Takahisa; HIGUCHI, Takashi; OHMORI, Ken; SUZUKI, Keisuke
- 2J4-38*** Convergent Synthetic Approach to Linear-type Oligomeric Catechins and its Structural Analyses (Department of Chemistry, Tokyo Institute of Technology, SORST) SHONO, Tomohiro; HATAKOSHI, Yuki; OHMORI, Ken; SUZUKI, Keisuke

Chair: OHMORI, Ken (15:40~16:40)

- * 15:30-15:40: interval for laptop PC connection.(2J4-41, 2J4-44, 2J4-45, 2J4-46)
- 2J4-41** Young Scholar Lectures of CSJ Total synthesis of biologically active compounds using asymmetric organocatalytic reactions (Fac. of Sci. and Tech., Tokyo Univ. of Sci.) ISHIKAWA, Hayato
- 2J4-44** Synthesis and Bioactivities of C₆-C₃ Unit Products (Department of Chemistry, Faculty of Science and Technology, Keio Univ.) WATANABE, Kotaro; ISHIKAWA, Yuichi; TERUYA, Toshiaki; SUENAGA, Kiyotake; WOO, Je-tae; NISHIYAMA, Shigeru
- 2J4-45** Improved total synthesis of (+)-Davidin (School of Science and Technology, Kwansai Gakuin Univ.) KASAI, Yusuke; MICHIHATA, Naoki; NISHIMURA, Hidehisa; YAMADA, Hidetoshi
- 2J4-46** Development of catechin hapten based on SAR studies on catechin derivatives (Tokyo Univ of Agri and Tech (TUAT)) TATEKABE, Shinya; IGUCHI, Takeshi; TERA, Masayuki; SUGANUMA, Masami; NAGASAWA, Kazuo

Chair: FUKUI, Hiroki (16:50~17:30)

- * 16:40-16:50: interval for laptop PC connection.(2J4-48, 2J4-49, 2J4-50, 2J4-51)
- 2J4-48** Synthetic Studies on Saliniketals, Inhibitors of Ornithine Decarboxylase Induction (Keio university) FUKUMAN, Taiji; ISHIKAWA, Yuichi; NISHIYAMA, Shigeru
- 2J4-49** Synthetic study of the phoslactomycins (Tokyo Institute of Technology) MAEDA, Noriaki; NURUZZAMAN, Muhammad; NONAKA, Hisato; MURAKAMI, Takumi; KOBAYASHI, Yuichi
- 2J4-50** Total Synthesis of (-)-Oseltamivir (1) (Faculty of Engineering, Tokyo Univ. of Science) ISHIKAWA, Hayato; SUZUKI, Takaki; HAYASHI, Yujiro
- 2J4-51[#]** Total Synthesis of (-)-Oseltamivir (2) (Faculty of Engineering, Tokyo Univ. of Science) ISHIKAWA, Hayato; APPU, Aravind; SUZUKI, Takaki; HAYASHI, Yujiro

Sunday, March 29, AM

Chair: KADOTA, Isao (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3J4-01, 3J4-02, 3J4-03, 3J4-04, 3J4-05)
- 3J4-01** Improved Synthesis of the WXYZ-Ring System of Maitotoxin (Osaka Univ.) NAKASHIMA, Takeharu; HASEGAWA, Futoshi; OSHIMA, Takahiro; IMAIZUMI, Tomoyoshi; MURATA, Michio; OISHI, Tohru
- 3J4-02** Synthetic Studies of the C'D'E'F'-Ring System of Maitotoxin (Osaka Univ.) OSHIMA, Takahiro; NAKASHIMA, Takeharu; IMAIZUMI, Tomoyoshi; MURATA, Michio; OISHI, Tohru
- 3J4-03** Studies Towards the Total Synthesis of Yessotoxin (Osaka Univ.) IMAIZUMI, Tomoyoshi; TORIKAI, Kohei; WATANABE, Koji; MINATO, Hiroaki; NAKASHIMA, Takeharu; OSHIMA, Takahiro; MURATA, Michio; OISHI, Tohru
- 3J4-04** Synthetic Study of Maitotoxin HIJK-Ring and its Diastereoisomer (Faculty of Science, Tokyo Univ. of Science) NAGATOMO, Masanori; KAMIYAMA, Toshihiko; KOSHINO, Hiroyuki; NAKATA, Tadashi
- 3J4-05*** Formal total synthesis of gambierol (Faculty of Science, Tokyo Univ. of Science) SAITO, Tatsuo; NAKATA, Tadashi

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

- * 10:00-10:10: interval for laptop PC connection.(3J4-08, 3J4-09, 3J4-10, 3J4-11, 3J4-12)
- 3J4-08** A new convergent synthetic method to construct trans-fused polycyclic ethers using 6-exo radical cyclization. (Graduate School of Science, Tohoku Univ.) MORITA, Hiroyuki; YAMASHITA, Shuji; HIRAMA, Masahiro
- 3J4-09** Synthetic Studies of CTX1B Left Fragment Utilizing 6-exo Radical Reacton. (Graduate School of Science, Tohoku Univ.) TAKEUCHI, Katsutoshi; YAMASHITA, Shuji; HIRAMA, Masahiro
- 3J4-10** Synthetic Study of the EFGH Ring Segment of Ciguatoxin CTX3C (Okayama Univ.; Tohoku Univ.) SATO, Yuki; UNI, Miyuki; FUJITA, Naoya; KADOTA, Isao; TAKAMURA, Hiroyoshi; YAMAMOTO, Yoshinori
- 3J4-11** Synthetic Study of HIJKLMN-Ring Fragment of Caribbean Ciguatoxin (Graduate School of Science, Tohoku Univ., SORST, JST) SAITO, Fumihito; SHIDA, Takahiro; IWATSU, Masafumi; YAMASHITA, Shuji; HIRAMA, Masahiro
- 3J4-12**[†]** Total synthesis of Ciguatoxin (Bioagricultural Sciences, Nagoya Univ.) HAMAJIMA, Akinari; ISOBE, Minoru

Chair: YAMASHITA, Shuji (11:20~12:00)

- * 11:10-11:20: interval for laptop PC connection.(3J4-15, 3J4-16, 3J4-17, 3J4-18)
- 3J4-15** Total Synthesis of Brevenal (Okayama Univ.; Tohoku Univ.) KIKUCHI, Shigetoshi; NAKAMURA, Yuichi; YAMAGAMI, Yuji; KISHI, Takayuki; TAKAMURA, Hiroyoshi; KADOTA, Isao; YAMAMOTO, Yoshinori
- 3J4-16[†]** Structural and Synthetic Studies on Acyclic Junction of Brevisin, a New Polycyclic Ether from a Dinoflagellate *Karenia brevis* (Univ. of Tokyo) KURANAGA, Takefumi; SATAKE, Masayuki; WRIGHT, Jeffrey L. C.; TACHIBANA, Kazuo
- 3J4-17** Synthetic Study on the ABC Ring of Brevisin, a Polycyclic Ether from the Dinoflagellate *Karenia brevis* (Univ. of Tokyo) OHTANI, Naohito; TUTUMI, Ryosuke; KURANAGA, Takefumi; WRIGHT, J.L.C.; SATAKE, Masayuki; TACHIBANA, Kazuo
- 3J4-18** Studies on the Total synthesis of Brevisamide (Graduate School of Life Sciences, Tohoku Univ.) ABE, Yutaka; FUWA, Haruhiko; SASAKI, Makoto

Sunday, March 29, PM

Chair: TAKAMURA, Hiroyoshi (13:10~14:10)

- * 13:00-13:10: interval for laptop PC connection.(3J4-26, 3J4-27, 3J4-28, 3J4-29, 3J4-30)
- 3J4-26** Synthetic Studies on the GHUJ-Ring Fragment of Gambieric Acids (Graduate School of Life Sciences, Tohoku Univ.) Tsubone, Koichi; FUWA, Haruhiko; SASAKI, Makoto
- 3J4-27** Synthetic Studies on the A/BCD-ring Fragment of Gambieric acid A (Graduate School of Life Sciences, Tohoku Univ.) ISHIGAI, Kazuya; FUWA, Haruhiko; SASAKI, Makoto
- 3J4-28** Stereoselective Synthesis of 2, 6-anti-Tetrahydropyrans by Intramolecular Oxy-Michael Addition of (2E, 4Z)-Unsaturated Esters (Graduate School of Faculty of Science, Tokyo Univ. of Science) NAGATOMO, Masanori; TANIMURA, Shun; HATTORI, Hideaki; NAKATA, Tadashi
- 3J4-29** New synthetic method for 2,3-*trans*-2-methyl-tetrahydropyran-3-ol and oxepan-3-ol by unique insertion of a methyl group (Tokyo Univ. of Science) KIMISHIMA, Atsushi; MAEMOTO, Michihiro; NAKATA, Tadashi
- 3J4-30*** Total Synthesis of Proposed Structure of Prococtenin (Grad. Sch. of Science, Hokkaido Univ.; PRESTO) KATAGIRI, Yasushi; FUJIWARA, Kenshu; TAKEMURA, Atsushi; KAWAI, Hidetoshi; SUZUKI, Takanori

Chair: ISHIKAWA, Hayato (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(3J4-33, 3J4-34, 3J4-35, 3J4-36, 3J4-37, 3J4-38)
- 3J4-33** Studies directed toward an EFGHI-ring synthetic hapten of azaspiric-acid-1 (Graduate School of Life Sciences, Tohoku Univ.) YAMAGUCHI, Hiroshi; KITAGO, Masaki; OIKAWA, Masato; SASAKI, Makoto
- 3J4-34** A Synthetic Method for the cis-Ring-Junction of Armatol F (Grad. Sch. of Science, Hokkaido Univ.; PRESTO) FUJIWARA, Kenshu; TANAKA, Keita; KATAGIRI, Yasushi; KAWAI, Hidetoshi; SUZUKI, Takanori
- 3J4-35** Synthetic Studies on the BCD-Ring of Armatol F (Grad. Sch. of Science, Hokkaido Univ.; PRESTO) FUJIWARA, Kenshu; TANAKA, Keita; KATAGIRI, Yasushi; KAWAI, Hidetoshi; SUZUKI, Takanori
- 3J4-36** Synthetic Studies on the A-Ring of Armatol F (Grad. Sch. of Science, Hokkaido Univ.; PRESTO) FUJIWARA, Kenshu; HIROSE, Yuta; SATO, Daisuke; KAWAI, Hidetoshi; SUZUKI, Takanori
- 3J4-37** Synthetic studies of Spirofungin Using Pd (II)-catalyst (Univ. of Toyama) MIYAZAWA, Masahiro; MURAYAMA, Taku; YOKOYAMA, Hajime; YAMAGUCHI, Seiji; HIRAI, Yoshiro
- 3J4-38** Development of the Pd(II)-catalyzed cyclization and its application to the synthesis of Dienomycin C (Graduate school of science and engineering, Univ. of toyama) YOKOYAMA, Hajime; HAYASHI, Yuko; NAGASAWA, Yumi; EJIRI, Hiromi; MIYAZAWA, Masahiro; YAMAGUCHI, Seiji; HIRAI, Yoshiro

Chair: OGURI, Hiroki (15 : 30~16 : 20)

- * 15:20-15:30: interval for laptop PC connection.(3J4-40, 3J4-41, 3J4-43)
- 3J4-40** Synthesis of Plausible Biosynthetic Precursors of Brevisamide, a Marine Cyclic Ether Alkaloid from Dinoflagellate *Karenia brevis* (Univ. of Tokyo) SHIRAI, Tomohiro; KURANAGA, Takefumi; WRIGHT, J.L.C.; SATAKE, Masayuki; TACHIBANA, Kazuo
- 3J4-41*** Screening of proteins for interaction with ladder-shaped polyethers by polymer-supported ligand (Osaka Univ.) UJIHARA, Satoru; MOURI, Ryota; KONOKI, Keiichi; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio; SUGIYAMA, Naoyuki; ISHIHAMA, Yasushi; TOMITA, Masaru
- 3J4-43*** Surface plasmon resonance-based interaction analysis of ladder-shaped polyethers by competitive method (Osaka Univ.) MOURI, Ryota; UJIHARA, Satoru; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio; YAMAGUCHI, Akihiro

Fatty acid derivative, Polyphenol

Chair: KITA, Masaki (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(3J4-46, 3J4-47, 3J4-49, 3J4-50, 3J4-51)
- 3J4-46** Substrate specificity of epoxide hydrolase Lsd19 involved in lasalocid A biosynthesis (Graduate School of Science, Hokkaido Univ.) MATSURA, Yusuke; SHICHIJO, Yoshiro; MIGITA, Akira; WATANABE, Mami; TOKIWANO, Tetsuo; MINAMI, Atsushi; WATANABE, Kenji; OGURI, Hiroki; OIKAWA, Hideaki
- 3J4-47*** Site-directed mutational analysis of epoxide hydrolase Lsd19 involved in lasalocid A biosynthesis (Graduate School of Science, Hokkaido Univ.) MINAMI, Atsushi; MIGITA, Akira; INADA, Daiki; WATANABE, Kenji; OGURI, Hiroki; OIKAWA, Hideaki
- 3J4-49** Analysis of mobility of Amphotericin B and sterol in saturated and unsaturated lipid membranes using deuterium solid-state NMR (Graduate School of Science, Osaka Univ.) TAHARA, Kazuaki; YAMAMOTO, Hiroko; DOI, Mikitsugu; MATSUMORI, Nobuaki; MURATA, Michio
- 3J4-50** Ion permeabilization of phosphatidylglycerol bilayers elicited by Amphotericin B (Osaka Univ.) TAKANO, Tetsuro; MATSUMORI, Nobuaki; MURATA, Michio
- 3J4-51** Synthesis of carbon-13 and fluorine labeled Amphotericin B aiming at analysis of its complex structure. (Osaka Univ.) ADACHI, Takeshi; UMEGAWA, Yuichi; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio

Monday, March 30, AM

Fatty acid derivative, Polyphenol

Chair: TOKIWANO, Tetuo (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(4J4-01, 4J4-02, 4J4-03, 4J4-04, 4J4-05)
- 4J4-01** Synthetic Studies of the C31-C67 Moiety of Amphidinol 3 (Osaka Univ.) KANEMOTO, Mitsunori; MATSUMORI, Nobuaki; MURATA, Michio; OISHI, Tohru
- 4J4-02** Stereostructural Study on Procentrol from an Epiphytic Dinoflagellate *Prorocentrum hoffmannianum* (School of Science, The Univ. of Tokyo) SUGAHARA, Kohtarō; SATAKE, Masayuki; TACHIBANA, Kazuo
- 4J4-03** Analysis of orientation of sphingomyelin in lipid raft using deuterium NMR. (Osaka Univ.) SUZUKI, Takashi; OKAZAKI, Hiroki; DOI, Mototsugu; MATUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio
- 4J4-04[†]** Conformational Analysis of sphingomyelin in lipid rafts (Osaka

Univ.) YAMAGUCHI, Toshiyuki; OKAZAKI, Hiroki; SUZUKI, Takashi; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio

- 4J4-05** Synthesis of Molecular Probes toward the Elucidation of process of Lipid Rafts formation (Osaka Univ.) TANADA, Norio; NOZU, Kohei; OKAZAKI, Hiroki; MATUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio

Chair: FUJIWARA, Kenshu (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(4J4-07, 4J4-09, 4J4-11, 4J4-12)
- 4J4-07*** Chemical Synthesis of Amphotericin B Derivatives Labeled at Specific Positions and Structure Analysis of Ion Channel Complex (Graduate School of Science, Osaka Univ.) MATSUSHITA, Naohiro; TSUCHIKAWA, Hiroshi; UMEGAWA, Yuichi; MATSUMORI, Nobuaki; MURATA, Michio; OISHI, Tohru
- 4J4-09*** Bimolecular interaction in amphotericin B assembly observed by solid-state NMR (Graduate School of Science, Osaka Univ.) UMEGAWA, Yuichi; MATSUMORI, Nobuaki; MATSUSHITA, Naohiro; TSUCHIKAWA, Hiroshi; OISHI, Tohru; MURATA, Michio
- 4J4-11** Efficient Synthesis of Bongkreid acid and Derivatives and Apoptosis Inhibitory Activity (Kyushu Univ.; Int. Mater. Chem. Eng.) SATO, Yukiko; ABE, Masato; KANO, Arihiro; MARUYAMA, Atsushi; SHINDO, Mitsuru
- 4J4-12** Mass Spectrometric Approach to Inhibition of Tyrosinase Activity by Anacardic Acids (JAIST; Univ. California, Berkeley) TSUJIMOTO, Kazuo; KUBO, Isao

Chair: MATSUMORI, Nobuaki (11 : 10~12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(4J4-14, 4J4-15, 4J4-16, 4J4-17, 4J4-18)
- 4J4-14** Biosynthetic study of unique cyclopropane formation of antibiotic FR-900848 (Graduate School of Science, Hokkaido Univ.) SEO, Takashi; WATANABE, Hiroaki; TOKIWANO, Tetsuo; MINAMI, Atsushi; OIKAWA, Hideaki
- 4J4-15** Functional Analysis of the Biosynthetic Genes of Chaetoglobosin A (Graduate School of Science, Hokkaido Univ.) FUJITA, Yuta; MINAMI, Atsushi; OIKAWA, Hideaki
- 4J4-16** Asymmetric Total Synthesis of Botcinins A and B (Tokyo Univ. of Science) FUKUI, Hiroki; TSUJI, Keisuke; UMEZAKI, Yuma; SHIINA, Isamu
- 4J4-17** Synthesis of the Derivatives of Botcinin D (Tokyo Univ. of Science) FUKUI, Hiroki; TSUJI, Keisuke; SHIINA, Isamu
- 4J4-18** Asymmetric Total Synthesis of Peroxybotcinin D (Tokyo Univ. of Science) SHIINA, Isamu; UMEZAKI, Yuma; FUKUI, Hiroki

Monday, March 30, PM

Chair: OKADA, Yoshiharu (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(4J4-26, 4J4-27, 4J4-28, 4J4-29, 4J4-30)
- 4J4-26** Synthetic Study of Resolvin E1 (Department of Biomolecular Engineering; Tokyo Institute of Technology) OGAWA, Narihito; KOBAYASHI, Yuichi
- 4J4-27** Synthetic Study of Resolvin E2 (Department of Biomolecular Engineering; Tokyo Institute of Technology) KOSAKI, Yusuke; OGAWA, Narihito; KOBAYASHI, Yuichi
- 4J4-28** Synthetic studies on the total synthesis of kendomycin (6) (Tohoku Univ.) KITADA, Kenji; SENGOKU, Tetuya; OGURA, Kenji; XU, Shu; ARIMOTO, Hirokazu
- 4J4-29** Synthesis of Cyclopentanoids from Cyclopentadiene: Synthesis of Marine Natural Product (+)-Utenone A (Okayama University of Science; Faculty of engineering) NOKAMI, Junzo; KUNITADA, Takahiro; IMAI, Nobuyuki; INOKUCHI, Tsutomu
- 4J4-30*** Total synthesis of (-)-maduropeptin chromophore and structural revision. (Tohoku Univ.) KOMANO, Kazuo; SATO, Itaru; HIRAMA, Masahiro

Chair: ARIMOTO, Hirokazu (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(4J4-33, 4J4-34, 4J4-35, 4J4-36, 4J4-37, 4J4-38)
- 4J4-33** Study of the formation of 9-membered conjugated enediyne maduropeptin-like compounds. (Graduate School of Science, Tohoku Univ.) NORIZUKI, Yutaro; KOMANO, Kazuo; SATO, Itaru; HIRAMA, Masahiro
- 4J4-34** Total Synthesis of Protected Aglycon of Kedarcidin Chromophore (Graduate School of Science, Tohoku Univ.) OGAWA, Kouki; KOYAMA, Yasuhito; SATOU, Itaru; HIRAMA, Masahiro
- 4J4-35** Synthesis of aminosugar moiety of C-1027 chromophore (Graduate School of Science, Tohoku Univ.) HIRAI, Keiichiro; SATO, Itaru; HIRAMA, Masahiro
- 4J4-36** Synthesis and Synthetic Application of Phenylpropanoids Bearing Phosphorus Functional Group (Kinki Univ.) OKADA, Yoshiharu; FUJIMORI, Hideyuki; KANNA, Yusaku; NOMURA, Masato
- 4J4-37** Synthetic studies on auripyrones by using a novel diastereoselective aldol-type reaction of a γ -pyrone as a key step (Univ. of Tsukuba) TAKEMURA, Takuma; FUKASAWA, Emi; EBIHARA, Yuta; HAYAKAWA, Ichiro; KIGOSHI, Hideo

4J4-38 Synthetic Study of the Aglycon of Caminoside by the Use of M α NP Acid (3) (Aoyama Gakuin Univ.) ATSUTA, Hiroyuki; MAEHARA, Yukie; ICHIKAWA, Takeaki; KUWAHARA, Shunsuke; WATANABE, Masataka; KIMURA, Junji

Room J5

Bldg.11 1142

Biofunctional Chemistry ; Biotechnology

Friday, March 27, AM

Nucleic Acid

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

* 8:50-9:00: interval for laptop PC connection.(1J5-01, 1J5-02, 1J5-03, 1J5-05, 1J5-06)

1J5-01 Enzymatic incorporation of 2',4'-bridged nucleotide and conferring nuclease resistance to DNA fragments (Department of Chemistry and Chemical Biology, Graduate School of Engineering, Gunma Univ.) KUWAHARA, Masayasu; HAGIWARA, Yoshihiko; TAKESHIMA, Hidetoshi; OZAKI, Hiroaki; SAWAI, Hiroaki; OBIKA, Satoshi; IMANISHI, Takeshi

1J5-02 Base recognition of acrydonyl group in DNA duplex (Department of Chemistry and Chemical Biology, Graduate School of Engineering, Gunma Univ.) KUWAHARA, Masayasu; HAGIWARA, Yoshihiko; OZAKI, Hiroaki

1J5-03* Introduction of disulfide bond into Peptide Nucleic Acid to switch its hybridization and double-duplex invasion activity (RCAST, The Univ. of Tokyo) AIBA, Yuichiro; KOMIYAMA, Makoto

1J5-05 Investigation of saccharide modified dUTP incorporation efficiency by DNA polymerase (Graduate School of Human development and Environment, Kobe Univ.) TANAKA, Nobuyuki; AKASAKA, Yuki; EBARA, Yasuhito

1J5-06 Evaluation of linker influence in interaction analysis of saccharide-modified DNA and Lectin (Univ. of Kobe;) AKASAKA, Yuki; TANAKA, Nobuyuki; EBARA, Yasuhito

Chair: SUMAOKA, Jun (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1J5-08, 1J5-09, 1J5-10, 1J5-11, 1J5-12, 1J5-13)

1J5-08 Application of novel 2'-deoxyguanosine derivative containing alkylamino linker at C8 position. (Nihon Univ. School of Engineering) MATSUMOTO, Katsuhiko; SHINOHARA, Yuta; NUMAJIRI, Kyuko; SAITO, Yoshio; SAITO, Isao; MIZUNO, Erika; KASAHARA, Ryu; SATO, Naoki; FUJII, Misato

1J5-09 Stereocontrolled synthesis and conversion reaction of *H*-phosphonate DNA (Univ. of Tokyo) IWAMOTO, Naoki; OKA, Natsuhisa; WADA, Takeshi

1J5-10 Synthesis of oligodeoxyribonucleotides by using 2'-deoxyribonucleoside 5'-phosphites as monomer units (Univ. of Tokyo) MIZUSHIMA, Yuki; KATO, Yukiko; OKA, Natsuhisa; WADA, Takeshi

1J5-11 Development of sensitive labeling techniques by introduction of multiple fluorescent dyes into DNA. (Nagoya Univ.) KASIDA, Hiromu; SEKIGUCHI, Koji; TAKATU, Tomohiko; ASANUMA, Hiroyuki

1J5-12 Clarification of the mechanism at initiation step of *de novo* DNA synthesis by DNA polymerase (Graduate School of Engineering, Nagoya Univ.) KATO, Tomohiro; LIANG, Xingguo; ASANUMA, Hiroyuki

1J5-13 Effect of site-directed cleavage of complementary RNA by antisense DNA that is introduced deoxyuridine derivative bearing the polyamine residue (Gunma Univ.) OKUBO, Hiromichi; SHINOZUKA, Kazuo; MORIGUCHI, Tomohisa

Chair: WADA, Takeshi (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1J5-15, 1J5-16, 1J5-18, 1J5-19, 1J5-20)

1J5-15 Design and functional evaluation of PIWI-Antagonistic peptide conjugated oligonucleotides (Kyoto Institute of Technology) YAMAYOSHI, Asako; MOMOKAWA, Daiki; KOBORI, Akio; MURAKAMI, Akira

1J5-16* Bmcoc-caged PNAs as either antisense agents or transcription activators (Toho Univ.) FURUTA, Toshiaki; OHMURO, Junko; NAKATA, Makiko; SAKYO, Jun

1J5-18 Photoregulation of gene expression with visible light irradiation by introducing methylthio-azobenzenes (Nagoya Univ.) FUJIOKA, Kenta; NISHIOKA, Hidenori; FUJII, Taiga; KASHIDA, Hiromu; LIANG, Xingguo; ASANUMA, Hiroyuki

1J5-19 Molecular design of azobenzene-modified siRNA towards photoregulation of gene expression (Nagoya Univ.) ITO, Hiroshi; NISHIOKA, Hidenori; LIANG, Xingguo; ASANUMA, Hiroyuki

1J5-20 Control of gene expression by caging plasmid vectors in a site-specific

manner (The Univ. of Tokyo Graduate School of Engineering Department of Chemistry and Biotechnology) CHEN, Yanjie; YAMAGICHI, Satoshi; TSUKIJI, Shinya; HURUTA, Toshiaki; NAGAMUNE, Teruyuki

Friday, March 27, PM

Chair: BANDO, Toshikazu (13 : 30 ~ 14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1J5-28, 1J5-29, 1J5-30, 1J5-31)

1J5-28 Incorporation of fluorescent nucleoside into DNA and its properties (Gunma Univ., Graduate School of Engineering) KAWAI, Takeshi; OZAKI, Hiroaki; KUWAHARA, Masayasu

1J5-29 The control of photosensitized singlet oxygen generation through DNA binding: Effect of the sequence specificity (Shizuoka Univ.) HIRAKAWA, Kazutaka; HIRANO, Toru; NISHIMURA, Yoshihiro; ARAI, Tatsuo

1J5-30 Development of new fluorescence switch using a new photochromic vinylpyrene substituted guanosine derivative. (Nihon Univ. school of engineering) TAKEUCHI, Yoshiki; MATSUMOTO, Katsuhiko; TAKAHASHI, Naoya; SAITO, Yoshio; SAITO, Isao

1J5-31 Young Scholar Lectures of CSJ Kinetic Studies of Photosensitized DNA damage (ISIR, Osaka Univ.) KAWAI, Kiyohiko

Chair: SEKINE, Mitsuo (14 : 40 ~ 15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1J5-35, 1J5-36, 1J5-37, 1J5-39)

1J5-35 Chemical synthesis of RNA oligomers containing 5-taurinomethyluridine or 5-taurinomethyl-2-thiouridine (Univ. of Tokyo) OGATA, Toshihiko; WADA, Takeshi

1J5-36 Fluorous synthesis of stereoregulated oligodeoxyribonucleoside phosphorothioates (Univ. of Tokyo) MURAKAMI, Ryosuke; OKA, Natsuhisa; KONDO, Tomoaki; WADA, Takeshi

1J5-37* Sequence-specific DNA alkylation and biological application (Graduate School of Science, Kyoto Univ.) MINOSHIMA, Masafumi; BANDO, Toshikazu; SHINOHARA, Ken-ichi; SUGIYAMA, Hiroshi

1J5-39* Strand invasion of conventional PNA to arbitrary sequence in DNA assisted by single-stranded DNA binding protein (RCAST, The Univ. of Tokyo) ISHIZUKA, Takumi; OTANI, Kosuke; SUMAOKA, Jun; KOMIYAMA, Makoto

Chair: EBARA, Yasuhito (15 : 50 ~ 16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1J5-42, 1J5-43, 1J5-45, 1J5-46)

1J5-42 Systematical investigation of Py-Im polyamide-fluorescein conjugates for their uptake into live cells. (Graduate school of Science, Kyoto Univ.) NISHIJIMA, Shigeki; BANDO, Toshikazu; SHINOHARA, Ken-ichi; SUGIYAMA, Hiroshi

1J5-43* Restriction Enzyme Free/Ligation Independent Cloning Method Utilizing Caged Primers in PCR (RCAST, The Univ. of Tokyo) KUZUYA, Akinori; TANAKA, Keita; KOMIYAMA, Makoto

1J5-45 Caged Nucleotide Appropriate for site-selective Blocking of Polymerase Reaction (Research Center for Advanced Science and Technology, The Univ. of Tokyo) OKADA, Fuminori; KUZUYA, Akinori; KOMIYAMA, Makoto

1J5-46* Development of an artificial aptazyme-based riboswitch (Ehime Univ.; RIKEN) OGAWA, Atsushi; MAEDA, Mizuo

Chair: MAEDA, Mizuo (17 : 00 ~ 18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1J5-49, 1J5-50, 1J5-51, 1J5-53, 1J5-54)

1J5-49 Synthesis of Peptide Ribonucleic Acid (PRNA)-PNA-DNA Chimeras and their Interaction with RNA and RNase H Activity of Chimera-RNA Complex (Graduated School of Engineering, Osaka Univ.; IMRAM, Tohoku Univ.) NAGAMI, Akira; WADA, Takehiko; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; KANAYA, Shigeori; INOUE, Yoshihisa

1J5-50 Syntheses and properties of new triplets for DNA triplexes (Department of life science, Tokyo institute of technology) SEIO, Kohji; KANAMORI, Takashi; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEKINE, Mitsuo

1J5-51* Activation of gene expression by antisense oligonucleotides with in vitro translation system (The Institute of Scientific and Industrial Research, Osaka Univ.) HAYASHI, Gosuke; HAGIHARA, Masaki; NAKATANI, Kazuhiko

1J5-53 Gene Expression within Highly-stable Artificial Cell Membrane "Cerasome" (Nara Inst. of Sci. and Technol.) NAKAJIMA, Arata; KIKUCHI, Jun-ichi; SASAKI, Yoshihiro; AKIYOSHI, Kazunari

1J5-54 Inhibition of influenza virus using unnatural nucleic acids (ISIR, Osaka Univ.) TAKAHASHI, Tomoya; KATO, Nobuo; KAIHATSU, Kunihiko

Natural Products Chemistry

Saturday, March 28, AM

Terpene

Chair: YOSHIMURA, Fumihiko (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(2J5-01, 2J5-02, 2J5-03, 2J5-05, 2J5-06)

2J5-01 Biosynthetic study of antitumor antibiotic BE-40644. (Graduate School of Science, Hokkaido Univ.) GYAKUSHI, Takahiro; SHIMIZU, Yukiyo; TOKIWANO, Tetsuo; DAIRI, Tohru; OIKAWA, Hideaki**2J5-02** Novel method for elucidation of reaction mechanism on terpene cyclase (Department of Chemistry, Graduate School of Science, Hokkaido Univ. & The Institute of Scientific and Industrial Research, Osaka Univ. & Department of Agriculture, Yamagata Univ.) CHEN, Zhi; TOKIWANO, Tetuo; MINAMI, Atsushi; KATO, Nobuo; TOYOMASU, Tomonobu; SASSA, Takeshi; OIKAWA, Hideaki**2J5-03*** Synthetic study on 13-oxingenol (Univ. of Tsukuba) OHYOSHI, Takayuki; MIYAZAWA, Yamato; ASUMA, Yuki; AOKI, Kenta; OHMURA, Satomi; HAYAKAWA, Ichiro; KIGOSHI, Hideo**2J5-05** Synthetic study on optically active 13-oxingenol by using asymmetric cyclopropanation (Univ. of Tsukuba) MIYAZAWA, Yamato; OHYOSHI, Takayuki; AOKI, Kenta; HAYAKAWA, Ichiro; KIGOSHI, Hideo**2J5-06** Expedient synthesis of sesquiterpene-like small molecules having 5/7-fused skeletons (Graduate School of Science, Univ. of Hokkaido & Creative Research Initiative "Sousei") ISHIGAKI, Yuhei; OGYRI, Hiroki; OIKAWA, Hideaki

Chair: OHKANDA, Junko (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(2J5-08, 2J5-10, 2J5-11, 2J5-12, 2J5-13)

2J5-08* Synthetic Studies of Spirostomin, the Stereoselective Synthesis and the Absolute Configuration (Department of Material Science, Graduate School of Science, Osaka City Univ.) SERA, Yoshihiko; TOMINAGA, Sohei; TAKAYAMA, Yoshiko; USUKI, Yoshinosuke; KINOSHITA, Isamu; IIO, Hideo**2J5-10** Chemical Character of Spirostomin, defense toxins of ciliate *Spirostomum teres* (Department of Material Science, Graduate School of Science, Osaka City Univ.) TOMINAGA, Sohei; SERA, Yoshihiko; USUKI, Yoshinosuke; IIO, Hideo**2J5-11** Synthesis of C35, C39 Peridinin Derivative for Elucidating The Energy Transfer Mechanism in Photosynthesis (Kwansei Gakuin Univ.) KAJIKAWA, Takayuki; HASEGAWA, Shinji; IWASHITA, Takashi; FRANC, H.A.; KUSUMOTO, Toshiyuki; HASHIMOTO, Hideki; KATUMURA, Shigeo**2J5-12** Why does Peridinin possess an allene group? (Kwansei Gakuin Univ.) KAJIKAWA, Takayuki; HASEGAWA, Shinji; IWASHITA, Takashi; FRANK, H.A.; KUSUMOTO, Toshiyuki; HASHIMOTO, Hideki; KATSUMURA, Shigeo**2J5-13** Development of C2-substituted Vitamin D lactam (DLAM) derivatives and evaluation of their biological activity (Department of Biotechnology and Life Science, Graduate School of Technology, Tokyo Univ. of Agriculture and Technology) HIGASHIKUNI, Rui; ABE, Junko; UNEUCHI, Fumito; NAKAMURA, Yuku; SAITO, Hiroshi; OCHIAI, Eiji; TAKAGI, Kenichiro; ISHIZUKA, Seiichi; NAMEKAWA, Junichi; KITTAKA, Atsushi; TAKENOUCHI, Kazuya; NAGASAWA, Kazuo

Chair: OGURI, Hiroki (11:20~12:00)

* 11:10-11:20: interval for laptop PC connection.(2J5-15, 2J5-16, 2J5-17, 2J5-18)

2J5-15 Search for the binding proteins of ritterazine B, a cytotoxic alkaloid from the tunicate *Ritterella tokioka* (Sch. Science Univ. Tokyo) ONISHI, Hiroaki; FUKUZAWA, Seketsu; TACHIBANA, Kazuo**2J5-16†** Semi-synthesis of Fusicoccin H and Cotylenin analogues (ISIR, Osaka Univ.) HIGUCHI, Yusuke; MARUYAMA, Yuriko; YABU, Minoru; HIRAOKA, Masamitsu; NITTA, Hajime; INOUE, Takatsugu; SASSA, Takeshi; OHKANDA, Junko; KATO, Nobuo**2J5-17** Design and Synthesis of Novel Fusicoccin Derivatives as Anti-cancer Agent (ISIR, Osaka Univ.) YABU, Minoru; INOUE, Takatsugu; MARUYAMA, Yuriko; NITTA, Hajime; HONMA, Yoshio; SASSA, Takeshi; OHKANDA, Junko; KATO, Nobuo**2J5-18** Development of Novel Differentiation Inducer Based on Fusicoccane diterpene Glycosides (ISIR, Osaka Univ.) MARUYAMA, Yuriko; INOUE, Takatsugu; YABU, Minoru; HIRAOKA, Masamitsu; NITTA, Hajime; HONMA, Yoshio; SASSA, Takeshi; OHKANDA, Junko; KATO, Nobuo

Saturday, March 28, PM

Chair: URABE, Daisuke (13:10~14:10)

* 13:00-13:10: interval for laptop PC connection.(2J5-26, 2J5-27, 2J5-28, 2J5-30, 2J5-31)

2J5-26 Synthetic studies on Jatrophone diterpenes and their cyclopentane segments (Graduate School of Science, Nagoya Univ.) SHIMOKAWA,

Kenichiro; MIWA, Ryoka; UEMURA, Daisuke

2J5-27 Total Synthesis of Litophynin F (Hokkaido Univ.) DOTA,

Kouchihiro; HASEGAWA, Shoji; MIYASHITA, Masaaki; TANINO, Keiji

2J5-28*† Total Synthesis of Isocyanocadinene (Hokkaido Univ.)

NISHIKAWA, Keisuke; SHIROKURA, Yousuke; UMEZAWA, Taiki;

MATSUDA, Fuyuhiko

2J5-30 Design and Expedient Synthesis of Artemisinin Analogs (Graduate

School of Science & Creative Research Initiative "Sousei", Hokkaido Univ.)

HIRUMA, Takahisa; YAMAGISHI, Yutaka; OGURI, Hiroki; OIKAWA,

Hideaki

2J5-31 Synthetic Studies on (+)-Ophiobolin A -The new methods for the

construction of the eight-membered ring- (Waseda Univ., Graduate School of

Advanced Sci. and Engin.) TSUNA, Kazuhiro; NOGUCHI, Naoyoshi;

NAKADA, Masahisa

Chair: UMEZAWA, Taiki (14:20~15:20)

* 14:10-14:20: interval for laptop PC connection.(2J5-33, 2J5-34, 2J5-35,

2J5-36, 2J5-37, 2J5-38)

2J5-33 Symmetry-Driven Synthesis of the ABDE-ring Skeleton of Ryanodine

(Graduate School of Pharmaceutical Sciences, The Univ. Tokyo)

HAGIWARA, Koji; URABE, Daisuke; INOUE, Masayuki

2J5-34 Asymmetric Synthesis of Unnatural Steroids by Using Cyclopentene

Annulation Method (Hokkaido Univ.) KITAMURA, Juri; SHIINA,

Yasuhiro; TANINO, Keiji

2J5-35 Synthetic studies on erinacine (Tohoku university) ITTOU, Kaori;

OYAMA, Koichiro; XU, Shu; ARIMOTO, Hirokazu

2J5-36 Synthetic Studies on Solanoclepin A, a Hatching Agent of Potato

Cyst Nematodes (Hokkaido Univ.) TAKAHASHI, Motomasa; TANINO,

Keiji

2J5-37 Structure Activity Relationship Study of a Novel Juvenile Hormone

from a Heteropteran Insect (Graduate School of Sci., Osaka City Univ.;

National Institute of Agrobiological Sciences) KAIHARA, Kanako;

SHINADA, Tetsuro; OHFUNE, Yasufumi; NUMATA, Hideharu;

KOTAKI, Toyomi

2J5-38 Total Synthesis of 5-Deoxystrigol (Tohoku Univ.) SUZUKI, Eriko;

SHOJI, Mitsuru; UEDA, Minoru

Alkaloid

Chair: SATO, Takaaki (15:30~16:30)

* 15:20-15:30: interval for laptop PC connection.(2J5-40, 2J5-41, 2J5-42,

2J5-43, 2J5-44, 2J5-45)

2J5-40 Synthetic Study of Cortistatin A(1) (Graduate School of Science,

Tohoku Univ.) KITAJIMA, Kazuki; ISO, Kentaro; YAMASHITA, Shuji;

HIRAMA, Masahiro

2J5-41 Synthetic study of cortistatin A (2) (Graduate School of Science,

Tohoku Univ.) ISO, Kentaro; KITAJIMA, Kazuki; YAMASHITA, Shuji;

HIRAMA, Masahiro

2J5-42 Stereoselective synthesis of the optically active 2-substituted-3-amino-

piperidine derivatives using the aza-Michael reaction and its application to the

novel fused heterocycles (Kanagawa Institute of Technology) TANIKAWA,

Eriko; OTOWA, Noriko; YAMADA, Kuniyo; TAKIZAWA, Shoko; NODA,

Takeshi

2J5-43 Facile Stereoselective Total Synthesis of (+)-Epiquinamide and

(+)-10-Epi-epiquinamide (Kanagawa Institute of Technology) NODA,

Takeshi; YAMADA, Kuniyo

2J5-44 Synthetic Study of manzacidins (Kochi Univ) OKUMURA, Ken;

ICHIKAWA, Yoshiyasu

2J5-45 Synthetic Studies of Mannostatin A (Kochi Univ) SAKIYAMA,

Naoto; ICHIKAWA, Yoshiyasu

Chair: YAMASHITA, Shuji (16:40~17:30)

* 16:30-16:40: interval for laptop PC connection.(2J5-47, 2J5-48, 2J5-49,

2J5-50, 2J5-51)

2J5-47 Development of Sequential Claisen-Overman Rearrangement (Keio

Univ. Science and Technology) SAMPEI, Mana; KITAMOTO, Katsunori;

SATO, Takaaki; CHIDA, Noritaka

2J5-48 Total synthesis of (-)-Agelastatin A (Keio Univ.) MATSUDA,

Tomoki; HAMA, Naoto; SATO, Takaaki; CHIDA, Noritaka

2J5-49 Synthetic studies of Zoanthanol (Hokkaido Univ.) TAKAHASHI,

Yu; YOSHIMURA, Fumihiko; TANINO, Keiji; MIYASHITA, Masaaki

2J5-50 Synthetic Study of an Indol Alkaloid, Guettardine, by UtilizingAsymmetric 6 π -Azaelectrocyclization (Science and Technology, Univ. of

Kwansei Gakuin) KITAMURA, Takao; TAKEUCHI, Kenichi;

SAKAGUCHI, Taku; TSUCHIKAWA, Hiroshi; KATSUMURA, Shigeo

Sugar

2J5-51 Synthesis and immunostimulatory activities of phosphoglycolipid from*Thermus thermophilus* HB8 and its analogues (Grad. Sch. of Sci., Osaka

Univ.) MITSUNOBE, Kunihiko; FUJIMOTO, Yukari; FUJIWARA,

Satoko; MORI, Motoko; HASHIMOTO, Masahito; SUDA, Yasuo;

FUKASE, Koichi

Sunday, March 29, AM

Alkaloid

Chair: SHOJI, Mitsuru (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(3J5-01, 3J5-02, 3J5-03, 3J5-04, 3J5-06)

- 3J5-01** Construction of Multicyclic Alkaloid-like Small Molecules: Structural Diversification by Switching of Cyclization Modes (Graduate School of Science & Creative Research Initiative "Sousei", Hokkaido Univ.) MIZOGUCHI, Haruki; OGURI, Hiroki; OIKAWA, Hideaki
- 3J5-02[#]** Synthetic studies on the asymmetric total synthesis of halichlorine (Nagoya Univ.; Tohoku Univ.) XU, Shu; ARIMOTO, Hirokazu; UEMURA, Daisuke
- 3J5-03** Structures of cylindradines from *Axinella cylindratus* (Ehime Univ.) MIYAKE, Norimichi; KURAMOTO, Makoto; ISHIMARU, Yoshihisa; ONO, Noboru; UNO, Hidemitsu
- 3J5-04*[†]** Total Synthesis of (+)-decarbomoylsaxitoxin Based on Novel Ring Construction Method and Evaluation of Na⁺ Channel Inhibitory Activity of STX Derivatives (Tokyo Univ. of Agri. and Tech. (TUAT)) IWAMOTO, Osamu; SHINOHARA, Ryoko; KONOKI, Keiichi; YOTSU-YAMASHITA, Mari; NAGASAWA, Kazuo
- 3J5-06** Development of practical synthetic strategy for complex alkaloids through N-alkoxyamides (Keio Univ.; CHIDA Group) SHIROKANE, Kenji; SATO, Takaaki; CHIDA, Noritaka

Chair: KURAMOTO, Makoto (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(3J5-08, 3J5-09, 3J5-10, 3J5-11, 3J5-12, 3J5-13)

- 3J5-08** Synthetic Study On (+)-Streptolidine (Keio Univ.; CHIDA Group) HIGASHINO, Chiharu; SATO, Takaaki; CHIDA, Noritaka
- 3J5-09** Total Synthesis of zwitterionic indole alkaloids via 6 π -Azaelectrocyclization. (School of Science and Technology, Kwansei Gakuin Univ.) HIROSE, Yoshikatsu; TSUCHIKAWA, Hiroshi; KATSUMURA, Shigeo
- 3J5-10** Synthetic Studies on Yurenamine Utilizing [3+2] Cycloaddition Reaction of Platinum-Containing Azomethine Ylide (Tokyo Institute of Technology) UCHIDA, Masako; MIYASHITA, Yuichi; KUSAMA, Hiroyuki; IWASAWA, Nobuharu
- 3J5-11** Synthetic Study on Brussonetines (Keio Univ.) HAMA, Naoto; MIWA, Shouhei; SATO, Takaaki; CHIDA, Noritaka
- 3J5-12** Synthetic study of salinosporamide A utilizing overman rearrangement as the key reaction (Keio Univ) KAIYA, Yuji; MOMOSE, Takayuki; HASEGAWA, Junnichi; SATO, Takaaki; CHIDA, Noritaka
- 3J5-13** Total synthesis of (+)-Dibromophakellin (Tokyo Univ of Agri and Tech) IMAOKA, Takuya; IWAMOTO, Osamu; NAGASAWA, Kazuo

Sugar

Chair: SATO, Takaaki (11:20~12:10)

* 11:10-11:20: interval for laptop PC connection.(3J5-15, 3J5-16, 3J5-17, 3J5-18)

- 3J5-15** Effect of spacers on water dispersibility of lactose glycoconjugate immobilized on gold nanoparticles (Department of Chemistry, Okayama Univ. of Science) YAMADA, Haruo; SAGISAKA, Ayami
- 3J5-16** Synthesis of GM3 Glycoconjugate (Department of Chemistry, Okayama Univ. of Science) YAMADA, Haruo; SAGISAKA, Ayami; KURAOKA, Daisuke
- 3J5-17** Synthesis of Gb4 & Gb3 Gold Glyconanoparticles (Department of Chemistry, Okayama Univ. of Science) YAMADA, Haruo; UCHINASHI, Yousuke
- 3J5-18*** The Target Protein of Potassium Isolepidezate Using Click Chemistry (Graduate School of Science, Tohoku Univ.) MANABE, Yoshiyuki; UEDA, Minoru

Sunday, March 29, PM

Sugar

Chair: TANAKA, Hiroshi (13:20~14:20)

* 13:10-13:20: interval for laptop PC connection.(3J5-27, 3J5-29, 3J5-30, 3J5-31, 3J5-32)

- 3J5-27[#]** Positron Emission Tomography (PET) Imaging of Glycoclusters of N-Glycans through [⁶⁸Ga]-DOTA Labeling by Rapid-Azaelectrocyclization (Osaka Univ., Department of Chemistry; RIKEN, Center for Molecular Imaging Science; Kishida Chemical Co. Ltd) SIWU, Eric R. O.; MINAMI, Kaori; HASEGAWA, Koki; KANAYAMA, Yousuke; KOYAMA, Koichi; WATANABE, Yasuyoshi; TANAKA, Katsunori; FUKASE, Koichi
- 3J5-29** Chemical Engineering of Proteins and Cell Surfaces by Oligosaccharides via Rapid 6 π -Azaelectrocyclization (Osaka Univ., Department of Chemistry; RIKEN, Center for Molecular Imaging Science) MINAMI, Kaori; SIWU, Eric R. O.; TAHARA, Tsuyoshi; NOZAKI, Satoshi; WATANABE, Yasuyoshi; TANAKA, Katsunori; FUKASE, Koichi
- 3J5-30** In vivo Fluorescence Imaging of Chemically Engineered Cells through Rapid 6 π -Azaelectrocyclization (Osaka Univ., Department of Chemistry;

RIKEN, Center for Molecular Imaging Science; Kishida Chemical Co.Ltd) TANAKA, Katsunori; MINAMI, Kaori; KOYAMA, Koichi; SIWU, Eric R. O.; TAHARA, Tsuyoshi; NOZAKI, Satoshi; WATANABE, Yasuyoshi; FUKASE, Koichi

- 3J5-31[†]** A study of acceptor specificity in the transglycosylation reaction using Endo-M (Tokai university) TOMABECHI, Yusuke; INAZU, Toshiyuki
- 3J5-32** Efficiency of Amino sugar-based Organocatalyst for Aldol Reaction (Meisei Univ., College of Sci. and Engineering.) MACHINAMI, Tomoya; SEKIHARA, Kazuya; TSUTSUI, Ayumi; KIMURA, Masaya; HAJIMOTO, Takashi

Chair: TANAKA, Katsunori (14:30~15:30)

* 14:20-14:30: interval for laptop PC connection.(3J5-34, 3J5-36, 3J5-37, 3J5-38, 3J5-39)

- 3J5-34*** Synthesis and Structural Revision of Sugar-Modified Versipelostatin Derivatives Based on Direct and Stereoselective Glycosylation Strategy (Tokyo Institute of Technology; JBIC; AIST) YOSHIZAWA, Atsushi; TANAKA, Hiroshi; CHIJIWA, Shuhei; TAKAGI, Motoki; SHIN-YA, Kazuo; TAKAHASHI, Takashi
- 3J5-36[†]** Synthetic Study of β Glucan Polysaccharides (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) KAWAI, Tatsuya; TANAKA, Hiroshi; TAKEUCHI, Ryota; ADACHI, Yoshiyuki; OHNO, Naohito; TAKAHASHI, Takashi
- 3J5-37** Synthesis of Forsmann Antigen Oriented Derivatives and Structure-activity-relationship (Tokyo Institute of Technology) TANAKA, Hiroshi; TAKEUCHI, Ryota; JINBO, Mitsuru; TAKAHASHI, Takashi
- 3J5-38** Chemoselective Glycosylations Using 2,3-Unsaturated and 2,3-Unsaturated-4-keto Sugars and Their Applications to Deoxyoligosaccharides-Synthesis (Keio Univ. ; Faculty of Science and Technology) KUSUMI, Shunichi; WANG, Sainan; WATANABE, Tatsuya; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 3J5-39** A Chemoselective Glycosylation Method Using 2,3-Dideoxy and 2,3-Unsaturated-4-keto Sugars and Its Application to Deoxyoligosaccharides-Synthesis (Keio Univ. ; Faculty of Science and Technology) KUSUMI, Shunichi; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Chair: TAKAHASHI, Daisuke (15:40~16:40)

* 15:30-15:40: interval for laptop PC connection.(3J5-41, 3J5-43, 3J5-44, 3J5-45, 3J5-46)

- 3J5-41*** Direct synthesis of sugar oxazoline derivatives in aqueous media (Graduate School of Engineering, Tohoku Univ.) NOGUCHI, Masato; TANAKA, Tomonari; KOBAYASHI, Atsushi; SHODA, Shin-ichiro
- 3J5-43** One-step Synthesis of 1,6-Anhydrosugars in Aqueous Solution (Graduate School of Engineering, Tohoku Univ.) HUANG, Wei-chun; TANAKA, Tomonari; NOGUCHI, Masato; KOBAYASHI, Atsushi; SHODA, Shin-ichiro
- 3J5-44** Synthetic Study of Urea Glycoside by Using Unprotected Sugar (Kochi Univ) KUSABA, Shouhei; ICHIKAWA, Yoshiyasu
- 3J5-45** Anomeric effect of isonitrile (Kochi Univ.) WATANABE, Hitomi; NAKANO, Keiji; ICHIKAWA, Yoshiyasu
- 3J5-46** One-step synthesis of di- and mono-substituted myo-inositols (Ehime Univ.) WATANABE, Yutaka; TOMITA, Kousei; YAMAUCHI, Satoe; SAIKI, Takafumi; HAYASHI, Minoru

Chair: NAKANO, Keiji (16:50~17:50)

* 16:40-16:50: interval for laptop PC connection.(3J5-48, 3J5-50, 3J5-51, 3J5-54, 3J5-55, 3J5-56)

- 3J5-48*** Synthesis of *Rubrivivax gelatinosus* Lipid A and Analogues for Investigation of the Structural Basis for Immunostimulating and Inhibitory Activities (Graduate School of Science, Osaka Univ.) FUKASE, Yoshiyuki; FUJIMOTO, Yukari; ADACHI, Yo; SUDA, Yasuo; KUSUMOTO, Shoichi; FUKASE, Koichi
- 3J5-50** Synthetic studies of immunostimulatory lipid A's from *Porphyromonas gingivalis* (Grad. Sch. of Sci., Osaka Univ.) KASAMATSU, Chika; SHIMOYAMA, Atsushi; FUJIMOTO, Yukari; FUKASE, Koichi
- 3J5-51** Young Scholar Lectures of CSJ Synthetic Study towards Complex Glycans from Bacterial Glycoconjugates (RIKEN) ISHIWATA, Akihiro

Chair: IAHIWATA, Akihiro (17:50~18:20)

- 3J5-54** Highly β -selective O-galactosidation using the conformationally restricted galactosyl donor due to the 3,6-O-(o-xylylene) bridge (Kwansei Gakuin Univ.; Graduate School of Science and Technology) ASAKURA, Noriaki; HIRAYAMA, Sumiko; YAMADA, Hidetoshi
- 3J5-55** β -selective glycosidation using the glycosyl donor of 3,6-O-{2,3-naphthylenebis(methylene)} bridge (Kwansei Gakuin Univ.; Graduate School of Science and Technology) BANDO, Masafumi; ASAKURA, Noriaki; OKADA, Yasunori; YAMADA, Hidetoshi
- 3J5-56** Stereoselective Synthetic Study of the Sugar Part of Octosyl Acid A (Faculty of Eng. and Grad. School of Sci. and Tec., Niigata Univ.) SUZUKI, Toshio; INOUE, Shuji; HAGIWARA, Hisahiro; HOSHI, Takashi

Monday, March 30, AM

Sugar

Chair: OKA, Natsuhisa (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(4J5-01, 4J5-02, 4J5-04, 4J5-05)

4J5-01 Stereoselective glycosylation by using latent imidate structures as leaving groups (Grad. Sch. of Sci., Osaka Univ.) MORI, Motoko; MITSUNOBE, Kunihiro; FUJIMOTO, Yukari; FUKASE, Koichi**4J5-02***† One-pot Chemo-enzymatic Oligosaccharide Synthesis through Sugar Triazine Derivatives (Graduate School of Engineering, Tohoku Univ.) TANAKA, Tomonari; ISHIIHARA, Masaki; NOGUCHI, Masato; KOBAYASHI, Atsushi; SHODA, Shin-ichiro**4J5-04** Stereochemistry and Reactivity of Glycosyl Sulfonium Ions (Kyoto Univ.; RIKEN) NOZAKI, Yuki; SHIBUYA, Akito; NAKATSUTSU, Takayuki; NOKAMI, Toshiaki; MANABE, Shino; ITO, Yukishige; YOSHIDA, Jun-ichi**4J5-05*** Synthetic studies of cucurbitosides by fluororous mixture synthesis (Niigata Univ. of Pharmacy and Applied Life Sciences) KOJIMA, Masaru; NAKAMURA, Yutaka; SEKIGAWA, Takayuki; NAKAMURA, Atsushi; TAKEUCHI, Seiji

Chair: MANABE, Shino (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(4J5-08, 4J5-09, 4J5-10, 4J5-11, 4J5-12, 4J5-13)

4J5-08 Synthesis of macrocyclic glycosides by fluororous mixture synthesis (Niigata Univ. of Pharmacy and Applied Life Sciences) KOJIMA, Masaru; KONNO, Hiroko; NAKAMURA, Yutaka; TAKEUCHI, Seiji**4J5-09** Synthetic Study of the Pluramycins: Synthesis of the Anthraquinone Structure. (Tokyo Institute of Technology; SORST) KITAMURA, Kei; SHIGETA, Masayuki; MATSUMOTO, Takashi; SUZUKI, Keisuke**4J5-10** Synthesis of di-C-glycosylflavones and isoflavones (Graduate School of Science and Engineering, Yamagata Univ.) ISHIKAWA, Hidetoshi; KOIDE, Tomoyuki; SATO, Shingo**4J5-11** Oligosaccharides synthesis using the heavy fluororous thioglycoside (The Noguchi Institute) NUERMAIMAITI, Nueramina; GOTO, Kohtarō; MIZUNO, Mamoru**4J5-12** Enzymatic α -glucosaminylation of maltoooligosaccharides catalyzed by phosphorylase. (Kagoshima Univ.) NAWAJI, Mutsuki; KANEKO, Yoshiro; KADOKAWA, Jun-ichi**4J5-13** Synthetic Studies of CF_2 -Linked Ganglioside GM3 Analogue (RIKEN) KATO, Marie; HIRAI, Go; OKADA, Mitsuaki; MIYAGI, Taeko; SODEOKA, Mikiko

Chair: FUJIMOTO, Yukari (11:20~12:30)

* 11:10-11:20: interval for laptop PC connection.(4J5-15, 4J5-16, 4J5-17, 4J5-18, 4J5-19, 4J5-20)

4J5-15 The evidence of endocyclic cleavage of pyranosides (RIKEN, Advanced Science Institute) MANABE, Shino; ISHII, Kazuyuki; KOSHINO, Hiroyuki; HASHIZUME, Daisuke; ITO, Yukishige**4J5-16** Stereoselective synthesis of glycosyl boranophosphate analogs (Univ. of Tokyo) WADA, Takeshi; SATO, Kazuki; OKA, Natsuhisa; FUJITA, Shoichi; MATSUMURA, Fumiko**4J5-17** Stereoselective glycosylation under basic conditions using remote participating groups (Univ. of Tokyo) SUENAGA, Runa; MATSUMURA, Fumiko; NAGAFUJI, Kenta; OKA, Natsuhisa; WADA, Takeshi**4J5-18** Synthesis of oligo(α -D-glycosyl boranophosphates) (Univ. of Tokyo) FUJITA, Shoichi; OKA, Natsuhisa; MATSUMURA, Fumiko; WADA, Takeshi**4J5-19** Synthesis of glycosyl phosphate derivatives by glycosylation of *H*-phosphonates. (Univ. of Tokyo) MATSUMURA, Fumiko; OKA, Natsuhisa; WADA, Takeshi**4J5-20*** Synthetic Studies on DEFGH-ring System of Physalins (RIKEN) OHKUBO, Megumi; HIRAI, Go; SODEOKA, Mikiko

Room J6

Bldg.11 1143

Biofunctional Chemistry ; Biotechnology

Friday, March 27, AM

Chair: AONO, Shigetosh (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1J6-01, 1J6-03, 1J6-05, 1J6-06)

1J6-01* Selective and direct inhibition of TRPC3 channels underlies biological activities of a pyrazole compound (Grad. Sch. Engineer., Kyoto Univ.) KIYONAKA, Shigeki; KATO, Kenta; NISHIDA, Motohiro; MIO, Kazuhiro;

SATO, Chikara; HAMACHI, Itaru; MORI, Yasuo

1J6-03* Molecular determinant of phthalic diamide agonist sensitivity in silkworm ryanodine receptors. (Grad. Sch. Engineer., Kyoto Univ.) KIYONAKA, Shigeki; KATO, Kenta; SAWAGUCHI, Yuichi; MIZUNO, Yuzuke; MASAKI, Takao; HAMACHI, Itaru; MORI, Yasuo**1J6-05** Reactivity of Tyrosinase Expressed with Tyrosinase-Encoding Gene *melD* from *Aspergillus oryzae* (Graduate school of science, Osaka city university; Graduate school of engineering, Osaka university; Gekkeikan Sake Co.Ltd) IKEDA, Takuya; MURATA, Michiaki; NAKAMURA, Yukihiro; HATA, Yoji; ITOH, Shinobu**1J6-06** Monooxygenase Activity of Crab Hemocyanin (Osaka City Univ.; Osaka Univ.) YAKIYAMA, Aki; MURATA, Michiaki; ITOH, Shinobu

Chair: KIYONAKA, Shigeki (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(1J6-08, 1J6-09, 1J6-11, 1J6-12)

1J6-08 Functional analysis a Fe-S cluster involved in a nitrogenase transcriptional regulator, VnfA (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) NAKAJIMA, Hiroshi; TAKATANI, Nobuyuki; WATANABE, Yoshihito; AONO, Shigetoshi**1J6-09***† Nitrogenase Transcriptional Activator, VnfA - Identification of Signal Molecule by Using *in vivo* Activity Assay System - (Grad. Sch. Sci., Nagoya Univ.) YOSHIMITSU, Kyohei; TAKATANI, Nobuyuki; NAKAJIMA, Hiroshi; AONO, Shigetoshi; WATANABE, Yoshihito**1J6-11** Aromatic C-H bond Hydroxylation by Hydrogen Peroxide-Dependent Cytochrome P450_{BS β} (Grad. School of Sci. Nagoya Univ.) SHOJI, Osami; FUJISHIRO, Takashi; WIESE, Christian; WÜNSCH, Bernhard; NAGANO, Shingo; SHIRO, Yoshitsugu; WATANABE, Yoshihito**1J6-12***† Structural Changes Induced by Substrate Binding and Regulation Mechanism of Hydrogen Peroxide Access in Hydrogen Peroxide-dependent P450 (Grad. Sch. Sci. Nagoya Univ. RIKEN Harima SPring-8 Ctr., Res. Ctr. Mat. Sci. Nagoya Univ.) FUJISHIRO, Takashi; SHOJI, Osami; TANAKA, Shota; NAGANO, Shingo; SHIRO, Yoshitsugu; WATANABE, Yoshihito

Chair: WATANABE, Yoshihito (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(1J6-15, 1J6-16, 1J6-17, 1J6-18, 1J6-20)

1J6-15 Behavior of the copper center in particulate methane monooxygenase from *M. trichosporium* OB3b. (Department of Bioengineering and Biotechnology, Tokyo Institute of Technology) SAITO, Masaru; TABATA, Kenji; ASAKURA, Noriyuki; KOHZUMA, Takamitsu; KAMACHI, Toshiaki; OKURA, Ichiro**1J6-16** Effects of pH on catalytic reaction of thermophilic cytochrome P450 (Department of Biotechnology, Tokyo Univ. of Agri. & Tech.) HAYAKAWA, Shohei; MATSUDA, Keisuke; MATSUMURA, Hiroto; NAKAMURA, Nobuhumi; YOHDA, Masafumi; OHNO, Hiroyuki**1J6-17** De novo design of blue copper protein and effect of axial ligands on UV-vis spectral change (Graduate School of Engineering, Nagoya Institute of Technology) HAMANO, Yusuke; SHIGA, Daigo; NAKANE, Daisuke; ODA, Masayuki; INOMATA, Tomohiko; FUNAHASHI, Yasuhiro; MASUDA, Hideki; TANAKA, Toshiaki**1J6-18***† Analysis of the Reaction Mechanism of DNA-Binding Protein Using Microchannel and Single-Molecule Tracking (PME, Nagoya Univ.) ONOSHIMA, Daisuke; KAJI, Noritada; TOKESHI, Manabu; BABA, Yoshinobu**1J6-20** Tyrosinase like activity of A β /Cu complex on liposome membrane "LIPOzyme(VII)" (Facil.Chem.Eng.Sci., Grad.Schl.Eng.Sci., Osaka Univ.) SHIMANOCHI, Toshinori; MATSUMOTO, Tadaharu; Vu Thi, Huong; UMAKOSHI, Hiroshi; KUBOI, Ryoichi

Friday, March 27, PM

Chair: UMAKOSHI, Hiroshi (13:30~14:30)

* 13:20-13:30: interval for laptop PC connection.(1J6-28, 1J6-30, 1J6-31, 1J6-32, 1J6-33)

1J6-28* Catalytic reactions of functional molecules arranged on the repeated structure of a beta-helix (Grad. Sch. Sci. Nagoya Univ.; iCeMS, Kyoto Univ.; PRESTO; Grad. Sch. Biosci. and Biotech. Tokyo Inst. Tech.; Res. Ctr. Mat. Sci. Nagoya Univ.) YOKOI, Norihiko; MIURA, Yuki; INABA, Hiroshi; HUANG, Chen-yuang; UENO, Takafumi; KANAMARU, Shuji; ARISAKA, Fumio; WATANABE, Yoshihito**1J6-30** Electrochemical behavior of linearly assembled hemoproteins immobilized on gold electrode (Osaka Univ.; Division of Engineering) KAKIKURA, Yasuaki; ONODA, Akira; HAYASHI, Takashi**1J6-31** Study of substrate-binding behaviors toward hybrid myoglobin and its oxidation activities (Osaka Univ.) FUKUMOTO, Kazuki; MATSUO, Takashi; HAYASHI, Takashi**1J6-32** Functional analysis of the N-terminal domain of hexameric copper-containing nitrite reductase (Dep. of Chem., Grad. of Sci., Osaka Univ.) IKEBUCHI, Saori; NOJIRI, Masaki; YAMAGUCHI, Kazuya; SUZUKI, Shinnichiro**1J6-33** Intermolecular electron transfer reaction of *c*-type heme-containing copper nitrite reductase from *Pseudoalteromonas haloplanktis* TAC125 (Dep. of Chem., Grad. of Sci., Osaka Univ.) ISHIKAWA, Ryouyusuke; NOJIRI, Masaki; YAMAGUCHI, Kazuya; SUZUKI, Shinnichiro

Chair: HAYASHI, Takashi (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1J6-35, 1J6-36, 1J6-37, 1J6-39)

- 1J6-35[†]** Determination of the Amino Acid Residues That Contribute to Xylan-binding of CBM Family 36 Xylan-binding Domain (Tokyo tech. Biosci. Biotech.) YAZAWA, Risa; TAKAKURA, Jun; SAKATA, Tomoko; MIYAKUBO, Hiroyuki; Ihsanawati; UMEMOTO, Hirohito; YATSUNAMI, Rie; FUKUI, Toshiaki; KUMASAKA, Takashi; TANAKA, Nobuo; NAKAMURA, Satoshi
- 1J6-36** Characterization of the Heme Domain of a Heme-regulated Cyclic-di-GMP Synthase (Inst. Multi. Res. Adv. Mat., Tohoku Univ.) KAWAMURA, Yuriko; KITANISHI, Kenichi; SHIMIZU, Toru
- 1J6-37*** Molecular recognition mechanism of an anti-ciguatoxin antibody based on the structural, thermodynamic, and kinetic analyses (Graduate School of Frontier Sciences, The Univ. of Tokyo) UI, Mihoko; TANAKA, Yoshikazu; TSUMURAYA, Takeshi; FUJII, Ikuo; INOUE, Masayuki; HIRAMA, Masahiro; TSUMOTO, Kouhei
- 1J6-39*** Elucidation of region responsible for substrate specificity based on the analyses of structure-function correlation in fructosyl amino acid oxidases (Tokyo Univ. Agric. and Technol.) KIM, Seungsu; MIURA, Seiji; FERRI, Stefano; TSUGAWA, Wakako; SODE, Koji

Chair: NAKAMURA, Nobufumi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1J6-42, 1J6-43, 1J6-44, 1J6-45, 1J6-46, 1J6-47)

- 1J6-42** Formation of Alkylperoxy-Iron Porphyrin Complex Encapsulated in Cyclodextrin Cavities in Aqueous Solution at Room Temperature (Doshisha Univ.) TAMAKI, Mariko; KITAGISHI, Hiroaki; HIROTA, Shun; KANO, Koji
- 1J6-43** Preparation of magnetic enzymes by immobilization and coating with magnetic nanoparticles and their enzyme activity and enantioselectivity (Graduate School of Human Development and Environment, Kobe Univ.) OKU, Yukari; HAMADA, Takeshi; EBARA, Yasuhito; UEJI, Shinichi
- 1J6-44** The improvement of lipase's functions by use of the bioimprinting method. (Graduate School of Human Development and Environment, Kobe Univ.) SHIGEMURA, Takeru; YMASHITA, Ken; UEJI, Shinichi
- 1J6-45** Catalytic Mechanism of a Heme-regulated Oxygen Sensor, Ec DOS (Inst. Multi. Res. Adv. Mat., Tohoku Univ.) SEKIMOTO, Madoka; SHIMIZU, Toru; IGARASHI, Jotaro
- 1J6-46** Heme-sensing Mechanism of Human Heme-regulated eIF2 α Kinase (Inst. Multi. Res. Adv. Mat., Tohoku Univ.) YAMAMURA, Ayano; IGARASHI, Jotaro; SHIMIZU, Toru
- 1J6-47** Heme Environment Structure of Transcriptional Regulatory Factors, mPer3, Associated with Circadian Rhythms (Tohoku Univ. IMRAM) HARADA, Mami; KITANISHI, Kenichi; IGARASHI, Jotaro; SHIMIZU, Toru

Chair: NAKAMURA, Kaoru (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1J6-49, 1J6-50, 1J6-51, 1J6-52, 1J6-53)

- 1J6-49** The role of the cysteine residue in the reaction of human myoglobin with hydrogen peroxide (Nara Institute of Science and Technology (NAIST)) NAGAO, Satoshi; ASAMI, Osamu; YASUI, Hiroyuki; HIROTA, Shun
- 1J6-50** Study on the effect of pH and L-lactate on the oxygen binding character of arthropod hemocyanin (Nara Institute of Science and Technology (NAIST)) TANAKA, Naoki; NAGAO, Satoshi; KITAGISHI, Hiroaki; KANO, Koji; BUBACCO, Luigi; BELTRAMINI, Mariano; DI MURO, Paolo; HIROTA, Shun
- 1J6-51** Thermodynamic consideration to DNA condensation mechanism by oligoarginine (Faculty of Pharmaceutical Sciences, Doshisha Woman's Univ.) TANIGUCHI, Jinya; NEGI, Shigeru; KITAGISHI, Hiroaki; KANO, Koji; SUGIURA, Yukio
- 1J6-52** Analysis of Multistep Reaction of mRNA Transcription Using a Quartz-Crystal Microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) HIRANAGA, Kazuya; TAKAHASHI, Shuntaro; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 1J6-53*** Evaluation of protein expression depending on the sequence of mRNA based on real-time monitoring of protein synthesis (Dept. Biomol. Engineering, Tokyo Inst. of Tech.; JST-SENTAN) TAKAHASHI, Shuntaro; FURUSAWA, Hiroyuki; SHIMIZU, Yoshihiro; UEDA, Takuya; OKAHATA, Yoshio

Natural Products Chemistry

Saturday, March 28, AM

Others

Chair: SHINADA, Tetsuro (9 : 00 ~ 9 : 50)

* 8:50-9:00: interval for laptop PC connection.(2J6-01, 2J6-02, 2J6-03, 2J6-04, 2J6-05)

- 2J6-01** Study of endogenous nucleic acid (5) (Tohoku Univ.; Graduate School of Life Sciences, Kumamoto Univ.; Graduate School of Medical

Sciences) SAITO, Yohei; FUJII, Shigemoto; SAWA, Tomohiro; AKAIKE, Takaaki; ARIMOTO, Hirokazu

- 2J6-02** Study of endogenous nitrated nucleic acid (6) (Tohoku Univ.; Graduate School of Life Sciences, Kumamoto Univ.; Graduate School of Medical Sciences) ITO, Chiaki; SAITO, Yohei; OKAMOTO, Tatuya; SAWA, Tomohiro; AKAIKE, Takaaki; ARIMOTO, Hirokazu
- 2J6-03** Study of endogenous nitrated nucleic acid (7) (Tohoku Univ.; Graduate School of Life Sciences, Kumamoto Univ.; Graduate School of Medical Sciences) TANOI, Takashi; KIDA, Eriko; SAITO, Yohei; SAWA, Tomohiro; AKAIKE, Takaaki; ARIMOTO, Hirokazu
- 2J6-04** Isolation and Structure Determination of Novel Macrolide Glycoside from Uncharacterized Cyanobacteria (Faculty of Science and Technology, Keio Univ.) SASAKI, Hiroaki; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 2J6-05** Structure Determination of the Novel Macrolide Glycoside from Okinawan Uncharacterized Cyanobacteria (Faculty of Science and Technology, Keio Univ.) SASAKI, Hiroaki; KITAMURA, Kazuhiro; TERUYA, Toshiaki; SUENAGA, Kiyotake

Chair: SUENAGA, Kiyotake (10 : 00~10 : 50)

* 9:50-10:00: interval for laptop PC connection.(2J6-07, 2J6-09, 2J6-10, 2J6-11)

- 2J6-07*[†]** Efficient Total Synthesis of Kaitocephalin (Graduate School of Sci., Osaka City Univ.) HAMADA, Makoto; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 2J6-09** Mild Transesterification with K₂HPO₄ (Graduate School of Sci., Osaka City Univ.) MIYOSHI, Kota; HAMADA, Makoto; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 2J6-10** Synthesis of New Glutamate Analogs Using Kaitocephalin as the Structural Motif. (Graduate School of Sci., Osaka City Univ.) MORI, Masahiro; HAMADA, Makoto; SHINADA, Tetsuro; OHFUNE, Yasufumi; SHIMAMOTO, Keiko
- 2J6-11** Development of a New All-in-one Type Photoreactive Group Equipped with an Ethynyl Group as Detection Tag for Radioisotope-free Photoaffinity Labeling (Tokyo Inst. Tech.) HIRAMATSU, Toshiyuki; GUO, Ying; HOSOYA, Takamitsu

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

* 10:50-11:00: interval for laptop PC connection.(2J6-13, 2J6-14, 2J6-16, 2J6-17, 2J6-18)

- 2J6-13** Studies on the toxic constituents of *Russula subnigricans* (1) (Faculty of Science and Technology, Keio Univ.) KATO, Suguru; MATSUURA, Masanori; SAIKAWA, Yoko; HASHIMOTO, Kimiko; NAKATA, Masaya
- 2J6-14*[†]** Studies on the toxic constituents of *Russula subnigricans* (2) (Faculty of Science and Technology, Keio Univ.) MATSUURA, Masanori; SAIKAWA, Yoko; HASHIMOTO, Kimiko; NAKATA, Masaya
- 2J6-16** The Study of Stereoselective Alkylation to Aspartic Acid Derivatives (Univ. of Kwansai, Science of Technology) HARADA, Syuji; SAKAMOTO, Kouichirou; YAMAMOTO, Tetsuya; KATSUMURA, Shigeo
- 2J6-17** Synthetic Study of Diaporthichalasin (Department of Applied Chemistry, Keio Univ.) TERADA, Daisuke; ONO, Hiroyuki; TAKAO, Ken-ichi; TADANO, Kin-ichi
- 2J6-18** Synthesis of a stereoisomer of Spiculoic Acid A (Department of Applied Chemistry, Keio Univ.) TODA, Takumi; MATSUMURA, Daisuke; TAKAO, Ken-ichi; TADANO, Kin-ichi

Saturday, March 28, PM

Chair: KITA, Masaki (13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(2J6-26, 2J6-28, 2J6-29, 2J6-30, 2J6-31)

- 2J6-26*[†]** Au-catalyzed Regio- and Stereoselective Cyclization of Allenylsilanes Affording α -Amino- γ -butyrolactones : Total Synthesis of (-)-Funebrine (Graduate School of Sci., Osaka City Univ.) OKADA, Takuya; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi
- 2J6-28** Synthetic Study of Kainic Acid (Graduate School of Science, Osaka City Univ.) OE, Kentaro; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 2J6-29** Synthetic Study of Perforatumone (Department of Applied Chemistry, Keio Univ.) MIYASHITA, Tomo; KOJIMA, Yuki; TAKAO, Ken-ichi; TADANO, Kin-ichi
- 2J6-30** Substrate Specificity of Luciferases for Coelenterazine Analogues (Tokyo Inst. Tech.; Chisso Co.) IIMORI, Rie; HOSOYA, Takamitsu; SAHARA, Yuiko; INOUE, Satoshi
- 2J6-31** Synthesis of Novel Fluorescent Coelenteramide Analogues (Tokyo Inst. Tech., Chisso Co.) OKA, Kohei; HOSOYA, Takamitsu; INOUE, Satoshi

Chair: TAKAO, Ken-Ichi (14 : 20~15 : 10)

* 14:10-14:20: interval for laptop PC connection.(2J6-33, 2J6-34, 2J6-35, 2J6-36, 2J6-37)

- 2J6-33** Innovation of multi color luciferin analogs (Univ. of Electro-Communications) YAMAMICHI, Shuei; SAITO, Tsuyoshi; NISHIYAMA, Shigeru; KOJIMA, Satoshi; MAKI, Shojiro; HIRANO, Takashi; NIWA, Haruki
- 2J6-34** Innovation of emission probe based on firefly bioluminescence (The Univ. of Electro-Communications) KIYAMA, Masahiro; SAITO, Tsuyoshi;

NISHIYAMA, Shigeru; KOJIMA, Satoshi; MAKI, Shojiro; HIRANO, Takashi; NIWA, Haruki

- 2J6-35** Innovation of artificial emitter system based on firefly bioluminescence (Univ. of Electro-Communications, Dept. of Applied Physics and Chemistry) YAGIUCHI, Satoru; SAITOU, Tsuyoshi; NISHIYAMA, Shigeru; KOJIMA, Satoshi; MAKI, Shojiro; HIRANO, Takashi; NIWA, Haruki
- 2J6-36** Medicinal chemistry of vancomycin using Pd-mediate cross-coupling. (Graduate School of Life Science, Tohoku Univ.) NAKAMA, Yuki; YOSHIDA, Osamu; SAWADA, Yuri; ARIMOTO, Hirokazu
- 2J6-37** Synthesis of vancomycin dimers with antibacterial activity against vancomycin-resistant bacteria (6) (Graduate School of Life Sciences, Tohoku Univ.) NAKAMURA, Jun; YAMAMOTO, Mami; HAYASHI, Sayaka; YOSHIDA, Osamu; MIURA, Kenji; MAKI, Hideki; ARIMOTO, Hirokazu

Chair: KUDO, Fumitaka (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2J6-39, 2J6-40, 2J6-41, 2J6-42, 2J6-43, 2J6-44)
- 2J6-39** Synthesis of novel vancomycin dimers with antibacterial activity against vancomycin-resistant bacteria (7) (Graduate School of Life Sciences, Tohoku Univ.) NAKAMURA, Jun; YAMAMOTO, Mami; HAYASHI, Sayaka; YOSHIDA, Osamu; MIURA, Kenji; MAKI, Hideki; ARIMOTO, Hirokazu
- 2J6-40** Synthesis of Lipid intermediate derived from vancomycin-resistant bacteria (Graduate School of Life Sciences, Tohoku Univ.) NAKAMURA, Jun; MIYA, Hiroto; MIURA, Kenji; YAMASHIRO, Hidenori; MAKI, Hideki; ARIMOTO, Hirokazu
- 2J6-41[†]** Structure-activity relationships of glaziovianin A (Univ. of Tsukuba) IKEDO, Akiyuki; HAYAKAWA, Ichiro; KAZAMI, Sayaka; USUI, Takeo; KIGOSHI, Hideo
- 2J6-42** Synthetic study on bioactive lignan compound from Okinawan Ascidian (Faculty of Science and Technology, Keio Univ.) OKUBO, Akifumi; IWASAKI, Arihiro; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 2J6-43[†]** Studies on VCAM-1 Inhibitor from Marine Dinoflagellates (Graduate School of Science, Nagoya Univ.; Faculty of Science and Technology, Keio Univ.) MARU, Norihito; YAMADA, Kaoru; OHNO, Osamu; UEMURA, Daisuke
- 2J6-44** Synthetic Study of the C33-C42 Fragment of Symbiodinolate (Nagoya Univ.; Okayama Univ.; Keio Univ.) AOYAMA, Yoko; MURATA, Takeshi; TAKAMURA, Hiroyoshi; UEMURA, Daisuke

Chair: OKADA, Masahiro (16 : 30~17 : 10)

- * 16:20-16:30: interval for laptop PC connection.(2J6-46, 2J6-48, 2J6-49)
- 2J6-46*** Bioorganic study on the neurotoxic substances from platypus, an Australian unique mammal (Tsukuba Univ.; Keio Univ., Nagoya Univ.; Univ. of New South Wales) KITA, Masaki; OHNO, Osamu; YAMADA, Kaoru; KIGOSHI, Hideo; UEMURA, Daisuke; BLACK, David
- 2J6-48** Study on enzymatic synthesis of 2-deoxystreptamine (2-DOS)-containing aminoglycoside antibiotics (Graduate School of Science and Engineering Tokyo Institute Of Technology) AMAGAI, Keita; KUDO, Fumitaka; EGUCHI, Tadashi
- 2J6-49** Study on substrate specificity of thioesterase domain from vicenistatin polyketide synthase (Graduate school of science and engineering, tokyo institute of technology) ASO, Yusaku; WATANABE, Moe; KUDO, Fumitaka; EGUCHI, Tadashi

Sunday, March 29, AM

Others

Chair: FUKUZAWA, Seketsu (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3J6-01, 3J6-02, 3J6-03, 3J6-04, 3J6-05, 3J6-06)
- 3J6-01** Identification of 17-Propionate Ester Group of Bacteriopheophytin in the Reaction Center from Purple Photosynthetic Bacteria (Ritsumeikan Univ.) ISAJI, Megumi; HARADA, Jiro; MIZOGUCHI, Tadashi; TAMIAMI, Hitosi
- 3J6-02** Determination of Stereochemical Structures of Naturally Occurring Chlorophylls *c* (Ritsumeikan Univ.) TAMIAMI, Hitoshi; KIMURA, Yuki; MIZOGUCHI, Tadashi
- 3J6-03** Inhibitory effect of coumarin analogue against the activity of angiotensin II (Graduate School of Science, Nagoya Univ.) OHNO, Osamu; NAKAMURA, Kazuhiko; WATABE, Taeko; PERSSON, Amelia; OHNO, Tomohiro; YAMAGUCHI, Kohji; UEMURA, Daisuke
- 3J6-04** Allelochemicals for Coral Larvae from Crustose Coralline Red Algae (2) (Keio Univ.) KITAMURA, Makoto; PETER, Schupp; NAKANO, Yoshikatsu; UEMURA, Daisuke
- 3J6-05** Total synthesis of complanin, an inflammation inducing substance of marine fireworm (Nagoya Univ., Keio Univ.) NAKAMURA, Kazuhiko; TACHIKAWA, Yu; UEMURA, Daisuke
- 3J6-06** Synthesis and stomatal opening activity of Coronatine (Department of Chemistry, Graduate School of Science, Tohoku Univ.) OKADA, Masahiro; ITO, Satoko; MATSUBARA, Akira; UEDA, Minoru

Amino Acid

Chair: NAKAMURA, Kazuhiko (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3J6-08, 3J6-09, 3J6-10, 3J6-11, 3J6-12, 3J6-13)
- 3J6-08** New Synthetic Approach to SH2 Domain Idiotype by Self-Activated Click Peptides (Osaka Univ., Department of Chemistry; RIKEN, Center for Molecular Imaging Science) SHIROTSUKI, Sanae; KAGEYAMA, Chika; TAHARA, Tsuyoshi; NOZAKI, Satoshi; WATANABE, Yasuyoshi; TANAKA, Katsunori; FUKASE, Koichi
- 3J6-09** Synthesis of immunostimulating bacterial cell wall peptidoglycan partial structures containing lanthionine (Grad. Sch. of Sci., Osaka Univ.) OTSUKA, Yuji; KARASUDANI, Yuki; KAWASAKI, Akiko; FUJIMOTO, Yukari; FUKASE, Koichi
- 3J6-10** Synthesis of artificial lipopeptides and their supramolecular formation (Tokai Univ.) SUZUKI, Ayumi; KURAMOCHI, Mayuko; INAZU, Toshiyuki
- 3J6-11** A Novel Oligopeptide from Achiral Amino Acid, 4-Aminopiperidine-4-Carboxylic Acid, and Its Properties (School of Engineering, The Univ. of Tokyo) TANAKA, Masahiro; CHO, Joonil; KINBARA, Kazushi; AIDA, Takuzo
- 3J6-12** Peptide Purification using Edman Degradation (Osaka university; Institute for Protein Research) TAINOSHO, Akira; HARA, Toshiaki; KAWAKAMI, Toru; AIMOTO, Saburo
- 3J6-13** Highly sensitive fluorescence HPLC method for advanced glycation end products (Graduate school of science, Osaka Univ.) KITAMURA, Asuka; MATSUI, Kota; MATSUMORI, Nobuaki; OISHI, Tohru; MURATA, Michio; KAWAKAMI, Tohru; AIMOTO, Saburo

Chair: MATSUMORI, Nobuaki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3J6-15, 3J6-17, 3J6-18, 3J6-19)
- 3J6-15*** Chemical Synthesis of Voltage-Gated Proton Channel by the Thioester Method (Institute for Protein Research, Osaka Univ.) NAKAMURA, Ken'ichiro; HARA, Toshiaki; SATO, Takeshi; KAWAKAMI, Toru; AIMOTO, Saburo
- 3J6-17** Sequential Ligation by Native Chemical Ligation Method and the Thioester Method by Using Methylthio Group as a Thiol Protecting Group (Institute for Protein Research, Osaka Univ.) AKAI, Yuichi; WASEDA, Masazumi; AOKI, Yuko; TAKEMURA, Lisa; KAWAKAMI, Toru; AIMOTO, Saburo
- 3J6-18** Synthesis of Oligodehydropeptide Utilizing Azlactone (Kanazawa Univ., Graduate School of Natural Science and Technology) KAWABATA, Yuh; KINOSHITA, Hideki; INOMATA, Katsuhiko
- 3J6-19*** Peptide ligation by the cysteinyl prolyl ester (CPE) method (Osaka Univ.) KAWAKAMI, Toru; AIMOTO, Saburo

Sunday, March 29, PM

Chair: SHINADA, Tetsuro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3J6-28, 3J6-29, 3J6-30, 3J6-31, 3J6-32, 3J6-33)
- 3J6-28[#]** Synthetic Study of Kahalalide F (Faculty of Science and Technology, Keio Univ.) HAMMAM, Mostafa; NAKAMURA, Kazuhiko; UEMURA, Daisuke
- 3J6-29** Synthetic study on Miuraenamidine A, an antimicrobial cyclic depsipeptide (Faculty of Science and Technology, Keio Univ.) TOKUZUMI, Keita; TORIHARA, Eisuke; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 3J6-30** Synthetic study on Palau'amidine, a cytotoxic marine cyclopeptide. (Faculty of Science and Technology, Keio Univ.) SUGIYAMA, Hirokazu; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 3J6-31** Synthesis and structure-bioactivity relationships of antileishmanial lipopeptide, ciliatamide A-C and their derivatives from sea *Asptos Ciliata*. (Aoyama Gakuin Univ.) OMORI, Hiroshi; UMEHARA, Masahiro; NAKAO, Yoichi; KIMURA, Junji
- 3J6-32** Conformational structure-bioactivity relationships of kulokekahlide-2 analogues(4) (Aoyama Gakuin Univ.) UMEHARA, Masahiro; MAEHARA, Yukie; NAKAO, Yoichi; KIMURA, Junji
- 3J6-33** Synthesis of macrocyclic hexaoxazoles (6OTDs) dimmer and evaluation of their biological activity (Tokyo Univ of Agri and Tech) IIDA, Keisuke; TERA, Masayuki; TAKAGI, Motoki; SHIN-YA, Kazuo; NAGASAWA, Kazuo

Chair: FUSE, Shinichiro (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3J6-35, 3J6-37, 3J6-38, 3J6-39, 3J6-40)
- 3J6-35*** 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
- 3J6-37[†]** Design and synthesis of novel acromelic acid analogs that exert anti-allodynic effects (Graduated School of Medicine, Gifu Univ.) KANAZAWA, Masakatsu; MAEDA, Masahide; ITO, Seiji; MINAMI, Toshiaki; SUZUKI, Masaaki; FURUTA, Kyoji

Room K1

Bldg.12 1231

Coordination Chemistry, Organometallic Chemistry

Friday, March 27, AM

Chair: FUJISAWA, Kiyoshi (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1K1-01, 1K1-02, 1K1-03, 1K1-04, 1K1-05, 1K1-06)

1K1-01 Coordination polymer with nucleobase side-chain (Univ. of Tsukuba) KUWABARA, Junpei; KANBARA, Takaki**1K1-02** Synthesis of chiral helical complexes using bis(N₂O₂) ligand based on a binaphthol framework (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SHIMADA, Toshihiko; AKINE, Shigehisa; NABESHIMA, Tatsuya**1K1-03** Crystal Structures and Properties of New Double Salts Incorporating Tetracyanoplatinate(II) Units (Dept. Chem. Kyushu Univ.) KOBAYASHI, Masayuki; MASAOKA, Shigeyuki; SAKAI, Ken; LENZNOFF, Daniel**1K1-04** Structure and Emission Properties of Methylene-Vaulted *trans*-Bis(Salicylaldehyde) Platinum Complexes (Osaka Univ., Graduate School of Engineering Science.) JOMORI, Daisuke; KOMIYA, Naruyoshi; NAOTA, Takeshi**1K1-05** Synthesis of Subnanometer-Sized Au Clusters and Their Derivatives (Hokkaido Univ. Environmental; CREST) SHICHIBU, Yukatsu; KONISHI, Katsuaki**1K1-06** Synthesis of Cp*W Complexes with Long Alkane-Thiolate Ligands and Their and Orientated Structures on Gold Surface (Graduate School of Science and Research Center for Materials Science, Nagoya Univ., Organisch-Chemisches-Institut, Muenster Univ.) SENDA, Shunsuke; EWEINER, Florian; ERKER, Gerhard; TATSUMI, Kazuyuki

Chair: TASHIRO, Shouhei (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(1K1-08, 1K1-10, 1K1-11, 1K1-12)

1K1-08* Theoretical study on a correlation between the degree of N₂ activation and the reactivity with proton in transition metal-N₂ complexes (IMCE, Kyushu Univ., IIS, The Univ. of Tokyo) TANAKA, Hiromasa; SEINO, Hidetake; MIZOBE, Yasushi; YOSHIZAWA, Kazunari**1K1-10** Structure and Characterizations of Bis(m-chloro) Binuclear Copper(II) Complex (Univ. of Tsukuba) TOBITA, Kengo; IWAMOTO, Hiroaki; FUJISAWA, Kiyoshi; KOJIMA, Takahiko**1K1-11** Structure and Properties of Metal(II) Substituted Complexes with Intramolecular Hydrogen Bonding Thiol Ligand (Univ. of Tsukuba) KAWAMURA, Akari; AOKI, Naomi; FUJISAWA, Kiyoshi; KOJIMA, Takahiko**1K1-12*** New types of iso/hetero-polyoxoniobates; synthesis and structural characterization of [KNb₂O₇]¹⁶⁻ and [K₂Nb₃O₉(CO₃)]³¹⁻ (Department of Chemistry, The Univ. of Glasgow) TSUNAHIMA, Ryo; LONG, De-liang; CRONIN, Leroy

Chair: OZEKI, Tomoji (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(1K1-15, 1K1-16, 1K1-18, 1K1-19, 1K1-20)

1K1-15 Synthesis of the novel hybrid compound consisting of the hexagonal Pd supramolecule and polyoxometalate (The Univ. of Tokyo) HIROSE, Takayuki; UEHARA, Kazuhiro; MIZUNO, Noritaka**1K1-16**** Interaction of nanoscopic molecular capsules and tailor-made guest molecules: Light switchable control of encapsulation and aggregation (Grad. School of Science, The Univ. of Tokyo) CLEVER, Guido H.; TASHIRO, Shohei; SHIONOYA, Mitsuhiko**1K1-18** Oligonucleotide Modification on M₁₂L₂₄ Spherical Complex (School of Engineering, the Univ. of Tokyo; CREST; Kagawa School of Pharmaceutical Sciences, Tokushima Bunri Univ.) KIKUCHI, Takashi; SATO, Sota; SEI, Yoshihisa; YAMAGUCHI, Kentaro; FUJITA, Makoto**1K1-19** Dynamic stability of M₁₂L₂₄ spherical complexes (School of Engineering, The Univ. of Tokyo; CREST) ISHIDO, Yoshitaka; SATO, Sota; FUJITA, Makoto**1K1-20** Magnetically oriented complex which induces RDC (School of Engineering, The Univ. of Tokyo; CREST) MOROHARA, Osamu; FUJITA, Daishi; SATO, Sota; YAMAGUCHI, Yoshiki; KURIMOTO, Eiji; YAMAGUCHI, Takumi; KATO, Koichi; FUJITA, Makoto

Friday, March 27, PM

Chair: KAWANO, Masaki (13:30~14:30)

* 13:20-13:30: interval for laptop PC connection.(1K1-28, 1K1-30, 1K1-32, 1K1-33)

1K1-28*† Impact of Distortion of Porphyrin Ring on Axial Coordination in Zn (II)-Porphyrin Complexes with Aminopyridines as Axial Ligands. (Osaka**3J6-38** Design and Synthesis of a Subtype-selective Ligand for Ionotropic Glutamate Receptors based on a Marine Natural Product, Dysiberbaine (Graduate School of Life Sciences, Tohoku Univ.) WATANABE, Tomoko; TSUBONE, Koichi; OIKAWA, Masato; SASAKI, Makoto; SAKAI, Ryuichi; UNNO, Masaki; IKEDA-SAITO, Masao**3J6-39** Studies toward Total Synthesis of Lycoperdic Acid and Related Compounds (Graduate School of Life Sciences, Tohoku Univ.) OHIRA, Nao; TSUBONE, Koichi; OIKAWA, Masato; SASAKI, Makoto; SAKAI, Ryuichi**3J6-40** Improved Synthesis and Stereochemical Confirmation of mycestericin A (Keio Univ.) YAMANAKA, Hiroyoshi; SATO, Hideyuki; SATO, Takaaki; CHIDA, Noritaka

Chair: TERUYA, Toshiaki (15:50~16:50)

* 15:40-15:50: interval for laptop PC connection.(3J6-42, 3J6-43, 3J6-44, 3J6-45, 3J6-46, 3J6-47)

3J6-42 Synthetic Study of α -Aminosquaric Acid-containing Peptide on Solid-phase (Graduate School of Sci., Osaka City Univ.) KINIWA, Yuuichi; SHINADA, Tetsuro; OHFUNE, Yasufumi**3J6-43** The Efficient Synthesis of Optically Active α -Hydroxymethylpyroglutamate (Graduate School of Sci., Osaka City Univ.) YOSHIDA, Hiroki; SHINADA, Tetsuro; OHFUNE, Yasufumi**3J6-44** An Efficient Synthesis of α -Allenylglycine via Ester-enolate Claisen Rearrangement of α -Acloxy- α -alkynylsilane (Graduate School of Sci., Osaka City Univ.) ODA, Naoko; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi**3J6-45** Total synthesis of Spiruchostatin B utilizing an automated synthesizer (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; OKADA, Kumiko; MUNAKATA, Asami; IJIMA, Yusuke; DOI, Takayuki; TAKAHASHI, Takashi**3J6-46** Total Synthesis of Largazole and Its Biological Evaluation (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) NUMAJIRI, Yoshitaka; TAKAHASHI, Takashi; TAKAGI, Motoki; SHIN-YA, Kazuo; DOI, Takayuki**3J6-47** Design and Synthesis of Labeled Mugineic Acids for Mechanistic Study of Iron Acquisition (Transportation) by Gramineous Plants (Hokkaido Univ.; Suntory Institute for Biorganic Research; Tokushima Bunri Univ.) KOBAYASHI, Kaori; HIRAKAWA, Hiroko; MURATA, Yoshiko; NAMBA, Kosuke; TANINO, Keiji; NISHIZAWA, Mugio; KUSUMOTO, Shoichi

Monday, March 30, AM

Combikem, Solid Phase Synthesis

Chair: NANBA, Kousuke (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(4J6-01, 4J6-02, 4J6-04, 4J6-05, 4J6-06)

4J6-01 Combinatorial Synthesis of Landomycin-deoxyoligosaccharide (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) TANAKA, Hiroshi; YAMAGUCHI, Sho; YOSHIZAWA, Atsushi; TAKAHASHI, Takashi**4J6-02*** Synthesis of Ganglioside Epitopes Containing Oligosialic Acid (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) NISHIURA, Yuji; TANAKA, Hiroshi; TAKAHASHI, Takashi**4J6-04** Polymer-Assisted Strategy for the Synthesis of Sulfated Oligosaccharides (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) TANAKA, Hiroshi; TATENO, Yusuke; ISHIDA, Tadasuke; TAKAHASHI, Takashi**4J6-05** Towards Oligosaccharide Library Synthesis by Fluorous Mixture Method (The Noguchi Institute) TOJINO, Mami; MIZUNO, Mamoru**4J6-06** Synthetic Studies on Lydiamycin A (Niigata Univ. of Pharmacy and Applied Life Science) NAKAMURA, Yutaka; NAKAMURA, Tomomi; KOJIMA, Masaru; TAKEUCHI, Seiji

Amino Acid

Chair: KASAI, Yusuke (10:10~10:50)

* 10:00-10:10: interval for laptop PC connection.(4J6-08, 4J6-09, 4J6-11)

4J6-08 Synthetic Study of Mannopeptimycin Aglycon (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) FUSE, Shinichiro; KOINUMA, Hirotsugu; KINBARA, Atsushi; TAKAHASHI, Takashi; DOI, Takayuki**4J6-09*** Synthetic Study of Telomestatin Derivatives mediated by 5-Bromooxazole (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) SHIBATA, Kazuaki; TAKAHASHI, Takashi; TAKAGI, Motoki; SHINYA, Kazuo; YOSHIDA, Masahito; DOI, Takayuki**4J6-11** Search for Calyculin Binding Protein from the Marine Sponge Discodermia calyx (Univ. of Tokyo; School of Science) MURATA, Kensuke; FUKUZAWA, Seketsu; TACHIBANA, Kazuo

Univ.,SORST(JST), Kyushu Univ., Rigaku, Tsukuba Univ.) NAKANISHI, Tatsuaki; HONDA, Tatsuhiko; HARADA, Ryosuke; SHIRO, Motoo; KOJIMA, Takahiko; FUKUZUMI, Shunichi

- 1K1-30*** Topological Control in Multinuclear Complexes Based on Acyclic Oligopyrroles (Institute of Science and Engineering, Ritsumeikan Univ.; PRESTO, JST) HASHIMOTO, Takashi; MAEDA, Hiromitsu
- 1K1-32** Helix inversion behavior of oligoxime tetranuclear complexes having a chiral salen moiety (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) HOTATE, Sayaka; AKINE, Shigehisa; NABESHIMA, Tatsuya
- 1K1-33** Synthesis and complexation of a linear multidentate ligand consisting of bipyridine and phenol moieties (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) NAGUMO, Hiroki; AKINE, Shigehisa; NABESHIMA, Tatsuya

Chair: KOJIMA, Takahiko (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1K1-35, 1K1-36, 1K1-37, 1K1-38, 1K1-40)
- 1K1-35[†]** Spin crossover behavior in Hofmann-like coordination polymers-Fe^{II}(Alkyl-pyridine)₂[Au^I(CN)₂]: Synthesis, crystal structure, and magnetic property (Univ. of Toho Chemical) KITAZAWA, Takafumi; KOSONE, Takashi; YOSHIDA, Kazuki; ONO, Shota; KANADANI, Chikahide; SAITO, Toshiaki; TOMORI, Itaru
- 1K1-36** Isomerization of all-trans retinal in porous networks. (School of Engineering, The Univ. of Tokyo) OHARA, Kazuaki; KAWANO, Masaki; FUJITA, Makoto
- 1K1-37** Synthesis and Structure of Porous Coordination Polymers Composed of Anthracene Dimer (Kyoto Univ.) ASANO, Kazuya; SHIMOMURA, Satoru; SATO, Hiroshi; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 1K1-38*** Fabrication of heterometallic core/shell type single crystals of porous coordination frameworks with in-plane rotational epitaxial relationship (ERATO Kitagawa Integrated Pores Project, JST) FURUKAWA, Shuhei; HIRAI, Kenji; NAKAGAWA, Keiji; KITAGAWA, Susumu
- 1K1-40** Syntheses and Adsorption Properties of Quasi Werner-Type Metal Complexes with Bistable Structures (Hokkaido Univ.) NORO, Shin-ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

Chair: KITAZAWA, Takafumi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1K1-42, 1K1-43, 1K1-44, 1K1-45, 1K1-46, 1K1-47)
- 1K1-42** Synthesis of a new tetranuclear copper complex catalyzing a multi-electron oxidation (Doshisha Univ.) NAKAGAWA, Tomoyuki; HITOMI, Yutaka; FUNABIKI, Takuzo; KANO, Koji; KODERA, Masahito
- 1K1-43** Syntheses and structures of multinuclear complex with phosphine-substituted Schiff base ligands (Shizuoka Univ.) MATSUMOTO, Hiroaki; SHIBUYA, Yuki; KONDO, Mitsuru; NISHINA, Naoko
- 1K1-44** Catalytic Oxidation of Benzene: Synthesis and Reactivity of Mononuclear Copper(II) Complexes with Bis(benzimidazolyl)methane Derivatives. (Nagoya Institute of Technology) GOTO, Mana; KIMURA, Yousuke; KAJITA, Yuji; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 1K1-45** Structure and Properties of Metal(II) Substituted Complexes with Intramolecular Hydrogen Bonding Thiol Ligand (Univ. of Tsukuba) MITSUI, Tetsuya; OKAMURA, Takayuki; FUJISAWA, Kiyoshi; KOJIMA, Takahiko
- 1K1-46** Structures and Properties of Copper Complexes with Admantly Substituted N3 Type Ligand (Univ. of Tsukuba) SAMUSAWA, Itaru; FUJISAWA, Kiyoshi; KOJIMA, Takahiko
- 1K1-47** Structure of the Copper Hydrazine Complex with Electron-withdrawing Group (Univ. of Tsukuba) SUGIYAMA, Masaki; MIYASHITA, Yoshitaro; OKAMOTO, Kenichi; FUJISAWA, Kiyoshi; KOJIMA, Takahiko

Chair: KODERA, Masahito (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1K1-49, 1K1-50, 1K1-52, 1K1-53, 1K1-54)
- 1K1-49** Intermolecular hydrogen bonding of nickel (II) dithiocarbamate from amino acid esters (Osaka Institute of Technology) NOMURA, Ryoki; KAWAHARA, Michio; MITSUKURI, Hitoshi; OHTAKA, Atsushi; SHIMOMURA, Osamu
- 1K1-50*** Diastereoselective syntheses of "Sugar-coated" N-heterocyclic carbene iridium complexes. (Osaka city univ.) SHIBATA, Tepei; NISHIOKA, Takanori; KINOSHITA, Isamu
- 1K1-52** Precise description of the metal-to-ligand charge-transfer state in iridium(III) complexes with terpyridine (Nara Women's Univ., Faculty of Science) YOSHIKAWA, Naokazu; YAMABE, Shinichi; KANEHISA, Nobuko; INOUE, Tsuyoshi; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 1K1-53** Synthesis of Tetranuclear Iridium(III) Complexes with a Flavin Analogue as Bridging Ligands Showing the Unique Structures and Properties (Osaka Univ.; SORST(JST)/Osaka City Univ./Department of Chemistry, Univ. of Tsukuba) INUI, Yuji; MIYAZAKI, Soshi; KOJIMA, Takahiko; HUKUZUMI, Syunichi
- 1K1-54[†]** Oxidative Introduction of Axial Bidentate Ligands to M-Mo-Mo-M (M = Ir, Pd) (Graduate School of Engineering Science, Osaka Univ.) SHIMA, Asuka; TSURUGI, Hayato; MASHIMA, Kazushi

Saturday, March 28, AM

Chair: OHASHI, Yuji (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2K1-01)
- 2K1-01 CSJ Award for Creative Work** X-Ray Direct Observation of Reactions and Labile Species on the Basis of Crystal Design (Sch. of Eng. The Univ. of Tokyo) KAWANO, Masaki

Saturday, March 28, PM

Synthesis

Chair: KAWAMOTO, Tatsuya (12 : 30~13 : 30)

- * 12:20-12:30: interval for laptop PC connection.(2K1-22, 2K1-23, 2K1-24, 2K1-25, 2K1-27)
- 2K1-22** Coordination polymer that transforms to molecular capsule by contact of tetrafluoroborate anion (Shizuoka Univ.; Center for Instrumental Analysis) YAMAGUCHI, Maiko; HIRAKAWA, Takeshi; KONDOU, Mitsuru
- 2K1-23** Synthesis and property of transition metal complexes having 3-(4-imidazolylmethylideneamino)-1-propanol (Okayama Univ.; Laboratory for coordination chemistry) HARADA, Naoko; SUNATSUKI, Yukinari; SUZUKI, Takayoshi; KOJIMA, Masaaki
- 2K1-24** Synthesis and Properties of Group 11 Transition Metal Complexes Featuring Bulky Rind Groups (RIKEN) ITO, Mikinao; HASHIZUME, Daisuke; MATSUO, Tsukasa; TAMAO, Kohei
- 2K1-25*** Au^IAg^I2Cu^I Octanuclear Loop Complexes Supported by Tetraphosphine Ligands (Nara Women's Univ.) TAKEMURA, Yuki; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2K1-27** Emission of Au(I) complex with polylysine. (Osaka Univ.) MORIUCHI, Toshiyuki; YOSHII, Kazuki; HIRAO, Toshikazu

Chair: MORIUCHI, Toshiyuki (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(2K1-29, 2K1-30, 2K1-31, 2K1-32, 2K1-33, 2K1-34)
- 2K1-29** Synthesis of Copper(II) Dinuclear Complexes Bridged by Disulfide Amino Acid (Osaka Univ.) SEKO, Hiroyuki; TSUGE, Kiyoshi; IGASHIRA, Asako; KAWAMOTO, Tatsuya; KONNO, Takumi
- 2K1-30** Synthesis of Group 11 Mixed-Metal Polynuclear Complexes Derived from Benzothiazoline (Osaka Univ.) TAKINO, Yusuke; KAWAMOTO, Tatsuya; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi
- 2K1-31** Synthesis and reactivity of pentanuclear copper(II) complex having cubane-type structure similar to OES manganese cluster of PSII (Doshisha Univ.) USA, Yuki; HITOMI, Yutaka; FUNABIKI, Takuzo; KANO, Koji; KODERA, Masahito
- 2K1-32** Synthesis and Characterization of Novel Metal Complexes with Dodecaphenylporphodimethene as a Ligand (Graduate School of Engineering, Osaka Univ., SORST(JST)) HANABUSA, Kakeru; KOJIMA, Takahiko; FUKUZUMI, Shunichi
- 2K1-33** Synthesis and functions of a new function model of hemocyanin mimicking the deoxy form (Doshisha Univ.) KISHIMOTO, Kazuhiro; HITOMI, Yutaka; FUNABIKI, Takuzo; KANO, Koji; KODERA, Masahito
- 2K1-34** Synthesis of Zinc(II) Complex Using Uronic Acids (Osaka City Univ./Kyoto Pharmaceutical Univ.) MAEOKA, Yoshiaki; YOSHIKAWA, Yutaka; YASUI, Hiroyuki; TACHI, Yoshimitsu

Chair: MURAHASHI, Tetsuro (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(2K1-36, 2K1-37, 2K1-38, 2K1-39, 2K1-40, 2K1-41)
- 2K1-36** Introduction of hydroxyl group into coordination polymer (Kyushu Univ; JST-CREST) YAMADA, Tepei; KITAGAWA, Hiroshi
- 2K1-37** Syntheses and adsorption properties of porous coordination polymers constructed with 5-dimethylaminoisophthalate. (Kyoto Univ.) FUKUSHIMA, Tomohiro; NAKAGAWA, Keiji; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 2K1-38** Face selective crystal surface modification of porous coordination framework (Kyoto Univ.; Institute for Integrated Cell-Material Sciences) KONDO, Mio; FURUKAWA, Shuhei; KITAGAWA, Susumu
- 2K1-39** Fabrication of heteroligand hybridized single crystals of porous coordination framework with anisotropic epitaxial crystal growth (Kyoto Univ. Graduate School of Engineering) HIRAI, Kenji; FURUKAWA, Shuhei; TAKASHIMA, Yohei; KITAGAWA, Susumu
- 2K1-40** Self-assembled coordination spin prism cage (School of Engineering, The Univ. of Tokyo; CREST) OZAKI, Yusuke; KAWANO, Masaki; FUJITA, Makoto
- 2K1-41** Accumulation of Silyl Functional Groups within M12L24 Self-Assembled Spherical Complexes (School of Engineering, The Univ. of Tokyo; CREST) OKUMURA, Tomoyo; SATO, Sota; SUZUKI, Kosuke; FUJITA, Daishi; FUJITA, Makoto

Chair: MATSUDA, Ryotaro (16 : 00~17 : 10)

- * 15:50-16:00: interval for laptop PC connection.(2K1-43, 2K1-44, 2K1-45, 2K1-46, 2K1-47, 2K1-48, 2K1-49)
- 2K1-43** Synthesis of sandwich complexes containing two dinuclear palladium

- moieties (Faculty of Engineering, Osaka Univ.) FUKUSHIMA, Azusa; MATSUTANI, Teruo; SHIRATO, Katsunori; MURAHASHI, Tetsuro; OGOSHI, Sensuke; KUROSAWA, Hideo
- 2K1-44** Synthesis of Pd Complex with Pt₄ Cluster as Ligands (Graduate School of Engineering Science, Osaka Univ.) TAGAWA, Naoki; KIKUGAWA, Masashi; TANAKA, Shinji; TSURUGI, Hayato; MASHIMA, Kazushi
- 2K1-45** Stepwise Construction of Tetraplatinum Cluster (Graduate School of Engineering Science, Osaka Univ.) KIKUGAWA, Masashi; TANAKA, Shinji; TAGAWA, Naoki; TSURUGI, Hayato; MASHIMA, Kazushi
- 2K1-46** Synthesis and Reactivity of Mononuclear Palladium(II) Complexes with D-Penicillamine (Osaka Univ.) NAGAO, Yoshinori; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi
- 2K1-47** Novel Synthetic Method for Platinum Complexes with Ligands of Phenylpyridine Derivatives (Wakayama Univ.) FUJITA, Akihiro; OSUGA, Hideji; SAKAMOTO, Hidefumi
- 2K1-48** Syntheses and Characterization of Metal Complexes with Sugar Conjugated Bistriazole Ligands (Kyoto Univ.) OHI, Hiromi; TOSHIMITSU, Aki; YANO, Shigenobu
- 2K1-49** Syntheses of some halosulfite ions (Fukuoka Univ. of Education ; Faculty of Science, Kyushu Univ.) NAGASAWA, Isoroku; MORI, Keisuke; MORI, Sayaka; KITAGAWA, Hiroshi

Sunday, March 29, AM

Bioinorganic Chemistry

Chair: HISAEDA, Yoshio (9 : 40 ~10 : 40)

- * 9:30-9:40: interval for laptop PC connection.(3K1-05, 3K1-06, 3K1-07, 3K1-08)
- 3K1-05** Synthesis and photochemical properties of sugar linked In porphyrins as a dual drug of the diagnostic imaging and the photodynamic therapy (Department of Chemistry and Materials Engineering, Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) NAKAI, Misaki; MAEDA, Tomohiro; NAKABAYASHI, Yasuo
- 3K1-06** Syntheses and Properties of Polynuclear Metal Cluster in Metallothionein Matrix (Graduate School of Engineering, Osaka Univ.) SANO, Yohei; SAKURAI, Rie; ONODA, Akira; HAYASHI, Takashi
- 3K1-07** Reactivities of iron corrole complex in myoglobin heme pocket. (osaka university) HAYASHI, Akihiro; MATSUO, Takashi; HAYASHI, Takashi
- 3K1-08** CSJ Award for Young Chemists Synthesis of Metal-Sulfur Complexes Modeling the Active Sites of Nitrogenase and Hydrogenase (Graduate School of Science, Nagoya Univ.) OHKI, Yasuhiro

Chair: HAYASHI, Takashi (10 : 50 ~12 : 00)

- * 10:40-10:50: interval for laptop PC connection.(3K1-12, 3K1-13, 3K1-14, 3K1-15, 3K1-17, 3K1-18)
- 3K1-12** Synthesis of the [8Fe-7S] Core of Nitrogenase P-Cluster via Desulfurization from an All-Ferric [4Fe-4S] Cluster (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) YAMADA, Norihiro; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 3K1-13** Synthesis of [4Fe-4S] Clusters Relevant to the Active Centers of HiPIP and Aconitase (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) TANIFUJI, Kazuki; YAMADA, Norihiro; TAJIMA, Tomoyuki; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 3K1-14** Synthesis and Reactions of Dinuclear Nickel Complexes Carrying a Thiolate and a Methyl or Aryl as an Acetyl-CoA Synthase Model (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) KOTERA, Mai; ITO, Mikinao; SONG, Yumei; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 3K1-15*** Theoretical study on the catalytic mechanism of C-H activation by dicopper site (Institute for materials chemistry and engineering, Kyushu Univ.) SHIOTA, Yoshihito; YOSHIZAWA, Kazunari
- 3K1-17** Participation of Porphyrin molecules in the Bacterial Metabolic Electron Transport Flow (ERATO project; Inst. of Ind. Sci., The Univ. of Tokyo; Grad. of Eng. The Univ. of Tokyo) MORI, Shigeki; ISHII, Kazuyuki; NAKAMURA, Ryuhei; HASHIMOTO, Kazuhito
- 3K1-18** Helical Structure of Expanded Peptide Containing Bis(pyridine)silver (I) Complex Moieties (Graduate School of Science, Osaka Univ.) MATSUMURA, Takuya; OKAMURA, Taka-aki; YAMAMOTO, Hitoshi; ONITSUKA, Kiyotaka

Sunday, March 29, PM

Bioinorganic Chemistry

Chair: ITOH, Shinobu (13 : 10 ~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(3K1-26, 3K1-28, 3K1-29, 3K1-30)
- 3K1-26*** Model studies for an interaction of NiSOD active site with the second coordination sphere (Graduate school of materials and engineering, Nagoya Institute of Technology) NAKANE, Daisuke; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki

- 3K1-28** [4Fe-4S] Clusters Coordinated by a Tridentate Thiolate Ligand; Synthesis of [4Fe-4S]_{dist} Clusters Model in [NiFe] Hydrogenases (Grad. Sch. Sci. and Res. Ctr. Mat. Sci., Nagoya Univ.) TERADA, Tamaki; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 3K1-29** Fe-Ni and Fe-Ni-Fe complexes relevant to the active site of [NiFe] hydrogenase derived from (CO/CN)Fe-thiolate or Cp*Fe-amide complexes. (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) OHNISHI, Koshi; TANINO, Soichiro; LI, Zilong; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 3K1-30**** The Role of Axial Ligation in Nitrate Reductase: A Model Study by DFT Calculations on the Mechanism of Nitrate Reduction (Graduate School of Engineering Science, Osaka Univ.) PAL, Kuntal; TSURUGI, Hayato; MASHIMA, Kazushi

Chair: OHKI, Yasuhiro (14 : 20 ~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(3K1-33, 3K1-34, 3K1-36, 3K1-38)
- 3K1-33** Development of Cysteine Mutant of Ferritin toward Functionalization of Protein Interior Space (Dept. of Chem., Grad. Sch. of Sci., Nagoya Univ.; RCMS, Nagoya Univ.; High Intensity X-ray Diffraction Laboratory, Nagoya Univ.; iCeMS, Kyoto Univ.; PRESTO, JST) AOYAGI, Hiroki; TAKEZAWA, Yusuke; HIKAGE, Tatsuo; ABE, Satoshi; UENO, Takafumi; WATANABE, Yoshihito
- 3K1-34*** Site-directed Assembly of Metal Complexes on the Interior Surface of Ferritin Mutants (Dept. of Chem., Grad. Sch. of Sci., Nagoya Univ.; High Intensity X-ray Diffraction Laboratory, Nagoya Univ.; RCMS, Nagoya Univ.; iCeMS, Kyoto Univ.; PRESTO, JST) TAKEZAWA, Yusuke; AOYAGI, Hiroki; HIKAGE, Tatsuo; ABE, Satoshi; UENO, Takafumi; WATANABE, Yoshihito
- 3K1-36**†** Synthesis and Catalytic Activity of New Hybrid Catalyst Composed of Vitamin B₁₂ and Hyperbranched Polymer (Kyushu Univ.) TAHARA, Keishiro; SHIMAKOSHI, Hisashi; NISHI, Masashi; ABE, Masaaki; TANAKA, Akihiro; HISAEDA, Yoshio
- 3K1-38** Elucidation of detail accumulation mechanism of metal ions on protein surfaces (Grad. Sch. Sci. Nagoya Univ.; iCeMS Koto Univ.; PRESTO/JST; RIKEN; JASRI; Res. Cent. Mater. Sci. Nagoya Univ.) ABE, Mizue; UENO, Takafumi; ABE, Satoshi; SUZUKI, Masako; HIRATA, Kunio; SHIMIZU, Nobutaka; TAKATA, Masaki; WATANABE, Yoshihito

Chair: OKAMURA, Takaaki (15 : 30 ~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(3K1-40, 3K1-42, 3K1-43, 3K1-44)
- 3K1-40*** Me-S Bond Cleavage by Ni(I) tetraazamacrocycles: A model Reaction of Methyl CoM Reductase (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) NISHIGAKI, Junichi; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 3K1-42** Mononuclear Nonheme Iron(III) Complex with an Amidate Ligand (1) (Doshisha Univ.; Kyoto Univ.) HITOMI, Yutaka; ARAKAWA, Kengo; SUGIMOTO, Takashi; ITOH, Takamasa; TANAKA, Tsunehiro; FUNABIKI, Takuzo; KODERA, Masahito
- 3K1-43** Mononuclear Nonheme Iron(III) Complex with an Amidate Ligand (2) (Doshisha Univ.) HITOMI, Yutaka; HATA, Masashi; FUNABIKI, Takuzo; KODERA, Masahito
- 3K1-44*** Synthesis of [8Fe-7S] and [8Fe-8S] clusters from the reaction of [Fe(N(SiMe₃)₂)₂] with bulky thiols 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

Chair: SHOJI, Osami (16 : 40 ~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(3K1-47, 3K1-49, 3K1-50, 3K1-51, 3K1-52)
- 3K1-47*** Reactivity of Copper(II) Superoxo Complex (Osaka City Univ.) KUNISITA, Atsui; ITOH, Shinobu
- 3K1-49** Structure and Reactivity of Copper(I) Complexes Supported by Tridentate Ligands containing 1,5-Diazacyclooctane Framework (Osaka City Univ.) KUNISITA, Atsui; KUBO, Minoru; OGURA, Takashi; ITOH, Shinobu
- 3K1-50** Synthesis of tripodal copper (II) complex containing calix[6]arene and its reaction with hydrogen peroxide (Nagoya Institute of Technology) HIGA, Takumi; KAJITA, Yuji; INOMATA, Tomohiko; OZAWA, Tomohiro; FUNAHASHI, Yasuhiro; MASUDA, Hideki
- 3K1-51** Electrochemical function of pseudo-tetrahedral copper-dithiocarbamate complexes analogous to Type I copper center (Nagoya Institute of Technology) TOYAMA, Tomoaki; YOSII, Kotaro; INADUMI, Takanori; INOMATA, Tomohiko; OZAWA, Tomohiro; FUNAHASHI, Yasuhiro; MASUDA, Hideki
- 3K1-52** Synthesis and Reactions of Dinuclear (tris-carbonyl)Fe-Ni Complexes with Bulky Thiolates Relevant to the Active Site of [NiFe] Hydrogenase (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) SHIMOKATA, Satoko; ANDOH, Masaru; YASUMURA, Kazunari; KUGE, Katsuaki; OHKI, Yasuhiro; TATSUMI, Kazuyuki

Monday, March 30, AM

Chair: FURUKAWA, Shuhei (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(4K1-01, 4K1-02, 4K1-04, 4K1-05, 4K1-06)

4K1-01 Oxygen Atom Transfer Reactivity of DMSO Reductase Family Models and Their Electronic Structural Change (Osaka City Univ.; Univ. of New Mexico) SUGIMOTO, Hideki; SUYAMA, Koichiro; TATEMOTO, Susumu; MIYAKE, Hiroyuki; KIRK, Martin

Synthesis

4K1-02[#] Amido-Imino Complexes of Group IV Metals via Amide Migration to Diimine Ligands Bound to Metals: Syntheses, Structures, and Applications (Graduate School of Engineering Science, Osaka Univ.) PANDA, Tarun Kanti; TSURUGI, Hayato; MASHIMA, Kazushi

4K1-04 Synthesis of Cubane-Type [MoFe₃S₄] Clusters from the Reactions of Molybdenum Trisulfido Complexes with Iron Complexes (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) SUGIMURA, Nobuaki; OHKI, Yasuhiro; TATSUMI, Kazuyuki

4K1-05 Metathesis of Linear Mo₂M₂ Tetranuclear Clusters with Anionic Metal Complexes (Graduate School of Engineering Science, Osaka Univ.) NAKAO, Keisuke; TSURUGI, Hayato; MASHIMA, Kazushi; BRAUNSTEIN, Pierre

4K1-06[†] A Comparative study of porphyrin Isomer Tin(IV) complexes as photosensitizer (Kyushu Univ.) MAEDA, Daisuke; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio

Chair: TSUGE, Kiyoshi (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(4K1-08, 4K1-09, 4K1-10, 4K1-11, 4K1-12, 4K1-13)

4K1-08 One-pot Synthesis of Multinuclear Imidovanadium Complexes (Osaka Univ.) MORIUCHI, Toshiyuki; NISHINA, Masafumi; HIRAO, Toshikazu

4K1-09 Iron Aryl Complexes Having Bulky Thiolate Ligands and Their Application to Fe-S Cluster Synthesis (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) HASHIMOTO, Takayoshi; OHKI, Yasuhiro; TATSUMI, Kazuyuki

4K1-10 Highly Efficient Template Syntheses of Tetraoxime Macrocyclic Metal Complexes (Grad. School of Science, The Univ. of Tokyo) TASHIRO, Shohei; YAMADA, Mihoko; SHIONOYA, Mitsuhiko

4K1-11 Structure and Function Analyses of Tetraoxime Macrocyclic Metal Complexes (Grad. School of Science, The Univ. of Tokyo) YAMADA, Mihoko; MINODA, Ai; TASHIRO, Shohei; SHIONOYA, Mitsuhiko

4K1-12 Synthesis and Reactions of Low-coordinate Fe(II) Complexes having a 2,6-Bis(2,4,6-triisopropylphenyl)benzenethiolate. (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) MIKI, Miku; OHTA, Shun; OHKI, Yasuhiro; TATSUMI, Kazuyuki

4K1-13 Synthesis of Novel Magnetic Ionic-liquids (Kagawa university) TAKAGI, Yumiko; KUSUNOKI, Yoriko; KATAGIRI, Kosuke; OSHIKI, Toshiyuki

Chair: OHKI, Yasuhiro (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(4K1-15, 4K1-16, 4K1-17, 4K1-18, 4K1-19, 4K1-20)

4K1-15[†] Aggregation of L-Cysteinato Tricobalt (III) Complex by Metal Ions (Osaka Univ.) YUAN, Hou Qun; IGASHIRA, Asako; TSUGE, Kiyoshi; KONNO, Takumi

4K1-16 Synthesis of crown ether-substituted dicobalt complex for building of supramolecular structure. (Kyushu Univ.) MAEDA, Daisuke; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio

4K1-17 Synthesis of vitamin B₁₂ catalyst having photosensitizing unit (Kyushu Univ.) AOKI, Junichi; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio

4K1-18 Synthesis and Reactivity of (μ - η^2 : η^2 -disulfide)dinickel(II) Complexes (Graduate School of Science, Osaka City Univ.; Graduate school of Engineering, Osaka Univ.) INOSAKO, Masayuki; KUNISHITA, Atsushi; KUBO, Minoru; OGURA, Takashi; SUGIMOTO, Hideki; ITOH, Shinobu

4K1-19 Synthesis and structures of Ni^{II} complexes having a chiral imino-thiolate ligand (Osaka Univ.) IGASHIRA, Asako; GAD, Aleya; KONNO, Takumi

4K1-20 Synthesis and Properties of New Type of Phthalocyanine-Fullerene Conjugates Connected Directly via the Four-Membered Ring (Graduate School of Science, Tohoku Univ.) KIKUKAWA, Yuu; HUKUDA, Takamitsu; KOBAYASHI, Nagao

Monday, March 30, PM

Chair: SUZUKI, Takayoshi (13:30~14:40)

* 13:20-13:30: interval for laptop PC connection.(4K1-28, 4K1-30, 4K1-32, 4K1-33, 4K1-34)

4K1-28^{*} Properties and Supramolecular Assemblies of Conjugated Multinuclear Schiff-base Complexes (IMS; PRESTO, JST; Osaka University) ISHIZUKA, Tomoya; ISONO, Yukiko; MIYAKE, Yusuke; TANAKA,

Hirofumi; OGAWA, Takuji; JIANG, Donglin

4K1-30^{*} Synthesis of porous coordination framework nanocrystals through oriented attachment mechanism (ERATO Kitagawa Integrated Pores, JST) TSURUOKA, Takaaki; FURUKAWA, Shuhei; KITAGAWA, Susumu

4K1-32 Self-assemblies of novel Cu(I) metallamacrocyclic ethylene adducts by 4,4'-bipyrimidine derivatives (Department of Chemistry, Kinki Univ.; Research Institute for Science and Technology, Kinki Univ.; Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) TOMINAGA, Toshi; NABEI, Atsuhiko; MAEKAWA, Masahiko; OKUBO, Takashi; KURODA, Takayoshi; MUNAKATA, Megumu; KITAGAWA, Susumu

4K1-33 Self-assemblies of novel Cu(I) metallamacrocyclic carbonyl adducts by anion templation (Research Institute for Science and Technology, Kinki Univ.; Department of Chemistry, Kinki Univ.; Department of Synthetic Chemistry and Biological Chemistry, Kyoto Univ.) MAEKAWA, Masahiko; TOMINAGA, Toshi; NABEI, Atsuhiko; OKUBO, Takashi; KURODA, Takayoshi; MUNAKATA, Megumu; KITAGAWA, Susumu

4K1-34 Synthesis and luminescence behavior of rare earth complexes containing 1,10-phenanthroline ligands fused with porphyrins and pyrroles (Graduate School of Science and Engineering, Ehime Univ.) MIFUJI, Akihiro; OKUJIMA, Tetsuo; YAMADA, Hiroko; UNO, Hidemitsu; ONO, Noboru

Room K2

Bldg.12 1232

Coordination Chemistry, Organometallic Chemistry

Friday, March 27, AM

Chair: TAKAISHI, Shinya (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1K2-01, 1K2-02, 1K2-03, 1K2-05)

1K2-01 Synthesis of Novel Bis(bis(phenoxyphenyl)glyoximate)platinum(II) metallomesogens for Visualization of van der Waals Force and Estimation of the Chemical Pressure (Shinshu Univ.) SHIMOSUGI, Shota; KITAGAWA, Tomoki; IKEJIMA, Mayumi; OHTA, Kazuchika

1K2-02 Development of Liquid Crystalline Semiconductors Based on Phthalocyanine Showing Hexagonal Ordered Columnar Phase with Very Short Stacking Distance. (Shinshu Univ.) YAMA, Yosataka; ICHIHARA, Masahiro; OHTA, Kazutika

1K2-03^{*†} Aggregation Behaviors of Phthalocyanines Partially coated with Trifluoroethoxy Groups (Nagoya Institute of Technology, Graduate School of Engineering) YOSHIYAMA, Hideyuki; ISHIUCHI, Yumi; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi

1K2-05[#] Butadiene Linked Perfluoroalkylated Phthalocyanine Dyads: Synthesis, Photophysical and Electrochemical Properties (Nagoya Institute of Technology, Graduate School of Engineering) DAS, Banibrata; SHIBATA, Norio; YOSHIYAMA, Hideyuki; NAKAMURA, Shuichi; TORU, Takeshi

Chair: KAJIWARA, Takashi (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(1K2-08, 1K2-09, 1K2-10, 1K2-11, 1K2-12)

1K2-08 Humidity dependence on magnetic properties of Co₂[Nb(CN)₈] ferromagnet (School of Science, The Univ. of Tokyo) KOSAKA, Wataru; ARAI, Michio; OHKOSHI, Shin-ichi

1K2-09 Syntheses and Magnetic Properties of new octacyanotungsten based molecular magnets. (School of Science, The Univ. of Tokyo) KANEKO, Souhei; TSUNOBUCHI, Yoshihide; OHKOSHI, Shin-ichi

1K2-10 A lanthanoid complex constructed of a conjugated bidentate ligand (Univ. of Tokyo) NAKABAYASHI, Koji; OHKOSHI, Shin-ichi

1K2-11 Investigation of Proton-Coupled Electron Transfer in Spin-Crossover Cobalt Complex (Kyushu Univ.) MIURA, Satoshi; KANEGAWA, Shinji; SHAIKH, Nizamuddin; SATO, Osamu

1K2-12^{#†} The role of Jahn-Teller-effect in the reverse spin-crossover of Co(terpy) 2-based mesogenic systems: theoretical study (Kyushu Univ., IMCE) Juhasz, Gergely; YOSHIZAWA, Kazunari

Chair: KATO, Masako (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(1K2-15, 1K2-16, 1K2-17, 1K2-18, 1K2-19)

1K2-15 Magnetic and conductive properties of hetero-metal two-dimensional network complexes {NH(CH₂CH₂CH₂OH)₃}[Mcr(ox)₃] (M = Mn^{II}, Fe^{II}, Co^{II}) (Faculty of Science, Kyusyu Univ.; Graduate School of Engineering, Kyoto Univ.; JST-CREST) OKAWA, Hisashi; SADAKEYO, Masaaki; SHIGEMATSU, Akihito; OHBA, Masaaki; KITAGAWA, Hiroshi

1K2-16 Physical properties of dodecanuclear cage-like cobalt-iron complexes (Univ. of Tsukuba) SHIGA, Takuya; OSHIO, Hiroki

1K2-17 Control of Magnetic Properties by Partial Quenching of Orbital Momentum in Co(II) Complexes. (Kyushu Univ.) INOUE, Kaori; KANEGAWA, Shinji; MATSUDA, Ryotaro; JUHASZ, Gergely; YOSHIZAWA, Kazunari; SATO, Osmu

- 1K2-18** Gas adsorptivities of porous coordination polymers with different dimensionality (Shinshu Univ., nanoFIC) KONDO, Atsushi; KAJIRO, Hiroshi; CARLUCCI, Lucia; PROSERPIO, D.M.; CIANI, Gianfranco; OHBA, Tomonori; KANO, Hirofumi; KANEKO, Katsumi; HATTORI, Yoshiyuki; OKINO, Fujio
- 1K2-19*** Proposal of the 2D Spectrochemical Series for Universal Use (Kagawa Univ., Okayama Univ. of Sci.) ISHII, Tomohiko; TSUBOI, Shino; TSUNO, Naoto; YUKINARI, Shohei; SAKANE, Genta

Friday, March 27, PM

Chair: OHBA, Masaaki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1K2-28, 1K2-29, 1K2-30, 1K2-31, 1K2-32, 1K2-33)
- 1K2-28** Syntheses and FET Properties of Quasi-One-Dimensional Halogen-Bridged Mixed-Valence Metal Complexes (Tohoku Univ.) ENDO, Katsutoshi; TAKAISHI, Shinya; KAJIWARA, Takashi; BREEDLOVE, Brian; MIYASAKA, Hitoshi; YAMASHITA, Masahiro; TAKENOBU, Taishi; IWASA, Yoshihiro
- 1K2-29** Nonlinear Conduction in Halogen-Bridged Platinum Compounds (Tohoku Univ.) IGUCHI, Hiroaki; TAKAISHI, Shinya; KAJIWARA, Takashi; BREEDLOVE, Brian; MIYASAKA, Hitoshi; YAMASHITA, Masahiro
- 1K2-30** The Effect of Metal-Metal Interaction of Hetero Metal Dinuclear Complexes Bridged by Pyridinethiolate Ions (Graduate School of Science, Hokkaido Univ.) OHBA, Tadashi; KOBAYASHI, Atsushi; KATO, Masako
- 1K2-31** Syntheses and properties of new vapor-responsive coordination polymers based on a luminescent Pt(II) complex as a ligand (Hokkaido Univ.) HARA, Hirofumi; KOBAYASHI, Atsushi; KATO, Masako
- 1K2-32** Synthesis of Ring-Shaped Rhenium(I) Multinuclear Complexes with High Emission Efficiency. (Tokyo Tech.) FUNADA, Yusuke; YAMAMOTO, Youhei; MORIMOTO, Tatsuki; KOIKE, Kazuhide; ISHITANI, Osamu
- 1K2-33** Electric and Magnetic Properties of a One-Dimensional Charge-Transfer Complex Comprised of a Paddlewheel-Type Diruthenium Complex and DM-DCNQI (Tohoku Univ.) CHIYO, Tamiko; MOTOKAWA, Natsuko; MIYASAKA, Hitoshi; TAKAISHI, Shinya; KAJIWARA, Takashi; YAMASHITA, Masahiro

Chair: SATO, Osamu (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1K2-35, 1K2-36, 1K2-38, 1K2-39)
- 1K2-35** Synthesis and Luminescence Behavior of Red Luminescent Iridium Complexes with Pyridines as Auxiliary Ligand (Fukuoka Univ. Faculty of Sci.) KOGA, Yuji; YOSHIDA, Nanae; MATSUBARA, Kouki
- 1K2-36*** Synthesis, Structure and Physicochemical properties of porous coordination polymer containing Mn²⁺ and viologen derivative (RIKEN, Harima) HIGUCHI, Masakazu; SUGIMOTO, Kunihisa; NAKAMURA, Kohei; KUBOTA, Yoshiki; TAKATA, Masaki; KITAGAWA, Susumu
- 1K2-38** Ultraviolet-Visible-Near Infrared Photoabsorption Behavior of Triruthenium Acetate Complexes Coordinated with Pyridyl Derivatives (Kyushu Univ.) TOMIYASU, Yuki; ABE, Masaaki; SHIMAKOSHI, Hisashi; TSUGE, Kiyoshi; HISAEDA, Yoshio
- 1K2-39*** Solvation/Desolvation-Dependent Magnetic Properties and Electrical Properties of a Charge-Transfer Compound Comprised of an *o*-Chlorobenzate-Bridged Diruthenium Complex and TCNQ(OMe)₂ (Graduate School of Science, Tohoku Univ.; Faculty of Science, Kanagawa Univ.) MOTOKAWA, Natsuko; MATSUNAGA, Satoshi; TAKAISHI, Shinya; MIYASAKA, Hitoshi; KAJIWARA, Takashi; YAMASHITA, Masahiro

Chair: MIYASAKA, Hitoshi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1K2-42, 1K2-43, 1K2-44, 1K2-45, 1K2-46, 1K2-47)
- 1K2-42[#]** Reversible Single-Crystal-to-Single-Crystal Transformation from Antiferromagnetic Hexanuclears to a Ferromagnetic Double Zigzag Chain (Kyusyu Univ.) ZHANG, Yanjuan; LIU, Tao; KANEGAWA, Shinji; SATO, Osamu
- 1K2-43** Coordinated Ring Inversion Behavior Controlled with Counter Anion of Emissive Pyridylpyrimidine Cu(I) Complexes (Univ. of Tokyo; Tokyo Institute of technology) NISHIKAWA, Michihiro; NOMOTO, Kuniharu; KUME, Shoko; INOUE, Keiichi; SAKAI, Makoto; FUJII, Masaaki; NISHIHARA, Hiroshi
- 1K2-44** Temperature and pressure dependence of dynamic CO₂ gas adsorption behavior of single-crystal host [Cu₂(bza)₄(pyz)]_n (Yokohama City Univ.) TAKASAKI, Yuichi; MIYAKE, Ryosuke; TAKAMIZAWA, Satoshi
- 1K2-45** Structures and magnetic properties of supramolecular complexes based on heteroaromatic nitronyl nitroxide ligands (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) MOCHIZUKI, Toshihide; ISHIDA, Takayuki; NOGAMI, Takashi
- 1K2-46** Adsorbed States of H₂ and D₂ Molecules in the Crystals of 1D-metal Coordination Compounds as Studied by Solid State NMR and INS. (Department of Chemistry, Graduate school of Science, Hokkaido Univ.) TAKEUCHI, Hiroto; MARUTA, Goro; TAKAMIZAWA, Satoshi; TAKEDA, Sadamu; YAMADA, Takeshi; YAMAMURO, Osamu
- 1K2-47** Controlling Redox Behavior of Copper(I) by Multidentate Thioether

Ligands and its Effect on the Luminescence Properties of the Conjugated Fluorophore (Kyoto university) IYOSHI, Shohei; TAKI, Masayasu; YAMAMOTO, Yukio

Chair: CHANG, Hocho1 (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(1K2-49, 1K2-50, 1K2-51, 1K2-52)
- 1K2-49** Guest-Dependent Magnetic and Photomagnetic Behaviors in Fe-Co Complex (Kyushu Univ.) YAMASAKI, Takahiro; SUN, Hao-ling; KANEGAWA, Shinji; MATSUDA, Ryotaro; SATO, Osamu
- 1K2-50** Syntheses and structures of novel ferromagnetic Fe(II) complexes coordinated by a bis-Schiff base ligand. (Faculty of Science and Technology, Kinki Univ.) SHIMIZU, Toshiyuki; NABEI, Atsuhiko; MAEKAWA, Masahiko; OKUBO, Takashi; KURODA-SOWA, Takayoshi
- 1K2-51** Pressure Effect on Fe(III) Spin Crossover Complexes (ISSP; IMCE) SATO, Tetsuya; TAKAHASHI, Kazuyuki; MORI, Hatsumi; MATSUDA, Masaki; TAJIMA, Hiroyuki; SATO, Osamu
- 1K2-52** Structural change and spin-crossover switching triggered by adsorption and desorption of benzene molecules for assembled iron complexes bridged by 1,3-bis(4-pyridyl)propane (Grad. School of Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ATSUCHI, Masaki; NAKASHIMA, Satoru; INOUE, Katsuya

Chair: NIHEI, Masayuki (17 : 50~18 : 30)

- * 17:40-17:50: interval for laptop PC connection.(1K2-54, 1K2-55, 1K2-56)
- 1K2-54** Synthesis and Electrochemical Property of Tetraplatinum Clusters having Ferrocenecarboxylate (Graduate school of Engineering Science, Osaka Univ.) TANAKA, Shinji; KIKUGAWA, Masashi; TAGAWA, Naoki; TSURUGI, Hayato; MASHIMA, Kazushi
- 1K2-55** Synthesis, Structure and Physicochemical properties of porous coordination polymer containing Zn²⁺ and viologen derivative (Kyoto Univ.) NAKAMURA, Kohei; HIGUCHI, Masakazu; KITAGAWA, Susumu
- 1K2-56*** Studies on thermal deactivation mechanism of blue-phosphorescent tris(2-phenylpyrazole)iridium(III) complexes (Toyama Univ.; Chiba Univ.) NOZAKI, Koichi; SIMOTORI, Kota; TSUCHIYA, Kazuyoshi; KARATSU, Takashi

Saturday, March 28, PM

Chair: SHIGA, Takuya (12 : 30~13 : 30)

- * 12:20-12:30: interval for laptop PC connection.(2K2-22, 2K2-23, 2K2-24, 2K2-26)
- 2K2-22** The structure and magnetic properties of a porous coordination polymer [Fe(pz)Pt(CN)₄] (Kyoto Univ.) OHTANI, Ryo; YONEDA, Ko; OHBA, Masaaki; GASPER, Ana; JOSE, Real; KITAGAWA, Susumu
- 2K2-23** Spin-crossover and Light-Induced Excited-Spin-State Trapping phenomena for iron(II) complexes chelated with tris(2-pyridyl)methanes (Department of Applied Physics and Chemistry, The Univ. of Electro-Communications) OSO, Yuya; NOGAMI, Takashi; ISHIDA, Takayuki
- 2K2-24*** Crystal structures and physical properties of iron spin-crossover complexes with a protonic anion (ISSP; Keio Univ; IMS; IMCE) TAKAHASHI, Kazuyuki; MORI, Hatsumi; MATSUDA, Masaki; TAJIMA, Hiroyuki; HANAJIMA, Taro; EINAGA, Yasuaki; YAMAMOTO, Kaoru; YAKUSHI, Kyuya; SATO, Osamu
- 2K2-26*[†]** Photoisomerization-Induced Charge Transfer Phase transition in Organic-Inorganic Hybrid System, (SP)[Fe(II)Fe(III)(dto)₃](SP = spiropyran, dto = C₂O₂S₂) (The Univ. of Tokyo Graduate School of Arts and Sciences) KIDA, Noriyuki; ENOMOTO, Masaya; KOJIMA, Norimichi

Chair: TAKEDA, Keiji (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(2K2-29, 2K2-30, 2K2-31, 2K2-32, 2K2-33, 2K2-34)
- 2K2-29** Chemical and Physical Tune between Single-Chain Magnets and Antiferromagnets (Tohoku Univ.) TAKAYAMA, Karin; MIYASAKA, Hitoshi; TAKAISHI, Shinya; KAJIWARA, Takashi; YAMASHITA, Masahiro
- 2K2-30** Synthesis and Property of Fe(II) and Mn(II) Complexes with Inter-molecular Interaction Based on Thiadiazole Moiety (Graduate School of Science, Nagoya Univ.) SHUKU, Yoshiaki; SUIZU, Rie; AWAGA, Kunio; SATO, Osamu
- 2K2-31** Magnetic properties of Ni(II)-M(III) coordination polymers having 1-D chiral frameworks (Kyoto Univ.) MIYAGAWA, Takuya; OHBA, Masaaki; SHIGA, Takuya; OSHIO, Hiroki; KITAGAWA, Susumu
- 2K2-32** External Ligand Binding Behavior of Nickel(II) Complexes Supported by Pyridine-Containing Macrocyclic Ligands (Kyoto university) ASAHI, Fumiyoshi; TAKI, Masayasu; YAMAMOTO, Yukio
- 2K2-33** Vibrational Circular Dichroism Studies on Transition Metal Complexes of Chiral Binaphthyl Schiff-base Ligands (Univ. of Tokyo;PRESTO; Ochanomizu Univ.) SATO, Hisako; SAITO, Mariko; MORI, Yukie; FUKUDA, Yutaka; YAMAGISHI, Akihiko
- 2K2-34** Structures and physical properties of cyanide bridged multinuclear complexes with electron and proton donor moieties (Univ. of Tsukuba) MITSUMOTO, Kiyotaka; OSHIRO, Emiko; NISHIKAWA, Hiroyuki; OSHIO, Hiroki

Chair: HASEGAWA, Miki (14 : 50~16 : 00)

- * 14:40-14:50: interval for laptop PC connection.(2K2-36, 2K2-37, 2K2-39, 2K2-40, 2K2-42)
- 2K2-36** Luminescent properties of helical zinc(II)-lanthanide(III) trinuclear complexes (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) AKINE, Shigehisa; UTSUNO, Fumihiko; NABESHIMA, Tatsuya
- 2K2-37*** Development of highly soluble Eu(III) complexes with asymmetric bisphosphine oxides (Corporate Research and Development Center, Toshiba Corporation) IWANAGA, Hiroki; AMANO, Akio; SATO, Takahiro
- 2K2-39** Fluorescent switching of conjugated oligomers in flexible coordination spaces. (Kyoto Univ.) KITAYAMA, Koji; YANAI, Nobuhiro; UEMURA, Takashi; KITAGAWA, Susumu
- 2K2-40*†** Syntheses of luminescent porous frameworks with interpenetrated structures and control of fluorescent properties by guest and framework flexibility (Graduate School of Engineering, Kyoto Univ.) TAKASHIMA, Yohei; FURUKAWA, Shuhei; KITAGAWA, Susumu
- 2K2-42*** Ligand-Dependent Ultrasonic-Assisted Self-Assemblies and Characterizations of Lanthanide Nicotinic/Isonicotinic Complexes: Investigations on Their Photophysical Properties (Osaka Univ.; SORST/JST) CHEN, Wentong; FUKUZUMI, Shunichi

Chair: OHTSU, Hideki (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(2K2-44, 2K2-45, 2K2-46, 2K2-47, 2K2-48, 2K2-49)
- 2K2-44** Intrinsic Charge Carrier Transport Properties of Double-decker Terbiu Phthalocyanine complexes (Graduate School of Engineering, Osaka Univ.) NAKANISHI, Shima; HONSHO, Yoshihito; NAKANO, Motohiro; SEKI, Shu
- 2K2-45** The STM images and FET properties of doubledecker type Tb and Dy phthalocyanine complexes (Tohoku Univ.) KATOH, Keiichi; YOSHIDA, Yusuke; TAKAISHI, Shinya; KAJIWARA, Takashi; MIYASAKA, Hitoshi; YAMASHITA, Masahiro; ISSHIKI, Hironari; ZHANG, Yan-fen; KOMEDA, Tadahi; YAMAGISHI, Masakazu; TAKEYA, Jyunichi; ISHIKAWA, Naoto
- 2K2-46** Study on Salen dinuclear Ln(III)-V(IV) coordination compounds using salen-type compartment ligands (The Univ. of Electro-Communications) WATANABE, Ryo; OKAZAWA, Atsusi; NOJIRI, Hiroyuki; NOGAMAMI, Takashi; ISHIDA, Takayuki
- 2K2-47** Ln-dependent SMH behavior of Ln(III)-Cu(II) dinuclear complexes (Tohoku Univ.) TAKAHASHI, Kohei; KAJIWARA, Takashi; NAKANO, Motohiro; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 2K2-48** Magnetic anisotropy of Ln(III)-Cu(II) based single-molecule magnet (Tohoku Univ.; Osaka Univ.) KAJIWARA, Takashi; TAKAHASHI, Kohei; NAKANO, Motohiro; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 2K2-49** Formation and photophysical properties of a Cd(II)-Ln(III)-Thiacalixarene Supramolecular Complex (Tohoku Univ.) TANAKA, Teppei; IKI, Nobuhiko; HOSHINO, Hitoshi

Sunday, March 29, AM

Synthesis

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

- * 8:50-9:00: interval for laptop PC connection.(3K2-01, 3K2-03, 3K2-04, 3K2-05, 3K2-06)
- 3K2-01*†** Synthesis, Photophysical Properties, and Photo-hydrogen evolving Activities of Tris(2,2'-bipyridine)ruthenium(II) derivatives Tethered to Peptide Residues with Viologen Moieties. (Kyusyu Univ.) OGAWA, Makoto; MASAOKA, Shigeyuki; SAKAI, Ken
- 3K2-03** Synthesis and characterization of ruthenium complexes containing 2,6-pyridinedicarboxylate ion (Faculty Sci. Technol., Sophia Univ.) ISOGAI, Hiroki; NAGAO, Hirota; ABE, Tasuku; WAKABAYASHI, Yuki
- 3K2-04** Mixed Valence State of Diruthenium Complex Containing Ethylbis(2-pyridylmethyl)amine ligand (Faculty Sci. Technol., Sophia Univ. ; Coordination Chemical.Ltd) MATSUYA, Kazuhiro; FUKUI, Sohei; SHIMIZU, Yasunori; HOSHINO, Yoshimasa; NAGAO, Hirota
- 3K2-05** Synthesis and modification of triruthenium cluster-based molecular loops (Kyushu Univ.) INATOMI, Atsushi; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 3K2-06†** Synthesis and Linkage Isomerization of Ru^{II} Mononuclear Complexes with a D-Penicillamine Derivative (Osaka Univ.) TAMURA, Motoshi; TSUGE, Kiyoshi; IGASHIRA, Asako; KONNO, Takumi

Chair: MASAOKA, Shigeyuki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3K2-08, 3K2-09, 3K2-10, 3K2-11, 3K2-12)
- 3K2-08** Synthesis and Properties of Hydroxyporphycene Complexes (Kyushu Univ.) OKAWARA, Toru; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 3K2-09** Synthesis and properties of ruthenium porphycene complexes having pyridyl-terpyridyl multidentate ligands in the axial sites (Kyushu Univ.) ASHIGARA, Shihō; OKAWARA, Toru; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 3K2-10** Direct Synthesis of Kinetically Inert Chiral Metal Complexes via Microwave Irradiation (Osaka City Univ.) MIYAKE, Hiroyuki; UEDA,

Masashi; SUGIMOTO, Hideki; TSUKUBE, Hiroshi

- 3K2-11** Atrop Diastereomers of Rhodium(III) Complex with a Nine-Membered S,S-Chelate Ring (Graduate School of Science, Osaka Univ.) YOSHINARI, Nobuto; KONNO, Takumi
- 3K2-12*** Synthesis of Multinuclear Complexes - Mesoporous Organosilica Superhybrids and Their Photophysical Properties (Tokyo Tech.;Toyota Central R&D Labs., Inc.; AIST; CREST/JST) YAMAMOTO, Youhei; TAKEDA, Hiroyuki; INAGAKI, Shinji; KOIKE, Kazuhide; ISHITANI, Osamu

Chair: SUGIMOTO, Hideki (11 : 20~12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(3K2-15, 3K2-17, 3K2-18)
- 3K2-15*** Synthesis and photoluminescent properties of heteroleptic iridium(III) complexes with a tridentate diaminopyridine ligand. (Department of Materials and Life Science, Seikei Univ.) TSUKUDA, Toshiaki; TAKEHANA, Wataru; KIKUCHI, Shota; SAGANO, Midori; MATSUMOTO, Kenji; TSUBOMURA, Taro
- 3K2-17** Development of dithiolene complexes [M(tempodt)₂] (M = Au, Ni) attached with TEMPO radical moieties (Univ. of Tokyo) KUSAMOTO, Tetsuro; KUME, Shoko; NISHIHARA, Hiroshi
- 3K2-18** Substitution Reaction of Halogen in NEt₄[Tp*W(CO)₃InBr₃] (Osaka City Univ.) NOUICHI, Kunihisa; ITAZAKI, Masumi; NAKAZAWA, Hiroshi

Asian International Symposium -Coordination Chemistry, Organometallic Chemistry

Sunday, March 29, PM

Chair: NAKAZAWA, Hiroshi (13 : 10~14 : 20)

- 3K2-26# Keynote Lecture** The synthesis of organo-molybdenum complexes and their application in oxidation catalysis (National Univ. of Singapore) ○ZHAO, Jin · LI, Shenyu · Hor Tzi Sum · Andy
- 3K2-29# Invited Lecture** Transition-metal-catalyzed enantioselective synthesis of planar-chiral transition-metal complexes (Hokkaido Univ.) OGASAWARA, Masamichi
- 3K2-31# Invited Lecture** Arylation of a hydrocarbyl ligand on a triruthenium cluster via C-H bond activation of benzene (Tokyo Inst. of Tech.) ○TAKAO, Toshiro · MORIYA, Makoto · TAHARA, Atsushi · KAJIGAYA, Mana · SUZUKI, Hiroharu

Chair: MIZOBE, Yasushi (14 : 30~16 : 00)

- 3K2-34# Keynote Lecture** Transition-metal catalyzed C-H activation (Peking Univ.) SHI, Zhangjie
- 3K2-37# Invited Lecture** Single molecular mechanics for electron gating on copper center with ring inversion (Univ. of Tokyo) ○KUME, Shoko · NOMOTO, Kuniharu · NISHIHARA, Hiroshi
- 3K2-39# Invited Lecture** Cross-assembled metal nanowires through arene-perfluoroarene interactions (Kitasato Univ.; PRESTO) HORI, Akiko
- 3K2-41# Invited Lecture** Application of a multidentate ligand as a pooling ligand in multielectron reactions (Tohoku Univ.) BREEDLOVE, Brian

Chair: SAKAI, Ken (16 : 10~17 : 30)

- 3K2-44# Invited Lecture** Metal cluster-based redox-active molecular loops and wires (Kyushu Univ.) ABE, Masaaki
- 3K2-46# Invited Lecture** Phase control and band gap engineering in halogen-bridged 1D metal complexes (Tohoku Univ.) TAKAISHI, Shinya
- 3K2-48# Invited Lecture** Crystal structures and dielectric properties of mixed-valence metal-assembled complexes using dithiocarbamate ligands (Kinki Univ.; PRESTO) OKUBO, Takashi
- 3K2-50# Invited Lecture** Macroscopic phase transformation synchronized with electron transfers at molecules (Hokkaido Univ.) CHANG, Ho-Chol

Coordination Chemistry, Organometallic Chemistry

Monday, March 30, AM

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

- * 8:50-9:00: interval for laptop PC connection.(4K2-01, 4K2-03, 4K2-04, 4K2-05, 4K2-06)
- 4K2-01*** Precise assembly and release of electro-responsive molecules in Dendritic polyphenylazomethine (Keio Univ.) OCHI, Yousuke; YAMAMOTO, Kimihisa
- 4K2-03** Hydrogen Production from Water Catalyzed by a Di-iron Complex with a Bio-relevant Fe₂(μ-S)₂ Core, [Fe(pyrzine-2,3-dithiolato)₂]₂²⁺ (Kyushu Univ., Faculty of Science) YAMAGUCHI, Toshiaki; MASAOKA, Shigeyuki; SAKAI, Ken
- 4K2-04** Functional Model of sMMO: Synthesis and Dioxygen Activation of Diiron Complex with Dinucleating Octadentate Ligand Having Carboxylate Donors (Doshisha Univ.) YAMADA, Shuhei; HITOMI, Yutaka; FUNABIKI, Takuzo; KANO, Koji; KODERA, Masahito
- 4K2-05** Appearance of aerobic olefin oxidation activity by controlling the spin state of iron(II)-TPA complexes (Graduate School of Engineering, Kyoto Univ.) FURUKAWA, Shinya; HITOMI, Yutaka; SHISHIDO, Tetsuya;

TANAKA, Tsunehiro

4K2-06 Effects of Metal Ions on Electron-Transfer Reduction of Nonheme Oxoiron(IV) Complexes (Osaka Univ.; SORST/JST) MORIMOTO, Yuma; KOTANI, Hiroaki; LEE, Yong-min; NAM, Wonwoo; FUKUZUMI, Shunichi

Chair: KOIKE, Kazuhide (10:10~11:00)

* 10:00-10:10: interval for laptop PC connection.(4K2-08, 4K2-10, 4K2-11, 4K2-12)

4K2-08* Flexible Coordination Polymer with Selective Sorption Property for O₂ and NO Molecules (Kyoto Univ.) SHIMOMURA, Satoru; MATSUDA, Ryotaro; KITAGAWA, Susumu

4K2-10 A redox behavior of Ru dinuclear complex assembled on a surface (Chuo Univ.) MASUNO, Shinya; KOBAYASHI, Katsuaki; TAKAGI, Atsuko; TERADA, Keiichi; HAGA, Masaaki

4K2-11 Switching of metal-metal interaction by proton transfer in dinuclear Ru complexes bearing benzimidazolyl bridging ligand (Chuo Univ.) ISHIKUBO, Masamichi; KOBAYASHI, Katsuaki; HAGA, Masa-aki

4K2-12 Preparation of Lanthanum-hydrotalcite complex for the catalysis of transesterification (Nagoya Institute of Technology) MIZUNO, Yuki; YAGYU, Takeyoshi; MASUDA, Hideki; JITSUKAWA, Koichiro

Chair: MIYAKE, Yoshihiro (11:10~12:00)

* 11:00-11:10: interval for laptop PC connection.(4K2-14, 4K2-15, 4K2-16, 4K2-17, 4K2-18)

4K2-14 Synthesis and characterization of a bis(2,2':6,2''-terpyridine)manganese(III) complex by controlling of Ce(IV) oxidizing power (Niigata Univ., Faculty of Education, and Center for Transdisciplinary Research) YAMAZAKI, Hirotsato; YAGI, Masayuki

4K2-15 Redox behavior of trinuclear copper core capturing carbonate ion in a cage-type ligand (Nagoya Institute of Technology) NAGATA, Kojiro; FUKUI, Masato; NAGANUMA, Yoshiki; FUKUI, Kensuke; INOMATA, Tomohiko; OZAWA, Tomohiro; FUNAHASHI, Yasuhiro; MASUDA, Hideki

4K2-16 Development of Radical Addition to Olefins Catalyzed by Dinuclear Group 6 Metal Complexes (Graduate School of Engineering Science, Osaka Univ.) YAMADA, Kouhei; TURUGI, Hayato; MASHIMA, Kazusi

4K2-17 Synthesis of inorganic polyphosphates using a metal complex (Tokyo Univ. of Science) MIYAZATO, Yuji; KAWAYAUCHI, Naoto; TADOKORO, Makoto

4K2-18 Self-assembly of dichloro(2,2'-bipyridine)platinum(II) analogs over HOPG interface and its catalysis of hydrogen evolution from water (Kyushu Univ.) YOKOYAMA, Junpei; KOBAYASHI, Daiya; MASAOKA, Shigeyuki; OTSUKI, Joe; SAKAI, Ken

Monday, March 30, PM

Chair: SAKAI, Ken (13:10~14:10)

* 13:00-13:10: interval for laptop PC connection.(4K2-26, 4K2-27, 4K2-28, 4K2-29, 4K2-30, 4K2-31)

4K2-26 Photocatalytic properties of multinuclear ruthenium(II) complexes for CO₂ reduction. (Tokyo Tech., Science and Engineering) TAMAKI, Yusuke; ISHIZUKI, Naoya; KOIKE, Kazuhide; ISHITANI, Osamu

4K2-27 Cooperative Transfer Hydrogenation Reaction Catalyzed by a Novel Trinuclear Ruthenium Complex (Graduate School of Engineering, Osaka Univ.; SORST) YANO, Yuichi; MIYAZAKI, Soushi; KOJIMA, Takahiko; FUKUZUMI, Syunichi

4K2-28 Selective Multi-electron Oxidation of Substrates by Ruthenium(IV)-oxo Complexes Involving Formation of Hydrogen Bonding in Water (Osaka Univ., SORST/JST), Univ. of Hyogo, Kyusyu Univ.) HIRAI, Yuichirou; KOJIMA, Takahiko; MIZUTANI, Yasuhisa; IKEMURA, Kenichiro; OGURA, Takashi; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari; FUKUZUMI, Shunichi

4K2-29 Photochemical and Thermal Structural Change of Ruthenium(II)-Pyridylamine-Coenzyme Complexes (Osaka City Univ.; Osaka Univ.; SORST) MIYAZAKI, Soushi; KOJIMA, Takahiko; FUKUZUMI, Shunichi

4K2-30 Oxygenation of Substrates by meta-Chloroperbenzoic Acid with Photochromic Ruthenium-TPA-diimine Complexes and Mechanistic Insights (Graduate School of Engineering, Osaka Univ.; SORST/JST) NAKAYAMA, Kazuya; MIYAZAKI, Soushi; KOJIMA, Takahiko; FUKUZUMI, Shunichi

4K2-31 Photocatalytic Dioxigen Evolution from Water Using Dinuclear Ruthenium Complex with Inorganic Ligands (Graduate School of Engineering, Osaka Univ.; SORST/JST) MURAKAMI, Masato; KOJIMA, Takahiko; FUKUZUMI, Shunichi

Chair: ISHITANI, Osamu (14:20~15:20)

* 14:10-14:20: interval for laptop PC connection.(4K2-33, 4K2-35, 4K2-36, 4K2-38)

4K2-33* Photochemical Reduction of the Ruthenium Complexes Having NAD⁺ Model Ligand (pbn) (IMS) FUKUSHIMA, Takashi; TANAKA, Koji

4K2-35 Oxygen evolving reaction catalyzed by various kinds of mononuclear ruthenium complex of cyclic polyamines (Kyushu Univ.) YOSHIDA, Masaki; MASAOKA, Shigeyuki; SAKAI, Ken

4K2-36* Oxygen evolving catalysis of mononuclear ruthenium complexes (Kyushu Univ.) MASAOKA, Shigeyuki; YOSHIDA, Masaki; SAKAI, Ken

4K2-38 Hydrogen Evolution from Water Using Dinuclear Rhodium Complexes as Molecular Catalysts (Kyushu Univ.) TANAKA, Saya; MASAOKA, Shigeyuki; SAKAI, Ken

Chair: SHINOZAKI, Kazuteru (15:30~16:30)

* 15:20-15:30: interval for laptop PC connection.(4K2-40, 4K2-41, 4K2-42, 4K2-43, 4K2-44, 4K2-45)

4K2-40 Selective synthesis of Ring-shaped Rhenium(I) Tetranuclear Complexes and Their Photocatalysis for CO₂ Reduction (Tokyo Tech.) NAKAGAWA, Yuki; YAMAMOTO, Youhei; KOIKE, Kazuhide; MORIMOTO, Tatsuki; ISHITANI, Osamu

4K2-41 Synthesis of a Ruthenium(II)-Rhenium(I) Bimetallic Complex Bridged with a Cyclic Bisdiimine Ligand and Its Photocatalysis for CO₂ Reduction. (Tokyo Tech., SORST/JST, Tokyo Univ. of Science) OHASHI, Kenji; KOIKE, Kazuhide; MORIMOTO, Tatsuki; ISHITANI, Osamu

4K2-42 C-H Activation of Ethylbis(2-pyridylethyl)amine during Formation of Ruthenium Complex (Faculty Sci. Technol., Sophia Univ.; Coordination Chemical.Ltd) FUKUI, Sohei; HIRANO, Toshiyuki; SUZUKI, Noriyuki; SATO, Fumitoshi; NAGAO, Hirotsuka

4K2-43 Reactions of Nitrido-bridged Diruthenium Complex Containing Hydroxo Ligand with Acids (Faculty of Sci. Technol., Sophia Univ.; Coordination Chemical.Ltd) ITAGAKI, Rina; NAGAO, Hirotsuka

4K2-44 Synthesis of Bidentate Diphosphine Ligands Bearing Bis(terpyridyl) osmium Moiety as a Light Absorbing Unit (School of Engineering; The Univ. of Tokyo) SASAKI, Kouitsu; NAKAJIMA, Kazunari; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

4K2-45 Photocatalytic Production of Dihydrogen Using Diphosphine Ligands Bearing Bis(terpyridyl)osmium Moiety as a Light Absorbing Unit (School of Engineering; the Univ. of Tokyo) NAKAJIMA, Kazunari; SASAKI, Kouitsu; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

Room K3

Bldg.12 1233

Coordination Chemistry, Organometallic Chemistry

Friday, March 27, AM

Si, Ge (Multiple Bond and Low-Coordinated Compounds)

Chair: IWAMOTO, Takeaki (9:30~10:30)

* 9:20-9:30: interval for laptop PC connection.(1K3-04, 1K3-06, 1K3-07, 1K3-08, 1K3-09)

1K3-04* Synthesis and Structure of Novel Transition Metal Complexes with Trisilacyclopentadienyl Ligand (Univ. of Tsukuba) YASUDA, Hiroyuki; LEE, Vladimir Ya.; SEKIGUCHI, Akira

1K3-06 Synthesis of Bis(substituted-phenyl)disilenes Starting from Dibromodisilenes Stabilized by Bulky Rind Groups (RIKEN) SUZUKI, Katsunori; HASHIZUME, Daisuke; MATSUO, Tsukasa; TAMAO, Kouhei

1K3-07 Synthetic Studies of a Novel Cyclic Dialkynyl Disilene (Institute for Chemical Research, Kyoto Univ.) SATO, Takahiro; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

1K3-08 Reaction of Disilenyllithium with Arylbromides: Synthesis and Structure of New Disilenes (Univ. of Tsukuba) KACHI, Marina; INOUE, Shigeyoshi; ICHINOHE, Masaaki; SEKIGUCHI, Akira

1K3-09† Synthetic Studies of Containing Silicon Heteroaromatic Compounds (Institute for Chemical Research, Kyoto Univ.) MORIKAWA, Satoshi; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

Chair: MATSUO, Tsukasa (10:40~11:40)

* 10:30-10:40: interval for laptop PC connection.(1K3-11, 1K3-12, 1K3-13, 1K3-15, 1K3-16)

1K3-11 Synthesis and structure of disilaquinodimethanes (Univ. of Tsukuba) NOZAWA, Takeshi; NAGATA, Michiyo; ICHINOHE, Masaaki; SEKIGUCHI, Akira

1K3-12 Synthesis and Reactivity of Bromo-substituted Disilacyclopentene (Univ. of Tsukuba) IGARASHI, Masayasu; ICHINOHE, Masaaki; SEKIGUCHI, Akira

1K3-13* Synthesis, structure, and properties of stable 1,2-bis(metarocenyl) disilenes. (Institute for Chemical Research, Kyoto Univ.) YUASA, Akihiro; SASAMORI, Takahiro; TOKITOH, Norihiro

1K3-15 The First Stable Unsymmetrically-substituted Disilyne: Synthesis and Properties (Univ. of Tsukuba) MURATA, Yoshitaka; ICHINOHE, Masaaki; SEKIGUCHI, Akira

1K3-16 Synthesis, Structure and Reactivity of a Novel Disilyne Bearing Two Bulky Trialkylsilyl Groups (Univ. of Tsukuba) YAMAGUCHI, Torahiko; ICHINOHE, Masaaki; SEKIGUCHI, Akira

Friday, March 27, PM

Chair: MASUDA, Hideki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1K3-28)

1K3-28 CSJ Award for Creative Work Study on Chemical Bonding and Reactivity of Transition Metal Clusters (Graduate School of Engineering Science, Osaka Univ.) MASHIMA, Kazushi

Si, Ge (Multiple Bond and Low-Coordinated Compounds)

Chair: ISHIDA, Shintaro (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1K3-35, 1K3-36, 1K3-37, 1K3-38, 1K3-39)

1K3-35 Studies on the Synthesis of Kinetically Stabilized 1,1'-Disila-4,4'-biphenyl (Institute for Chemical Research, Kyoto Univ.) TANABE, Yusuke; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

1K3-36 Reactions of a Disilyne with Isocyanides (Univ. of Tsukuba) TAKEUCHI, Katsuhiko; ICHINOHE, Masaaki; SEKIGUCHI, Akira

1K3-37 Reaction of Disilyne with Organic Sulfur Compounds (Univ. of Tsukuba) YAMAGUCHI, Takahiro; ICHINOHE, Masaaki; SEKIGUCHI, Akira

1K3-38† Investigation of the Synthesis of 9,10-Disila- and 9,10-Digermphe-nanthrenes (Institute for Chemical Research, Kyoto Univ.) INAMURA, Koji; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

1K3-39* Search of Isomerization Pathways of Si4H6 Isomers by the Scaled Hypersphere Search Method (Tohoku Univ.) IWAMOTO, Takeaki; MOTTEKI, Masahiro; MAEDA, Satoshi; KIRA, Mitsuo; OHNO, Koichi

Chair: SASAMORI, Takahiro (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1K3-42, 1K3-43, 1K3-44, 1K3-45, 1K3-46, 1K3-47)

1K3-42 Attempt of the Synthesis of a Silyne with a Silicon-Carbon Triple Bond (Univ. of Tsukuba) TANAKA, Hiroaki; ICHINOHE, Masaaki; SEKIGUCHI, Akira

1K3-43 Synthesis and Structure of the First Dichlorocyclo-tetragermene, and its Reduction to Tetragermacyclobutadiene Dianion (Univ. of Tsukuba) ITO, Yuki; YASUDA, Hiroyuki; LEE, Vladimir Ya.; SEKIGUCHI, Akira

1K3-44 Reactions and Optical Properties of Divalent Heavier Group 14 Element Compounds Bearing a Dipyrromethene Framework (The Univ. of Tokyo) KUSHIDA, Tomokatsu; KOBAYASHI, Junji; KAWASHIMA, Takayuki

1K3-45 Synthesis, Structure and Reactivity of Group 4 Silylene Complexes (Univ. of Tsukuba) YOKOYAMA, Taka; TAKANASHI, Kazunori; LEE, Vladimir Ya.; SEKIGUCHI, Akira

1K3-46* Synthesis of Conjugated Phosphasilenes Having Bulky Rind Groups (RIKEN) LI, Baolin; LUO, Qian; HASHIZUME, Daisuke; MATSUO, Tsukasa; TAMAO, Kohei

1K3-47 New Arsasilene and First Arsgermene (Univ. of Tsukuba) KAWAI, Manami; LEE, Vladimir Ya.; SEKIGUCHI, Akira; RANAIVONJATOVO, Henri; ESCUDIE, Jean

Si, Ge, Sn, Pb, Sb (Anions and Heteroles)

Chair: KANO, Naokazu (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1K3-49, 1K3-50, 1K3-51, 1K3-52, 1K3-53, 1K3-54)

1K3-49 Synthesis and ESR Spectra of the Organic Antimony Compounds Carrying the Phenothiazine Dyad as the Ligand (Institute of Technology and Science, Univ. of Tokushima) OKA, Hiroyuki

1K3-50 Synthesis of a silicon analogue of hipposudoric acids, pigments in the red sweat of the hippopotamus (Shizuoka Univ.) KAWABE, Chika; SAKAMOTO, Kenkichi

1K3-51 Synthesis of Stannylstannanes Having Bulky *m*-Terphenyl Ligands and their Transmetalation Reactions. (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) TOMIZAWA, Katsuya; SAITO, Masaichi

1K3-52 {Tris[*o*-(fluorosilyl)phenyl]germyl}potassium (Graduate School of Science, Hiroshima Univ.) KAWACHI, Atsushi; MACHIDA, Koji; YAMAMOTO, Yohsuke

1K3-53 Reactions of Stannole Anion and Dianion with Metal Reagents (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) KUWABARA, Takuya; SAITO, Masaichi

1K3-54 Synthesis of Plumbole Anions from the Plumbole Dianion and their Structures (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.; Department of Theoretical Molecular Science, Institute for Molecular Science) SAKAGUCHI, Masafumi; SAITO, Masaichi; ISHIMURA, Kazuya; NAGASE, Shigeru

Saturday, March 28, PM

Si, Ge (Silanols, Siloxanes, Oligosilanes)

Chair: MAEDA, Hajime (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(2K3-23, 2K3-24, 2K3-25,

2K3-26, 2K3-27, 2K3-28)

2K3-23 Synthesis and Characterization of Ethyl-substituted Cyclotetrasiloxane (Gunma Univ.) UNNO, Masafumi; TSUCHIYA, Hiroshi

2K3-24 Synthesis of Hydrosilanes and Silanols Bearing a Bipyridyl or Pyridyl Group and Their Grafting on Metal Oxide (Graduate school of engineering, Gunma Univ.) TSUKAHARA, Takashi; UNNO, Masafumi; YAMAMURA, Masaki; KAKIAGE, Kenji; FUJIMURA, Emi

2K3-25 Fabrication of oligosilane nanocrystals using a reprecipitation method (1) (Shizuoka Univ., Tohoku Univ.) MORITA, Yuki; SHIBATA, Yuji; NAGAYA, Naoto; SAKAMOTO, Kenkichi; KIRA, Mitsuo; KWON, Eunsang; OIKAWA, Hidetoshi; NAKANISHI, Hachiro

2K3-26 Fabrication of oligosilane nanocrystals using a reprecipitation method (2) (Shizuoka Univ., Tohoku Univ.) SHIBATA, Yuji; MORITA, Yuki; NAGAYA, Naoto; SAKAMOTO, Kenkichi; KIRA, Mitsuo

2K3-27 Synthesis and Photochemical Properties of Amphiphilic Oligosilanes with a polyethylene glycol End-Group (Shizuoka Univ., Tohoku Univ.) MAKINO, Ryota; NAGAYA, Naoto; SAKAMOTO, Kenkichi; KIRA, Mitsuo

2K3-28 Synthesis and structure of a novel bicyclo[1.1.1]pentasilane (Tohoku Univ.) TSUSHIMA, Daisuke; IWAMOTO, Takeaki; ISOBE, Hiroyuki

Chair: ICHINOHE, Masaaki (13 : 50~14 : 50)

* 13:40-13:50: interval for laptop PC connection.(2K3-30, 2K3-32, 2K3-33, 2K3-34, 2K3-35)

2K3-30* Bond Length Control of π Single Bonds between Group 14 Elements (Graduate School of Engineering, Gunma Univ.) YOSHIMURA, Kimio; KYUSHIN, Soichiro

2K3-32 New Cyclotetragermenes Derived from the Reactions of Hexa-*tert*-butylbicyclo[1.1.0]tetragermene with Terminal Alkynes (Graduate School of Engineering, Gunma Univ.) MAEKAWA, Koji; ISHIDA, Shintaro; KYUSHIN, Soichiro

2K3-33 Synthesis and Structures of 1,2-Disilylcyclotetrasilanes (Graduate School of Engineering, Gunma Univ.) HOSHINO, Shota; ISHII, Yuki; ISHIDA, Shintaro; KYUSHIN, Soichiro

2K3-34 Synthesis and Fluorescence Properties of Silanes Bearing Arylethynyl Groups on Silicon Atom (Grad. Sch. Eng., Osaka Pref. Univ.) FUJII, Takayuki; MINAMIDA, Keita; MAEDA, Hajime; MIZUNO, Kazuhiko

2K3-35 Study of a Silole-core Carbosilane Dendrimer Peripheral Functionalized with Carbohydrate as a Lectin Detection. (Saitama Univ.; Graduate School of Science and Engineering) SAEKI, Hitoshi; HATANO, Ken; AIZAWA, Akihiro; YOKOTA, Hiroo; MATSUOKA, Kouzi; TERUNUMA, Daiyou

Si, Sn (p-Electron Systems)

Chair: KAWACHI, Atsushi (15 : 00~16 : 00)

* 14:50-15:00: interval for laptop PC connection.(2K3-37, 2K3-38, 2K3-39, 2K3-41, 2K3-42)

2K3-37 Study on Synthesis of Hypervalent Tin Compounds with a Bond between Two Pentacoordinated Tin Atoms (The Univ. of Tokyo) TSUKADA, Satoru; KANO, Naokazu; KAWASHIMA, Takayuki

2K3-38 Synthesis and Reduction of Novel Dithienostannoles (Department of Chemistry, Graduate School of Science and Engineering, Saitama Univ.) SHIRATAKE, Munenori; SAITO, Masaichi

2K3-39* Microwave-assisted Efficient Synthesis of 9-Phenyl-9,10-disilatriptycene and Its Halogenation and Reduction (Graduate School of Engineering, Gunma Univ.) KURIBARA, Takayoshi; ISHIDA, Shintaro; KYUSHIN, Soichiro

2K3-41 Synthesis of Benzo[1,2,3,4,5,6]tris(1,1,2,2-tetramethyl-1,2-disilacyclo-but-3-ene) (Graduate School of Engineering, Gunma Univ.) TOMA, Yuki; KYUSHIN, Soichiro

2K3-42 Synthesis and structure of σ - π conjugated molecule containing strained hydrocarbon, tetrahedrane (Univ. of Tsukuba) INAGAKI, Yusuke; NISHINA, Motoaki; NAKAMOTO, Masaaki; SEKIGUCHI, Akira

Chair: SAITO, Masaichi (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(2K3-44, 2K3-45, 2K3-46, 2K3-47, 2K3-48, 2K3-49)

2K3-44 Effects of Silylethynyl, Silylbutadiynyl, and Silylhexatriynyl Groups on Fluorescence Properties of Naphthalene Derivatives (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Gunma Univ.) MINAMIDA, Keita; MAEDA, Hajime; YAMAJI, Minoru; MIZUNO, Kazuhiko

2K3-45 Synthesis, Structures, and Reactivity of Novel Silacyclohexadienyl Transition Metal Complexes (Institute for Chemical Research, Kyoto Univ.) TANABE, Yusuke; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

2K3-46 Synthesis, Properties, and Reactions of Tetraphenylporphyrin-Hydro-silicon Complexes (Graduate School of Engineering, Gunma Univ.) MATSUMOTO, Maiko; YOSHIMURA, Kimio; ISHIDA, Shintaro; KYUSHIN, Soichiro

2K3-47 Synthesis of *o*-(Difluoromethylsilyl)(dimethylboryl)benzene and Its Complexation with a Fluoride Ion (Graduate School of Science, Hiroshima Univ.) KAWACHI, Atsushi; SHIMADA, Junpei; YAMAMOTO, Yohsuke

2K3-48†* Synthesis and Optical Properties of Octupolar-Type Conjugated Molecules with a Spirobisilafluorene Core (The Univ. of Tokyo) HOSSAIN, Md. Delwar; AGOU, Tomohiro; KAWASHIMA, Takayuki

2K3-49 Synthesis and Optical Properties of Donor-Acceptor Type Spirobihe-
terafluorene (The Univ. of Tokyo) AGOU, Tomohiro; KAWASHIMA,
Takayuki

Sunday, March 29, AM

Chair: ITOH, Shinobu (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(3K3-01, 3K3-03, 3K3-04,
3K3-05, 3K3-06)

3K3-01* Kinetic Study of Rotaxane Formation of Amphiphilic Pt(II) and Pd
(II) Complexes and α -Cyclodextrin (Tokyo Inst. of Tech., Chem. Res. Lab)
TAIRA, Toshiaki; SUZAKI, Yuji; OSAKADA, Kohtaro

3K3-03 Formation of Iridium(III) Hydrido Complex Containing 8-(Diphe-
nylphosphino)quinoline (Faculty of Science, Okayama Univ.; Graduate
School of Science, Osaka Univ.) ARIYOSHI, Keita; KOTERA, Mai;
SUZUKI, Takayoshi; KOJIMA, Masaaki

3K3-04[†] Synthesis and Properties of Rhodium Dinuclear Complex having Ru
(bpy)₃²⁺ unit (Kyushu Univ.) HIRAHARA, Masanari; MASAOKA,
Shigeyuki; HANAN, Garry; SAKAI, Ken

3K3-05 Homogeneous catalysis of hydrogen production from water by
studying the reduction of water by an organic radical (Kyushu Univ.)
YAMAUCHI, Kosei; MASAOKA, Shigeyuki; SAKAI, Ken

3K3-06 On the intermediates for the facile photooxidation of cyclometalated
diplatinum complexes. (Graduate school of Science, Hokkaido Univ.) ITO,
Hirotoshi; KOBAYASHI, Atsushi; KATO, Masako

Chair: YUKI, Masahiro (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(3K3-08, 3K3-09, 3K3-10,
3K3-11, 3K3-12, 3K3-13)

3K3-08 Synthesis and Reactivity of Transition Metal Complexes Supported by
A β -Diketiminato Ligand Containing Two Phenol Groups (Graduate School
of Science, Osaka City Univ. and Graduate School of Engineering, Osaka
Univ.) USA, Daisuke; ITOH, Shinobu

3K3-09 H₂O₂-reactivity of Ni(II) Complexes Supported by TPA Ligands with
6-Phenyl Substituent on the Pyridine Ring. (Graduate School of Science,
Osaka City Univ.; Graduate School of Engineering, Osaka Univ.; Univ. of
Hyogo) DOI, Yoshitaka; KUNISHITA, Atsushi; KUBO, Minoru; OGURA,
Takashi; ITOH, Shinobu

3K3-10 Synthesis and Reactivity of Traditional Metal Complexes Supported
by a Phenol Containing Ligand (Graduate School of Science, Osaka City
Univ. / Graduate School of Engineering, Osaka Univ. / Univ. of Hyogo)
TABUCHI, Kae; KUNISITA, Atsushi; KUBO, Minoru; OGURA, Takashi;
ITOH, Shinobu

3K3-11 Reaction of Cu(II) Complexes Supported by TPA Ligands Containing
6-Phenyl Substituent and Alkyl Hydroperoxide. (Osaka City Univ.; Osaka
Univ.; Univ. of Hyogo) TANO, Tetsuro; KUNISHITA, Atsushi; DOI,
Yoshitaka; KUBO, Minoru; OGURA, Takashi; ITOH, Shinobu

3K3-12 Introduction of Disulfide in Metal-Organic Frameworks(MOFs) by
Post-Modification. (Graduate School of Engineering, Kyushu Univ.) SATO,
Hirotoshi; GOTO, Yuta; SADA, Kazuki

3K3-13 Reduction of Azide-Modified Metal-Organic Frameworks(MOFs)
(Graduate School of Engineering, Kyushu Univ.) SATO, Hirotoshi; GOTO,
Yuta; SADA, Kazuki

Chair: HAGA, Masaaki (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(3K3-15, 3K3-16, 3K3-17,
3K3-18, 3K3-19, 3K3-20)

3K3-15 Design and Applications of Organic Templates for Solid Phase
Synthesis of Metal Ion Arrays (NIMS) TASHIRO, Kentaro;
POTHIAPPAN, Vairaprakash; YAGHI, Omar

3K3-16 Easy Preparation of (Perfluoro-mu-carboxylato)ruthenium(II)Com-
plexes as MOCVD Precursor of Ruthenium Thin Film (Tokyo Univ. of A &
T) OHNO, Satoshi; SAKAI, Tatsuya; KOMINE, Nobuyuki; HIRANO,
Masafumi; KOMIYA, Sanshiro

3K3-17 Immobilization of antimony(V)-phthalocyanine complexes on metal
oxide (National Institute for Materials Science) ISAGO, Hiroaki;
KAGAYA, Yutaka; MATSUSHITA, Akiyuki

3K3-18 Improvement of Hydrophilicity by Photolysis of Si-Si bond containing
Polymers (Grd Schl Eng, Hiroshima Univ) MATSUKAWA, Junya;
OHSHITA, Joji; KUNAI, Atsutaka

3K3-19 Application of Si-linked Oligothiophenes as Organic FET Materials
(Grd Schl Eng, Hiroshima Univ) HATANAKA, Yosuke; KOBAYASHI,
Hiroyuki; KUNUGI, Yoshihito; OHSHITA, Joji

3K3-20 Complex formation of organogermanium compound, Ge-132, with
saccharides (ASAI GERMANIUM RESERCH INSTITUTE Co., Ltd)
SHIMADA, Yasuhiro; SATO, Katuyuki

Room K4

Bldg.12 1234

Coordination Chemistry, Organometallic Chemistry

Friday, March 27, AM

Group 3 and 4 metals

Chair: ISHII, Akihiko (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1K4-01, 1K4-02, 1K4-03,
1K4-04, 1K4-05, 1K4-06)

1K4-01[#] Synthesis and olefin polymerization activity of rare earth dialkyl
complexes bearing pyrolyl or phospholyl ligands. (RIKEN) HUANG,
Xiaofeng; NISHIURA, Masayoshi; HOU, Zhaomin

1K4-02[#] Synthesis and Reactivity of Trinuclear Rare Earth Methylidene
Polymethyl Complexes Bearing Cyclopentadienyl Ligands (RIKEN)
WANG, Zitao; ZHANG, Wenxiong; NISHIURA, Masayoshi; XI, Zhenfeng;
HOU, Zhaomin

1K4-03[#] Mono-Coupling Reaction of Cyclopentadienyl Ligand with the Diene
Moiety of Bis(cyclopentadienyl)titanacyclopentadiene Complexes (Catalysis
Research Center, Hokkaido Univ.; SORST, SEEDS INNOVATION-JST)
SONG, Zhiyi; LI, Shi; NAKAJIMA, Kiyohiko; KANNO, Ken-ichiro;
TAKAHASHI, Tamotsu

1K4-04[#] Successive Carbon-Carbon Bond Cleavage of Cyclopentadienyl
Ligand in Bis(cyclopentadienyl)titanacyclopentadienes (Catalysis Research
Center, Hokkaido Univ.; Department of Chemistry, Aichi Univ. of
Education; SORST) HSIEH, Yi-fang; SONG, Zhiyi; NAKAJIMA,
Kiyohiko; KANNO, Ken-ichiro; TAKAHASHI, Tamotsu

1K4-05 Syntheses and Structures of Rare Earth Metal Polyhydrido Clusters
Supported by Cyclopentadienyl ligands (RIKEN) SHIMA, Takanori; HOU,
Zhaomin

1K4-06[#] Influences of Ligand Substituents on the Polymerization of Isoprene
Catalyzed by Yttrium Complexes Bearing Amidinate Ligands (RIKEN)
WANG, Haiyu; ZHANG, Lixin; NISHIURA, Masayoshi; HOU, Zhaomin

Chair: KANNO, Ken-ichiro (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(1K4-08, 1K4-09, 1K4-10,
1K4-11, 1K4-12, 1K4-13)

1K4-08 Reaction of polynuclear polyhydrido rare-earth metal complexes with
1,3,5,7-cyclooctatetraene (RIKEN) KONNO, Yosuke; HOU, Zhaomin

1K4-09 Synthesis, Structure, and Isomerization of a Zirconium Borate
Complex with Tripodal Aryloxides (Department of Chemistry, Tokyo
Institute of Technology) ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki

1K4-10 Synthesis of Zirconium Complex Bearing an [OSSO]-type bis(pheno-
lato) Ligand and Its Ability as the Catalyst for Alkene Polymerization
(Saitama Univ.; RIKEN) TODA, Tomoyuki; NAKATA, Norio; ISHII,
Akihiko; MATSUO, Tsukasa; TAMAO, Kohei

1K4-11 Synthesis and Reactivities of Titanium Complexes Bearing an [OSSO]-
type Ligand (Saitama Univ.; RIKEN) TODA, Tomoyuki; NAKATA,
Norio; ISHII, Akihiko; MATSUO, Tsukasa; TAMAO, Kohei

1K4-12 Heterometallic hydrido complex comprising hafnocene and iridium
units: Ligand effect on arene C-H activation (Tokyo Institute of Technology)
ENYA, Taisuke; OISHI, Masataka; SUZUKI, Hiroharu

1K4-13 Syntheses and Properties of Boryltitanium and Borylhafnium Com-
plexes (The Univ. of Tokyo, Graduate School of Engineering)
YAMASHITA, Makoto; TERABAYASHI, Tomomi; NOZAKI, Kyoko

Chair: ISHIDA, Yutaka (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(1K4-15, 1K4-16, 1K4-18,
1K4-19, 1K4-20)

1K4-15 Synthesis and Reactivity of Group 4 Metal Alkyl Complexes Bearing
Dianionic N,N,C-Tridentate Ligands. (Graduate School of Engineering
Science, Osaka Univ.) YAMAMOTO, Koji; TSURUGI, Hayato;
MASHIMA, Kazushi

Group 5 metals

1K4-16* Unique Generation of Low-valent Ta(III) Species using Bis(silyl)
cyclohexadienes and Its Catalytic Performance for Trimerization of Ethylene
(Graduate School of Engineering Science, Osaka Univ.) TSURUGI,
Hayato; ARTEAGA-MULLER, Rocio; YANAGAWA, Masao; ODA, Seiji;
MASHIMA, Kazushi

1K4-18 Synthesis of Low Valent Early Transition Metal Complexes by using
Bis(silyl)cyclohexadiene as a Reduction Reagent (Graduate School of
Engineering Science, Osaka University) SAITO, Teruhiko; TSURUGI,
Hayato; MASHIMA, Kazushi

1K4-19 Synthesis of a dinitrogen Ta complex containing sulfur donors (Grad.
Sch. Sci., Osaka City Univ.) TAKADA, Ryoichi; HIROTSU, Masakazu;
NISHIOKA, Takanori; KINOSHITA, Isamu

Group 6 metals

- 1K4-20** Synthesis and Structure of Molybdenum-Dinitrogen Complex with a Pincer Ligand (School of Engineering, The Univ. of Tokyo) ARASHIBA, Kazuya; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

Friday, March 27, PM

Chair: MURAOKA, Takako (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1K4-28, 1K4-29, 1K4-30, 1K4-31, 1K4-32, 1K4-33)
- 1K4-28** S-CN Bond Cleavage of Thiocyanate Catalyzed by a Transition Metal Complex (Osaka City Univ.) KASA, Michihiro; OYA, Tsukuru; FUKUMOTO, Kozo; ITAZAKI, Masumi; NAKAZAWA, Hiroshi
- 1K4-29[†]** Catalytic Dehydrogenative Coupling Reaction of Hydrosilane with Thiol by a Methyl-iron Complex (Osaka City Univ.) FUKUMOTO, Kozo; KASA, Michihiro; OYA, Tsukuru; ITAZAKI, Masumi; NAKAZAWA, Hiroshi
- 1K4-30** Synthesis and Characterization of Dimolybdenum Complex Bridged with Aromatic Compound (Nagoya Institute of Technology) OGAWA, Takahiko; MATSUMOTO, Jun; KAJITA, Yuji; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 1K4-31** Synthesis and Characterization of Molybdenum Dinitrogen Complex Coordinated by Aminophosphine Ligand. (Nagoya Institute of Technology) OGAWA, Takahiko; MATSUMOTO, Jun; KAJITA, Yuji; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 1K4-32** Reactions of Bis(diphenylsilyl)acetylene with Acetonitrile Complexes of Mo and W: Synthesis and Dynamic Behavior of Mononuclear Complexes and Their Transformation into Dinuclear Complexes (Tohoku Univ., Graduate School of Science) OIKE, Hiroyuki; KAWAI, Masaaki; SAKABA, Hiroyuki
- 1K4-33** Synthesis and Properties of a Three-Membered-Ring Complex Composed of Molybdenum, Silicon, and Phosphorus (Faculty of Science, Tohoku Univ.) IIDA, Shintaro; KOMURO, Takashi; TOBITA, Hiromi

Chair: ITAZAKI, Masumi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1K4-35, 1K4-36, 1K4-37, 1K4-38, 1K4-39, 1K4-40)
- 1K4-35** Synthesis and reactivity of $(OC)_3W\{\eta^1-H_3Ga(3,5-lutidine)\}$ (Graduate school of Engineering, Gunma Univ.) ICHIMURA, Hitoshi; MURAOKA, Takako; UENO, Keiji
- 1K4-36[†]** Synthesis and photochemical reaction of gallium-bridged heterodinuclear complexes (Graduate School of Engineering, Gunma Univ.) MOTOHASHI, Hideaki; MURAOKA, Takako; UENO, Keiji
- 1K4-37** Reactions of Hydrogen-Bridged Bis(silylene)tungsten Complexes with DMAP and Alcohol (Graduate School of Science, Tohoku Univ.) HASHIMOTO, Hisako; ODAGIRI, Yuto; TOBITA, Hiromi
- 1K4-38** Synthesis and Properties of Dinuclear (Iminoacyl)tungsten Complexes Connected by an Oligophenylene Unit (Graduate School of Science, Tohoku Univ.) SUZUKI, Eiji; KOMURO, Takashi; TOBITA, Hiromi
- 1K4-39[#]** Synthesis and Reactions of Tungsten Tetrahydrido Complex Having Tetraphosphine Ligand (Institute of Industrial Science, The Univ. of Tokyo) DAI, Qixiu; TANZAWA, Yukiko; SEINO, Hidetake; MIZOBE, Yasushi
- 1K4-40** Reaction of C_2H_4 and $W(CO)_4$ with two coordinativelyunsaturated sites: Selective production of *cis*- $W(CO)_4(C_2H_4)_2$ (Kyoto Institute of Technology) MIYASAKA, Shuichi; OKADA, Arifumi; ISHIKAWA, Yo-ichi

Group 7 metals

Chair: SEINO, Hidetake (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1K4-42, 1K4-43, 1K4-44, 1K4-45, 1K4-46, 1K4-47)
- 1K4-42** Synthesis and Characterization of Penta-coordinated Mn(III) Complex with Tetradentate Carbene Ligand Having Aryloxy Groups (Nagoya Institute of Technology) KIMATA, Toshihisa; YANO, Kentaro; YAGYU, Takeyoshi; MASUDA, Hideki; JITSUKAWA, Koichiro
- 1K4-43** Synthesis of organo-manganese carbene complexes and tetranuclear manganese-bulky phenoxide cluster (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) KAWATO, Yuko; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1K4-44** Synthesis and reaction of *cis*-(hydrazido)(oxo)rhenium calix[4]-(O)₄arene complexes. (Faculty of Science and Engineering, Chuo Univ.) SHIRAIISHI, Kouze; KONDO, Ayano; MUTOH, Yuichiro; ISHII, Youichi

Fe

- 1K4-45** Synthesis of [2]Rotaxanes Composed of Ferrocene-containing Crown Ether and Their Reactions in Solution. (Tokyo Inst. of Tech., Chem. Res. Lab.) TAKAGI, Atsuko; SUZAKI, Yuji; OSAKADA, Kohtarō
- 1K4-46** Synthesis, Structure, Reactivity and Electronic Property of the Iron (IV) Complexes Having *Ansa*-type Dimethylsilyl Ferrocene. (Osaka City Univ.) MINAKATA, Makiko; ITAZAKI, Masumi; ICHIMURA, Akio; NAKAZAWA, Hiroshi
- 1K4-47** Synthesis of a tetrahedral Iron Dialkyl complex Bearing Bulky Phosphorus-Bridged[1.1]ferrocenophane as a Ligand and Reaction of the

Dialkyl Complex with Alkyl Bromide (Grad. School Of Sci., Hiroshima Univ.) KAWAMOTO, Shinji; IMAMURA, Yuki; MIZUTA, Tsutomu; MIYOSHI, Katsuhiko

Chair: MUTOH, Yuichiro (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1K4-49, 1K4-50, 1K4-51, 1K4-52, 1K4-53, 1K4-54)
- 1K4-49** C-H Borylation of Arenes by a Cp*Fe complex of N-Heterocyclic Carbene (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) HATANAKA, Tsubasa; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1K4-50** Formation of bithiophenediiron complex via oxidative coupling of thienyliron complex (Tokyo Institute of Technology, Chemical Resources Laboratory) JOUNO, Keita; TANAKA, Yuuya; KOIKE, Takashi; AKITA, Munetaka
- 1K4-51** Control of the Electronic Interaction for the Iron Complex Molecular Wires by the Alkyne Coordination of the Dicobalt Carbonyl Complexes (Tokyo Institute of Technology, Chemical Resources Laboratory) TANAKA, Yuya; KOIKE, Takashi; AKITA, Munetaka
- 1K4-52** Dehydrogenative Cross-coupling of Hydrogermanes and Thiols Catalyzed by an Iron Complex (Osaka City Univ.) NAKAMURA, Wataru; KAMITANI, Masahiro; ITAZAKI, Masumi; NAKAZAWA, Hiroshi
- 1K4-53** Synthesis of Methyl(phosphine)iron Complex and Its Reactivity with Hydrogermane (Osaka City Univ.) ITAZAKI, Masumi; HASHIMOTO, Yasuhiro; KAMITANI, Masahiro; NAKAZAWA, Hiroshi
- 1K4-54** Iron Complexes supported by bis(phosphaethenyl)pyridine ligand; Synthesis and its reduction (Institute for Chemical Research, Kyoto Univ.) NAKAJIMA, Yumiko; OZAWA, Fumiyuki

Saturday, March 28, PM

Fe

Chair: TAKEMOTO, Shin (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(2K4-23, 2K4-24, 2K4-25, 2K4-26, 2K4-27, 2K4-28)
- 2K4-23** Synthesis and electronic structures of NCN pincer-type Fe complexes containing a dithiocarbene (Osaka City Univ.; Japan Chemical Co.Ltd) KATO, Ryo; KITANO, Kennichi; HIROTSU, Masakazu; NISHIOKA, Takanori; KINOSHITA, Isamu
- 2K4-24** Synthesis of Coordinatively Unsaturated Iron Complex Having a Bulky Allyl Group (Kyoto Univ. Pioneering Research Unit for Next Generation) TAJIMA, Tomoyuki; TOKITOH, Norihiro
- 2K4-25** Synthesis and Properties of Chloroacetylene-bridged Tetrairon Cluster (Institute for Chemical Research, Kyoto Univ.) MIYAGI, Kazuki; OKAZAKI, Masaaki; OZAWA, Fumiyuki
- 2K4-26** Reactions of Cp*Fe Complex Having a 2,6-Dimesitylbenzenethiolate with Donor Ligands or Alkynes (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) YASUDA, Tomomi; TAKIKAWA, Yuko; OHKI, Yasuhiro; TATSUMI, Kazuyuki

Ru, Os

- 2K4-27[†]** Asymmetric C-C bond formation of cyanoacetate and acetylenic ester with bifunctional chiral Ru or Ir amido catalysts. (Graduate School of Science and Engineering, Tokyo Institute of Technology) HASEGAWA, Yasuharu; GRIDNEV, Ilya; IKARIYA, Takao
- 2K4-28** Ligand effect on the Michael reaction of nitriles catalyzed by ruthenium cyanocarbanion complexes (Graduate School of Engineering Science, Osaka Univ) OGATA, Kazuki; TANNNA, Akio; TAKAYA, Hikaru; MURAHASHI, Shun-ichi; NAOTA, Takeshi

Chair: HIRANO, Masafumi (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(2K4-30, 2K4-31, 2K4-32, 2K4-33, 2K4-34, 2K4-35)
- 2K4-30** Synthesis and Reactivity of Nitrosylruthenium Complexes Bearing a Pyridylpyrazole Ligand (Tokyo Institute of Technology) WATANABE, Megumi; KASHIWAME, Youhei; KUWATA, Shigeki; IKARIYA, Takao
- 2K4-31** Synthesis and Reactivities of Ruthenium Complexes Bearing a Pincer-Type Bis(Pyrazole)Ligand (Tokyo Inst. of Technology) TAZAWA, Akira; KUWATA, Shigeki; IKARIYA, Takao
- 2K4-32** Ruthenium-Catalyzed Condensation of Imidazoles and Allyl Ethers (Tokyo Institute of Technology) NGUYEN, Hoang Ngan; KUWATA, Shigeki; IKARIYA, Takao
- 2K4-33** Photo- and Electrochromic Behavior of Dinuclear Iron and Ruthenium Complexes with Dithienylethene Bridging Ligand (Tokyo Institute of Technology; Chemical Resources Laboratory) MOTOYAMA, Keiko; KOIKE, Takashi; AKITA, Munetaka
- 2K4-34** Syntheses and photophysical properties of Pd complexes containing bichromophore moiety composed of visible-light sensitive polypyridyl ruthenium and UV light-absorbing units (Tokyo Institute of Technology, Chemical Resources Laboratory) MURATA, Kei; INAGAKI, Akiko; AKITA, Munetaka
- 2K4-35** Catalytic homo coupling reaction of aryl halides by a combination of the photo active Ru(II) complex with a Ni complex (Tokyo Institute of

Technology, Chemical Resources Laboratory) ITAKURA, Toru; INAGAKI, Akiko; AKITA, Munetaka; OSAWA, Masahisa

Chair: KUWATA, Shigeki (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(2K4-37, 2K4-38, 2K4-39, 2K4-40, 2K4-41, 2K4-42)
- 2K4-37** Synthesis, Structure, and Reactivity of a Ruthenium Complex Ligated by a Dithiolate Ligand Having a Xanthene Backbone (Graduate School of Science and Faculty of Science, Tohoku Univ.) KANEKO, Kazuhiro; KOMURO, Takashi; TOBITA, Hiromi
- 2K4-38[†]** Synthesis of a Ruthenium Complex Bearing a Bulky Primary Phosphine Ligand and Its Deprotonation Reaction (Institute for Chemical Research, Kyoto Univ.) KAWAI, Masahiro; SASAMORI, Takahiro; TOKITOH, Norihiro
- 2K4-39** Formation of Vinylidenes from Internal Alkynes at Cp- and Cp*-Ru (II) Complexes (Faculty of Science and Engineering, Chuo Univ.) KIMURA, Yusuke; IKEDA, Yousuke; MUTOH, Yuichiro; ISHII, Youichi
- 2K4-40** Synthesis of Ruthenium Selenocarbonyl Complexes (Faculty of Science and Engineering, Chuo Univ.) KOZONO, Naoki; ARAKI, Miho; MUTOH, Yuichiro; ISHII, Youichi
- 2K4-41** N-C Coupling of NO Ligand on Nitrosylruthenium Complexes Including Activation of Amine (Nagasaki Univ.) MURABE, Takeru; ASAYAMA, Taiki; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke; ONISHI, Masayoshi
- 2K4-42** Reactivity of Dinuclear Ruthenium Complexes bearing Tp Ligands (Nagasaki Univ.) MATSUMOTO, Naoki; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke; ONISHI, Masayoshi

Chair: KOIKE, Takashi (16 : 10~17 : 20)

- * 16:00-16:10: interval for laptop PC connection.(2K4-44, 2K4-45, 2K4-46, 2K4-47, 2K4-48, 2K4-49, 2K4-50)
- 2K4-44** Synthesis and Properties of N-fused Porphyrin Ruthenocene-type Complex (Graduate School of Engineering, Kyushu Univ.) SATO, Ayumi; TOGANO, Motoki; FURUTA, Hiroyuki
- 2K4-45** Regioselective C-H Bond Cleavage Reaction of (Carboxylato)ruthenium(II) Complexes (Tokyo Univ of A & T) FUJIMOTO, Ryo; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 2K4-46** Formation of Bis(oxa-p-allylic)ruthenium(II) Complex by Dimerization of Enone on Ruthenium(0) (Tokyo Univ. of A & T, Australian National Univ.) SAKATE, Yumiko; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro; BENNETT, Martin A.
- 2K4-47** Oxidative Addition of Carbon-Oxygen Bond of Allylic Esters and Ether to Ruthenium(0) (Tokyo Univ of A & T) SATO, Kazuya; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 2K4-48** Study of Reactivity of Ruthenium-Phosphine Complexes with 2'-Aminopivalphenones (Keio Univ.) KOREEDA, Tetsuro; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 2K4-49** Synthesis of NHC-Ag complexes using NHC-BE₃ compounds and their application of the preparation of the heterobimetallic complex (Yokohama National Univ.) OKAYAMA, Tetsuya; YAMAGUCHI, Yoshitaka
- 2K4-50** Aerobic Oxidation of Imidazolines to Imidazoles Catalyzed by Cyclometallated Ru Complex (Univ. of Tsukuba:Tokyo Tech) TSUJIMOTO, Akitsu; TAKETOSHI, Ayako; MAEDA, Shusaku; KOIZUMI, Take-aki; KANBARA, Takaki

Sunday, March 29, AM

Ru, Os

Chair: OGASAWARA, Masamichi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3K4-01, 3K4-02, 3K4-04, 3K4-05, 3K4-06)
- 3K4-01** A phosphorus-phosphorus bond forming reaction on a diruthenium complex (Department of Chemistry, Graduate School of Science, Osaka Prefecture Univ.) TAKEMOTO, Shin; KIMURA, Yu; MURAKAMI, Shinya; KAMIKAWA, Ken; MATSUZAKA, Hiroyuki
- 3K4-02*** Electronic properties of tetra-ruthenium polyhydrido complexes (CpRu)_n(Cp*Ru)_(4-n)H_m (n = 0,1,2,3,4; m = -1,0,1,2) (Graduate School of Science and Engineering, Tokyo Institute of Technology) KAMEO, Hajime; MOCHIZUKI, Shinsuke; ITO, Yutaka; UEHARA, Naoki; FUJIMOTO, Junko; SUZUKI, Hiroharu
- 3K4-04[†]** Synthesis and properties of tetra-ruthenium benzoquinone complexes with linked bis(tetramethylcyclopentadienyl) ligand. (Tokyo Institute of Technology, Graduate School of Science and Engineering) YANAGI, Takako; OISHI, Masataka; SUZUKI, Hiroharu
- 3K4-05** Reactivity of Dinuclear Ruthenium Amido Complexes Toward Dihydrogen (Department of Chemistry, Graduate School of Science, Osaka Prefecture Univ.) YAMAZAKI, Yusuke; IMOTO, Ryohei; TAKEMOTO, Shin; KAMIKAWA, Ken; MATSUZAKA, Hiroyuki
- 3K4-06** Reconstruction of Alkyne Ligands with Trinuclear Ruthenium Cluster (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology) TAHARA, Atsushi; TAKAO, Toshiro; SUZUKI, Hiroharu

Chair: MIZUTA, Tsutomu (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3K4-08, 3K4-09, 3K4-10, 3K4-11, 3K4-12, 3K4-13)
- 3K4-08** Synthesis of a phosphido-Bridged Dinuclear Complex Containing Ruthenium and Rhodium and Cleavage of an aromatic C-H bond on the complex (Graduate School of Science and Engineering, Tokyo Institute of Technology) OHBAYASHI, Nozomi; TAKAO, Toshiro; SUZUKI, Hiroharu
- 3K4-09** Subtle Interaction between a Heterometallic Polyhydrido Cluster Containing Ruthenium and Iridium with Fluoroalcohol (Department of Chemical Engineering, Undergraduate School of Engineering, Tokyo Institute of Technology) WU, Zhenzhen; TAKAO, Toshiro; SUZUKI, Hiroharu
- 3K4-10** Synthesis of phosphamocenes and their reactivity (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Edu.; SORST) OGASAWARA, Masamichi; SHINTANI, Minoru; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

Co, Rh, Ir

- 3K4-11** Synthesis and Reactivity of Amido-Bridged Dicobalt Complexes (Department of Chemistry, Graduate School of Science, Osaka Prefecture Univ.) HONMA, Takashi; TAKEMOTO, Shin; KAMIKAWA, Ken; MATSUZAKA, Hiroyuki
- 3K4-12** Asymmetric Reductive Aldol Coupling of Enones as Enolate Source Promoted by Chiral Rh(Phebox) Catalyst (Graduate School of Engineering, Nagoya Univ.) ADACHI, Takahiro; SHIOMI, Takushi; ITO, Jun-ichi; NISHIYAMA, Hisao
- 3K4-13** Asymmetric Direct Vinyllogous Aldol Coupling of Enones and Aldehydes with Rh(phebox) Catalysts (Graduate School of Engineering, Nagoya Univ.) MIZUNO, Masato; INOUE, Hiroko; NISHIYAMA, Hisao

Chair: MATSUZAKA, Hiroyuki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3K4-15, 3K4-16, 3K4-17, 3K4-18, 3K4-19, 3K4-20)
- 3K4-15** Reversible Heterolysis of H₂ Mediated by Coordinatively Unsaturated Iridium and Rhodium Complexes having a Bulky Thiolate ligand (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) SAKAMOTO, Mayumi; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 3K4-16** Preparation of Triflylamide-Tethered Cp*Ir or Cp*Rh Complexes and Their Catalytic Activity (Tokyo Institute of Technology) ITO, Masato; TEJIMA, Noriko; ENDO, Yoshinori; IKARIYA, Takao
- 3K4-17** Syntheses and structural properties of iron-rhodium metallacycles consisting of an iminophosphorane scaffold (Graduate School of Science, Hiroshima Univ.) TAKAKI, Kazuto; KUBO, Kazuyuki; AKIMOTO, Takashi; MIZUTA, Tsutomu; MIYOSHI, Katsuhiko
- 3K4-18** Racemization of chiral secondary alcohols with amido complexes bearing C-N chelate ligands and its application to dynamic kinetic resolution (Tokyo Inst. of Technology) SATO, Yasuhiro; KAYAKI, Yoshihito; IKARIYA, Takao
- 3K4-19** Reactivity of iridium complexes bearing a C,N-chelating pyrazolyl ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) KASHIWAME, Yohei; KUWATA, Shigeki; IKARIYA, Takao
- 3K4-20** Synthesis of NH₂- and phosphido-bridged dinuclear complexes of iridium and ruthenium (Graduate School of Science and Engineering, Tokyo Institute of Technology) KIMURA, Takashi; ISIWATA, Koji; KUWATA, Shigeki; IKARIYA, Takao

Sunday, March 29, PM

Chair: ITO, Masato (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3K4-28, 3K4-29, 3K4-30, 3K4-31, 3K4-32, 3K4-33)
- 3K4-28** A New Tridentate Pincer N-Heterocyclic Carbene Ligand: Synthesis, Structure and Complexation with Various Transition-Metals (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) FUKUI, Sadayuki; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 3K4-29** C-H Activation of Arenes by Phebox-Ir Acetate Complexes (Graduate School of Engineering, Nagoya Univ.) KANEDA, Tomoko; ITO, Jun-ichi; NISHIYAMA, Hisao
- 3K4-30** Synthesis of Iridium and Rhodium Complexes Bearing Methyl-naphthalene Bridging N-Heterocyclic Carbene Ligand and Application to Intramolecular Hydroamination of Alkynes (Institute of Science and Engineering, Chuo Univ.) NAGAYA, Toshinori; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 3K4-31** Synthesis and Properties of Iridium Complexes Having New Perimidine Carbene Ligands (Graduate School of Engineering Science, Osaka Univ.) FUJITA, Shingo; TSURUGI, Hayato; MASHIMA, Kazushi
- 3K4-32** Syntheses and properties of PBP pincer iridium complexes (The Univ. of Tokyo, Graduate School of Engineering) SEGAWA, Yasutomo; YAMASHITA, Makoto; NOZAKI, Kyoko
- 3K4-33** Efficient Evolution of Hydrogen and Hydrogen Isotopes in pH-Selective Decomposition of Formic Acid Catalyzed by an Iridium-Ruthenium Dinuclear Complex in Water at Room Temperature (Graduate School of Engineering, Osaka Univ.; SORST(JST)) KOBAYASHI, Takeshi;

SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi

Chair: TSURUGI, Hayato (14:40~15:40)

* 14:30-14:40: interval for laptop PC connection.(3K4-35, 3K4-36, 3K4-37, 3K4-38, 3K4-39, 3K4-40)

3K4-35 Synthesis of Iridium Complexes Bearing a Novel Cp'-PO Ligand and Catalytic Activity for Hosomi-Sakurai Type Reaction (Faculty of Science, Nara Women's Univ..) YAMAMOTO, Midori; URA, Yasuyuki; KATAOKA, Yasutaka

Ni

3K4-36 Ni(0)-catalyzed [3+3] Cyclodimerization of methylenecyclopropane derivative (Faculty of Engineering, Osaka Univ.) TANIGUCHI, Tomoaki; OHASHI, Masato; SAITO, Shinichi; OGOSHI, Sensuke

3K4-37 C-F Bond Cleavage of Tetrafluoroethylene on Ni(0) (Faculty of Engineering, Osaka Univ.) KAMBARA, Tadashi; OOHASHI, Masato; OGOSHI, Sensuke

3K4-38 Studies on the Synthesis of Silyl Pincer-type Nickel and Platinum Complexes (Tokyo Institute of Technology) TAKAYA, Jun; IWASAWA, Nobuharu

3K4-39 Synthesis and Reactivity of Six-membered Oxa-nickelacycles by Oxidative Addition of Cyclopropyl Ketones (Faculty of Engineering, Osaka Univ.) TAMAKI, Takashi; OGOSHI, Sensuke; OHASHI, Masato

3K4-40 Reactions of enones with olefins on Ni(0) (Faculty of Engineering, Osaka Univ.) NISHIMURA, Akira; HABA, Toshifumi; OHASHI, Masato; OGOSHI, Sensuke

Chair: YAMASHITA, Makoto (15:50~16:50)

* 15:40-15:50: interval for laptop PC connection.(3K4-42, 3K4-43, 3K4-44, 3K4-45, 3K4-46, 3K4-47)

3K4-42 Reactions of Aryl Halides with a Nickel(0) Complex Bearing NHC Ligands (Fukuoka Univ. Faculty of Sci.) MIYAZAKI, Satoshi; KOGA, Yuji; MATSUBARA, Kouki

Pd

3K4-43 Remarkable Ligand Effects of Diphosphinidene-cyclobutenes on the Reactivity of π -Allylpalladium Complexes (Institute for Chemical Research, Kyoto Univ.) NAKAJIMA, Yumiko; KIMURA, Tetsuya; OZAWA, Fumiyuki

3K4-44 Oxidative addition of the strained P(V)-C bond with Palladium(0) species and reactivities of the resulting complex (Chemical Resources Laboratory, Tokyo Institute of Technology) SATO, Hirofumi; KASHIWABARA, Taigo; TANAKA, Masato

3K4-45 Mechanistic Study on P-C Reductive Elimination of [Pd(styryl)Br (PR₃)₂] Complexes (Institute for Chemical Research, Kyoto Univ.) WAKIOKA, Masayuki; NAKAJIMA, Yumiko; OZAWA, Fumiyuki

3K4-46 Pd-catalyzed iminothiolation of alkynes (Graduate School of Engineering, Osaka Univ.) MINAMI, Yasunori; KUNIASU, Hitoshi; KAMBE, Nobuaki

3K4-47 Planar tetranuclear palladium clusters containing group 11 metal complexes and their dynamic behaviors in solution. (Chemical Resources Laboratory, Tokyo Institute of Technology) FUKUTA, Tomoko; HOSHINO, Tsuyoshi; TANABE, Makoto; OSAKADA, Kohtaro

Chair: OOHASHI, Masato (17:00~18:10)

* 16:50-17:00: interval for laptop PC connection.(3K4-49, 3K4-50, 3K4-51, 3K4-53, 3K4-54, 3K4-55)

3K4-49 Substituent Effect of the Bridging Si-Ligands on Planar Tetranuclear Palladium Clusters (Chemical Resources Laboratory, Tokyo Institute of Technology) TANABE, Makoto; HOSHINO, Tsuyoshi; OSAKADA, Kohtaro

3K4-50 Successive Ge-Ge bond forming reactions promoted by late transition metal complexes (Chemical Resources Laboratory, Tokyo Institute of Technology) HANZAWA, Masaya; TANABE, Makoto; OSAKADA, Kohtaro

3K4-51* Formation of Linear Polyethylene by Phosphine-Sulfonate Palladium Complexes and Its Mechanism (The Univ. of Tokyo) NODA, Shusuke; KOCHI, Takuya; NOZAKI, Kyoko; MOROKUMA, Keiji; CHUNG, L.W.

3K4-53 Synthesis of Alkylphosphine-Sulfonate Ligands bearing and Their Applications to Palladium-Catalyzed Polymerization (The Univ. of Tokyo) MUNAKATA, Kagehiro; KANAZAWA, Masafumi; ITO, Shingo; NOZAKI, Kyoko

3K4-54 The reactions of 9-triptycyl trihydrogermane with palladium(0) complexes having bidentate phosphine ligands (Saitama Univ.) FUKAZAWA, Shun; NAKATA, Norio; ISHII, Akihiko

3K4-55 Synthesis and Characterization of Pd, Rh and Ir Heterotruclear Complexes with Tetrakisphosphine Ligand (Nara Women's Univ.) YOSHII, Akiko; NAGATA, Hiroko; TAKENAKA, Hiro; NAKAJIMA, Takayuki; TANASE, Tomoaki

Monday, March 30, AM

Pd

Chair: OGOSHI, Sensuke (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(4K4-01, 4K4-02, 4K4-03, 4K4-04, 4K4-05, 4K4-06)

4K4-01 Synthesis and Reaction of Water-soluble Organopalladium-cobalt Complex Having 1,3,5-Triaza-7-phosphaadamantane Ligand (Tokyo Univ. of A & T) SUGINO, Ayumi; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

4K4-02 Synthesis and Reductive Elimination of Water-soluble Diorganopalladium Complexes Having 1,3,5-Triaza-7-phosphaadamantane (Tokyo Univ. of A & T) NAGAI, Tomoko; SEKI, Takanori; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

4K4-03 Development of chiral *N*-heterocyclic carbene Pd(II) complex possessing tridentate ligands derived from α -amino acids (Kansai Univ.; Univ. of Southern California) KAWAKAMI, Miaki; SAKAGUCHI, Satoshi; YOO, K. S.; JUNG, K. W.

4K4-04 Diamidate/*N*-heterocyclic carbene pincer-type complex of palladium (Kansai Univ.; Univ. of Southern California) HARANO, Ayako; SAKAGUCHI, Satoshi; YOO, K. S.; JUNG, K. W.

4K4-05 Chirality Control of Pd Complexes Bearing BIPHEP Derivatives: Application to Asymmetric Catalysis (Tokyo Institute of Technology) MIYAZAKI, Yoshitaka; AIKAWA, Kohsuke; MIKAMI, Koichi

4K4-06 Chirality Control of Au Complexes by Chiral Anions: Application to Asymmetric Au-Catalyzed Reactions (Tokyo Institute of Technology) KOJIMA, Masafumi; AIKAWA, Kohsuke; MIKAMI, Koichi

Chair: OZAWA, Fumiyuki (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(4K4-08, 4K4-09, 4K4-10, 4K4-11, 4K4-12, 4K4-13)

4K4-08 Synthesis of rotaxanes composed of dialkylammonium salt and crown ethers containing {1,2-bis(ethynylpyridyl)benzene} palladium(II) complex (Tokyo Inst. of Tech., Chem. Res. Lab.) SHIMADA, Kyoichi; SUZAKI, Yuji; OSAKADA, Kohtaro

Pt

4K4-09 Synthesis of Transition-Metal Bound Norvaline Derivatives and Their Self-Assembly Properties (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) SASANO, Daisuke; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu

4K4-10 Synthesis of Pincer-type Platinum Complex Bearing Nucleobase Moiety (Osaka Univ.) MORIUCHI, Toshiyuki; NOGUCHI, Shunichi; HIRAO, Toshikazu

4K4-11 Synthesis of transition metal complexes with tripodal tetradentate ligands bearing silyl and sulfide moieties (Department of Chemistry and Chemical Biology, Graduate School of Engineering, Gunma Univ.) WATANABE, Daisuke; TAKEDA, Nobuhiro; UNNO, Masafumi

4K4-12 Synthesis and Intramolecular sp³ C-H Bond Cleavage Reaction of Bis (2,6-dimethylbenzenethiolato)platinum(II) Complexes (Tokyo Univ. of A & T) TATESAWA, Shinya; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

4K4-13[†] Transmetalations from Arylboronic Acid to Platinum Complex and Structures of the Reaction Intermediates (Chemical Resources Laboratory, Tokyo Institute of Technology) KAKEYA, Masaki; OSAKADA, Kohtaro

Chair: OSAKADA, Kohtaro (11:20~12:30)

* 11:10-11:20: interval for laptop PC connection.(4K4-15, 4K4-16, 4K4-17, 4K4-18, 4K4-19, 4K4-20)

4K4-15 Reactions of Hydrido(dihydrosilyl) Platinum(II) Complex with Phosphines (Saitama Univ.) KATO, Nanami; NAKATA, Norio; ISHII, Akihiko

4K4-16 Synthesis and Properties of Platinum(II) Diphosphinidene-cyclobutene Complexes with Extended π -Conjugated Systems (Institute for Chemical Research, Kyoto Univ.) SHIRAIISHI, Yu; TAKITA, Ryo; NAKAJIMA, Yumiko; OZAWA, Fumiyuki

4K4-17 Synthesis and Reaction of μ - η ¹: η ²-Allylplatinum-manganese Complex Having a 1,2-Bis(diphenylphosphino)ethane Ligand (Tokyo Univ. of A & T) SAITO, Syun; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

4K4-18 Visible Light Accelerated Methyl Transfer Reaction of Triorganoplatinum-Manganese Heterodinuclear Complexes (Tokyo Univ. of A & T) EZUMI, Sei; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

4K4-19 Synthesis and structure of cycloheptatrienyl triplatinum sandwich complexes (Graduate School of Engineering, Osaka Univ.) USUI, Kentaro; INOUE, Ryou; MURAHASHI, Tetsuro; OGOSHI, Sensuke; KUROSAWA, Hideo

4K4-20^{†*} Synthesis of Hetero Dinuclear Fischer-type Platinum Carbene Complex and Formation of μ -Alkenyl Complex by Deprotonation (Tokyo Univ. of A & T) TANAKA, Shin-ichi; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

Room L1

Bldg.2 222

Functions of Materials

Friday, March 27, AM

Photochromism

Chair: SHISHIDO, Atsushi (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1L1-01, 1L1-02, 1L1-03, 1L1-05)

- 1L1-01** Morphological change of vesicle induced by photoresponsive Malachite Green derivative (National College of Technology; Research Institute of Osaka Prefecture; Wakayama Univ. Faculty of Systems Engineering) HIRAIISHI, Eri; SAKURAI, Yoshiaki; KIMURA, Keiichi; UDA, Ryoko
- 1L1-02** Temperature Effect on Photoinduced Topographical Changes of Diarylethene Microcrystalline Surfaces (Ryukoku Univ.; Hokkaido Univ.; Mitsubishi Chemical Group, Science and Technology Research Center) UCHIDA, Kingo; NISHIKAWA, Naoki; MAYAMA, Hiroyuki; KOJIMA, Yuku; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; IRIE, Masahiro
- 1L1-03*** Photoinduced reversible crystal shape changes of photochromic diarylethenes: High speed and unique crystal shape changes (Osaka City Univ.; PRESTO, JST) KOBATAKE, Seiya; NISHI, Hiroyasu
- 1L1-05*** Photomechanical Effect of Diarylethene Single Crystals (Rikkyo Univ.; PRESTO, JST) MORIMOTO, Masakazu; IRIE, Masahiro

Chair: NAKAHARA, Yoshio (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(1L1-08, 1L1-09, 1L1-10, 1L1-12)

- 1L1-08** Synthesis and Photochromic Properties of Fast Photochromic HABI with Paracyclophane moiety (Aoyama Gakuin Univ.) KISHIMOTO, Yuta; ABE, Jiro
- 1L1-09** Fast photochromic HABI with two photochromic moieties (Aoyama Gakuin Univ.) KIMOTO, Atsushi; KISHIMOTO, Yuta; ABE, Jiro
- 1L1-10*** Photochromic performance of polysiloxane film possessing spiro-naphthooxazine as the side chain unit (Yokohama National Univ.) GUSHIKEN, Tsuyoshi; SAITO, Masako; UBUKATA, Takashi; YOKOYAMA, Yasushi
- 1L1-12*†** Photoreactive property of single-electron transistor composed by goldnanoparticle-organic molecule hybrid system (Kyushu Univ., KARC NICT, Kyoto Univ.) YAMAGUCHI, Hidehiro; TERUI, Toshifumi; NOGUCHI, Yutaka; UEDA, Rieko; OTOMO, Akira; MATSUDA, Kenji

Chair: EINAGA, Yasuaki (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(1L1-15, 1L1-16, 1L1-17, 1L1-18, 1L1-19, 1L1-20)

- 1L1-15** Photochromism of water-soluble spirooxazine (Aoyama Gakuin Univ.) SHIRO, Atsuko; KIMOTO, Atsushi; ABE, Jiro
- 1L1-16** Photomechanical Function of Furylfulgide Crystals (Ehime Univ.) NAKAYA, Hidemitsu; OJIMA, Naoko; KOSHIMA, Hideko
- 1L1-17** Synthesis and photochromic properties of ter-arylene derivatives having donor acceptor-type substituent in their central aryl unit. (Graduate School of Materials Science, Nara Institute of Science and Technology) KUTSUNUGI, Yuichiro; KAWAI, Shigekazu; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 1L1-18** Photoinduced Surface Relief Grating Formation on a Co-crystal of 4-[Bis(9,9-dimethylfluoren-2-yl)amino]azobenzene and Ethyl Acetate (Osaka Univ.) NAKANO, Hideyuki
- 1L1-19** Photochromic Effect on Vesicle Bilayer Containing Spirobenzopyran Derivative (Wakayama Univ. Faculty of Systems Engineering; Nara National College of Technology; Research Institute of Osaka Prefecture.) IWAI, Kenta; UDA, Ryoko; SAKURAI, Yoshiaki; KIMURA, Keiichi
- 1L1-20** Photomechanical Function of Spiropyran Crystals (Ehime Univ.) KOSHIMA, Hideko; UCHIMOTO, Hidetaka

Friday, March 27, PM

Chair: ABE, Jiro (14:20~15:30)

* 14:10-14:20: interval for laptop PC connection.(1L1-33, 1L1-34, 1L1-35, 1L1-36, 1L1-37, 1L1-38, 1L1-39)

- 1L1-33** Synthesis and Electronic Structures of Bisimidazolyl Derivatives (Yokohama National Univ.) SUZUKI, Koshi; KIKUCHI, Azusa; YAGI, Mikio
- 1L1-34** Time-Resolved Study on Photoinduced Realignment of an Azotolane Liquid-Crystalline Polymer Film by Transient Absorption Spectroscopy (Chemical Resources Laboratory, Tokyo Institute of Technology) KUBO, Shoichi; MATSUTANI, Yuki; SHISHIDO, Atsushi; IKEDA, Tomiki
- 1L1-35** Morphological Analysis of Photo-responsive Nano-layered Hybrid Materials (Tokyo Metropolitan Univ.; SORST/JST) NABETANI, Yu; TAKAMURA, Hazuki; NAKAMURA, Yuka; SHIMADA, Tetsuya;

- TAKAGI, Shinsuke; TACHIBANA, Hiroshi; TONG, Zhiwei; INOUE, Haruo
- 1L1-36** Molecular manipulation of Superconductivity on Nb thin-film (Keio Univ.) IKEGAMI, Aya; SUDA, Masayuki; WATANABE, Takeshi; INDRIANINGSIH, Anastasia Wheni; EINAGA, Yasuaki
- 1L1-37** Reversible Photoinduced Surface Relief Formation of Spirooxazine Thin Films (Yokohama National Univ.) FUJII, Shohei; UBUKATA, Takashi; YOKOYAMA, Yasushi
- 1L1-38** Metal Ion Complexation-induced Isomerization Behavior of Calix[4]arene-diethylamide Derivative Bearing a Spirobenzopyran Moiety (Wakayama Univ., Faculty of Systems Engineering) MACHITANI, Koji; SAEDA, Megumi; NAKAHARA, Yoshio; KIMURA, Keiichi
- 1L1-39** Syntheses and photochromic properties of diarylethenes having fused thiophene ring. (Yonago National College of Technology) TANIFUJI, Naoki; IRIE, Masahiro; MATSUDA, Kenji

Chair: MATSUDA, Kenji (15:40~16:40)

* 15:30-15:40: interval for laptop PC connection.(1L1-41, 1L1-42, 1L1-43, 1L1-44, 1L1-45, 1L1-46)

- 1L1-41** Surface-specific photochromic behavior of nano-hybrids of organic crystals and silica nanoparticles (Toho Univ. Fac. Sci., Toho Univ. HRC) FUNABIKI, Akira; AOKI, Ken'ichi; ICHIMURA, Kunihiro
- 1L1-42** Photo Reactivity for Photochromic Benzofuran Derivatives Having Asymmetric Aryl Moieties (Hyogo Univ. of Teacher Edu.; Osaka Pref. Univ.) YAMAGUCHI, Tadatsugu; NANBA, Koji; OZEKI, Toru; IRIE, Setsuko
- 1L1-43** Photoinduced Surface Relief Formation on Thin Amorphous Films of Radical Dissociative Photochromic Compounds (Yokohama National Univ.) HARADA, Yukari; KIKUCHI, Azusa; YAGI, Mikio; UBUKATA, Takashi; YOKOYAMA, Yasushi; ABE, Jiro
- 1L1-44** Control of Surface Plasmon Peak of Gold Nanoparticle Covered with Diarylethene Polymers and Enhancement Effect to Photochromic Reaction (Graduate School of Engineering, Osaka City Univ.; PRESTO, JST; Department of Applied Physics, Osaka Univ.) NISHI, Hiroyasu; KOBATAKE, Seiya; ASAH, Tsuyoshi
- 1L1-45** The Substituent and Solvent Effects on the Ring-opening Reaction of Diarylethene Derivatives (Osaka Univ. Graduate School of Engineering Science) UMESATO, Toshiyuki; ISHIBASHI, Yukihide; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi; YAMAGUCHI, Tadatsugu; KOBATAKE, Seiya; IRIE, Masahiro
- 1L1-46** Control of Selective Reflection wavelength of Polymer-Dispersed Liquid Crystal Containing Chiral Fulgide (Yokohama National Univ.) MATSUSHIMA, Tomoo; UBUKATA, Takashi; YOKOYAMA, Yasushi

Chair: AOKI, Ken'ichi (16:50~17:50)

* 16:40-16:50: interval for laptop PC connection.(1L1-48, 1L1-49, 1L1-50, 1L1-51, 1L1-52, 1L1-53)

- 1L1-48** Synthesis and photoreactions of 2,3-bisarylindene derivatives (Yokohama National Univ.) MORINAKA, Kaori; UBUKATA, Takashi; YOKOYAMA, Yasushi
- 1L1-49** Photochromism and electrical conductive photoswitching of diarylethenes having carrier transport characteristics (Osaka Kyoiku Univ.) SHOJI, Kentaro; HORI, Kazushige; TOHDA, Yasuo; KUBONO, Koji; YAMAMOTO, Muneyuki; TSUJIOKA, Tsuyoshi; TANI, Keita
- 1L1-50** Photochromic properties of thiophenophan-1-enes (Department of Chemistry and Applied Chemistry, Saga Univ.) TAKESHITA, Michinori; FUKUSHIMA, Yukari; TANAKA, Chinatsu
- 1L1-51** Improvement of sensitivity for visible light of silver halide-dispersed organosilsesquioxane-titania hybrid films for holographic data storage. (Toyohashi Univ. of Technology) SATO, Shizuka; MUTO, Hiroyuki; SAKAI, Mototsugu; MATSUDA, Atsunori
- 1L1-52** Organic-metallic hybrid polymers with photo-sensitive properties (NIMS) HAYASHI, Toshihiro; HIGUCHI, Masayoshi
- 1L1-53** Photomechanical Function of Azobenzene Crystals (Ehime Univ.) OJIMA, Naoko; SASANO, Nao; KOSHIMA, Hideko

Saturday, March 28, AM

Low Dimensional Inorganic/Organic Hybrids

Chair: KAWAMATA, Jun (9:00~9:50)

* 8:50-9:00: interval for laptop PC connection.(2L1-01, 2L1-02, 2L1-03, 2L1-04, 2L1-05)

- 2L1-01** Chiral Sensing by Luminescence from an Ion-exchange Adduct of Clay and Cyclometalated Iridium(III) Complex (Ochanomizu Univ.; Univ. of Tokyo; PRESTO; NIMS) YAMAGISHI, Akihiko; SATO, Hisako; TAMURA, Kenji
- 2L1-02** Photochemical electron transfer behavior of dyed-layered material complexes (Tokyo Metropolitan Univ.) KONNO, Saki; EGAWA, Tsuyoshi; MASUI, Dai; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; TAKAGI, Shinsuke; INOUE, Haruo
- 2L1-03** Attempt to control and to evaluate the spatial distribution of tris(2,2'-bipyridine)ruthenium(II) complex using aluminum containing mesoporous silicas as host materials (Graduate school of creative science and engineering, Waseda Univ.) SOHMIYA, Minoru; OGAWA, Makoto
- 2L1-04** Photochemical deposition of Au and Ag nanoparticles on exfoliated

nanosheets of a layered niobate. (Tokyo Univ. of Agriculture and Technology) KASAI, Toshihiro; NAKATO, Teruyuki

- 2L1-05** The Structures of Clay Mineral Nanosheet Liquid Crystals Observed by Small-Angle Neutron Scattering (Fukuoka Inst. Technol.; JAEA) MIYAMOTO, Nobuyoshi; IJIMA, Hirokazu; YAMAGUCHI, Daisuke

Chair: NAKATO, Teruyuki (10:00~11:00)

- * 9:50-10:00: interval for laptop PC connection.(2L1-07, 2L1-08, 2L1-09, 2L1-10, 2L1-11, 2L1-12)

- 2L1-07** Fabrication of hybrid materials consisting of a clay minerals and organic compounds for wavelength conversion (Faculty of Science, Yamaguchi Univ.) MATSUNAGA, Ryoya; YAMAKI, Hiroshi; SUZUKI, Yasutaka; KAWAMATA, Jun; KOGURE, Toshihiro; SATO, Hisako; YAMAGISHI, Akihiko

- 2L1-08** Significant enhancement of a two-photon absorption coefficient of an organic dye by hybridizing with a clay (Faculty of Science, Yamaguchi Univ.) SUZUKI, Yasutaka; ICHIMARU, Chikako; HIRAKAWA, Shoichiro; KAWAMATA, Jun

- 2L1-09** Covalently attachment of pyrene to silylated layered materials (Univ. of Hyogo) NAKAJIMA, Kazuki; MATSUO, Yoshiaki; SUGIE, Yoshihiro

- 2L1-10** Photophysical properties of dyes covalently attached to silylated layered materials containing perfluoroalkyl groups. (Univ. of Hyogo) NISHIKAWA, Masato; MATSUO, Yoshiaki; SUGIE, Yoshihiro

- 2L1-11** Preparation and Luminescence Property of LDH/Laser-dye/Surfactant Hybrid Solid Materials (Graduate School of Engineering, Nagoya Univ.) MORITA, Michio; SASAI, Ryo

- 2L1-12** Fluorescence resonance energy transfer of coumarin/cyanine integrated systems (NIMS) FUJII, Kazuko; IYI, Nobuo; HASHIZUME, Hideo; SHIMOMURA, Shuichi; ANDO, Toshihiro

Chair: SASAI, Ryo (11:10~12:10)

- * 11:00-11:10: interval for laptop PC connection.(2L1-14, 2L1-16, 2L1-17, 2L1-18, 2L1-19)

- 2L1-14*** Fabrication and electrochemical characterization of semiconductor nano-film by organic-inorganic hybrid Langmuir-Blodgett process. (Shinshu Univ.; SORST/JST) USAMI, Hisanao; KUROKI, Yasutom; SUZUKI, Eiji

- 2L1-16** Molecular arrangement and photoinduced electron transfer of tetra-alkylpyridopyrrophanium and metal oxides hybrid Langmuir-Blodgett film (Shinshu Univ.; SORST/JST) OHNO, Tatsuya; USAMI, Hisanao; SUZUKI, Eiji

- 2L1-17** Adsorption and Removal of Organic Compounds Dissolved in Water Using Mesoporous TiO₂/Surfactant Complexes (Shinshu Univ.) ALBAR DA, Loves; OKADA, Tomohiko; MISIMA, Shozi; SAKAI, Toshio

- 2L1-18** Structure of the dechlorinated poly(vinyl chloride) by using zinc(II) oxide (Shinshu Univ.) OKADA, Tomohiko; SHIMIZU, Takuya; USAMI, Hisanao; MISHIMA, Shozi

- 2L1-19** Sulfonation of low temperature dechlorinated poly(vinyl chloride) obtained by using zinc(II) oxide (Shinshu Univ. Engineering) MORIMOTO, Masaki; OKADA, Tomohiko; USAMI, Hisanao; KOSUDA, Takashi; MISHIMA, Shozi

Saturday, March 28, PM

Biological Function

Chair: TAKEOKA, Shinji (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(2L1-28, 2L1-30, 2L1-31, 2L1-33)

- 2L1-28*** Biomolecule recognition and bio-separation with organic salt-modified iron oxide nanoparticles (Kyoto Univ.; ASTEM) NARITA, Asako; NAKA, Kensuke; KIZAKA-KONDOH, Shinae; HIRAOKA, Masahiro; CHUJO, Yoshiki

- 2L1-30** Preparation of magnet-responsive hybrid capsules formed with Fe₃O₄ nanoparticles and lipid membrane (Nagoya Univ.) IMAI, Yuji; NAKAMURA, Masato; KATAGIRI, Kiyofumi; KOUMOTO, Kunihito

- 2L1-31*†** Synthesis of magnetic nanoparticle/organic hybrid for medical applications (Nagoya Univ.) HAYASHI, Koichiro; MORIYA, Makoto; SAKAMOTO, Wataru; YOGO, Toshinobu

- 2L1-33** Hydroxyapatite Deposition Induced by Synthetic Peptides in Simulated Body Fluids (Tokyo Univ. of Science; Keio Univ.) KAMAYA, Noriaki; HASHIZUME, Mineo; MATSUBARA, Teruhiko; SATO, Toshinori

Chair: KATAGIRI, Kiyofumi (14:40~15:40)

- * 14:30-14:40: interval for laptop PC connection.(2L1-35, 2L1-37, 2L1-39, 2L1-40)

- 2L1-35*#** Tailored Polyethylenedioxythiophene (PEDOT) Surfaces for Biomaterials Science and Engineering (Institute of Bioengineering and Nanotechnology (Singapore); Yu Initiative Research Unit, RIKEN Advanced Science Institute) YU, Hsiao-hua; LUO, Shyhchyang; ZHU, Bo

- 2L1-37*†** Construction of polysaccharide nanosheets integrated for pleural tissue-defect repair of beagle (Dept. of Life Sci. Med. Biosci., Graduate School of Adv. Sci. & Eng., Waseda Univ.) FUJIE, Toshinori; MATSUTANI, Noriyuki; KINOSHITA, Manabu; OKAMURA, Yosuke; TAKEOKA, Shinji

- 2L1-39** Construction of polysaccharide nanosheets with antibiotics and their anti-inflammatory effect (Dept. of Life Sci. Med. Biosci., School of Adv. Sci.

& Eng., Waseda Univ.) SAITO, Akihiro; FUJIE, Toshinori; KINOSHITA, Manabu; TAKEOKA, Shinji

- 2L1-40** Assembly and Evaluation of Immunoliposomes for Targeting Human Breast Cancer Cells (Dept. of Life Sci. Med. Biosci., School of Adv. Sci. & Eng., Waseda Univ.) AMARI, Takuya; SATO, Izumi; KAWA, Seiji; SEMBA, Kentaro; YAMAMOTO, Tadashi; TAKEOKA, Shinji

Chair: NAKA, Kensuke (15:50~17:00)

- * 15:40-15:50: interval for laptop PC connection.(2L1-42, 2L1-44, 2L1-45, 2L1-46, 2L1-48)

- 2L1-42*** Controlled cell behavior by targeted delivery of nanoparticles to functional membrane microdomains of cells (National Cardiovascular Center Research Institute, National Center of Neurology and Psychiatry, Graduate School of Science and Engineering Kagoshima university) NISHIKAWA, Takehiro; IWAKIRI, Norio; KANEKO, Yoshiro; MORONE, Nobuhiro; KADOKAWA, Jun-ichi

- 2L1-44** Fabrication of dodecapeptide-conjugated and ADP-encapsulated liposomes with different membrane flexibilities and their releasing properties of ADP. (Dept. Life Sci. and Med. Bio Sci., Graduate School of Adv. Sci. and Eng., Waseda Univ.) KATSUNO, Shunsuke; OKAMURA, Yosuke; ETO, Kaoruko; HANDA, Makoto; IKEDA, Yasuo; TAKEOKA, Shinji

- 2L1-45** Development of Gene Carrier Responding to Cellular Signals (Applied Chemistry, Faculty of Engineering, Kyushu Univ.,) TOMIYAMA, Tetsuro; TOITA, Riki; KANG, Jeong-hun; NIIDOME, Takuro; KATAYAMA, Yoshiki

- 2L1-46*†** Sugar transport across anion exchange membrane fixed with borate ion (Univ. of Kanagawa) KUROKAWA, Tatsuo; AONUMA, Susumu; IGAWA, Manabu

- 2L1-48** Preparation and characterization of the wood-base functional material (Dept. of applied chemistry college of engineering chubu university) HIBINO, Akira; MIYACHI, Yasutaka; YOSHIDA, Tsuyoshi; MIYAUCHI, Toshiyuki; MORI, Hidehiko

Sunday, March 29, AM

Energy Conversion Function

Chair: USAMI, Hisanao (9:00~10:10)

- * 8:50-9:00: interval for laptop PC connection.(3L1-01, 3L1-03, 3L1-05, 3L1-06, 3L1-07)

- 3L1-01*** Syntheses of oligo(p-phenylenevinylene)s for controlling nanostructure in organic thin film solar cells (The Univ. of Tokyo, JST-ERATO) NISHIZAWA, Takeshi; TAJIMA, Keisuke; HASHIMOTO, Kazuhito

- 3L1-03*** Synthesis of All-conjugated Semi-conducting Diblock Copolymers and The Observation of Their Micro-phase Separation Towards Organic Photovoltaic Device (Univ. of Tokyo, School of Engineering) ZHANG, Yue; TAJIMA, Keisuke; HASHIMOTO, Kazuhito

- 3L1-05** Fabrication and Performance of an Organic Photovoltaic Device Using a Hole-Transporting Amorphous Molecular Material with a High Charge-Carrier Drift Mobility (Faculty of Engineering, Osaka Univ.; Center for Advanced Science and Innovation, Osaka Univ.; Fukui Univ. of Technology) KAGEYAMA, Hiroshi; OHISHI, Hitoshi; TANAKA, Masatake; OHMORI, Yutaka; SHIROTA, Yasuhiko

- 3L1-06** Dinitrogen fixation using titanium oxide/PEDOT junctions - Effect of materials and ambient conditions (Chiba Univ.) ERI, Yoshifumi; MURASHIRO, Katsuyuki; HOSHINO, Katsuyoshi

- 3L1-07#** Application of Transition Metal Phosphides as PEFC anode catalyst (Tokyo Univ. of Agri. and Tech.) SHAMSUL, Izhar; NAGAI, Masatoshi

Electronic, Magnetic, Optical Functions

Chair: TERANISHI, Toshiharu (10:20~11:20)

- * 10:10-10:20: interval for laptop PC connection.(3L1-09, 3L1-13, 3L1-14)

- 3L1-09 CSJ Award for Technical Development** Development and Practical Application of Amorphous Transparent Conductive Material ((R) IZO) (Idemitsu Kosan Co., Ltd.) KAIJYO, Akira; INOUE, Kazuyoshi; OUYAMA, Masashi

- 3L1-13** Synthesis of zinc oxide nanoparticles to dispersed in organic material (KNCT) YOSHIZAKI, Mayuko; OKUYAMA, Tetsuya; YAMASAKI, Yuji; NOTO, Mitsuharu; USUI, Ichiro

- 3L1-14** Photo-Control of Molecule-Induced Magnetism at non-Magnetic Semiconductor Surfaces (Keio Univ.) KAMEYAMA, Naoto; SUDA, Masayuki; EINAGA, Yasuaki

Chair: NAGANO, Shusaku (11:30~12:30)

- * 11:20-11:30: interval for laptop PC connection.(3L1-16, 3L1-17, 3L1-19, 3L1-21)

- 3L1-16** Electrode-less Measurement of Charge Carrier Mobility in Conjugated Molecular Crystals and Polymers (Graduate school of Engineering, Osaka Univ.) HONSHO, Yoshihito; SEKI, Shu; SAEKI, Akinori

- 3L1-17*** Organic Field Effect Transistors Comprised of Phthalocyanine Nanocrystals (NICT-KARC) HASEGAWA, Hiroyuki; UEMATSU, Kouji; OTOMO, Akira

- 3L1-19*** On two-photon absorption properties of singlet diradicaloids and experimental determination of their diradical character (AIST)

KAMADA, Kenji; OHTA, Koji; KONISHI, Akihito; SHIMIZU, Akihiro; HIRAO, Yasukazu; KUBO, Takashi; NAKANO, Masayoshi; KISHI, Ryohei; YONEDA, Kyohei; FUKUI, Hitoshi; NAGAI, Hiroshi; TAKAHASHI, Hideaki

3L1-21 Properties of Optical Waveguide Modes in a Porous Anodic Alumina/Aluminum multilayer film (Tohoku Univ.) HOTTA, Kazuhiro; YAMAGUCHI, Akira; TERAMAE, Norio

Sunday, March 29, PM

Photofunctional System

Chair: UBUKATA, Takashi (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3L1-29, 3L1-30, 3L1-31, 3L1-32, 3L1-33, 3L1-34)
- 3L1-29** Photocontrol of reverse micelle formation and protein extraction triggered by photoisomerization of Malachite Green derivative (Nara National College of Technology; Wakayama Univ. Faculty of Systems Engineering) MORITA, Yoshitsugu; NAOE, Kazumitsu; KIMURA, Keiichi; UDA, Ryoko
- 3L1-30** Application of nitrobenzyl-type photoactive base amplifiers to UV-curing materials (Tokyo Univ. Sci.) KASHINO, Tomomasu; ARIMITSU, Koji
- 3L1-31** Synthesis and Properties of Benzoin-type Photoactive Base Amplifiers (Tokyo Univ. Sci.) NAGAI, Hideaki; ARIMITSU, Koji
- 3L1-32** Characteristics of Photocurable Organic-inorganic Hybrids Utilizing Acid Proliferation Reactions (Tokyo Univ. Sci.) BESAR, Mohd BadrulHaswan; ARIMITSU, Koji
- 3L1-33** Synthesis and Properties of 365 nm Light-sensitive Photobase Generators Based on Photodecarboxylation (Tokyo Univ. Sci.) ENDO, Ryosuke; ARIMITSU, Koji
- 3L1-34** Properties of water-soluble photopolymers utilizing photobase-generating reactions (Tokyo Univ. Sci.) YOSHIDA, Yuichi; ARIMITSU, Koji

Chair: TACHIKAWA, Tatsuya (14 : 50~15 : 40)

- * 14:40-14:50: interval for laptop PC connection.(3L1-36, 3L1-38, 3L1-39, 3L1-40)
- 3L1-36*** Improvement of photosensitivity of UV curable materials by using polyallyl and polythiol dendrimers (Toho Univ. Fac. Sci., Toho Univ. HRC) AOKI, Ken'ichi; MAYUKO, Suzuki; ICHIMURA, Kunihiko
- 3L1-38** Photoembossing of Polymer Films Due to Transfer of Polystyrene Derivatives (Yokohama National Univ.) MORIYA, Yusuke; UBUKATA, Takashi; YOKOYAMA, Yasushi
- 3L1-39** Surface-photofunctionalization and photo-switching of wettability of polymer hydrogel through VUV oxidation-based treatment (Graduate School of Engineering Nagoya Univ.) AOSHIMA, Hozumi; NAGANO, Shusaku; SEKI, Takahiro
- 3L1-40** Preparation and patterning of graft polymer chains to gel surface through VUV treatment (Graduate School of Engineering Nagoya Univ.) IMAI, Kenjiro; AOSHIMA, Hozumi; NAGANO, Shusaku; SEKI, Takahiro

Chair: KIMURA, Keiichi (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(3L1-42, 3L1-44, 3L1-46)
- 3L1-42*** Control of Block Copolymer micelles via Hybridization with Low-Molecular-Weight Amphiphile on water (Graduate School of Engineering Nagoya Univ.) TANIGUCHI, Daisuke; KINUMATSU, Tetsuya; NAGANO, Shusaku; SEKI, Takahiro
- 3L1-44*** Development of Photo-Functional Liquid Crystals Exhibiting the Change of the Photoluminescent Color Induced by External Stimuli (The Univ. of Tokyo) SAGARA, Yoshimitsu; YAMANE, Shogo; KATO, Takashi
- 3L1-46** Color Former Organo-gel for radiation detection (Saitama Univ. ; TMITRI) ITOI, Hiroaki; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya

Chair: ARIMITSU, Koji (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(3L1-48, 3L1-49, 3L1-50, 3L1-51, 3L1-52, 3L1-53)
- 3L1-48** Lower Critical Solution Temperature of the Phenazine-type Color Former (Saitama Univ. ; TMITRI) INAGAKI, Shou; SEKIGUCHI, Masayuki; TACHIKAWA, Tatsuya
- 3L1-49** 2D Microphase Separation of Azobenzene Block Copolymer with Polymethacrylate Block with Long Alkyl Chains. (Graduate School of Engineering Nagoya Univ.) MURASE, Tomoya; NAGANO, Shusaku; SEKI, Takahiro
- 3L1-50** Preparation of oriented LB films of poly(9,9-dioctylfluorene) (PFO) and behavior of β phase in Langmuir film on water surface (Graduate School of Engineering Nagoya Univ.) TODA, Akio; NAGANO, Shusaku; SEKI, Takahiro
- 3L1-51** Fabrication of nanostructure assembly through liquid-crystalline supramolecular block copolymers (Graduate School of Engineering Nagoya Univ.) NISHIMI, Akio; NAGANO, Syusaku; SEKI, Takahiro
- 3L1-52** Modulation of molecular arrangements and photophysical properties of 9,10-bis(4-aminophenylethynyl)anthracene inclusion crystal depending on guest molecules (Graduate School of Engineering, Osaka Univ.) TOHANI, Norimitsu; TAMUGI, Akihiro; HISAKI, Ichiro; MIYATA, Mikiji
- 3L1-53** Design and Synthesis of Branched Perfluoroalkyl Compounds towards

Low Refractive Index Materials (The Institute of Scientific and Industrial Research, Osaka Univ., Chemical R&D Center Daikin Industries, LTD.) IE, Yutaka; TANAKA, Yoshito; NAGAI, Takabumi; ASO, Yoshio

Room L2

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Applications of Materials

Saturday, March 28, AM

Solar cell

Chair: NAKASHIMA, Naotoshi (9 : 10 ~10 : 10)

- * 9:00-9:10: interval for laptop PC connection.(2L2-02, 2L2-03, 2L2-04, 2L2-05, 2L2-06, 2L2-07)
- 2L2-02** Fabrication of TiO₂-PDMS composite materials and rapid conversion of wettability to superhydrophilic (KAST, Tokyo Univ. of Science) NAKATA, Kazuya; UDAGAWA, Keizo; OCHIAI, Tsuyoshi; MURAKAMI, Taketoshi; FUJISHIMA, Akira
- 2L2-03** Development of highly fire-retarded poly(ethylene terephthalate)-based nonwovens using sodium polyborate (Kanazawa Institute of Technology) MIURA, Yuichiro; HORI, Yukari; TSUYUMOTO, Isao
- 2L2-04** Influence of doping dyes in bulk heterojunction solar cells on power conversion efficiency of P3HT/PCBM (Graduate School of Engineering, Osaka Pref. Univ.) TSUJISAWA, Takuya; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki; NAKAYAMA, Yoshinori; KUWAMURA, Katsuji; UCHIDA, Makiko; SORANAKA, Kazuyuki
- 2L2-05** Development of Squarylium Dyes to Improve Performance of Dye-Sensitized Solar Cells. (Graduate School of Engineering, Osaka Pref. Univ.) SHIMA, Naoki; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki
- 2L2-06** Development of Phthalocyanine Dyes for Dye-Sensitized Solar Cell Applications (Graduate School of Engineering, Osaka Pref. Univ.) ICHINOSE, Hirokazu; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki; HASE, Tomoyuki; TAKATA, Atsushi; MINE, Machiko; IINUMA, Yoshiharu
- 2L2-07** Synthesis of Novel Pyridinium-type Near-Infrared Dyes and Their Application to Dye-sensitized Solar Cells (Hiroshima Univ.) OYAMA, Yusuke; ASADA, Risa; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka

Chair: NAKAZUMI, Hiroyuki (10 : 20~11 : 20)

- * 10:10-10:20: interval for laptop PC connection.(2L2-09, 2L2-10, 2L2-11, 2L2-13)
- 2L2-09** Dye-Sensitized Solar Cell using TEMPO Derivatives as Redox Mediator (Dept. Appl. Chem., Waseda Univ.) MURAKAMI, Takaya; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2L2-10** Characteristics of Dye Sensitized Solar Cell Using Nitroxide Radicals. (Dept. Appl. Chem., Waseda Univ.) KONDO, Yuki; TAKAHASHI, Akira; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2L2-11*** Development of electrocatalyst for fuel cell based on Carbon nanotube/Polybenzimidazole composite (Kyushu Univ.) FUJIGAYA, Tsuyohiko; OKAMOTO, Minoru; NAKASHIMA, Naotoshi
- 2L2-13**** Synthesis and properties of proton conducting inorganic-organic hybrid membranes containing phosphonic acid groups (Nagoya Univ.) UMEDA, Junji; MORIYA, Makoto; SAKAMOTO, Wataru; YOGO, Toshinobu

Chair: ARAKAWA, Hironori (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(2L2-16, 2L2-18, 2L2-20, 2L2-21)
- 2L2-16*** Applicability of Alkoxyalkyl Groups as Anchor Moiety of Sensitizing Dye for Dye-sensitized Solar Cell (Graduate School of Engineering, Gunma Univ.) KAKIAGE, Kenji; YAMAMURA, Masaki; UNNO, Masafumi; KYOMEN, Toru; HANAYA, Minoru
- 2L2-18*** Hybridization of Zirconia Nanoparticles and Organic Polymers by Utilizing Hydrogen Bonding Interactions (Sumitomo Osaka Cement Co.Ltd; Kyoto Univ.) OTSUKA, Takeshi; CHUJO, Yoshiki
- 2L2-20** Photovoltaic performances of TCO-less dye-sensitized solar cells with floating stainless mesh- Relationship between cell area and photovoltaic performance (Kyushu institute of technology; Nippon Steel Chemical Co., Ltd) FUJITA, Yoshihisa; UZAKI, Kenshirou; YOSHISDA, Yorikazu; KOUNO, Mitsuru; YAMAGUCHI, Yoshihiro; HAYASE, Shuzi
- 2L2-21** Study on highly efficient dye sensitized solar cells. Correlation of solar cell performance with chain lengths, electron behaviors in titania, and dye-dipoles. (Graduate School of Life Science and Systems Engineering, Kyushu institute of Technology) YOKOYAMA, Tatsuya; INOUE, Takafumi; PANDEY, Shyam S; SAKAGUCHI, Shohhei; YAMAGUCHI, Yoshihiro; HAYASE, Shuzi

Saturday, March 28, PM

Sensor

Chair: HOSHINO, Katsuyoshi (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(2L2-29, 2L2-30, 2L2-31, 2L2-32, 2L2-33, 2L2-34)

2L2-29 Gas sensing ability of molecular recognition films containing capsular compounds (Shinshu Univ. Faculty of Textile & Technology Department of Functional Polymer Science) YOKOKAWA, Mei; FUKAWA, Tadashi; KIMURA, Mutsumi; SHIRAI, Hirofusa; MIHARA, Takashi

2L2-30 Enhancement of Gas Adsorption onto Mesoporous Metal-Oxides Surface (Shinshu Univ.) SAKAI, Ryouosuke; HUKAWA, Tadashi; KIMURA, Mutsumi; SIRAI, Hirofusa; MIHARA, Takashi

Environmental material

2L2-31 VOC removal effect by composite of porous concrete and the visible light driven photocatalyst (Mie Pref. IRI) MASUYAMA, Kazuaki; MAEGAWA, Akihiro; KANECO, Satoshi; KATSUMATA, Hideyuki; SUZUKI, Tohru; OHTA, Kiyohisa

2L2-32 Quantitative Evaluation of Reduction of Adsorption Ability of Coconut Shell Activated Carbon by Gradual Moisture Content (National Institute of Occupational Safety and Health, Japan) ABIKO, Hironobu; FURUSE, Mitsuya; TAKANO, Tsuguo

2L2-33 Preparation and application of deaerated water (Tokyo National College of Technology) KATSUMURA, Motomi; SEKIDO, Kota; KITAORI, Noriyuki; KANAI, Takehiro; INABA, Kunio

2L2-34 Electrolysis of hydrogen peroxide and its bleaching effect (Tokyo National College of Technology) MATSUIISHI, Saya; SEKIDO, Kota; KITAORI, Noriyuki

Nano-particle

Chair: ITOH, Yoshihiro (14 : 50~15 : 50)

* 14:40-14:50: interval for laptop PC connection.(2L2-36, 2L2-37, 2L2-38, 2L2-39, 2L2-40, 2L2-41)

2L2-36 Interaction of Organic Dyes with Cross-linked Fluoroalkyl End-capped Oligomeric Nanocomposites and Photodegradation of Organic Dyes in These Composites (Hirosaki Univ.) GOTO, Yuki; SAWADA, Hideo

2L2-37 Preparation and Applications of Fluoroalkyl End-capped Oligomers/Binaphthol/Silica Nanocomposites (Hirosaki Univ.; Nippon Chemical Industrial Co., Ltd.) MATSUKI, Yusuke; GOTO, Yuki; MUGISAWA, Masaki; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

2L2-38 Surface Modification of Glass by the Use of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomeric Nanoparticles (Hirosaki Univ.; Ishihara Chemical Co., Ltd.) SUZUKI, Toshihiro; TAKASHIMA, Hiroki; TAKISHITA, Katsuhisa; SAWADA, Hideo

2L2-39 Application of Novel Fluorinated Oligomer/Ionic Liquids Nanocomposites to the Surface Modifier (Hirosaki Univ.; Nissan Motor Co., Ltd.) OKADA, Yoshitaka; FUKUI, Takayuki; SHIBUKAWA, Toshiya; SAWADA, Hideo

2L2-40 Preparation and Application of Novel Cross-linked Fluoroalkyl End-capped Cooligomeric Nanocomposites-Encapsulated Magnetite Nanoparticles (Hirosaki Univ.; Nippon Chemical Industrial Co., Ltd.) KIJIMA, Tetsushi; MUGISAWA, Masaki; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

2L2-41 Surface Modification of Glass with Novel Fluoroalkyl End-capped Acrylic Acid Oligomer/Titanium Oxide Nanocomposites (Faculty of Education, Hirosaki Univ.; Graduate School of Science and Technology, Hirosaki Univ.; INAX) SAWADA, Eri; KARIYA, Takuro; MUGISAWA, Masaki; KAKEHI, Hiroshi; MIURA, Masashi; ISU, Norifumi; SATOH, Yusuke; CYOUNAN, Yukiyasu; SAWADA, Hideo

Nano-particle

Chair: NAKATA, Kazuya (16 : 00~17 : 00)

* 15:50-16:00: interval for laptop PC connection.(2L2-43, 2L2-44, 2L2-45, 2L2-47, 2L2-48)

2L2-43 Preparation of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Zinc Oxide Nanocomposites and Their Application to the Surface Modification (Hirosaki Univ.; Taiyou Yuden) HIRAYAMA, Yutarou; SASAZAWA, Kazuo; SAWADA, Hideo

2L2-44 Preparation and Thermal Stability of Perfluoro-1,3-propanedisulfonic Acid/Silica Nanocomposites (Hirosaki Univ.; JEMCO Inc.) LIU, Xinlai; TASHIMA, Tsukasa; OMORI, Kota; HONDA, Tsunetoshi; YATSUYANAGI, Hiroyuki; SAWADA, Hideo

2L2-45* Preparation of Fluorinated Oligomer/Silica Nanocomposites Possessing No Weight Loss Characteristic at 800 ° C (HIROSAKI Univ.; INAX Corporation) KAKEHI, Hiroshi; TASHIMA, Tsukasa; MIURA, Masashi; ISU, Norifumi; SATOU, Yuusuke; SAWADA, Hideo

2L2-47 A New Surface Treatment Method with Polymer Latexes Containing Hydrolysable Emulsifiers (Shinshu Univ.) SAHARA, Fumiya; AKASAKA, Ryo; ITOH, Yoshihiro

2L2-48 Selective Solvent Extraction with Alkali-Hydrolysable Surfactants: Selectivity of Substrates (Shinshu Univ.) ITOH, Yoshihiro; UEMURA, Yuichi

Sunday, March 29, AM

Biomaterial

Chair: SAWADA, Hideo (9 : 00 ~ 10 : 10)

* 8:50-9:00: interval for laptop PC connection.(3L2-01, 3L2-04, 3L2-05, 3L2-07)

3L2-01 CSJ Award for Young Chemists in Technical Development Development of Highly Sensitive Protein Analysis Chip Technologies (Toray Industries, Inc.) KOBAYASHI, Michimoto; ISHII, Kentaro; KAWAKAMI, Kazumi

3L2-04 Development of a cell chip device 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

3L2-05* Micro-patterned surface promotes proliferation of rat bone marrow mesenchymal stem cells. (Univ. of Hokkaido ;Univ. of Tohoku ;Univ. of Sapporo medical;JST.CREST) MORITA , Yuka; YAMAMOTO, Sadaaki; YABU, Hiroshi; IJIRO, Kuniharu; HONMOU, Osamu; SHIMOMURA, Masatsugu

3L2-07 Effects of platinum nanocolloid on epidermal hyaluronan synthesis and degradation. (R&D Division, Pias Corporation; Department of Bioengineering, Tokyo Institute of Technology) KITAMURA, Keiko; ZAIKI, Kaori; NAKAOJI, Koichi; HAMADA, Kazuhiko; OKURA, Ichiro

EL material

Chair: HIGUCHI, Masayoshi (10 : 20~11 : 10)

* 10:10-10:20: interval for laptop PC connection.(3L2-09, 3L2-10, 3L2-11, 3L2-12, 3L2-13)

3L2-09 Preparation and Luminescent Properties of Organoboron Dye-Containing Polymer/Silica Hybrid Materials (Graduate School of Engineering, Kyoto Univ.; Matsumoto Yushi-Seiyaku Co., Ltd.) KAJIWARA, Yuichi; NAGAI, Atsushi; CHUJO, Yoshiki

3L2-10 Properties of clear-black imaging EC device based on Bi electrodeposit (Faculty of Engineering, Chiba Univ.) ARAKI, Shingo; IMAMURA, Airi; KON, Toshiki; KOBAYASHI, Norihisa

3L2-11 Effect of additives on the switching property of organic EC cell (Faculty of Engineering, Chiba Univ.) IMAIZUMI, Kinji; TANAKA, Satomi; WATANABE, Yuichi; KOBAYASHI, Norihisa

3L2-12 Novel electrochromic property of viologen in the presence of bromide ion (Chiba Univ; Chisso Petrochem Co.) OIKAWA, Yosuke; SAKABE, Ichiro; KOMATSU, Toshiki; HOSHINO, Katsuyoshi

3L2-13 Emission characteristics of electrogenerated chemiluminescence (ECL) devices with ruthenium complex (the faculty of engineering in Chiba Univ.) NOBESHIMA, Taiki; SON, Reina; MATSUMOTO, Kazuki; KOBAYASHI, Norihisa

Chair: TAKAHASHI, Masahiro (11 : 20~12 : 30)

* 11:10-11:20: interval for laptop PC connection.(3L2-15, 3L2-16, 3L2-18, 3L2-19, 3L2-20, 3L2-21)

3L2-15 Redox behavior of viologens mono-molecularly incorporated in DNA films (Tokyo Univ. of Agri. and Tech.) KURIHARA, Ryo; KAKIBE, Takeshi; OHNO, Hiroyuki

3L2-16* Electrochromic property of Organic-Metallic hybrid polymers (NIMS) AKASAKA, Yumeno; HIGUCHI, Masayoshi; KURTH, Dirk

3L2-18 Synthesis and Optical Properties of a Novel Red-phosphorescent Iridium(III) Complex bearing a 1-(Dibenzofuran-4-yl)isoquinolinato Ancillary Ligand (Osaka Pref. Univ.; Tech. Research Institute of Osaka Pref.) YAGI, Shigeyuki; ASUKA, Hotaka; TSUJIMOTO, Hidetaka; INUI, Yuji; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki

3L2-19 Electroluminescent Properties of a Novel Red- phosphorescent Iridium (III) Complex bearing a 1-(Dibenzofuran-4-yl)isoquinolinato Ancillary Ligand (Osaka Prefecture Univ.; Technology Research Institute of Osaka Pref.) TSUJIMOTO, Hidetaka; ASUKA, Hotaka; INUI, Yuji; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki

3L2-20 Photophysical Properties and Photostability of Heteropolycyclic Oxazole-type Fluorescent Dyes in Polymer Films (Kochi Univ.; JST Innovation Satellite Kochi) SAKAMOTO, Takehiro; EGAWA, Haruka; IDE, Takashi; YOSHIDA, Katuhira

3L2-21 Photophysical Properties and Photostability of Heteropolycyclic Phenazine-type Fluorophores in Polymer Films (JST Innovation Satellite Kochi; Kochi Univ.) EGAWA, Haruka; IDE, Takashi; SAKAMOTO, Takehiro; YOSHIDA, Katsuhira

Sunday, March 29, PM

Fuel cell

Chair: YAMAMOTO, Kimihisa (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(3L2-29, 3L2-30, 3L2-31,

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Material Chemistry

Friday, March 27, AM

Polymer

Chair: SAWAGUCHI, Takashi (10:30~11:00)

* 10:20-10:30: interval for laptop PC connection.(1L3-10)

1L3-10 CSJ Award for Young Chemists in Technical Development Creation and Application of Polyethylene/Polar Polymer Hybrid Materials (Mitsui Chemicals, Inc.) NAKATSUKA, Shiro; ISOKAWA, Motoaki; NAKAI, Kazuoki

Chair: NAKATSUKA, Shiro (11:10~11:50)

* 11:00-11:10: interval for laptop PC connection.(1L3-14, 1L3-15, 1L3-16, 1L3-17)

1L3-14 A Molecular Weight Dependence of Dispersion-Flocculation Transition in Transparent PMMA/SiO₂ Hybrid Film (College of Science and Technology, Nihon Univ.) OMURO, Yasunori; SAKURAI, Atushi; SHIMAMOTO, Hibiki; MARUNO, Shinpei; SAWAGUCHI, Takashi; HOSHI, Toru; HAGIWARA, Toshiaki; YANO, Shoichiro

1L3-15 Template Synthesis of Porous Polypyrrole in 3D Coordination Nanochannels (Kyoto Univ.) KADOWAKI, Yu; YANAI, Nobuhiro; UEMURA, Takashi; KITAGAWA, Susumu

1L3-16 Synthesis and Properties of Polymers Containing Fullerene in the Main Chain (Tokyo Univ. of Science, Faculty of Science and Technology) TANI, Ryotaro; KAJIWARA, Takashi; ABE, Yoshimoto; GUNJI, Takahiro

1L3-17 Depolymerization of Chondroitin Sulfate under Hydrothermal Treatment. (Tottori Univ.; Koyo Chemical Co., Ltd.) MORI, Daiki; HAYASHI, Tetsuya; SATO, Kimihiko; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

Friday, March 27, PM

Inorganic Materials

Chair: IDE, Yusuke (14:30~15:30)

* 14:20-14:30: interval for laptop PC connection.(1L3-34, 1L3-35, 1L3-36, 1L3-38, 1L3-39)

1L3-34 Preparation of single crystalline Pt nanowires on a substrate utilizing lyotropic liquid crystals consisting of cationic surfactants (Waseda Univ., Faculty of Science and Engineering) TAKAI, Azusa; YAMAUCHI, Yusuke; KURODA, Kazuyuki

1L3-35 Preparation of metal nanowires by vapor infiltration of a reducing agent using mesoporous silica as templates (Waseda Univ., Faculty of Science and Engineering) DOI, Yoji; TAKAI, Azusa; YAMAUCHI, Yusuke; KURODA, Kazuyuki

1L3-36* Preparation of Composites Composed of Imogolite Nanotube and Macroanions by Utilizing Electrostatic Interactions (Waseda Univ.) KURODA, Yoshiyuki; FUKUMOTO, Kohta; OGAWA, Takashi; KURODA, Kazuyuki

1L3-38 Preparation of an inorganic-organic hybrid by co-hydrolysis and polycondensation of a porphyrin derivative possessing triethoxysilyl groups and tetraethoxysilane (Faculty of Science and Engineering, Waseda Univ.) HOSHI, Rieko; OHMARU, Takuji; TSUCHIYA, Ayako; NASU, Shintaro; KURODA, Kazuyuki

1L3-39 Synthesis of CaCO₃-CaSO₄ composite nanotube (2)Effect of surfactants (Oita university) TANIDA, Saki; SUGIHARA, Hisao; NISHIGUCHI, Hiroyasu; NAGAOKA, Katsutoshi; TAKITA, Yusaku

Chair: SATO, Norifusa (15:40~16:40)

* 15:30-15:40: interval for laptop PC connection.(1L3-41, 1L3-42, 1L3-44, 1L3-46)

1L3-41 Synthesis of TiO₂ Nanograsses with Anatase-Rutile Nanojunction System and their Function (Kyushu Univ.; Kawamura Institute of Chemical Research; JST CREST) SOEJIMA, Tetsuro; JIN, Ren-hua; KIMIZUKA, Nobuo

1L3-42* Continuous Synthesis of Zeolites by Microwave Irradiation (Inds. Tech. Center Tochigi; IDX Co. :AIST; Ryukoku Univ.) KANEDA, Takeshi; MATSUMOTO, Taiji; SATO, Yasuo; YASUDA, Masahiro; SUGIYAMA, Jun-ichi; GOTO, Yoshiaki

1L3-44* Characteristics of Hollow Microtubes Consisting of Amorphous Iron Oxide Nanoparticles Formed by Iron Oxidizing Bacteria *Leptothrix Ochracea* -The second report- (Okayama Univ) HASIMOTO, Hideki; ASAOKA, Hiroshi; KUSANO, Yoshihiro; TAKADA, Jun; HUIJI, Tatu; NAKANISHI, Makoto; IKEDA, Yasunori; SENOO, Masaharu

1L3-46 Synthesis and Morphology Control of Titania by Layer-by-Layer Assembly (Nagoya Univ.) INAMI, Hitoshi; KATAGIRI, Kiyofumi;

3L2-32, 3L2-33, 3L2-34)

3L2-29 Synthesis and characterization of new electrolyte based on proton conductive liquid crystalline polymer (Yamanashi Univ.; Toppan printing Co., LTD) HARAMOTO, Yuichirou; OOTA, Masashi

3L2-30 Performance of direct ethanol fuel cell using Sb doped tin oxide/Pt/Ru/C composite for Anode electrode (Graduate School of Life Science and Systems Engineering, Kyushu institute of Technology) ANAI, Minoru; HARA, Yoshitaka; MURABAYASHI, Masanao; KOUGO, Takeshi; HAYASE, Shuzi

3L2-31 Preparation and characterization of phosphonated polyphenylene / sulfonated polyphenylene composite electrolyte membranes (Department of Materials and Life Sciences, Sophia Univ.) KAMIYA, Miho; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

3L2-32 Synthesis and characterization of poly(benzimidazole) as novel polymer electrolyte membranes (Department of Materials and Life Sciences, Sophia Univ.) SUNAMI, Kosuke; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

3L2-33 Hydrogen bond network and proton conductivity of mechanochemically milled heteropoly acid-cesium hydrogen sulfate composites (Matsuda lab.; Toyohashi Univ. of Technology) KAWAI, Keisuke; DAIKO, Yusuke; MUTO, Hiroyuki; SAKAI, Mototsugu; MATSUDA, Atsunori

3L2-34 Polymer electrolyte fuel cell cathode using oxide conducting support (Kyushu Univ.) HARADA, Hiroki; MATSUMOTO, Hiroshige; ISHIHARA, Tastumi

Chair: RIKUKAWA, Masahiro (14:50~15:40)

* 14:40-14:50: interval for laptop PC connection.(3L2-36, 3L2-37, 3L2-38, 3L2-40)

3L2-36 Temperature and humidity dependence of diffusion of water contained in polymer electrolyte membranes (FC-Cubic, AIST) KIDENA, Koh; OHKUBO, Takahiro; TAKIMOTO, Naohiko; OHIRA, Akihiro

3L2-37 Precise Synthesis of Sub-nano Pt Particle and Application for Oxygen Reduction Catalyst (Keio Univ. ICU) TAKENAGA, Masahiro; IMAOKA, Takane; CHUN, Wang-jae; YAMAMOTO, Kimihisa

3L2-38* Noble metal free anode catalyst for direct ethanol fuel cell (Kyushu Univ., Asahi Kasei) YANG, Lifeng; YAMADA, Teipei; KITAGAWA, Hiroshi; KINOSHITA, Shozo

3L2-40 Electrochemical and thermal stability of low barrier ionic conductive polymer electrolytes having pyrimidyl analogs as side chain (Graduate School of Science, Osaka Univ.) ISHIBASHI, Takuya; OKAMURA, Taka-aki; YAMAMOTO, Hitoshi

Luminescent material

Chair: YOSHIDA, Katsuhira (15:50~16:20)

* 15:40-15:50: interval for laptop PC connection.(3L2-42, 3L2-43, 3L2-44)

3L2-42 Synthesis and fluorescence spectrum of 6-Pyridylvinyl-4,7-diphenyl-1,2,5-thiadiazolo-[3,4-c]pyridine's (Ube National College of Technology) ISHII, Ai; KAKINAMI, Takaaki; ISOBE, Shintirou

3L2-43 Synthesis and characterization of near-infrared bis-squarylium dyes bounding as noncovalent labeling fluorescent probes to HSA. (Graduate School of Engineering, Osaka Pref. Univ.) IEHARA, Keite; MATUO, Takashi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

3L2-44 Squarylium dyes exhibiting two-photon absorption properties (Graduate School of Engineering, Osaka Pref. Univ.) HAMAMURA, Yuuto; NAKAZUMI, Hiroyuki; MATSUYAMA, Tetsuya; WADA, Kenji; HORINAKA, Hiromichi

Luminescent material

Chair: SONODA, Yoriko (16:30~17:20)

* 16:20-16:30: interval for laptop PC connection.(3L2-46, 3L2-47, 3L2-48, 3L2-49, 3L2-50)

3L2-46 Solid-state Fluorescence Intensity of Styryl Dyes (Gifu Univ.) OOIWA, Koutarou; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui

3L2-47 Solid-state Fluorescence Intensity of Perfluorophenazines (Gifu Univ.) IKEDA, Rie; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui

3L2-48 Application of Indoline Dyes Having Different Anchor Group to Zinc Oxide Dye-sensitized Solar Cell (Gifu Univ.) ASAMURA, Yoshinori; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui; JIN, Ji-ye; YOSHIDA, Tsukasa; MIURA, Hidetoshi

3L2-49 Crystal Structures and Solid-state Photophysical Properties of Novel Azo-hydrazone-type Fluorescent Dyes (Kochi Univ.; JST Innovation Satellite Kochi) NAKAGAWA, Ayu; EGAWA, Haruka; SAKAMOTO, Takehiro; YOSHIDA, Katsuhira

3L2-50 Heteropolycyclic Phenazine-type Fluorescent Dyes: Molecular Design, Synthesis, and Photophysical Properties of the Related Compounds (1). (Kochi Univ.) TANAKA, Masakazu; HINO, Toshihiko; ONO, Ayumi; YOSHIDA, Katsuhira

KOUMOTO, Kunihito

Chair: KOUMOTO, Kunihito (16 : 50~18 : 00)

- * 16:40-16:50: interval for laptop PC connection.(1L3-48, 1L3-50, 1L3-51, 1L3-52, 1L3-53, 1L3-54)
- 1L3-48*** Quantum Size TiO₂ templated with a Dendrimer (Keio Univ.) SATOH, Norifusa; YAMAMOTO, Kimihisa
- 1L3-50** Size controlled syntheses of titanium dioxide-octadecylamine hybrid spherical particles. (Waseda Univ.; Graduate School of Creative Science and Engineering) SHIBA, Kota; OGAWA, Makoto
- 1L3-51** Gold Nanoparticles-Immobilized Layered Titanate as aMolecular Selective Photocatalyst (Department of Earth Sciences, Waseda Univ.) IDE, Yusuke; OGAWA, Makoto
- 1L3-52** Synthesis and magnetic property of iron oxide/silica composite thin filmsprepared by RF sputter deposition. (Graduate School of Engineering, Hokkaido Univ.) SATO, Yoshihiro; MASUBUCHI, Yuji; MOTOHASHI, Teruki; KIKKAWA, Shinichi
- 1L3-53** Incorporation of pressure-sensitive dye in mesoporous silica (School of Engineering, Tokyo Institute of Technology) TAMURA, Shinichi; MOCHIZUKI, Dai; MITSUO, Kazunori; WADA, Yuji
- 1L3-54** Electrochemical protection of delayed fracture (NTT E&E Labs.) SAITO, Hiroyuki

Saturday, March 28, AM

Fine-particle

Chair: MORIYA, Makoto (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2L3-01, 2L3-03, 2L3-05)
- 2L3-01*** Effects of cations and anions on the preparation of Au nanoparticle by sputter deposition onto ionic liquids (Chiba Univ., Graduate School of Science and Technology) HATAKEYAMA, Yoshikiyo; TAKAHASHI, Satoshi; NISHIKAWA, Keiko
- 2L3-03*** Preparation of naked silver nanoparticles and in-situ observation at high temperature (Univ. Tokyo, Ecotopic inst. Nagoya Univ., Nagoya Univ., Hitachi Hightechnologies) YONEZAWA, Tetsu; ARAI, Shigeo; TAKEUCHI, Hironori; KAMINO, Takeo; KURODA, Kotaro
- 2L3-05*** Ionic conductivity and Phase transition behaviour of AgI nanoparticles (Kyushu Univ.) MAKIURA, Rie; YONEMURA, Takayuki; IKEDA, Ryuichi; KITAGAWA, Hiroshi

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

- * 10:00-10:10: interval for laptop PC connection.(2L3-08, 2L3-10, 2L3-12, 2L3-13)
- 2L3-08*** Molecular Design of Photo-magnetic Effects at Au-S Interfaces (KEIO Univ.; Spring-8/JASRI) SUDA, Masayuki; KAMEYAMA, Naoto; IKEGAMI, Aya; SUZUKI, Motohiro; KAWAMURA, Naomi; EINAGA, Yasuaki
- 2L3-10*†** Effects of surface plasmon resonance of gold nanoparticle films on the optical properties of a dye molecule (Kyushu Univ.) SUGAWA, Kosuke; KAWAHARA, Tomoaki; AKIYAMA, Tsuyoshi; KOBAYASHI, Motoyasu; TAKAHARA, Atsushi; YAMADA, Sunao
- 2L3-12** Preparation of Ag and Au nanoparticles and their application for SPR sensors (O.I.T) YODOYA, Chihiro; TANAHASHI, Ichiro
- 2L3-13** Water dispersible gold colloids stabilized by novel ligands (Univ. Tokyo, Miyoshi Fat Co.) YONEZAWA, Tetsu; KAWAI, Koji; NISHIHARA, Hiroshi

Chair: AKIYAMA, Tsuyoshi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2L3-15, 2L3-16, 2L3-17, 2L3-19, 2L3-20)
- 2L3-15** Preparation of platinum nanoparticles using linear polyethyleneimine as a stabilizer by liquid-phase reduction method and their properties (Tokyo Univ. of Science, Faculty of Science and Technology) IMAI, Takanori; KAJIWARA, Takashi; ABE, Yoshimoto; GUNJI, Takahiro
- 2L3-16** Preparation of colloidal mesostructured silica nanoparticles (Waseda Univ.) URATA, Chihiro; YAMAUCHI, Yusuke; AOYAMA, Yuku; TONEGAWA, Akihisa; KURODA, Kazuyuki
- 2L3-17*** Syntheses of zinc oxide nanoplates and their self-assembly into hollow sphere from layered zinc compound (Nagoya Univ.) MORIYA, Makoto; YOSHIKAWA, Kyohei; SAKAMOTO, Wataru; YOGO, Toshinobu
- 2L3-19** Photoluminescent intensities of silicon nanocrystals prepared by pulsed laser ablation in organic solvents and water (Tokyo Univ. of Technology : Minoura Laboratory) ARIMA, Tatsuhiro; MINOURA, Norihiko; SASAKI, Takeshi; KOSHIZAKI, Naoto
- 2L3-20** Ferromagnetism Appearing at Heterojunction Interfaces between Non-magnetic Semiconductors (KEIO Univ.) YAZAKI, Yuka; SUDA, Masayuki; KAMEYAMA, Naoto; EINAGA, Yasuaki

Saturday, March 28, PM

Chair: TANAKA, Kazuo (13 : 30~14 : 10)

- * 13:20-13:30: interval for laptop PC connection.(2L3-28, 2L3-29, 2L3-30, 2L3-31)
- 2L3-28** Synthesis of quantum size iron oxide by using dendrimer templates.

(Keio Univ.) WATANABE, Yuki; SATOH, Norifusa; YAMAMOTO, Kimihisa

- 2L3-29** Electrochemical capacitor behaviors of our original cobalt nanowires (Chiba Univ.; Chisso Co.) ASANO, Yosuke; MURASHIRO, Katsuyuki; HOSHINO, Katsuyoshi
- 2L3-30** Preparation of polypyrrole-coated Co nanowires and their application to electrochemical capacitors (Chiba Univ.; Chisso Co.) SHIRAIISHI, Masahide; MURASHIRO, Katsuyuki; HOSHINO, Katsuyoshi
- 2L3-31** Photoinduced control of magnetic property with nano particles composed of the prussian blue and titanium oxide (Univ. of Keio, department of science and engineering) ARAKAWA, Yasuaki; HANAJIMA, Tarou; EINAGA, Yasuaki

Organic Hybrid Materials

Chair: SATO, Norifusa (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2L3-33, 2L3-34, 2L3-35, 2L3-37, 2L3-38)
- 2L3-33** Effect of the addition of the POSS fillers on thermal properties of polystyrene (Graduate School of Engineering, Kyoto Univ.) ADACHI, Shigehiro; YASUDA, Norihiko; TANAKA, Kazuo; CHUJO, Yoshiki
- 2L3-34** Synthesis and applications of hyperbranched polyhedral oligomeric silsesquioxane polymers (Graduate School of Engineering, Kyoto Univ.) INAFUKU, Kenichi; TANAKA, Kazuo; TYUJO, Yoshiki
- 2L3-35*** Formation of nano-particles with three layers by using modified alkoxy silicones and their effect on improvement of toughness of polyester resins (NEC Corporation ; Nano Electronics Research Laboratories) MORISHITA, Naoki; KAI, Hiroyuki; IJI, Masatoshi
- 2L3-37** Preparation and Structural Analysis of Gold-lustrous Low-molecular Organic Crystals (Tokyo Univ. Sci.) MATSUMOTO, Akiko; KAWAHARAZUKA, Maho; KONDO, Yukishige
- 2L3-38** Nanocrystallization and photoluminescence properties of ammonium anthracene disulfonate (Graduate School of Engineering, Osaka Univ.) HINOUE, Tomoaki; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji

Carbon

Chair: EINAGA, Yasuaki (15 : 30~16 : 10)

- * 15:20-15:30: interval for laptop PC connection.(2L3-40, 2L3-41, 2L3-43)
- 2L3-40** One-step Liquid-phase Synthesis of Highly Aligned Carbon Nanotube Arrays and Characterizations of the Arrays (Tokyo Univ. of Science) YAMAGIWA, Kiyofumi; YAMAGUCHI, Yoshihiro; TAKEUCHI, Tsuneharu; KIKITSU, Tomoka; YAMASHITA, Shunsuke; SAITO, Morihiro; KUWANO, Jun
- 2L3-41*** Self-Organized Carbon Nanotube Conducting Thin Films with Honeycomb Structures (Kyushu Univ.) NAKASHIMA, Naotoshi; FUJIGAYA, Tsuyohiko; WAKAMATSU, Nobuo
- 2L3-43** Preparation and mechanical properties of rubber composites filled with nanohorn (Shinshu Univ.) ISSHIKI, Tetsuya; TERASHIMA, Koshiro; HATTORI, Yoshiyuki; OKINO, Fujio; KANEDA, Kazuo; TAKAHASHI, Hidetaka; YUDASAKA, Masako; IJIMA, Sumio

Chair: NAKASHIMA, Naotoshi (16 : 20~17 : 00)

- * 16:10-16:20: interval for laptop PC connection.(2L3-45, 2L3-46, 2L3-47, 2L3-48)
- 2L3-45** Photochemical modification of diamond powder with sulfur functionalities and their surface-attachment behavior on gold surfaces (Natl. Inst. of AIST; Kyushu Inst. of Technol.) NAKAMURA, Takako; OHANA, Tsuguyori; KUMAGAI, Toshiya; HAGIWARA, Yuta; TSUBOTA, Toshiaki
- 2L3-46** Preparation of transparent carbon thin film electrode from silylated graphite oxide. (Univ. of Hyogo; Shinshu Univ.) IWASA, Kenshiro; MATSUO, Yoshiaki; SUGIE, Yoshihiro; MINESHIGE, Atsushi; USAMI, Hisanao
- 2L3-47** Intercalation of Alkali Metals into Graphite-like Layered Material BC₂N (Osaka Electro-Communication Univ.) KAWAGUCHI, Masayuki; OHNISHI, Katsuya
- 2L3-48** Preparation of KOH activated carbons from coconut shell char and their adsorption properties in aqueous solution (Department of Applied Chemistry and Biotechnology, Faculty of Engineering, Chiba Univ.) SAKAZAKI, Taiga; AIKAWA, Masami; MATIDA, Motoi

Sunday, March 29, AM

Organic Hybrid Materials

Chair: TAJIMA, Yusuke (9 : 00 ~9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(3L3-01, 3L3-02, 3L3-03, 3L3-05)
- 3L3-01** Synthesis and Properties of New Chiral Organic Biradical Liquid Crystal (Kyoto Univ.) SUZUKI, Katsuki; UCHIDA, Yoshiaki; TAMURA, Rui; YAMAUCHI, Jun
- 3L3-02** Development of Tripodal Luminescent Ionic Liquid Crystals (The Univ. of Tokyo) TANABE, Kana; YASUDA, Takuma; KATO, Takashi
- 3L3-03*** Phospholipids with a Thermotropic Liquid-Crystalline Moiety: Toward the Development of Active Membrane (IMRAM, Tohoku Univ.; The

Univ. of Sheffield) KANIE, Kiyoshi; SEKIGUCHI, Junji; ZENG, Xiangbing; UNGAR, Goran; MURAMATSU, Atsushi

3L3-05 Preparation and characterization of photo-responsive Monodispersed Mesoporous Silica Spheres (Tokyo Metropolitan Univ.) YAMAMOTO, Daisuke; NABETANI, Yu; SHIMADA, Tetsuya; YANO, Kazuhisa; INOUE, Haruo

Chair: TAMURA, Rui (10:00~10:40)

* 9:50-10:00: interval for laptop PC connection.(3L3-07, 3L3-08, 3L3-10)

3L3-07 Syntheses and Properties of Acetylene-linked Triporphyrin toward Two-photon Photodynamic Therapy (NAIST) YOSHIDA, Mayuka; OGAWA, Kazuya; KAMADA, Kenji; OHTA, Koji; HIROTA, Shun

3L3-08* Optimum Conditions of Polyaniline-Intercalation into MoO₃ Interlayers for VOC Sensors (National Institute of Advanced Industrial Science and Technology (AIST)) ITOH, Toshio; MATSUBARA, Ichiro; SHIN, Woosuck; IZU, Noriya; NISHIBORI, Maiko

3L3-10 Antibacterial activity of the nano-gel consist of vanadium oxide prepared in ionic liquid phase. (Tokyo Institute of Technology, Kanagawa Institute of Technology) TANIGUCHI, Yuki; MAKIOKA, Yoshikazu; TAKAISHI, Yuta; TAKEMURA, Takeji

Thin Film

Chair: TANIGUCHI, Yuki (10:50~11:40)

* 10:40-10:50: interval for laptop PC connection.(3L3-12, 3L3-13, 3L3-14, 3L3-15, 3L3-16)

3L3-12 Electrochemical preparation of titanium dioxide thin films from aqueous solution of titanium-lactic acid complex (Osaka Mun. Tech. Res. Inst.) CHIGANE, Masaya; SHINAGAWA, Tsutomu

3L3-13 Spontaneous Formation of Densely Packed Monolayer Films of Titania Nanosheet (ISHIHARA SANGYO KAISHA, Ltd.; National Institute for Materials Science) UESUSUKI, Yusuke; IIDA, Masaki; EBINA, Yasuo; SASAKI, Takayoshi

3L3-14 Fabrication of thin films with graded composition profiles by Inductively-coupled-RF-plasma assisted Sputtering using polyimide and silicon dioxide target (Kanazawa Institute of Technology) SAKAMOTO, Munenaki; FURUBAYASHI, Yutaka; OYA, Toshiyuki; KUSANO, Eiji

3L3-15 Morphology of fullerene derivatives film on substrate with low surface energy (RIKEN) MOGI, Mariko; KAWASHIMA, Jun-ichi; NUMATA, Youhei; MATSUURA, Takanori; SAKURAI, Toshihiko; SASAKI, Takeo; TAJIMA, Yusuke

3L3-16 Absorption Spectra of Charge Carriers in TPD and NPD Films Measured by Charge-Modulation Spectroscopy. (Hiroshima Univ.) FUJIKAWA, Youhei; ISHIGURO, Yasushi; OYAMA, Yousuke; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka

Sunday, March 29, PM

Synthesis

Chair: INAGAKI, Shinji (13:00~14:00)

* 12:50-13:00: interval for laptop PC connection.(3L3-25, 3L3-26, 3L3-27, 3L3-28, 3L3-30)

3L3-25 Synthesis of Polyhedral Oligomeric Silsesquioxane Polymer from Octadimethylhydrogensilsesquioxane (Tokyo Univ. of Science, Faculty of Science and Technology.) KANAZAWA, Takuya; KAJIWARA, Takashi; ABE, Yoshimoto; GUNJI, Takahiro

3L3-26 The synthesis of polyhedral octasilsesquioxane polymers which assume dimethylsiloxane a spacer (Tokyo Univ. of Science, Faculty of Science and Technology) TSUCHIHARA, Kouji; KAJIWARA, Takashi; ABE, Yoshimoto; GUNJI, Takahiro

3L3-27 Synthesis of cross-linked siloxane copolymer consisted of polyhedral oligomeric silsesquioxane and their properties (Tokyo Univ. of Science, Faculty of Science and Technology) SHIODA, Takahiro; KAJIWARA, Takashi; ABE, Yoshimoto; GUNJI, Takahiro

3L3-28* Synthesis of Ladder Polysilsesquioxanes by the Hydrolytic Polycondensation of Cyclic Tetramethyltetrasiloxanes (Tokyo Univ. of Science, Faculty of Science and Technology) SEKI, Hiroyasu; KAJIWARA, Takashi; ABE, Yoshimoto; GUNJI, Takahiro

3L3-30 Preparation and properties of functionalized SWCNT and VGCF by the radical addition reaction. (Tokyo Univ. of Science, Faculty of Science and Technology) OGATA, Taiga; KAJIWARA, Takashi; ABE, Yoshimoto; GUNJI, Takahiro

Chair: ENDO, Takeshi (14:10~15:10)

* 14:00-14:10: interval for laptop PC connection.(3L3-32, 3L3-33, 3L3-34, 3L3-35, 3L3-36, 3L3-37)

3L3-32 Direct Alkoxylation of Tetraalkoxysilanes without Hydrolysis (Faculty of Science and Engineering, Waseda Univ.; Kagami Memorial Laboratory for Materials Science and Technology, Waseda Univ.) WAKABAYASHI, Ryutarō; KAWAHARA, Kazufumi; KURODA, Kazuyuki

3L3-33 Construction of a siloxane network using a diphenylethoxysilylated derivative of double-four-ring siloxane (Faculty of Science and Engineering, Waseda Univ.; Kagami Memorial Laboratory for Materials Science and

Technology, Waseda Univ.) TACHIBANA, Hiroki; KAWAHARA, Kazufumi; HAGIWARA, Yoshiaki; KURODA, Kazuyuki

3L3-34 The Utility of Silanol-Free (organo)silica Gel as Reaction Additive toward Cross-Coupling Reactions (Nara National College of Technology; CREST) NAKAGAWA, Hiroki; JORAPUR, Yogesh R.; KAMEI, Toshiyuki; SHIMADA, Toyoshi

3L3-35* The Utility of Meerwein's Reagent in the Sol-Gel Polycondensations of various Metal Alkoxides (Nara National College of Technology; Toyota Central R&D Labs.; CREST) JORAPUR, Yogesh R.; MIZOSHITA, Norihiro; MIZUTANI, Yusuke; NAKAGAWA, Hiroki; TANI, Takao; INAGAKI, Shinji; SHIMADA, Toyoshi

3L3-36 Synthesis and characterization of hybrid films with sulfonyl group by using 3-mercaptopropyltrimethoxysilane (Tokyo Univ. of Science; Faculty of Science and Technology.) SHIGEMATSU, Yasunobu; KAJIWARA, Takashi; ABE, Yoshimoto; GUNJI, Takahiro; FUJITA, Satoru; INAGAKI, Shinji

3L3-37 Synthesis of Mesoporous Porphyrin-Silica Hybrid (Nara National College of Technology; Toyota Central R&D Labs.; CREST) UMEMOTO, Akinari; MAEGAWA, Yoshifumi; MIZOSHITA, Norihiro; KITAZATO, Shingo; KAMEI, Toshiyuki; TANI, Takao; INAGAKI, Shinji; SHIMADA, Toyoshi

Chair: GUNJI, Takahiro (15:20~16:30)

* 15:10-15:20: interval for laptop PC connection.(3L3-39, 3L3-40, 3L3-41, 3L3-42, 3L3-43, 3L3-44, 3L3-45)

3L3-39 Synthesis of mesoporous silica thin film from 100% tris(bipyridine) ruthenium complex (Nara National College of Technology; Toyota Central R&D Labs.; CREST) HASEGAWA, Takeru; MAEGAWA, Yoshihumi; MIZOSHITA, Norihiro; KAMEI, Toshiyuki; TANI, Takao; INAGAKI, Shinji; SHIMADA, Toyoshi

3L3-40 Fabrication of oriented zeolite thin films on porous substrate using dissolution of bulky materials as starting sources (Department of Material and Energy of Science, Graduate School of Environmental Science, Okayama Univ.) KITA, Tomoyuki; NISHIMOTO, Syunsuke; MATSUDA, Motohide; MIYAKE, Michihiro

3L3-41 Characterization of Eu³⁺-doped Ta₂O₅ phosphor particles prepared by sol-gel process (Ritsumeikan Univ.; Inorganic Spectroscopic Chemistry Lab.) WAKAI, Yasutaka; NAKASHITA, Hiroshi; MATSUMOTO, Taichi; SANADA, Tomoe; IKEDA, Shingo; KOJIMA, Kazuo

3L3-42 Hydrothermal synthesis of perovskite LaGa_{0.5}Fe_{0.5}O₃ (Kansai Univ.; Functional Materials lab) DOKO, Masanobu; SANO, Makoto; MIYAKE, Takanori

3L3-43 Novel Synthesis of Silicon Carbide Using Poly[(silylyne)ethynylene] and Poly[(silylene)ethynylene] as Precursors (Graduate School of Engineering, Gunma Univ.; Gunma Univ. Advanced Technology Research Center; Advanced Institute of Materials Science) SHIRAIWA, Hiroyuki; KUBOTA, Masafumi; NEGISHI, Keisuke; KYUSHIN, Soichiro; OKAMURA, Kiyohito; SUZUKI, Kenji

3L3-44 Titania Nanoskeleton: Control of the Ordered Structure (Tokyo Univ. of Sci.; Shinshu Univ.) OHNO, Mitsuru; SAKAI, Toshio; ENDO, Takeshi; TSUCHIYA, Koji; SAKAI, Keniti; SAKAI, Hideki; ABE, Masahiko

3L3-45 Preparation of titania particles with high crystallinity and high specific-surface-area in aqueous media (Tokyo Univ. of Sci. Shinshu Univ.) ISHIZAKA, Junichi; SAKAI, Toshio; TSUTSIYA, Koji; ENDOO, Takeshi; SAKAI, Keniti; SAKAI, Hideki; ABE, Masahiko

Room M1

Bldg.4 442

Catalysts and Catalysis

Friday, March 27, AM

Acid and base catalyst

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

* 8:50-9:00: interval for laptop PC connection.(1M1-01, 1M1-02, 1M1-03, 1M1-05)

1M1-01 Preparation and characterization of carbon solid acid catalyst using naphthalene as a precursor (Kanagawa Academy of Science and Technology) KADONO, Takeshi; KITANO, Masaaki; HAYASHI, Shigenobu; HARA, Michiakazu

1M1-02 Synthesis of carbon-based solid acid catalyst with high surface area using zinc chloride as a chemical activation reagent (KAST) KITANO, Masaaki; KODAMA, Atsushi; KOUSAKA, Tsutomu; NAKAJIMA, Kiyotaka; KATO, Hideki; HAYASHI, Shigenobu; HARA, Michiakazu

1M1-03* Hydrolysis of cellulose by Solid Acid Catalyst under optimal reaction conditions (Kanagawa Academy of Science and Technology) YAMAGUCHI, Daizo; KITANO, Masaaki; SUGANUMA, Masatoshi; NAKAJIMA, Kiyotaka; KATO, Hideki; HARA, Michiakazu

1M1-05 Production of 5-methylhydrofurfural over hydrated niobic acid

(Materials and Structures Lab., Tokyo inst. of Tech.) YAMASHITA, Shinya; NAKAJIMA, Kiyotaka; KATO, Hideki; HARA, Michikazu

Acid and base catalyst

Chair: HARA, Michikazu (10 : 00~10 : 40)

- * 9:50-10:00: interval for laptop PC connection.(1M1-07, 1M1-08, 1M1-09, 1M1-10)
- 1M1-07[†]** Synthesis and solid acid properties of mesoporous NbW and TaW oxides (The Univ. of Tokyo Department of Chemical System Engineering Domen and Kubota laboratory) TAGUSAGAWA, Caio; TAKAGAKI, Atsushi; NOMURA, Junko; DOMEN, Kazunari
- 1M1-08** Investigation on intercalation and acid catalytic activity of layered HNbMoO₆ (School of Engineering, The Univ. of Tokyo) SASAKI, Ryo; TAGUSAGAWA, Caio; TAKAGAKI, Atsushi; TAKANABE, Kazuhiro; DOMEN, Kazunari
- 1M1-09** The acidity of supported niobium oxide calcined at high temperature (Graduate School of Engineering, Kyoto Univ.) KITANO, Tomoyuki; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 1M1-10** Effect of pore-size on the acidic property of mesoporous silica FSM-16 (Graduate School of Engineering, Kyoto Univ.) UESAKA, Toshio; SHISHIDO, Tetsuya; YAMAMOTO, Takashi; TERAMURA, Kentaro; TANAKA, Tsunehiro

Zeolite

Chair: OGURA, Masaru (10 : 50~11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(1M1-12, 1M1-13, 1M1-14, 1M1-15, 1M1-16, 1M1-17)
- 1M1-12** Conversion of ethanol to light olefins over HZSM-5 type zeolites containing alkaline earth metals (Hiroshima Univ.) GOTO, Daisuke; HARADA, Yasumitsu; OUMI, Yasunori; TAKAHASHI, Atsushi; HUIJITANI, Tadahiro; SANO, Tsuneji
- 1M1-13** Observation of reactions of n-butene over zeolite catalyst by FT-IR (Tokyo Inst. of Tech. Chemical Resources Lab.) KOJIMA, Yuki; SHIMA, Hisashi; TATSUMI, Takashi; NOMURA, Junko
- 1M1-14** Particle size control and MTO reaction over SAPO-56 with AFX topology (Tokyo Institute of Technology, Chemical Resources Laboratory) OTSUKA, Ayano; IMAI, Hiroyuki; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Takashi
- 1M1-15** Synthesis of Fe-containing MWW type zeolites and interlayer-expanded MWW type zeolite (Tokyo Institute of Technology) YAKUSHIJI, Hikaru; IMAI, Hiroyuki; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Takashi
- 1M1-16** Synthesis of OFF-ERI type Zeolite by Interzeolite Conversion (Hiroshima Univ.) ITAKURA, Masaya; INOUE, Takayuki; OUMI, Yasunori; SANO, Tsuneji
- 1M1-17** Synthesis and characterization of silicalite/TiO₂ particle composite photocatalysts (Hiroshima Univ. Graduate School of Engineering) KUBOTA, Yuji; YAMAGUCHI, Kosuke; INUMARU, Kei; YAMANAKA, Shoji

Friday, March 27, PM

Zeolite

Chair: OUMI, Yasunori (12 : 50~13 : 30)

- * 12:40-12:50: interval for laptop PC connection.(1M1-24, 1M1-25, 1M1-26, 1M1-27)
- 1M1-24** Movements and Distribution of Cations in 3A Zeolite (Toyohashi Univ. of Tech.) SAKAI, Yuya; ADACHI, Yoshimichi; OHGUSHI, Tatsuo
- 1M1-25** Synthesis of Na-ZSM-5 Containing Homogeneous Al Distribution and Determination of Al Site (National Defense Academy; Applied Chemistry) KIMIJIMA, Hiroaki; NAKANISHI, Ryota; KAMIYA, Natsumi; NISHI, Koji; YOKOMORI, Yoshinobu
- 1M1-26** The study of the adsorption process of 1-butene on silicalite-1 by using single-crystal X-ray diffraction (National Defense Academy) SEINO, Shintaro; YANO, Midori; KAMIYA, Natsumi; NISHI, Kouji; YOKOMORI, Yoshinobu
- 1M1-27** Development of NO adsorbent by use of Fe-zeolites (Institute of Industrial Science, The Univ. of Tokyo) ONODERA, Kenzo; NOMURA, Mikihiko; KAWAKAMI, Koutarou; OGURA, Masaru

Mesoporous material

Chair: YOKOI, Toshiyuki (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1M1-29, 1M1-32, 1M1-33, 1M1-34)
- 1M1-29 CSJ Award for Young Chemists** Nanoporous Carbons and Nitrides (NIMS) VINU, Ayang
- 1M1-32** Preparation of Pd nanoparticle encapsulated in mesoporous silica (MITSUBISHI RAYON CO.,LTD., Graduate School of Engineering, Hiroshima Univ.) AKIHARA, Shuji; OYACHI, Ken; MIZUTANI, Koichi; INUMARU, Kei; NAITO, Hiroyuki
- 1M1-33** Precise Modification of Mesoporous Silica with Organic Molecules

(Hokkaido Univ.) AKAHANE, Saiko; HARA, Kenji; FUKUOKA, Atsushi

- 1M1-34** Synthesis of visible-light absorptive acridone-bridged mesoporous organosilica (Toyota Central R&D Labs., Inc., JST-CREST, Nara National College of Technology) TAKEDA, Hiroyuki; GOTO, Yasutomo; MAEGAWA, Yoshifumi; OHSUNA, Tetsu; TANI, Takao; SHIMADA, Toyoshi; INAGAKI, Shinji

Mesoporous material

Chair: ISHITANI, Haruro (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(1M1-36, 1M1-38, 1M1-39, 1M1-40, 1M1-41)
- 1M1-36*** Acid catalysis of mesoporous niobic acid (Materials and Structures Laboratory, Tokyo Institute of Technology) NAKAJIMA, Kiyotaka; FUKUI, Tsuyoshi; KATO, Hideki; NOMURA, Junko; HAYASHI, Shigenobu; HARA, Michikazu
- 1M1-38** Preparation of niobic acid (Nb₂O₅·nH₂O) on mesoporous silica SBA-15 (Hiroshima Univ.) SUMIYA, Sadanobu; OUMI, Yasunori; SANO, Tsuneji
- 1M1-39** Catalytic activity for oxidation of niobium modified on SBA-15 (TIT:Chemical Resources Laboratory) TANAKA, Manabu; SHIMA, Hisashi; LU, Daling; IMAI, Hiroyuki; YOKOI, Toshiyuki; TATSUMI, Takashi; NOMURA, Junko
- 1M1-40** Dehydration of xylose over sulfonic acid-containing mesoporous silicas (Chemical Resources Laboratory, Tokyo Institute of Technology) OTOMO, Ryoichi; SUZUKI, Takeshi; IMAI, Hiroyuki; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Takashi
- 1M1-41** Catalytic activity of mesoporous silica functionalized by organic groups (Teikyo Univ. of Sci. & Tech. Department of Science & Engineering) KUGITA, Tsuyoshi; KURIBAYASHI, Hikaru; ANBO, Kanako; IJIMA, Jyuichi

Mesoporous material

Chair: KUGITA, Tsuyoshi (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(1M1-43, 1M1-44, 1M1-45, 1M1-46, 1M1-47, 1M1-48)
- 1M1-43** Enzymatic reaction inside a microcapillary tube with mesoporous silica thin film (National Institute of Advanced Industrial Science and Technology) KATAOKA, Sho; ENDO, Akira; OYAMA, Makiko; OHMORI, Takao
- 1M1-44** Acid catalysis of MCM-41 for preparation of cyclic acetals (Chemical Resources Laboratory, Tokyo Institute of Technology) SOETA, Kotaro; ISHITANI, Haruro; IWAMOTO, Masakazu
- 1M1-45** Enhancement of catalytic activity of Pt/MCM-41 for selective catalytic reduction of NO through addition of Metal ion (Chemical Resources Laboratory, Tokyo Institute of Technology) KOGA, Akiko; SAITO, Chika; IWAMOTO, Masakazu
- 1M1-46** Rhenium supported mesoporous silica active for steam reforming of ethanol (Chemical Resources Laboratory, Tokyo Institute of Technology) OSAKA, Yuriko; KAWAMURA, Yuki; IWAMOTO, Masakazu
- 1M1-47** Enantioselective C-H Insertion to Indole Derivatives on Copper-Planted Mesoporous Silica Catalyst. (Chemical Resources Laboratory, Tokyo Institute of Technology) SATOH, Taisuke; ISHITANI, Haruro; IWAMOTO, Masakazu
- 1M1-48** Characterization of copper ions planted in mesoporous silica (Chemical Resources Laboratory, Tokyo Institute of Technology) TAKENAKA, Kumi; TANAKA, Masashi; ISHITANI, Haruro; IWAMOTO, Masakazu

Mesoporous material

Chair: NAKAJIMA, Kiyotaka (17 : 10~18 : 10)

- * 17:00-17:10: interval for laptop PC connection.(1M1-50, 1M1-51, 1M1-52, 1M1-53, 1M1-54, 1M1-55)
- 1M1-50** Development of and well-ordered basic nanospace and their catalytic performance in aldol-type reactions (Graduate School of Engineering, Kyoto Univ.) KAWAGUCHI, Toru; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 1M1-51** Synthesis and photocatalytic properties of nanosized lamellar oxides-with molecular assembly template (Kyushu Univ. Interdisciplinary Graduate School of Engineering Sciences) MORI, Masatoshi; OHTAKI, Michitaka
- 1M1-52** Effects of Pore Size of Mesoporous Silica Materials on Catalytic Activity for Dimerization of α -methylstyrene (Chemical Resources Laboratory, Tokyo Institute of Technology) ITO, Yuji; YAMAMURA, Taizo; ISHITANI, Haruro; IWAMOTO, Masakazu
- 1M1-53** Synthesis of Ti-based mesoporous mixed oxides through wall ion exchange method (Chemical Resources Laboratory, Tokyo Institute of Technology) SUH, Inshuk; TAKADA, Hitoshi; IWAMOTO, Masakazu
- 1M1-54** Synthesis of mesoporous Lanthanide-Ta mixed oxides (TIT; Chemical Resources Laboratory) IGUCHI, Ai; TANAKA, Manabu; LU, Daling; TATSUMI, Takashi; NOMURA, Junko
- 1M1-55** Synthesis and characterization of chiral mesoporous organosilica by using chiral anionic surfactants (Tatsumi and Nomura Laboratory)

OGAWA, Kyohei; YOKOI, Toshiyuki; TATSUMI, Takashi

Saturday, March 28, AM

Energy and Environment

Chair: ISHIHARA, Tatsumi (9:00~9:50)

- * 8:50-9:00: interval for laptop PC connection.(2M1-01, 2M1-02, 2M1-03, 2M1-04, 2M1-05)
- 2M1-01** Effect of sulfated surface modification for Pt/MO₂ (M = Ce, Zr) based deNO_x catalysts (CASI, Osaka Univ.) ITOH, Masahiro; SAITO, Makoto; MOTOKI, Koji; TAKEHARA, Masahiko; MACHIDA, Ken-ichi
- 2M1-02** Effect of bridged oxygen on support over Pt deNO_x catalysts supported on oxo-acid salts (CASI, Osaka Univ.) MACHIDA, Ken-ichi; ITOH, Masahiro; SAITO, Makoto; MOTOKI, Koji; TAKAHARA, Masahiko
- 2M1-03** Study on catalytic NO_x-SCR activity with methane over Ga-Al co-substituted MFI metallosilicates (Saitama Institute of Technology) NAGASHIMA, Koji; YAGI, Yoshiki; OKADA, Keisuke; ARITANI, Hirofumi
- 2M1-04** Oxidation of unburned biodiesel fuel over precious metal supported catalyst (AIST) UCHISAWA, Junko; NANBA, Tetsuya; OHI, Akihiko; OBUCHI, Akira
- 2M1-05** Hydrothermal synthesis of Fe-Mn perovskites and evaluation as CO oxidation catalysts (Kansai Univ.; Functional Materials lab) SUZUKI, Kosuke; SANO, Makoto; MIYAKE, Takanori

Energy and Environment

Chair: SATOKAWA, Shigeo (10:00~11:00)

- * 9:50-10:00: interval for laptop PC connection.(2M1-07, 2M1-08, 2M1-09)
- 2M1-07** Direct decomposition of NO on BaO/Ba-Y-O catalyst (3) BaO support effects (Kyushu Univ.) GOTO, Kazuya; MATSUMOTO, Hiroshige; ISHIHARA, Tatsumi
- 2M1-08** Low Temperature Oxidation of Diesel Particulate Matter on Pr₆O₁₁ (2) Effect of CeO₂ Promoter particle size and atmosphere (Kyushu Univ.) HAMAMOTO, Seiji; OISHI, Tetsuya; MATSUMOTO, Hiroshige; ISHIHARA, Tatsumi
- 2M1-09 CSJ Award for Technical Development** Development of Automotive Three-way Catalyst with Noble Metal Sintering Inhibition Technology by the Support Anchor Effect (Toyota Central R&D Labs., Inc.) SHINJYO, Hirofumi; NAGAI, Yasutaka; TANABE, Toshitaka; MIYAKE, Yoshiharu; SAKAGAMI, Shingo

Energy and Environment

Chair: SEKINE, Yasushi (11:10~12:10)

- * 11:00-11:10: interval for laptop PC connection.(2M1-14, 2M1-16)
- 2M1-14*** Development of Plasma Catalyst; Oxidation Characteristics toward Diesel PM under Dielectric Barrier Discharge Conditions (RITE) YAMAMOTO, Shin; YAO, Shuilang; KODAMA, Satoshi; MINE, Chieko; FUJIOKA, Yuichi
- 2M1-16 CSJ Award for Technical Development** Development and Practical Application of High-performance Particulate Burning Catalyst with High Oxygen Ion Conductive Material (Mazda Motor Corp.) HARADA, Kouichiro; YAMADA, Hiroshi; FUJITA, Hiroki; TSUSHIO, Yoshinori; TAKAMI, Akihiko

Saturday, March 28, PM

Energy and Environment

Chair: ISHIHARA, Atsushi (14:30~15:30)

- * 14:20-14:30: interval for laptop PC connection.(2M1-34, 2M1-35, 2M1-36, 2M1-37, 2M1-38, 2M1-39)
- 2M1-34** Development of solid catalysts and reactor effective for BDF synthesis from vegetable oil (Oita university) ISHIDA, Hiroshi; OKADA, Kenta; NISHIGUCHI, Hiroyasu; NAGAOKA, Katsutoshi; TAKITA, Yusaku
- 2M1-35** Photo-Fenton Degradation Reaction of Atrazine with Iron-substituted Hydroxyapatite as a Catalyst (Dept. of Chem., Saitama Med. Univ.; Biomed. Res. C., Saitama Med. Univ.; Taihei Chem. Industrial Co.,Ltd.) MORIGUCHI, Takeshi; SAKAMOTO, Yasushi; NAKAGAWA, Souhei; KAJI, Fumihiko
- 2M1-36** Development of Practically Usable and Environmentally Acceptable Catalyst Supported on GaN Plate (Anan National College of Technology) NISHIWAKI, Nagatoshi; KONISHI, Tomoya; TSUKAMOTO, Shiro
- 2M1-37** Studies on the promotion effect of added Ce into AlPO₄ (Oita university) INAO, Yasutaka; SATO, Daigo; NISHIGUCHI, Hiroyasu; NAGAOKA, Katsutoshi; TAKITA, Yusaku
- 2M1-38** The photocatalytic oxidation for the anionic/cationic mixed surfactant system (Meisei Univ., GESC) HIDAHA, Hisao; KIKUCHI, Ayaka; KOIKE, Takayoshi; HONJO, Haruo; OYAMA, Toshiyuki; SERPONE, Nick
- 2M1-39** Analysis of products from nitrate reduction with hydrazine and Pd-M (M = Cu, Ni) alloy catalysts (JAEA) KADOWAKI, Haruhiko; KATO, Atsushi; TOMIOKA, Osamu; MEGURO, Yoshihiro; TAKAHASHI, Kuniaki

Energy and Environment

Chair: NISHIGUCHI, Hiroyasu (15:40~16:30)

- * 15:30-15:40: interval for laptop PC connection.(2M1-41, 2M1-42, 2M1-43, 2M1-44, 2M1-45)
- 2M1-41** Low temperature decomposition of *tert*-butanethiol over zeolite catalysts (Seikei Univ.) SATOKAWA, Shigeo; OHNUKI, Takuro; HAYANO, Shintaro; TAKAHIRO, Tomoki; URASAKI, Kohei; KOJIMA, Toshinori
- 2M1-42** HDS activity and surface structure of NiW/SiO₂-Al₂O₃ catalyst prepared with using chelating agents (Tohoku univ.; applied chemistry) YOSHIDA, Shohei; KOIZUMI, Naoto; YAMADA, Muneyoshi
- 2M1-43** Catalytic cracking by amorphous silica-alumina prepared with organic templates (Mie Univ. Grad. Sch. Eng.) ISHIHARA, Atsushi; NEGURA, Hirotaka; HASHIMOTO, Tadanori; NASU, Hiroyuki
- 2M1-44** Catalytic property and characterization of Ni/Ce₂Zr₂O₇ active for methane reforming (Graduate School of Science, The Univ. of Tokyo/Institute for Molecular Science.) MALWADKAR, Sachin; TADA, Mizuki; SOGA, Junichi; IWASAWA, Yasuhiro
- 2M1-45** Mechanistic Aspects for Catalytic Steam Reforming of Propane (School of Engineering, Univ. of Tokyo) MIZUKI, Kazuhiro; TAKANABE, Kazuhiro; DOMEN, Kazunari

Energy and Environment

Chair: TAKANABE, Kazuhiro (16:40~17:20)

- * 16:30-16:40: interval for laptop PC connection.(2M1-47, 2M1-48, 2M1-49, 2M1-50)
- 2M1-47** Start-up mechanism of Ni/CeO₂ and Ni/CePO₄ under DSS like operation in methane steam reforming. (Oita university) HIRAYAMA, Takeshi; ADACHI, Kenji; ABE, Yousuke; NAGAOKA, Katsutoshi; NISHIGUCHI, Hiroyasu; TAKITA, Yusaku
- 2M1-48** Hydrogen production by using hydrogen permeating membranereactor (15) Steam reforming of methane (Kyushu Univ.) SHIGEDOMI, Kazuki; HIGASHI, Mitoki; MATSUMOTO, Hiroshige; ISHIHARA, Tatsumi
- 2M1-49** Steam Reforming Reaction of Bio-ethanol over Pt/CeO₂ added several promoters (Ishinomaki Senshu Univ.: Univ. of Tokushima; Sanwa Cornstarch Co.Ltd) KOBAYAMA, Hiromi; YAMAZAKI, Tatsuya; KIKUCHI, Naoko; KATOH, Masahiro; YOSHIKAWA, Takushi; WADA, Mamoru
- 2M1-50** The reductive dehalogenation reactions of 2-chloroethylbenzene, 3-phenylpropylchloride and 4-phenylbutylchloride using metal particles proceeded effectively under microwave irradiation. (Graduate School of Engineering, Osaka Univ.) TSUKAHARA, Yasunori; YAMAUCHI, Tomohisa; HIGASHI, Ayano; WADA, Yuji

Sunday, March 29, AM

Oxidation

Chair: KAMATA, Keigo (9:00~9:50)

- * 8:50-9:00: interval for laptop PC connection.(3M1-01, 3M1-02, 3M1-03, 3M1-04, 3M1-05)
- 3M1-01** CO oxidation activity of Au/Bi₂O₃ catalyst (Tokyo Metropolitan Univ.) HORIKAWA, Masanori; OHASHI, Hironori; TAKEI, Takashi; HARUTA, Masatake
- 3M1-02** CO oxidation reaction activity by the Au/Fe₂Zn₉₇O_x catalyst which I prepared with co-precipitation (Tokyo metropolitan Univ.) KUWNAO, Kaichiro; TAKEI, Takashi; HARUTA, Masatake
- 3M1-03** Silica-Supported Ionic Liquid Phase Palladium-catalyzed Aerobic Oxidation of Alcohols (Tokyo Institute of Technology) TANIGUCHI, Yuki; MAKIOKA, Yoshikazu
- 3M1-04** Development of catalysts effective for oxyhydration of olefins (Oita university) KAWAMURA, Tomoyuki; NISHIGUCHI, Hiroyasu; NAGAOKA, Katsutoshi; TAKITA, Yusaku
- 3M1-05** Development of catalysts effective for partial oxidation of olefins under reductive circumstances. (Oita university) MOCHIDA, Tatsuya; YANO, Kenshiro; NISHIGUCHI, Hiroyasu; NAGAOKA, Katsutoshi; TAKITA, Yusaku

Chair: NISHIGUCHI, Hiroyasu (10:00~10:50)

- * 9:50-10:00: interval for laptop PC connection.(3M1-07, 3M1-08, 3M1-09, 3M1-10, 3M1-11)
- 3M1-07** Promoting effect of rhenium addition to Pt catalysts for preferential CO oxidation in H₂-rich stream (Univ. of Tsukuba) EBASHI, Tatsuya; ISHIDA, Yoichi; ITO, Shinichi; KUNIMORI, Kimio; TOMISHIGE, Keiichi
- 3M1-08** Aerobic alcohol oxidation using platinum nanoparticles embedded in hollow carbon sphere (Research Center for Solar Energy Chemistry, Osaka Univ.) MORITA, Yoshihiro; NG, Yun Hau; HARADA, Takashi; IKEDA, Shigeru; MATSUMURA, Michio
- 3M1-09** Selective oxidation of alcohols with molecular oxygen over Ru supported CaO-ZrO₂ catalyst. (Department of Chemical, Energy and Environmental Engineering, Kansai Univ.) YASU-EDA, Takashi; IKENAGA, Naoki; MIYAKE, Takanori; SUZUKI, Toshimitsu

- 3M1-10** Aquacatalytic Aerobic Oxidation of Alcohols with a Bipyridyl-Palladium Coordination Polymer (Institute for Molecular Science and RIKEN) OSAKO, Takao; UOZUMI, Yasuhiro
- 3M1-11** Aerobic Alcohol Oxidation under Thermal Conditions (Institute for Molecular Science and RIKEN) OSAKO, Takao; TORII, Kaoru; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro

Chair: OSAKO, Takao (11:00~11:50)

- * 10:50-11:00: interval for laptop PC connection.(3M1-13, 3M1-14, 3M1-15, 3M1-16, 3M1-17)
- 3M1-13** Epoxidation of Homoallylic Alcohols with Hydrogen Peroxide Catalyzed by Selenium-Containing Dinuclear Peroxotungstate (School of Engineering, The Univ. of Tokyo; Japan Science and Technology Agency) HIRANO, Tomohisa; KUZUYA, Shinjiro; KAMATA, Keigo; MIZUNO, Noritaka
- 3M1-14** Effect of loading amount on the catalytic performance for the selective oxidation of methacrolein over silica-supported H₄PMo₁₁VO₄₀ (Hokkaido Univ.; Mitsubishi Rayoin Co.; Ltd.Hokkaido Univ.) KAN-NO, Mitsuru; YASUKAWA, Toshiya; NINOMIYA, Wataru; NAITO, Hiroyuki; KAMIYA, Yuichi
- 3M1-15** Development of Novel Wacker-Type Reaction Using by PdCl₂-DMA catalyst system (Osaka Univ.) MIZUMOTO, Keiichi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3M1-16** Highly Efficient Oxidative Lactonization of Diols using Molecular Oxygen as an Oxidant Catalyzed by Hydrotalcite-Supported Gold Catalyst (Osaka Univ.) NOUJIMA, Aukifumi; MIKAMI, Yusuke; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3M1-17** Synthesis of acetic acid from methane and CO by liquid-phase oxidation using H₂O₂(3) (Kyushu Univ.) KUMASHIRO, Masako; MATSUMOTO, Hiroshige; ISHIHARA, Tatsumi

Sunday, March 29, PM

Chair: MITSUDOME, Takato (13:00~13:50)

- * 12:50-13:00: interval for laptop PC connection.(3M1-25, 3M1-26, 3M1-27, 3M1-28, 3M1-29)
- 3M1-25** Selective methanation of CO in reforming gas over Ru catalysts supported on various metal oxides (Seikei University) URASAKI, Kohei; ENDO, Kenichiro; TAKAHIRO, Tomoki; KIKUCHI, Ryuji; KOJIMA, Toshinori; SATOKAWA, Shigeo
- 3M1-26** Production of 1,3-propanediol by glycerol hydrogenolysis over Ir based catalysts (Graduate school of pure and applied sciences Univ. ofTsukuba) UEDA, Naoyuki; SHIMAO, Akira; SHINMI, Yasunori; KOSO, Syuichi; KUNIMORI, Kimio; TOMISHIGE, Keiichi
- 3M1-27** Asymmetric hydrogenation of ketones by clay-supported chiral Rh(I) pillar complexes with long alkyl chains (Department of Applied Chemistry and biotechnology, Graduate School of Engineering, Chiba Univ.) SUZUKI, Shingo; OHMORI, Yuta; HARA, Takayoshi; ICHIKUNI, Nobuyuki; SHIMAZU, Shogo
- 3M1-28** Effect of CO₂ on the dehydrogenation over Cr-based catalysts (Graduate School of Engineering, Kyoto Univ.) OOSAWA, Kentaro; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 3M1-29** Formation of cyclohexene through hydrogenation of benzene over Au catalysts (Kyoto Institute of Technology) TAMAI, Toshio; IIZUKA, Yasuo; HYASHI, Toshio; HARUTA, Masatake

Hydrogenation and Dehydrogenation

Chair: TOMISHIGE, Keiichi (14:00~14:50)

- * 13:50-14:00: interval for laptop PC connection.(3M1-31, 3M1-32, 3M1-33, 3M1-34, 3M1-35)
- 3M1-31** Selective Hydrogenation of Quinolines Catalyzed by Hydroxyapatite-supported Pd Nanoparticle Catalysts (Osaka Univ.) HASHIMOTO, Norifumi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3M1-32** Controlled Synthesis of Subnano Pd Clusters Using Polyamine Dendrimers (Osaka Univ.) KIBATA, Takayuki; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3M1-33** Hydrogenation of β -Ketoester with Tartaric Acid-Modified Raney Nickel: Crystallization of the Product and Derivation (univ. of Hyogo; univ. of Toyama) MATSUDA, Tomohiro; OSAWA, Tsutomu; SUGIMURA, Takashi
- 3M1-34** Enantioselective Hydrogenation of Olefin over Heterogeneous Catalyst: Conditioning of Ready-made Pd/C for Cinchonidine Modification (Univ. of Hyogo, Graduate School of Material Science) KIM, Taeyeon; SUGIMURA, Takashi
- 3M1-35** Comparison of chiral modifiers, cinchonidine and cinchonine, in the enantioselective hydrogenation over palladium catalyst. (Univ. of Hyogo; Graduate School of Material) OGAWA, Hiroyuki; SUGIMURA, Takashi

Surface Structure Calculation

Chair: KITAGAWA, Yasutaka (15:00~16:00)

- * 14:50-15:00: interval for laptop PC connection.(3M1-37, 3M1-39, 3M1-41)
- 3M1-37*** Adsorption of small molecules on the faujasite zeolite surface: quantum-chemical calculations (AIST) FEDOROV, Dmitri; KITAURA, Kazuo
- 3M1-39*** Effects of ZSM-5 Zeolite Confinement on Reaction Intermediates during Dioxygen Activation by Enclosed Dicopper Cations. (Kyoto Institute of Technology; Okayama Univ.) YUMURA, Takashi; KOBAYASHI, Hisayoshi; KURODA, Yasushige
- 3M1-41**** Theoretical Study of the Direct Synthesis of H₂O₂ on Pd and Pd/Au Surfaces (IMCE Kyushu Univ.) STAYKOV, Aleksandar; KAMACHI, Takashi; ISHIHARA, Tatsumi; YOSHIZAWA, Kazunari
- * 16:00-16:10: interval for laptop PC connection.(3M1-44, 3M1-45, 3M1-46, 3M1-47)
- 3M1-44** Theoretical investigation for the hetero-junction effect between Au clusters and PVP (Department of Chemistry Graduate School of Science Osaka Univ.) OKUMURA, Mitsutaka; KITAGAWA, Yasutaka; KAWAKAMI, Takashi
- 3M1-45** Adsorptive properties of polyalkylsiloxane hollow microsphere (Shinshu Univ. Engineering) YAMAGUCHI, Kouhei; OKADA, Tomohiko; SAKAI, Toshio; MISHIMA, Syouji
- 3M1-46** The reactivity of surface OH toward CO over a Cerium oxide catalyst investigated by Infrared Spectroscopy (Graduate School of Science and Engineering, Yamaguchi Univ.) SAKURA, Teruki; SAKATA, Yoshihisa; IMAMURA, Hayao
- 3M1-47**** The selective methane oxidation by the layered Li-Ni compound oxide (KEK-PF) SUMII, Ryohei; AMEMIYA, Kenta; MKIYAZAKI, Takahumi

Chair: SAKAI, Toshio (17:10~18:00)

- * 17:00-17:10: interval for laptop PC connection.(3M1-50, 3M1-52, 3M1-53, 3M1-54)
- 3M1-50**** PTRF-XAFS study of Metal Nanoparticle Formation on an Organic Molecular layer (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
- 3M1-52** Structural analysis of carbon based solid acid (Tokyo Institute of Technology, Materials and Structures Laboratory, AIST) FUKUHARA, Kiichi; NAKAJIMA, Kiyotaka; KATO, Hideki; HAYASHI, Shigenobu; HARA, Michikazu
- 3M1-53** DXAFS study on the redox behavior of Cr/SiO₂ catalyst (Graduate School of Engineering, Kyoto Univ.) SHISHIDO, Tetsuya; YAMAZOE, Seiji; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 3M1-54** Study on the carburization process of cobalt-promoted supported niobium catalyst (Chiba Univ.) ICHIKUNI, Nobuyuki; YAMAGUCHI, Hiroshi; HARA, Takayoshi; SHIMAZU, Shogo

Room M2

Bldg.4 443

Catalysts and Catalysis

Friday, March 27, AM

organic synthesis

Chair: HARA, Takayoshi (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(1M2-01, 1M2-02, 1M2-03, 1M2-05, 1M2-06)
- 1M2-01** An Efficient Oxygenation of Primary Amines to Amides by a Supported Ruthenium Hydroxide Catalyst (School of Engineering, The Univ. of Tokyo) YAMAGUCHI, Kazuya; KIM, Jung Won; MIZUNO, Noritaka
- 1M2-02*** An Efficient Reduction of Allylic Alcohols to Saturated Alcohols by a Supported Ruthenium Hydroxide Catalyst (School of Engineering, The Univ. of Tokyo) KIM, Jung Won; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 1M2-03*** Highly Dispersed Ruthenium Hydroxides Effective for Hydrogen-Transfer Reactions (School of Engineering, The Univ. of Tokyo) YAMAGUCHI, Kazuya; KIM, Jung Won; MIZUNO, Noritaka
- 1M2-05** Hydrosilylation of Alkynes and Alkenes Catalyzed by Monolayer of Rh-Phosphine Complexes on Gold Surface (Hokkaido Univ.) AKIYAMA, Ryuto; HARA, Kenji; ISHIGURO, Yuriko; UOSAKI, Kohei; FUKUOKA, Atsushi; SAWAMURA, Masaya
- 1M2-06** Hydroboration of Alkenes Catalyzed by Monolayer of Ir-Phosphine

Complexes on Gold Surface (Hokkaido Univ.) AKIYAMA, Ryuto; HARA, Kenji; TAKAMI, Hitoshi; UOSAKI, Kohei; FUKUOKA, Atsushi; SAWAMURA, Masaya

organic synthesis

Chair: HARA, Kenji (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(1M2-08, 1M2-09, 1M2-10, 1M2-11, 1M2-12)
- 1M2-08** An Efficient Dehydrosilylation of Carboxylic Acids Catalyzed by $[RuCl_2(p\text{-cymene})_2]$ (Univ. of Tokyo) OJIMA, Yuko; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 1M2-09[#]** Carbon Alloy Catalyst Catalyzed Selective Oxidation of Benzilic Alcohols: A Metal-Free, Aerobic Catalytic System (KAKIMOTO Laboratory, Tokyo Institute of Technology) KUANG, Yongbo
- 1M2-10** Preparation of Anion-exchangeable Hydroxy Double Salt-supported Rh Catalyst and Application for Carbon-carbon Bond-forming Reaction (Chiba Univ.) HARA, Takayoshi; ICHIKUNI, Nobuyuki; SHIMAZU, Shogo
- 1M2-11** Direct Arylation of Aromatic C-H bond with Chloroarenes by Metal Oxide-Supported Ruthenium Catalysts (Kyoto Univ.) MIURA, Hiroki; WADA, Kenji; HOSOKAWA, Saburo; INOUE, Masashi
- 1M2-12** Heterogenously Catalyzed 1,3-Dipolar Cycloaddition of Organic Azides to Terminal Alkynes by a Supported Copper Hydroxide (The Univ. of Tokyo; Mizuno Lab.) KATAYAMA, Tatsuyori; KAMATA, Keigo; TAMAGUCHI, Kazuya; MIZUNO, Noritaka

organic synthesis

Chair: ICHIKUNI, Nobuyuki (11 : 10~12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(1M2-14, 1M2-16, 1M2-18)
- 1M2-14*** 1,3-Dipolar Cycloaddition of Organic Azides to Alkynes by a Dicopper-Substituted Silicotungstate (School of Engineering, The Univ. of Tokyo; Japan Science and Technology Agency) KAMATA, Keigo; NAKAGAWA, Yoshinao; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 1M2-16*** Hydration of Nitriles Catalyzed by Hydroxyapatite-Supported Ag Nanoparticles under Aqueous Conditions (Osaka Univ.) MIKAMI, Yusuke; MORI, Haruhiko; ARITA, Shusuke; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 1M2-18** Development of Vanadium-Grafted Hydroxalcalite Catalyst for Highly Efficient Dehydration of Amides into Nitriles (Osaka Univ.) SUEOKA, Shoichiro; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

Friday, March 27, PM

organic synthesis

Chair: WADA, Kenji (13 : 10~13 : 40)

- * 13:00-13:10: interval for laptop PC connection.(1M2-26, 1M2-29, 1M2-30, 1M2-31)
- 1M2-26 CSJ Award for Young Chemists** Development of Highly Functionalized Heterogeneous Catalysts Based on Metal Hydroxides (Sch. of Eng. The Univ. of Tokyo) YAMAGUCHI, Kazuya

photocatalysis

Chair: YAMAGUCHI, Takeshi (13 : 40~14 : 10)

- 1M2-29** Reduction of nitrogen oxide ions in an aqueous suspension of Pd-Ag-loaded titanium(IV) oxide photocatalyst (kinki Univ.) GEKKO, Hitoshi; SIMADA, Yumiko; HASIMOTO, Keihj; KOMINAMI, Hiroshi
- 1M2-30** Preparation of Au-CdS Nanocomposite Particles and Their Photocatalytic Activity (Graduate School of Eng., Nagoya Univ.) HORIBE, Hiroki; OKAZAKI, Ken-ichi; TORIMOTO, Tsukasa
- 1M2-31** Complete mineralization of organic compounds using cerium oxide photocatalyst (Kinki Univ.) TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

photocatalysis

Chair: KOMINAMI, Hiroshi (14 : 20~15 : 30)

- * 14:10-14:20: interval for laptop PC connection.(1M2-33, 1M2-34, 1M2-35, 1M2-36, 1M2-37, 1M2-38, 1M2-39)
- 1M2-33** Water splitting by TiO_2 nano material photocatalysts (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) SAITO, Asami; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 1M2-34** Study on water splitting using tantalum mixed oxides photocatalysts prepared by hydrothermal synthesis (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) YOSHIE, Kentaro; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 1M2-35** Water splitting by solar light using Fe_2O_3 derivative photoelectrode catalyst (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) KASAMA, Mitsuru; ONO, Takahiko; YAMAGUCHI, Takeshi; ARAKAWA, Hironori
- 1M2-36** Overall water splitting by Z-scheme using $BaTaO_{2.9}$ as H_2 evolution

system. (Faculty of Eng., The Univ. of Tokyo) MORI, Hirohiko; TABATA, Masashi; HIGASHI, Masanobu; TAKATA, Tsuyoshi; ABE, Ryu; DOMEN, Kazunari

- 1M2-37** Development of In_2O_3 photocatalyst for overall water splitting reaction (Faculty of Science, Tokyo Univ. of Science) JIA, Qingxin; MISEKI, Yugo; SAITO, Kenji; KUDO, Akihiko
- 1M2-38** Development of novel photocatalysts by molten-salt treatment of $Li_2Ca_{1.5}Ta_3O_{10}$ (Faculty of Science, Tokyo Univ. of Science) SHIBUYA, Tomohiro; SAITO, Kenji; KUDO, Akihiko
- 1M2-39** Water splitting over La and Na co-substituted $PbTiO_3$ (Faculty of Science, Tokyo Univ. of Science) UKAI, Takahiro; SAITO, Kenji; KUDO, Akihiko

photocatalysis

Chair: MIZUKOSHI, Yoshiteru (15 : 40~16 : 50)

- * 15:30-15:40: interval for laptop PC connection.(1M2-41, 1M2-42, 1M2-43, 1M2-44, 1M2-45, 1M2-46, 1M2-47)
- 1M2-41** Carbon nitride as a photocatalyst for water splitting under visible light. (The Univ. of Tokyo) KAMATA, Kumiko; TAKANABE, Kazuhiro; YANG, Jae-hun; MAEDA, Kazuhiko; WANG, Xinchun; ANTONIETTIE, Markus; DOMEN, Kazunari
- 1M2-42** Surface modification on some (oxy)nitrides using mpg-C3N4 (Univ. of Tokyo) TABATA, Masashi; YANG, Jae-hun; TAKANABE, Kazuhiro; DOMEN, Kazunari
- 1M2-43** Improvement of photocatalytic activity for overall water splitting over GaN-ZnO solid solution (School of engineering, The Univ. of Tokyo) SAKAMOTO, Naoyuki; TAKANABE, Kazuhiro; KATAYAMA, Masao; KUBOTA, Jun; DOMEN, Kazunari
- 1M2-44** Synthesis of $NaTaO_3$ nanoparticles by using mesoporous carbon as a template and photocatalyst (TIT/Chemical Resources Laboratory) SAKUMA, Junya; OHTA, Seigo; IMAI, Hiroyuki; YOKOI, Toshiyuki; TATSUMI, Takashi; NOMURA, Jyunko
- 1M2-45** Water splitting over $SrTiO_3:Rh$ codoped with metal ion under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) NEMOTO, Hiroaki; NIISHIRO, Ryo; SAITO, Kenji; KUDO, Akihiko
- 1M2-46** Improvement of photocatalytic properties of $SrTiO_3:Rh$ by examining loading methods of cocatalysts (Faculty of Science, Tokyo Univ. of Science) SASAKI, Yasuyoshi; SAITO, Kenji; KUDO, Akihiko
- 1M2-47** Temperature dependence of photocatalytic activities for overall water splitting over Z-Scheme photocatalysis systems under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) NAGASAWA, Kenji; SASAKI, Yasuyoshi; NISHIRO, Ryo; SAITO, Kenji; KUDO, Akihiko

photocatalysis

Chair: NISHIMOTO, Shunsuke (17 : 00~18 : 10)

- * 16:50-17:00: interval for laptop PC connection.(1M2-49, 1M2-50, 1M2-51, 1M2-52, 1M2-53, 1M2-54, 1M2-55)
- 1M2-49** Improvement of photocatalytic activity by modification of $(Zn_{1-x}Ge)_2O_4$ (School of Engineering, The university of Tokyo) UZAWA, Tsutomu; TAKANABE, Kazuhiro; KATAYAMA, Masao; KUBOTA, Jun; KUDO, Akihiko; DOMEN, Kazunari
- 1M2-50** Investigation of overall water splitting with visible light driven tandem type photoelectrochemical systems. (school of engineering The Tokyo Univ.) NISHIMURA, Naoyuki; MINEGISHI, Tutomu; ABE, Ryu; KUBOTA, Jun; DOMEN, Kazunari
- 1M2-51** Reduction of nitrate ions over $(ZnGa_2S_4)_{1-x}(ZnIn_2S_4)_x$ photocatalyst under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) SANEFUJI, Sayaka; OKA, Marie; SAITO, Kenji; KUDO, Akihiko
- 1M2-52** Photocatalytic reduction of nitrate ions over visible light responsive oxide photocatalysts (Faculty of Science, Tokyo Univ. of Science) OKA, Marie; SAITO, Kenji; KUDO, Akihiko
- 1M2-53** CH_4 production by CO_2 reduction over metal sulfide photocatalysts in an aqueous solution containing a sacrificial reagent. (Faculty of Science, Tokyo Univ. of Science) KOJIMA, Yuki; IIZUKA, Kousuke; SAITO, Kenji; KUDO, Akihiko
- 1M2-54** Study on Cu-Ga-sulfide photoelectrode (Chemical System Engineering, School of Engineering, The Univ. of Tokyo) OZAKI, Yoshitaka; YOKOYAMA, Daisuke; MINEGISHI, Tsutomu; KATAYAMA, Masao; TAKATA, Tsuyoshi; KUBOTA, Jun; DOMEN, Kazunari
- 1M2-55** Photocatalytic performance of CdS nanoparticles dispersed on TiO_2 (Chemical System Engineering, School of Engineering, The Univ. of Tokyo) OGISU, Kiyonori; TAKANABE, Kazuhiro; LU, Daling; SARUYAMA, Masaki; IKEDA, Takahiro; KANEHARA, Masayuki; TERANISHI, Toshiharu; DOMEN, Kazunari

Saturday, March 28, AM

photocatalysis

Chair: SHISHIDO, Tetsuya (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2M2-01, 2M2-02, 2M2-03, 2M2-04, 2M2-05)
- 2M2-01** Photocatalytic Properties of Visible-light Responsive TiO_2 Photo-

catalyst Codoped with Rhodium and Antimony Synthesized by Soft-process (Faculty of Science, Tokyo Univ. of Science) SASAKI, Mai; NIISHIRO, Ryo; SAITO, Kenji; KUDO, Akihiko

2M2-02 Photocatalytic properties of transition metal ion-substituted $Cs_{0.7}Ti_{1.65}Mg_{0.35-x}M_xO_4$ under visible light irradiation (Tokyo Univ. of Science.) NAKAZAWA, Ryoma; SAITO, Kenji; KUDO, Akihiko

2M2-03 Oxygen evolution reaction over chromium-doped $PbWO_4$ photocatalyst under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) SAKAKI, Junko; SAITO, Kenji; KUDO, Akihiko

2M2-04 Doping method for an enhancement of photocatalytic activity for water splitting. (School of Eng.; The Univ. of Tokyo.) TAKATA, Tsuyoshi; DOMEN, Kazunari

2M2-05* XAFS analysis of Ru cocatalyst deposited on $SrTiO_3$:Rh photocatalyst (Tokyo Inst. of Tech., Tokyo Univ. Science, Hokkaido Univ., International Christian Univ.) KATO, Hideki; SASAKI, Yasuyoshi; ASAKURA, Kiyotaka; CHUN, Wangjia; HARA, Michikazu; KUDO, Akihiko

photocatalysis

Chair: TAKATA, Tsuyoshi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2M2-08, 2M2-09, 2M2-10, 2M2-11, 2M2-12)

2M2-08 Syntheses and photocatalytic properties of $BiVO_4$ with unique morphologies (Faculty of science, Tokyo Univ. of Science) KOGA, Kazunori; SAITO, Kenji; KUDO, Akihiko

2M2-09 H_2 evolution from aqueous solution containing sulfite and sulfide ions over Rh-doped $SrTiO_3$ photocatalyst under visible light irradiation (Faculty of Science, Tokyo Univ. of Science) KIM, Emi; SAITOU, Kenji; KUDO, Akihiko

2M2-10 H_2 evolution over Cu and Ga co-substituted $ZnGa_2S_4$ photocatalysts under visible-light irradiation (Faculty of Science, Tokyo Univ. of Science) KAGA, Hiroshi; SAITO, Kenji; KUDO, Akihiko

2M2-11 Improvement of photocatalytic performance of tetr-La VO_4 (Tokyo Institute of Technology, Tokyo Univ. of Science) YOTSUMOTO, Kensuke; KATO, Hideki; NAKAJIMA, Kiyotaka; KUDO, Akihiko; HARA, Michikazu

2M2-12* Photocatalytic properties of niobium-based oxide semiconductors with nanowire morphologies (Faculty of Science, Tokyo Univ. of Science) SAITO, Kenji; KUDO, Akihiko

photocatalysis

Chair: KUDO, Akihiko (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(2M2-15, 2M2-16, 2M2-17, 2M2-18, 2M2-19)

2M2-15[†] Effects of dye mixing on the photocatalytic activity of dye-modified $KTaO_3$ photocatalyst for water splitting (Kyushu Univ.) HAGIWARA, Hidehisa; MATSUMOTO, Hiroshige; ISHIHARA, Tatsumi

2M2-16 Characterization of Zn doped Ga_2O_3 for overall water splitting. (Graduate School of Engineering, Kyoto Univ.; Graduate School of Science and Engineering, Yamaguchi Univ.) TERAMURA, Kentaro; TSUNEOKA, Hideo; OYAMA, Junya; MATSUDA, Yuta; SAKATA, Yoshihisa; IMAMURA, Hayao; TANAKA, Tsunehiro

2M2-17 Analysis of photocatalytic reactions utilizing a TiO_2 immobilized microreactor (Department of Applied Chemistry, Faculty of Science and Technology, Chuo Univ.) ODA, Kazuyo; ISHIZAKA, Yuri; SATO, Toshimitsu; KATAYAMA, Kenji

2M2-18 Study on adsorbed species of CO_2 and H_2 on Ga_2O_3 for the photoreduction of CO_2 (Graduate School of Engineering, Kyoto Univ.) TSUNEOKA, Hideo; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

2M2-19 Study on the mechanism of photodeposition of metal nanoparticles on a TiO_2 photocatalyst (Graduate School of Engineering, Kyoto Univ.) OHYAMA, Junya; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tunchiro

Saturday, March 28, PM

photocatalysis

Chair: KATO, Hideki (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2M2-34, 2M2-35, 2M2-36, 2M2-37, 2M2-38, 2M2-39)

2M2-34 Photocatalytic activity of dye/layered perovskite intercalation compound (Okayama Univ.) NISHIMOTO, Shunsuke; YAGI, Takeshi; MATSUDA, Motohide; MIYAKE, Michihiro

2M2-35 Analysis of the Surface Hydroxyl Groups on the photo-induced Highly Hydrophilic TiO_2 Single Crystal Surface Using Polarization Modulation Infrared Reflection Absorption Spectroscopy (Tokyo Univ. of Science) TAKAHASHI, Keita; MURAYAMA, Satoru; YUI, Hiroharu

2M2-36 Fabrication and Characterization of TiO_2 Nanotube Arrays in HF/H_3PO_4 Electrolyte by Anodization (Kanagawa Academy of Science and Technology) ISHIKAWA, Yosuke; NAKATA, Kazuya; OCHIAI, Tsuyoshi; SAKAI, Hideki; MURAKAMI, Taketoshi; ABE, Masahiko; FUJISHIMA,

Akira

2M2-37 Selective Photocatalytic Transformations on Microporous Titanosilicate ETS-10 Driven by Size and Polarity of Molecules (Osaka Univ.) TSUKAMOTO, Daijiro; SHIRAI, Yasuhiro; HIRAI, Takayuki

2M2-38 Structural analyses of Au/Pd bimetallic nanoparticles supported on TiO_2 and their promotion effects for photocatalytic activities (IMR, Tohoku Univ.) MIZUKOSHI, Yoshiteru; SATO, Kazuhisa; OHTSU, Naofumi; KONNO, Toyohiko; MASAHASHI, Naoya

2M2-39 Fabrication of TiO_2 nanotube templating supramolecular nanofiber and their photocatalytic activities (Shinshu University) TANAKA, Keita; SUZUKI, Masahiro; HANABUSA, Kenji

photocatalysis

Chair: SAITO, Kenji (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(2M2-41, 2M2-42, 2M2-43, 2M2-44, 2M2-45, 2M2-46)

2M2-41 Syntheses and Characterization of visible light responsive TiO_2 - WO_3 composite fibers by electrospinning (Kanagawa Academy of Science and Technology) GOTO, Yuri; NAKATA, Kazuya; OCHIAI, Tsuyoshi; SAKAI, Hideki; MURAKAMI, Taketoshi; ABE, Masahiko; FUJISHIMA, Akira

2M2-42 The study of highly efficient CuO - WO_3 photocatalyst for environmental purification (Tokyo Univ. of Science, AIST) HAYASHI, Hiroki; ARAI, Takeo; YANAGIDA, Masatoshi; SUGIHARA, Hideki; GUNJI, Takahiro; SAYAMA, Kazuhiro

2M2-43 Recovery method of the poly sulfide ions synthesized during the decomposition of H_2S in the basic solution. (Graduate School of Environmental Studies, Tohoku Univ.) HAYASHI, Tsugumi; BABA, Yohei; TAGA, Toshiharu; KISHIMOTO, Akira; TAKAHASHI, Hideyuki; TOHJI, Kazuyuki

2M2-44 Photocatalytic reduction of nitro aromatics in biphasic system (Kinki Univ.) IMAMURA, Kazuya; IWASAKI, Shin-ichi; MAEDA, Tsuyoshi; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

2M2-45 Decomposition of volatile organic compounds over visible-light-responding Rh_3+ - TiO_2 photocatalyst. (Kinki Univ.) KITANO, Sho; SUMIDA, Katutoshi; NISIMURA, Aiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

2M2-46 Photocatalytic Benzimidazole Synthesis with Titanium dioxide loading Pt Nanoparticles (Osaka Univ.) SUGANO, Yoshitsune; SHIRAI, Yasuhiro; HIRAI, Takayuki

photocatalysis

Chair: KANIE, Kiyoshi (16 : 50~17 : 30)

* 16:40-16:50: interval for laptop PC connection.(2M2-48, 2M2-49, 2M2-50, 2M2-51)

2M2-48 Photocatalytic Properties of Tris(2,2'-bipyridine)ruthenium Complex in Alkali Metal Cations Exchanged Zeolite Y (Osaka Univ.) KAWASHIMA, Masayoshi; KAGOHARA, Kento; MORI, Kohsuke; YAMASHITA, Hiromi

2M2-49 Withdrawn

2M2-50 Homogeneous photocatalytic decomposition of harmful organic compounds in aqueous solutions of iron ions. (Kinki Univ.) IMANISHI, Masachiyo; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

2M2-51 Sulfur-Doping Method to Promote Oxygen Reduction Reaction over Meso Titanium Oxides and the Site Structure and Operating Mechanisms (Chiba Univ.) SHIBATA, Yoshiyuki; IZUMI, Yasuo

Sunday, March 29, AM

Photocatalysis

Chair: KUBOTA, Jun (9 : 00~9 : 40)

* 8:50-9:00: interval for laptop PC connection.(3M2-01, 3M2-02, 3M2-03)

3M2-01 Elucidation of mechanism of visible-light-response utilizing interaction between porphyrin complex and solid surface (Graduate School of Engineering, Kyoto Univ.) SUGIMOTO, Takashi; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

3M2-02 Selective photocatalytic epoxidation of cyclohexene in the presence of Fe-porphyrin and Mg-Al hydrotalcite under visible light irradiation (Graduate School of Engineering, Kyoto Univ.) OGURA, Kentaro; SUGIMOTO, Takashi; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

3M2-03* A novel preparation of Cu_2O nanoparticles and its photocatalytic activity (Aomori Industrial Research Center, Hirosaki Univ.) KAKUTA, Seiji; ABE, Toshiyuki

Catalyst Preparation

Chair: TERAMURA, Kentaro (9 : 50~10 : 50)

* 9:40-9:50: interval for laptop PC connection.(3M2-06, 3M2-07, 3M2-09, 3M2-10, 3M2-11)

3M2-06 Synthesis of core-shell nanoparticles encapsulated with Ti-containing silica (Osaka Univ.) MORI, Kohsuke; SUGIHARA, Kohei; KONDO, Yuichi; YAMASHITA, Hiromi

- 3M2-07*** Design of A Surface Molecular-Imprinted Chiral Ru-Complex Catalyst for Asymmetric Hydrogenation of Ketones (Graduate School of Science, The Univ. of Tokyo; Institute for Molecular Science) YANG, Yong; TADA, Mizuki; IWASAWA, Yasuhiro
- 3M2-09** Preparation of cobalt supported polyorganosiloxane thin-film particles (Shinshu Univ. Engineering) SETTA, Masahiro; OKADA, Tomohiko; SAKAI, Toshio; MISHIMA, Shozi
- 3M2-10** Design of a Surface Molecular-Imprinted Ru Catalyst and Its Regioselective Epoxidation of Limonene (Institute for Molecular Science/ Graduate School of Science, The Univ. of Tokyo) TADA, Mizuki; KINOSHITA, Mutsuo; SASAKI, Takehiko; IWASAWA, Yasuhiro
- 3M2-11** Development of novel method for covalently immobilizing organic functional groups on silica gel (AIST; Meiji Univ.) FUKAYA, Norihisa; HISATO, Haga; TSUCHIMOTO, Teruhisa; ONOZAWA, Shun-ya; YAMASHITA, Hiroshi; KOBASHI, Hiroko; SAKAKURA, Toshiyasu; YASUDA, Hiroyuki

Catalyst Preparation

Chair: YASUDA, Hiroyuki (11:00~12:00)

- * 10:50-11:00: interval for laptop PC connection.(3M2-13, 3M2-14, 3M2-15, 3M2-16, 3M2-17, 3M2-18)
- 3M2-13** Adsorption of AuAg colloid particles on Al₂O₃ support with accompanying removal of PVP (KIT) MIURA, Takumi; IIZUKA, Yasuo; TOSHIMA, Naoki; MORITA, Nobuyasu; AKITA, Tomoki
- 3M2-14** Synthesis of metal nitride nanoparticles from mesoporous carbon nitride (Domen Laboratory, Department of chemical system engineering, School of Engineering, The Univ. of Tokyo) YANG, Jae-hun; TAKANABE, Kazuhiro; KUBOTA, Jun; DOMEN, Kazunari
- 3M2-15** Design of Molecular-Imprinted Ru₃ Cluster Catalyst for Selective Nitrile Hydrogenation (Graduate School of Science, The Univ. of Tokyo; Institute for Molecular Science) ISHIGURO, Nozomu; TADA, Mizuki; IWASAWA, Yasuhiro
- 3M2-16** Preparation of a ZSM-5-supported Re-Pt cluster catalyst with a tremendous activity for direct phenol synthesis from benzene with molecular oxygen (Graduate School of Science, The Univ. of Tokyo/Institute for Molecular Science.) WANG, Linsheng; TADA, Mizuki; IWASAWA, Yasuhiro
- 3M2-17** Development of non-Pt cathode catalyst for PEFC supported on carbon nano-fibers prepared by electro-spinning method. (Faculty of Engineering, The Univ. of Tokyo) CHEN, Jia; YANG, Jae-hun; TAKAGAKI, Atsushi; TAKANABE, Kazuhiro; KUBOTA, Jun; DOMEN, Kazunari
- 3M2-18** platinum sub-nanoparticle encapsulated dendrimer showing high oxygen reduction catalytic activity (Keio Univ.) SONOI, Atsunori; TAKENAGA, Masahiro; IMAOKA, Takane; KUZUME, Akiyoshi; ITO, Masatoki; YAKAMOTO, Kimihisa

Asian International Symposium -Catalysts and Catalysis-Development of Highly Selective Reactions on Newly Designed Solid Catalysts- Sunday, March 29, PM

Chair: IWAMOTO, Masakazu (13:00~14:00)

- 3M2-25** **Keynote Lecture** Design and synthesis of non-silica mesoporous materials and their catalytic properties (East China Normal Univ.) WU, Peng
- 3M2-28** **Invited Lecture** Supported metal hydroxides as effective heterogeneous catalysts for green functional group transformations (Univ. of Tokyo) YAMAGUCHI, Kazuya

Chair: NIWA, Miki (14:00~15:00)

- 3M2-31** **Invited Lecture** Direct phenol synthesis from benzene and O₂ on novel re catalysts with tremendous performances (IMS) TADA, Mizuki
- 3M2-34** **Keynote Lecture** Structural modulation, selective functionalization and applications of mesoporous materials (National Tsing Hua Univ.) YANG, Chia-Min

Chair: EGUCHI, Koichi (15:00~16:30)

- 3M2-37** **Invited Lecture** Development of highly efficient visible light responsive photocatalysts based on tungsten oxide (Hokkaido Univ.) ABE, Ryu
- 3M2-40** **Invited Lecture** Highly active Pd cluster/zeolite catalyst in Suzuki-miyaura reactions: Striking effect induced by the in situ activation with H₂ at room temperature (Tottori Univ.) OKUMURA, Kazu
- 3M2-43** **Invited Lecture** Growth mechanism, structural regulation and functionalization of carbon-based nanotubes (Nanjing Univ.) HU, Zheng

Chair: IWASAWA, Yasuhiro (16:30~18:00)

- 3M2-46** **Keynote Lecture** Biomass-derived polyols: New bio-platform molecules for sustainable production of fuels and chemicals (Peking Univ.) LIU, Haichao
- 3M2-49** **Invited Lecture** Novel acid catalyses of mesoporous silica material for selective organic reactions: Friedel-Crafts reactions and epoxide

ring-opening reactions (Tokyo Inst. Tech.) ISHITANI, Haruro

- 3M2-52** **Invited Lecture** New synergic-assembly strategy towards three-dimensional (3D) hollow nanoarchitectures (Univ. of Sci. and Tech. of China) XIE, Yi

Room P Rikoh Sports Hall

Friday, March 27, AM

(10:00~11:30)

Physical Chemistry -Structure- infrared Raman spectroscopy

- 1PA-001** Unique nature of interionic interactions in ionic liquids studied by vibrational spectroscopy methods: a comparison with electrolyte solutions with a high concentration. (Chiba Univ. Graduate School of Advanced Integration Science) FUJISAWA, Tomotsumi; NISHIKAWA, Keiko; SHIROTA, Hideaki
- 1PA-002** Near-infrared and infrared spectra of mono-substituted benzene included in cyclodextrin (TUAT) NAGAO, Akemi; TAKAYANAGI, Masao
- 1PA-003** Pressure Lineshift coefficients for the infrared absorption bands of CO (Meteorological College) FUKABORI, Masashi
- 1PA-004** Vibrational Spectra of SO₃-Ammonia Complex in Low-temperature Matrices: A Matrix Effect (Iwate Univ.) SUZUKI, Eiichi; ABE, Yusuke
- 1PA-005** Application of Vibrational Circular Dichroism Spectroscopy to the Determination of Absolute Configurations and Conformations of Hydroxylic Chiral Molecules in Solution (Tokyo Univ. of Science) KONNO, Kohzo; SHIINA, Isamu; YUI, Hiroharu
- 1PA-006** Hydrogen Bond versus Proton Bond Criterion at Trimethylamine-HX complexes; Theoretical Approach (Waseda Junior and Senior Highschool) SAITOH, Toshikazu
- 1PA-007** Surface enhanced Raman spectra of 4-cyano-4'-pentylbiphenyl adsorbed on silver nanoparticles (Tokyo Univ. of Science, Yamaguchi, Faculty of Science and Engineering) HASHIMOTO, Shinji; NAKAZAWA, Takashi; TANIGUCHI, Hironori; YOKOYAMA, Kei

electronic states

- 1PA-008** Correlation between thermochromism and electronic structure of copper(II) 9-anthracenecarboxylate (Univ. of Kanagawa, Faculty of science) KYUZO, Manabu; MORI, Wasuke; TANAKA, Jiro
- 1PA-009** Resonance-enhanced two-photon ionization spectra of 1-aminoin-dan-water complex in a supersonic jet (Tokyo Institute of Technology) WATANABE, Takuya; SUZUKI, Tadashi; ICHIMURA, Teijiro
- 1PA-010** Structure analysis of B-C-N hybrid thin films by inner-shell excitation spectroscopy (Japan Atomic Energy Agency) SHIMOYAMA, Iwao; UDDIN, Md. Nizam; BABA, Yuji; SKIGUCHI, Tetsuhiro; NAGANO, Masamitsu

crystal structure etc.

- 1PA-011** Structures and Phase Transitions of Pyridinium Tetrabromocadmate (II); NQR of Anhydride and Hydrate Forms (Univ. of Saga; Univ. of Ryukyus; Univ. of Tokushima; Darmstadt Univ. of Tech.) ISHIHARA, Hideta; HATANO, Naoko; HORIUCHI, Keizo; TERAU, Hiromitsu; SVOVODA, Ingrid; FUESS, Hartmut
- 1PA-012** Solid Solution Cs₂[Ag_xAu_{1-x}Cl₂][AuCl₄] studied by ³⁵Cl NQR (Shinshu Univ.) KUMAGAI, Yoshihide; OHKI, Hiroshi; SASANE, Akinobu; ISHIKAWA, Atsushi
- 1PA-013** Shift-compensation QCPMG NMR for spin-1 nuclei (Institute for Molecular Science) IJIMA, Takahiro; NISHIMURA, Katsuyuki
- 1PA-014** Electrical property and phase transition of perovskite-type compound CH₃NH₃PbBr_{3-x}Cl_x (College of Industrial Tech. Nihon Univ.) KOJIMA, Yoshiaki; YAMANE, Yohei; YAMADA, Koji
- 1PA-015** Hydrogen bonding network-patterns in co-crystals of some naphthalenediols with phenazine (Grad. Sch. of Sci. Eng., Saitama Univ.) NAKATSUKA, Takayuki; TAKAHASHI, Yuka; SAITOH, Hideki
- 1PA-016** Multipole electron density analysis of X-ray diffraction for molecular crystal (Saitama Univ.) YABUMOTO, Akio; IMAI, Shota; SAITOH, Hideki

Physical Chemistry -Properties- Liquid, Solution

- 1PA-019** Physical Properties of Dicationic Ionic Liquids: Alkyl-Group Dependence and Anion Substitution Effect (Chiba Univ., Graduate School

- of Advanced Integration Science) MANDAI, Toshihiko; NISHIKAWA, Keiko; SHIROTA, Hideaki
- 1PA-020** Volume changes accompanying dissolution of α -cyclodextrin in water (Ritsumeikan Univ.) MURAI, Yasuhiro; SAWAMURA, Seiji
- 1PA-021** Heavy Atom Substitution Effect of Nonaromatic Ionic Liquids : Shear Viscosity, Density, and Thermal Properties (Chiba Univ.) FUKAZAWA, Hiroki; NISHIKAWA, Keiko; WISHART, James F.; SHIROTA, Hideaki
- 1PA-022** Properties of Associated Solution of butanols + butylamines (Dept. Chem. Kinki Univ.) KIMURA, Takayoshi; SOGA, Akina; KAMIYAMA, Tadashi
- 1PA-023** Reaction volume on the proton-transfer equilibrium between p-nitrophenol and triethylamine in 1,2-dichloroethane (Ritsumeikan Univ.) YAMADA, Kiyotaka; SAWAMURA, Seiji
- 1PA-024** Crystal Structure and Properties of Water Nanotube Cluster Like Clathrate Hydrate I Stabilized in Molecule-Based Nanoporous Crystal (Tokyo Univ. of Science) IIDA, Chihiro; MIYAZATO, Yuji; TADOKORO, Makoto
- 1PA-025** Enthalpic discrimination of limonene in benzene solution (Kinki Univ.) KIDO, Satoko; KAMIYAMA, Tadashi; KIMURA, Takayoshi
- 1PA-026** Excess thermodynamic properties of structural isomers II (Kinki Univ.) LIU, Hongli; KAMIYAMA, Tadashi; KIMURA, Takayoshi
- 1PA-027** Raman Spectroscopic Study on Alcohol-Ionic Liquid Solutions (Nat. Def. Acad.) YOSHIMURA, Yukihiko; MIYASHITA, Tomoki; TAKEKIYO, Takahiro; IMAI, Yusuke; ABE, Hiroshi
- 1PA-028** Effects of solvents, bases and experimental procedure on lucigenin chemiluminescence. (Kyushu Kyoritsu Univ.; Kyushu Institute of Tech.) YOSHINAGA, Ketsutarou; TOYOSE, Yasushi; TAHARA, Chiaki; SHINODA, Michiyo
- 1PA-029** Thermal and dielectric properties of ionic liquids such as (bmim) BF₄ (Faculty of Science, Fukuoka Univ.) SHIBATA, Kayo; SEKINE, Kei; YOSHIDA, Tou; NEGITA, Keishi
- 1PA-030** Phase transition in one-dimensional hydrogen-bonded molecular chain compound tetramethylpyrazine-chloranilic acid (1:1) and its deuterium-substitution effect (Grad. School of Integ. Basic Sci., Nihon Univ.; Grad. School of Natural Sci. & Tech., Kanazawa Univ.) AMINO, Daiiki; ASAJI, Tetsuo; MIZUNO, Motohiro

Thin Film, Nano Systems, Nanotube

- 1PA-031** Effective Two-step Chemical Functionalization of SWNT with Microwave Oven (Toho Univ) KUROKI, Nozomi; KONDO, Mariko; SUGAI, Toshiki; MORIYAMA, Hiroshi
- 1PA-032[#]** [60]-Fullerene and Single-Walled Carbon Nanotube Based Composite Films Grafted to a Self-Assembled Monolayer on ITO (Toho Univ) WANG, Qiguan; MORIYAMA, Hiroshi
- 1PA-033** Tuning of electronic properties of single-walled carbon nanotubes under dispersion condition (Tokyo Gakuji Univ., JST PRESTO, Univ. of Tsukuba, IMS) SODE, Katsuya; MAEDA, Yutaka; HASEGAWA, Tadashi; AKASAKA, Takeshi; NAGASE, Shigeru
- 1PA-034** Regulated Optical Properties of Single-walled Carbon Nanotubes via Redox Reaction (Department of Applied Chemistry, Graduate School of Engineering, Kyushu Univ.) TANAKA, Yasuhiko; HIRAYAMA, Kohei; HIRANA, Yasuhiko; NAKASHIMA, Naotoshi
- 1PA-035** Development of high thermal conductive zeolite pellet for Adsorption heat pump (Shimane Institute for Industrial Technology) TAJIMA, Masahiro; SIOMURA, Takanobu
- 1PA-036** Three-dimensional arrangement of the gold nanorods (Ibaraki Univ.) OTOMO, Shohei; IZUOKA, Akira
- 1PA-037** size growing of Au₁₁ cluster through ligand exchange reaction (Ibaraki Univ.) SUKEGAWA, Tomofumi; IZUOKA, Akira
- 1PA-038** Dispersion of single-walled carbon nanotubes by C60(OH)_n (Tokyo Gakuji Univ., JST PRESTO, Kuraray, Univ. of Tsukuba, IMS) HIGO, Junki; MAEDA, Yutaka; HASEGAWA, Tadashi; KATO, Takaaki; KITANO, Takahiro; AKASAKA, Takeshi; NAGASE, Shigeru
- 1PA-039** Preparation of gold nanoparticles protected by alkyl groups and TPPs (Ibaraki Univ.) TAKATO, Kiyoto; KAWASHIMA, Yuuki; IZUOKA, Akira
- 1PA-040** Preparation of gold nanoparticles protected with gold sulfide complex (Ibaraki Univ.) ITOI, Ayaka; IZUOKA, Akira
- 1PA-041** Preparation of Thin Film of Porphyrin Derivatives Bound Chemically to Electrode Surface (Toho Univ) AMEMIYA, Jun; PAC, Chyongjin; MORIYAMA, Hiroshi
- 1PA-042** Synthesis of Fullerene C₆₀ Derivatives for Controlling of Organic Thin Film Interface (Toho Univ) ABE, Kai; PAC, Chyongjin; MORIYAMA, Hiroshi
- 1PA-043** Preparation of Oligothiophene Derivatives as a Modified Interface Layer for Organic Nano Thin Film (Toho Univ.) TAKASUNA, Tohru; PAC, Chyongjin; MORIYAMA, Hiroshi
- 1PA-044** Shear Stress Effects on Nitrospiropyrans with Different Alkyl Chains (Tokyo Univ. of Science, Yamaguchi; Faculty of Science and Engineering) SAKAI, Ryosuke; YABUUCHI, Kazuhiro; INOKUCHI, Makoto; YAKUSHI, Kyuya; SHIROTANI, Ichimin
- 1PA-045** Shear stress effect on naphthospiropyran (Tokyo Univ. of Science, Yamaguchi; Faculty of Science and Engineering) INOKUCHI, Makoto;

- SHIMIZU, Yukiko; OHSHIMA, Shuhei; SAKAI, Ryosuke; YABUUCHI, Kazuhiro; YAKUSHI, Kyuya; SHIROTANI, Ichimin
- 1PA-046** Mechanochromism of tetrabenzo[a,c,d,j,lm]perylene (Tokyo Univ. of Science, Yamaguchi) KAWAHARA, Ryusuke; YABUUCHI, Kazuhiro; INOKUCHI, Makoto; YAKUSHI, Kyuya; TAKEKAWA, Minoru; AOKI, Junji
- 1PA-047** Synthesis of new oligo-thiophenes and fiber fabrication by electro-spinning (Tokyo Institute of Technology) ASHIZAWA, Minoru; NIIMURA, Takuro; TSUBOI, Kazuma; MATSUMOTO, Hidetoshi; TANIOKA, Akihiko
- 1PA-048** AFM/Microspectroscopy study on interaction between CdSe quantum dots and localized surface plasmons (Kwansei Gakuin Univ.; School of Science and Technology) KAWADU, Yoshinari; NAMIUCHI, Toshihumi; TAMAI, Naoto
- 1PA-049** Photoluminescence of sulfonated polystyrene films developed by repetition of the PL-up conversion measurement (Univ. of the Ryukyus) UCHIHARA, Toshio; SHIROMA, Mika; ISHIMINE, Koji; TAMAKI, Yoshiaki
- 1PA-050** Temperature dependence on photophysical properties and crystalline structures of water-soluble CdTe quantum dots (Kwansei Gakuin Univ., School of Science and Technology) UDAGAWA, Takeshi; KOBAYASHI, Yoichi; YAMAGUCHI, Hiroshi; TAMAI, Naoto

Electric Properties, Magnetic Properties

- 1PA-051[#]** Theoretical study of the conductance in polycyclic aromatic hydrocarbons with Acene (n) and Phenanthrene (n) edge structures (IMCE Kyushu Univ.) LI, Xinqian; STAYKOV, Aleksandar; YOSHIZAWA, Kazunari
- 1PA-052** Synthesis, Crystal Structures, and Properties of Dithiolenes Complexes with Highly Reticulated Structures Based on S-N Contacts and Hydrogen Bonding (Research Center for Materials Science and Graduate School of Science, Nagoya Univ.) SUIZU, Rie; NISHISAKA, Nobuhiko; AWAGA, Kunio
- 1PA-053** Synthesis and Properties of the Tetrakis(methylthio)-Substituted Donors (Univ. of Hyogo) NODA, Naoya; AOKI, Yoshiyuki; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi
- 1PA-054** Structures and properties of Ferrocene-CH₂NRCOCH₂SO₃⁻ (R = H, CH₃) anions and their charge-transfer salts (Univ. of Hyogo) UENO, Takahiro; AKUTSU, Hiroki; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi
- 1PA-055** Synthesis of a new BETM-TTF donor and properties of its CT complexes (School of Sci. & Eng. Aoyama Gakuin Univ.) INAYOSHI, Tomoko; WATANABE, Tatsuya
- 1PA-056** Orbital view concept applied on photoswitching systems (IMCE, Kyushu Univ.) TSUJI, Yuta; STAYKOV, Aleksandar; YOSHIZAWA, Kazunari
- 1PA-057** Electronic structures and magnetic properties of copper(II) complexes with axially coordinated nitronyl nitroxide radicals (Faculty of Science and Technology, Keio Univ.) MATSUOKA, Naoki; YOSHIOKA, Naoki
- 1PA-058** Magnetic Properties of Oxovanadium(IV) Complexes Containing Bidentate Schiff-base Ligands (Faculty of Science and Technology, Keio Univ.) KAWAMURA, Hiroshi; YOSHIOKA, Naoki
- 1PA-059** Non-magnetic dilution effect on the charge transfer and the magnetism of an iron mixed valence complex, [Fe^{II}Fe^{III}(C₂O₂S₂)₃] (The Univ. of Tokyo) ENOMOTO, Masaya; KOJIMA, Norimichi
- 1PA-060** Syntheses and Magnetic Properties of Uracil- and Isocytosine-Substituted Nitroxide Radicals (Osaka City Univ.) TANAKA, Hiroyuki; SHIOMI, Daisuke; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; SATO, Kazunobu; TAKUI, Takeji
- 1PA-061** The dynamic magnetism of heterodinuclear Single-Molecule Magnets with trivalent lanthanide ions which have different magnetic relaxation time (Chuo Univ. Department of Applied Chemistry) TAKAGI, Daisuke; ISHIKAWA, Naoto

Physical Chemistry -Chemical Kinetics and Dynamics-

- 1PA-063** Dissociation Dynamics of Methanol Cations in Intense Laser Fields: Molecular Dynamics Calculation by the Geographical Orienting Method (School of Science, The Univ. of Tokyo; Graduate School of Science, Tohoku Univ.) NAKAI, Katsunori; KATO, Tsuyoshi; KONO, Hirohiko; YAMANOUCI, Kaoru
- 1PA-064** Theoretical Study on the thermal Decomposition of oxetane and dioxetane (AIST) TSUCHIYA, Kentaro
- 1PA-065** Theoretical study of cation- π interaction for alkali-earth metal / aromatic molecular complexes (Kitasato Univ.) DAIGOKU, Kota
- 1PA-066** Examination of intermolecular interaction and fragmentation mechanism of acetaldehyde molecular clusters by O₁s core electron excitation (Faculty of Science, Hiroshima Univ.) CHODA, Mitsuru; YAMANAKA, Takeshi; TAKAHASHI, Osamu; YOSHIDA, Hiroaki; TABAYASHI, Kiyohiko
- 1PA-067** Study on Local Photopolymerization Using Single Molecule Tracking (Graduate School of Engineering Science and Center for Quantum Materials Science under Extreme Conditions) ITOH, Kou; SMRITIMOY, Pramanik; TAKEI, Satoshi; KUSUMI, Takatsugu; ITO, Shoji; MIYASAKA, Hiroshi

- 1PA-068** Temperature elevation near metallic nanostructures due to local plasmon resonance (Graduate School of Engineering Science and Center for Quantum Material Science under Extreme Conditions) YAMAUCHI, Hiroaki; ITO, Syoji; TSUBOI, Yasuyuki; MIYASAKA, Hiroshi
- 1PA-069** Microscopic heterogeneity in polymeric materials studied by single molecule tracking (1)Graduate School of Engineering Science and Center for Quantum Materials Science under Extreme Conditions (2)PRESTO JST (3) Electronic Materials Research Lab., Nissan Chemical Industries) MAEDA, Kentaro; TAKEI, Satoshi; KUSUMI, Takatsugu; ITO, Shoji; MIYASAKA, Hiroshi
- 1PA-070[#]** Transient Absorption Spectroscopy of PYP Point Mutants: Earliest Steps of the PYP Photocycle (Institute for Laser Technology) CHOSROWJAN, Haik; MATAGA, Noboru; TANIGUCHI, Seiji; IMAMOTO, Yasushi; KATAOKA, Mikio; CHANGENET-BARRET, Pascale; PLAZA, Pascal; MARTIN, Monique
- 1PA-071** Optical properties of Sm²⁺ complexes of crown ethers in solution (Osaka Sangyo Univ.; Osaka City Univ.) KUSABA, Mitsuhiro; YAMADE, Eriko; NISHIDA, Daisuke; YATSUHASHI, Tomoyuki; NAKASHIMA, Nobuaki
- 1PA-072** SHG/THG on the metallic surface with near-infrared femtosecond laser pulses and its applications (Osaka Univ.; Ryukoku Univ.) MORI, Kazuya; NAKAGAWA, Hiroto; MATSUDA, Hirohisa; ITO, Syoji; NAGASAWA, Yutaka; MIYASAKA, Hiroshi; UCHIDA, Kingo; NAKAMURA, Shinichiro
- 1PA-073** Photochemically induced aggregation of polystyrene particle. (Graduate school of Gunma Univ.) NIINOMI, Tomoyuki; HORIUCHI, Hiroaki; HIRATSUKA, Hiroshi; OKUTSU, Tetsuo
- 1PA-074** Antioxidant behavior of vitamin C for photolysis of vitamin E in AOT reversed micelle. (Graduate School of Science and Engineering, Ehime Univ.) IKEDA, Akihiro; OHARA, Keishi; NAGAOKA, Shin-ichi
- 1PA-075[†]** Measurements of absolute phosphorescence quantum yield of organic molecules in rigid matrix at 77K by using an integrating sphere instrument (Department of Chemistry and Chemical Biology, Gunma Univ.) KOBAYASHI, Atsushi; SUZUKI, Kengo; MURASE, Tokiko; YOSHIHARA, Toshitada; TOBITA, Seiji
- 1PA-076** Fluorescence enhancement of naphthanthrone: effects of temperature, concentration, and deuteration of solvents (Toho Univ.) YAGISHITA, Mayuko; NAKAMURA, Takehiro; SAKAGUCHI, Shoichi; FUJIMAKI, Yasuto; OHSHIMA, Shigeru
- 1PA-077** Ring-opening Reaction Dynamics of Diarylethene Derivatives: The Relation between Beat Signal and Molecular Structure (Osaka Univ. Graduate School of Engineering Science) SAITO, Hisayuki; ISHIBASHI, Yukihide; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi; YAMAGUCHI, Tadatsugu; KOBATAKE, Seiya; IRIE, Masahiro
- 1PA-078** Laser photolysis study on photodissociation dynamics of radical diffusion-inhibited HABI derivative (Osaka Univ. Graduate School of Engineering Science, Aoyama Gakuin Univ.) OHTA, Chikashi; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi; HATANNO, Sayaka; KISHIMOTO, Yuta; FUJITA, Kana; ABE, Jiro
- 1PA-079** Comparison between ionic liquids and conventional liquids by femtosecond 3 pulse photon echo method (Graduate School of Engineering Science and Center for Quantum Materials Science under Extreme Conditions) MURAMATSU, Masayasu; VIVEK, Bansal; NAGASAWA, Yutaka; MIYASAKA, Hiroshi
- 1PA-080** Photochemical behavior of methylene blue adsorbed on the surface of Okinawan subtropical red soil (Univ. of the Ryukyus) KUROIWA, Akiyo; TAMAKI, Yoshiaki; UCHIHARA, Toshio
- 1PA-081** Effect of abasic site on dynamics of duplex DNA using fluorescence correlation spectroscopy (Graduate School of Engineering Science, Osaka Univ., Center for Quantum Science and Technology under Extreme Conditions, Osaka Univ.) KAJI, Takahiro; HASEGAWA, Mayu; ITO, Syoji; IWAI, Shigenori; MIYASAKA, Hiroshi
- 1PA-082** Photoreduction of Naphthoquinone at an SDS micellar interface and spin effect of antioxidant addition (Shizuoka Univ.) MURAKAMI, Kouichi; MURAI, Hisao
- 1PA-083** Photoelectron Transfer Reactions of Phenothiazine-Anthraquinone Dyads with Rigid Linkers (Osaka City Univ.; Univ. of Toyama) KAWAUCHI, Hidehito; SUZUKI, Shuichi; KOZAKI, Masatoshi; KEYAKI, Kazutoshi; NOZAKI, Koichi; OKADA, Keiji
- 1PA-084** Ultrafast Fluorescence dynamics of C1 protein (Institute for Laser Technology) TANIGUCHI, Seiji; CHOSROWJAN, Haik; MATAGA, Noboru; TANAKA, Fumio
- 1PA-085** Photon Antibunching Behavior in the Emission from Single Nanocrystals and Nanoparticles consisting of Fluorescent Organic Molecules (Kyoto Inst. Tech) MURAKAMI, Takumi; MASUO, Sadahiro; MASUHARA, Akito; NISHI, Nobuhiro; MURANUSHI, Mai; MATSUDA, Yoshihisa; MACHIDA, Shinjiro; KASAI, Hitoshi; OIKAWA, Hidetoshi; ITAYA, Akira
- 1PA-086** Photoinduced Electron Transfer of Bipyridine-diacetylde Platinum Complexes Linked with Triphenylamine and Naphthalimidide Moieties (Univ. of Toyama; Osaka City Univ.; Osaka Univ.) KEYAKI, Kazutoshi; SUGIMURA, Ryoji; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; IKEDA, Noriaki; NOZAKI, Koichi
- 1PA-087** Time-resolved Fluorescence Spectra and Structures in the Excited States of Acetylene-Linked Pyrene Dimer (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) ASANO, Motoko; KUDAKA, Mami; FUJINO, Tatsuya; YAMASHITA, Ken-ichi; HADA, Masahiko; SUGIURA, Ken-ichi
- 1PA-088** Synthesis and Photochemical Properties of Bipyridine-Diacetylde Platinum Complexes Linked with BODIPY and Triphenylamine Moieties (Osaka City Univ., Graduate School of Science; Univ. of Toyama, Graduate School of Science and Engineering) NAITOH, Takahiro; SUZUKI, Shuichi; KOZAKI, Masatoshi; KEYAKI, Kazutoshi; NOZAKI, Koichi; OKADA, Keiji
- 1PA-089** Photon antibunching behavior of single conjugated polymer chains in solution (Kyoto Inst. Tech) HOSUGI, Masaaki; NISHI, Nobuhiro; MASUO, Sadahiro; MACHIDA, Shinjiro; ITAYA, Akira
- 1PA-090** Probing electron-transfer of azaporphine derivative by photon echo measurement (Osaka Univ.; School of Engineer Science and Center for Quantum Materials Science under Extreme Conditions) MUKAI, Ryusuke; MORI, Kazuya; MURAMATSU, Masayasu; NAGASAWA, Yutaka; MIYASAKA, Hiroshi
- 1PA-091** Excited-state Dynamic Behavior of Biphenyl Bridged Organosilicas in Solid Film (Osaka Univ.; Toyota Phys. Chem. Res. Inst.; Toyota Central R&D Labs., Inc.) ISHIBASHI, Yukihide; KATAYAMA, Tetsuro; ITO, Shoji; MIYASAKA, Hiroshi; YAMANAKA, Ken-ichi; GOTO, Yasutomo; OHASHI, Masataka; TANI, Takao; OKADA, Tadashi; INAGAKI, Shinji
- 1PA-092** Comparison of two-centered interaction in the excited states of oligo-*p*-phenylene- and diphenylacetylene-linked porphyrin dimers (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) ASANO, Motoko; TSUBOI, Michihiro; YAMASHITA, Ken-ichi; SUGIURA, Ken-ichi
- 1PA-093** Time Resolved Measurement of Radiation-induced Reactions in Aqueous Solutions Containing Silica Particles by Pulse Radiolysis Technique (Japan Atomic Energy Agency; The Univ. of Tokyo) KUMAGAI, Yuta; NAGAISHI, Ryuji; YAMADA, Reiji; MUROYA, Yusa; KATSUMURA, Yosuke
- 1PA-094** Absorption spectral change of aqueous suspension of curcumin by nanosecond laser irradiation (Univ. of the Ryukyus) TAMAKI, Yoshiaki; CHINEN, Shouhei; UCHIHARA, Toshio

Friday, March 27, AM

(12 : 30 ~ 14 : 00)

Natural Products Chemistry

Fatty acid derivative, Polyphenol

- 1PB-001** An efficient enantiospecific synthesis of (aR) or (aS)-HHDP compounds using L-tartaric acid derivatives. (School of Science and Technology, Kwansei Gakuin Univ.) FUJIMOTO, Shohei; ASAKURA, Noriaki; MICHIHATA, Naoki; IMAGAWA, Hiroshi; YAMADA, Hidetoshi
- 1PB-002** Structural analysis of a new component produced in a turnip root after the high hydrostatic pressure treatment (Niigata Univ. of Pharmacy and Applied Life Sciences) OYANAGI, Azusa; MOTEGI, Yukina; UENO, Shigeaki; HAYASHI, Mayumi; SHIGEMATSU, Toru; FUJII, Tomoyuki; ARAI, Yoshifusa; MIYAZAKI, Tatsuo; AJISAKA, Katsumi
- 1PB-003** Stereochemical analysis of glycerolipids by Vibrational Circular Dichroism (Graduate school of Advanced Life Science, Hokkaido Univ.) SHIBATA, Masataka; NAKAHASHI, Atsufumi; FUKUZAWA, Masumi; TANIGUCHI, Tohru; MONDE, Kenji; WATANABE, Keisuke; AKAO, Kenichi
- 1PB-004** The Structures and Biological Activity of New Lipoamino acids from the Bacterium *Wautersilla falsenii*. (Nagahama Institute of Bio-Science and Technology) ONIZUKA, Akinari; MURAKAMI, Yumi; MUKAI, Yukio; OHTA, Shinji

Terpene, Steroid

- 1PB-005** Antibacterial activities assay of functional isoprenoids~The trial production of scent in woods "ISSOP" as a disinfection agent~ (Hiroaki Univ. Graduate School of Science and Technology, Hiroaki Univ. Graduate School of Medicine) NAGAKI, Masahiko; HAYASHI, Hirofumi; NAKANE, Akiyo
- 1PB-006** Total Synthesis of Ascofuranone without Using Selenium Dioxide (Graduate School of Engineering, Tottori Univ.; Research Center for Bioscience and Technology, Tottori Univ.) TAKAHASHI, Yuki; HAGA, Yasushi; ANBIRU, Yoshihide; TAMURA, Sayuri; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 1PB-007** Difference in terpenoid and DNA of *Ligularia hodgsonii* in Japan and China (Rikkyo Univ.; Kunming Institute of Botany) CHAO, Xun; TORIHATA, Atsushi; HANAI, Ryo; GONG, Xun; KURODA, Chiaki
- 1PB-008** Studies on an ecdysteroid membrane receptor using inokosterone derivatives as chemical probes (Department of Chemistry and Materials Science, Tokyo Institute of Technology) KURIYAMA, Sachiko; HARA, Noriyuki; FUJIMOTO, Yoshinori; SAKURAI, Sho
- 1PB-009** Total synthesis of sativene type sesquiterpenoids drechslerine A and B. (Grad. School of Sci. and Tech., Niigata Univ., Faculty of Eng.) HAGIWARA, Hisahiro; FUKUSIMA, Masakazu; TAMAKI, Ryuusuke; MATSUI, Takuya; HOSHI, Takashi; SUZUKI, Toshio

Alkaloid

- 1PB-010** Search for Functional Natural Products with Fluorous Technology (Graduate School of Life Science, Hokkaido Univ.) FUCHIGAMI, Ryuichi; KAI, Hirokazu; YOSHIDA, Masafumi; NAKAHASHI, Norifumi; MONDE, Kenji
- 1PB-011[†]** Stereochemical analysis of hexylitaconic acid, an inhibitor of p53-HDM2 interaction by vibrational circular dichroism(VCD) (Graduate School of Advanced Life Science, Hokkaido Univ.) NAKAHASHI, Atsufumi; MIURA, Nobuaki; TANIGUCHI, Tohru; TSUKAMOTO, Sachiko; MONDE, Kenji

Sugar

- 1PB-012** Research on the development of novel structures-based Influenza virus sialidase inhibitors (Grad. Sch. of Life Sci., Hokkaido Univ.) SATO, Kiminori; HINOU, Hiroshi; TAKASU, Yasuaki; KUROGOCHI, Masaki; NISHIMURA, Shin-ichiro
- 1PB-013** Enzymatic *N*-formylglucosaminylation of maltoigosaccharides catalyzed by phosphorylase (Kagoshima Univ.) KAWAZOE, Satoshi; NAWAJI, Mutsuki; IZAWA, Hironori; KANEKO, Yoshiro; KADOKAWA, Jun-ichi
- 1PB-014** Measurement of Properties of Hydration Water surrounding Hyaluronan using Time-resolved Fluorescence Probe Method (Tokyo Univ. of Science) SOMEYA, Yuu; ISHIDA, Kyoko; YUI, Hiroharu

Amino acid, Peptide

- 1PB-015** Consideration of Stereo-specificity in Peptide Formation Reactions (Oyama National College of Technology) MUNEGUMI, Toratane; MIYAZAWA, Toshifumi
- 1PB-016** Syntheses and Properties of Novel Analogues of Peptide Antibiotic "Gratisin" (Toho Univ. Faculty of Science) TAMAKI, Makoto; SASAKI, Ichiro; SHIRANE, Aya; SHINDO, Mitsuno; KIMURA, Masahiro; UCHIDA, Yoshiki
- 1PB-017** Syntheses and Properties of Polycationic Gramicidin S Analogues (Toho Univ.; Faculty of Science) SASAKI, Ichiro; NAKAO, Yuki; HIROCHI, Sakie; SHINDO, Mitsuno; KIMURA, Masahiro; UCHIDA, Yoshiki; TAMAKI, Makoto
- 1PB-018** Syntheses and Properties of Cycloundecapeptides Related to Gramicidin S with a Novel Turn Structure (Toho Univ.) SASAKI, Ichiro; HUIJITA, Shingo; SHINDO, Mitsuno; KIMURA, Masahiro; UCHIDA, Yoshiki; TAMAKI, Makoto

Other

- 1PB-019** Synthesis of novel naphthofuranone chemiluminescent substances and the luminescence activity (Univ. of Electro-Communications) SARADA, Shuichi; KIYAMA, Masahiro; HAMA, Kazutoshi; MAKI, Shojiro; HIRANO, Takashi; NIWA, Haruki
- 1PB-020[†]** Study on the bioluminescence mechanism of luminous mushroom, *Mycena chlorophos*; Relationship between the light emission and metal ions (Univ. of Electro-Communications) MORI, Kenichi; KOJIMA, Satoshi; NIITSU, Hisashi; MAKI, Shojiro; HIRANO, Takashi; NIWA, Haruki
- 1PB-021** Attempt on solubilization of the luciferase from the luminous earthworm, *Pontodrilus matsushimensis* (Univ. of Electro-Communications) TAKEUCHI, Atsunobu; KOJIMA, Satoshi; MAKI, Shojiro; HIRANO, Takashi; NIWA, Haruki
- 1PB-022** Searching for bioactive compounds from symbiotic microorganisms (Ehime Univ.; Nippon Suisan Kaisha, Ltd.) YOKOO, Yoshitaka; SATO, Seizo; KURAMOTO, Makoto; UNO, Hidemitsu
- 1PB-023** Synthetic Study of Hynapene B-a Facile Route via Diels-Alder Reaction (Aoyama Gakuin Univ.) YOSHIDA, Jo; SUGIMURA, Hideyuki
- 1PB-024** The Structure activity relationship of defense toxin climacostol (Yonago national college of technology Department of Material Science) SETA, Kozue; MIYAMOTO, Akinori; TAHARA, Yuki; URUMA, Yoshiyuki; YOSHIOKA, Kouichi; DOE, Matsumi; USUKI, Yoshinosuke; IIO, Hideo
- 1PB-025** Studies on the novel synthetic methods of the phenylalanine derivatives (Graduate School of Science and Engineering, Iwaki Meisei Univ. DNP Fine Chemicals Co., Ltd.) KITAGOU, Yumi; UMEMURA, Kazuyuki; IKEDA, Shin; SUZUKI, Yoshinobu; TAKAHASHI, Yasuhiro

Material Chemistry

Synthesis

- 1PB-027** Synthesis of layer compounds by solvothermal treatment of cerium acetate (Graduate School of Engineering, Kyoto Univ.) SHIMAMURA, Kenichi; HOSOKAWA, Saburo; INOUE, Masashi
- 1PB-028** Preparation of Silicon Carbide Particles Containing Organic-Inorganic Composite Film Using The Alkoxysilane Including Adamantyl Group (Nagoya Municipal Industrial Research Institute) TSUGE, Hiroyasu; ONO, Satomi

- 1PB-029** Preparation of Lithium phosphate by Homogeneous precipitation method from Lithium chloride (Univ. of Tokai) HASHIMOTO, Kenshi; FUJITA, Kazumi; TOMITA, Koji; MATSUDA, Shota
- 1PB-030** Preparation and properties of Lithium carbonate by the Homogeneous Precipitation Method (5) (Univ. of Tokai) MATSUDA, Shota; FUJITA, Kazumi; TOMITA, Koji
- 1PB-031** One-pot synthesis of organophilic LDHs (layered double hydroxides) (NIMS) IYI, Nobuo; TAMURA, Kenji; YAMADA, Hirohisa

Inorganic Materials

- 1PB-032** Photocatalytic property of titanium dioxide coated with mesoporous silica (Fukuoka Inst. Technol.; NIMS) SHIMASAKI, Kotaro; YAMAUCHI, Yusuke; MIYAMOTO, Nobuyoshi
- 1PB-033** Fabrication and characterization of porous tin oxide by anodization. (Tohoku Univ.) IIMURA, Teruhiko; YAMAGUCHI, Akira; TERAMAE, Norio
- 1PB-034** Crystal growth and physical properties of scandium aluminum boride Sc₂AlB₆ (Kokushikan Univ.) OKADA, Shigeru; MORI, Takao; KUDOU, Kunio; SHISHIDO, Toetsu
- 1PB-035** Stabilization of calcium carbonate(vaterite) by using water-soluble polymer (Toin Univ. of Yokohama) MATSUURA, Hironori; FUKUDA, Kazushige; OYA, Kouzou; YOSHIDA, Haruka; OTANI, Wakana; TAKATA, Tomonori
- 1PB-036** Thermal stability and microstructure of La modified alumina catalytic support (Nagoya Institute of Technology, Ceramic Research lab.) OZAWA, Masakuni; NISIO, Yoshitoyo
- 1PB-037** oxygen storage capacity and sintering of alumina-supported ceria (Nagoya Institute of Technology, Ceramic Research lab. Univ.) OZAWA, Masakuni; HATTORI, Masatomo
- 1PB-038** Organic molecule modification of zinc oxide nanorods toward biosensors (Osaka Inst. Tech.) OGATA, Ken-ichi; KOIKE, Kazuto; SASA, Shigehiko; INOUE, Masataka; YANO, Mistuaki
- 1PB-039** Growth of KCo₂O₄ single crystals from KOH melt and effect of B₂O₃ addition (Gunma Univ.) OSADA, Hirokazu; KYOMEN, Toru; HANAYA, Minoru
- 1PB-040** Synthesis and characterization of inorganic nanofiber and nanoparticle by microwave reaction (Kitakyushu National College of Technology) YAMAMOTO, Kazuya; OTSUKA, Hideyuki; TAKAHARA, Atsushi; YAMADA, Kenji
- 1PB-041** Carbon Coating on Ceramic Particle Surface by Microwave Heating (Grad. School of Sci. and Tech., NIIGATA Univ.) ARIMITSU, Nozomi; UEMATSU, Kazuyoshi; ISHIGAKI, Tadashi; TODA, Kenji; SATO, Mineo
- 1PB-042** X-ray spectral observation and structural comparison of nanocrystalline manganese double oxides synthesized by different methods (Musashi Institute of Tech.; NIMS) EBA, Hiromi; SAKURAI, Kenji

Organic Hybrid Materials

- 1PB-043** Thermal diffusivity of n-alkanes and triacylglycerol by Fourier transform temperature wave analysis (Tokyo Inst. of Technology/Rigaku Co. Ltd) MORIKAWA, Junko; HASHIMOTO, Toshimasa; KISHI, Akira
- 1PB-044** Heat Storage Behavior of Hexabenzocoronene Derivatives (TOYOTA CENTRAL R&D LABS., INC.) TAKEUCHI, Hisato; OKANO, Takashi
- 1PB-045[†]** Construction of Antibody-Carbon Nanotube Hybrid Materials (Grad. Sch. Sci., Osaka Univ.) OI, Wataru; YUGAWA, Kojiro; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1PB-046** Biopolyurethane Using Softwood and Hardwood (Graduates School of Engineering Hokkaido Univ.) IZUMO, Kenji; FUKISHIMA, Masami
- 1PB-047** Halogen-bonding effects on the crystal structures and physicochemical properties for halogen-substituted ionic liquids (Chiba Univ., Graduate school of Advanced Integration Science) MUKAI, Tomohiro; NISHIKAWA, Keiko
- 1PB-048** Creation and Properties of PCBm Analogues Functionalized by Thienyl Group (Osaka Municipal Technical Research Institute) MORIWAKI, Kazuyuki; SHIMIZU, Daichi; MATSUMOTO, Fukashi; TAKAO, Yuko; OHNO, Toshinobu
- 1PB-049** Influence of mechanical property of rubber/clay nanocomposite by the clay particle (Iwate Univ.) TAKEDA, Naoki; HIRAHARA, Hidetoshi; AISAWA, Sumio; NARITA, Eiichi
- 1PB-050** Construction of a Polymer-Network Using a Self-Assembled Coordination Cages (TOYOTA CENTRAL R&D LABS., INC.) UMEMOTO, Kazuhiko; TAKEUCHI, Hisato; WATANABE, Osamu; NAKAMURA, Hiroshi; USUKI, Arimitsu
- 1PB-051** Preparation of Polymer/Hydroxyapatite Thin Films (The Univ. of Tokyo) NISHIMURA, Tatsuya; IMAI, Hirotaka; OAKI, Yuya; KATO, Takashi
- 1PB-052** Control of Calcium Carbonate Crystallization by Using Mutated Peptides of Crayfish (The Univ. of Tokyo) AKAIWA, Kei; YAMAMOTO, Yuya; OAKI, Yuya; NISHIMURA, Tatsuya; INOUE, Hirotaka; NAGASAWA, Hiromichi; KATO, Takashi
- 1PB-053** Control of Photoluminescence Wavelength of Fluorene Derivative Through H-bondings and Protonation (Univ. of Hyogo) MINAMI, Yuta;

LEE, Jeong-hwan; KAWATSUKI, Nobuhiro

- 1PB-054** Preparation of hybrids based on Naphthyl-containing silsesquioxane with europium complexes and their luminescent properties (Osaka Electro-Commun. Univ., Osaka Munic. Tech. Res. Inst., Japan Sci. and Tech. Agency, Nara Inst. of Sci. and Tech.) ITO, Kazuya; WATASE, Seiji; HAMADA, Takashi; HASEGAWA, Yasuchika; NISHIOKA, Noboru; MATSUKAWA, Kimihiro
- 1PB-055** Thin film fabrication of gold-hybrid coordinated by phosphine ligand containing alkoxy silane group and their luminescent properties (Osaka Munic. Tech. Res. Inst., Osaka Electro-Commun. Univ., Japan Sci. and Tech. Agency, Nara Inst. of Sci. and Tech.) WATASE, Seiji; KITAGAWA, Shota; ITO, Azuya; HAMADA, Takashi; HASEGAWA, Yasuchika; NISHIOKA, Noboru; MATSUKAWA, Kimihiro

Polymer

- 1PB-056** Preparation of Piezoelectric Materials Based on Polyurea (R & D center, Soken Chemical & Engineering Co. Ltd.) KANEKO, Ryosuke; TSUGE, Hisanao
- 1PB-057** Depolymerization of the Sulfated Polysaccharides under Hydrothermal Conditions (Tottori Univ.; Tottori Institute of Industrial Technology; Koyo Chemical Co., Ltd.; Kaisanbutu No Kimuraya. Ltd.; Research Center for Bioscience and Technology, Tottori Univ.) HAYASHI, Tetsuya; MORI, Daiki; TAKATORI, Masaki; SATO, Kimihiko; YOSHIDA, Shinichi; KAWAMOTO, Hitoshi; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 1PB-058** Preparation of metal absorbable epoxy monolith (Osaka Municipal Technical Research Institute) MATSUKAWA, Kimihiro; YANAGIMOTO, Maki; WATASE, Seiji; TAMAI, Toshiyuki; MASUYAMA, Araki
- 1PB-059** The utility of sulfonic acid catalysts for silane water-crosslinked network formation in the ethylene-propylene copolymer system (MORESCO) ADACHI, Kenta; HIRANO, Tomoyuki

Carbon

- 1PB-060** Crystal structure of SPS carbon materials with anisotropy (Nagaoka National College of Technology; Gunma National College of Technology; Gunma Industrial Technology Center) HOSHII, Shinsuke; KOJIMA, Akira; GOTO, Masahiro
- 1PB-061** The photochemical and thermal reduction of graphite oxide thin layer to graphene (Department of Material and Life Chemistry, Faculty of Engineering, Kanagawa Univ.) KOIDE, Yoshihiro; YOSHINO, Shogo; MACHIDA, Kohei; MIYAGAWA, Takaaki
- 1PB-062** Effects of Addition KOH on Liquid-phase Synthesis of Highly Aligned Carbon Nanotubes. (Tokyo Univ. of Science) YAMAGUCHI, Yoshihiro; YAMAGIWA, Kiyofumi; TAKEUCHI, Taneharu; KIKITUTSU, Tomoka; YAMASHITA, Shunsuke; SAITOU, Morihiko; KUWANO, Jun
- 1PB-063[#]** Synthesis and properties of functional carbon nanosheet composites (National Institute of Advanced Industrial Science and Technology (AIST)) HU, Zhong-liang; WANG, Zheng-ming; HATORI, Hiroaki
- 1PB-064** Porous carbon materials containing Ru and Pd nanoparticles made from graphite oxide (Okayama Univ., Industrial Technology Center of Okayama Pref.) GOTOH, Kazuma; MIYAZAKI, Yuki; KAWABATA, Koji; FUJII, Eiji; KINUMOTO, Taro; ISHIDA, Hiroyuki
- 1PB-065** Band structure analysis of nitrogen doped amorphous carbon thin film (Tokyo Inst. of Tech.) INOUE, Yasunori; KATO, Hideki; NAKAJIMA, Kiyotaka; HARA, Michikazu

Thin Film

- 1PB-066** Optical properties change of SnO₂ thin-films under operating conditions of gas sensor (Tokyo Univ. A & T) MATSUSHIMA, Yuta; MAEDA, Kazuyuki
- 1PB-067** Influences of Substrate Surface Roughness and Surface Free Energy on Morphologies of Organic Semiconductor Thin Films Prepared by a Vacuum Deposition (Univ. of Yamanashi) UCHIDA, Takuya; KAGATA, Tsubasa; YAN, Hu; IRIYAMA, Yu; OKUZAKI, Hidenori

Fine-particle

- 1PB-068** Quaternary Ammonium Salts with a Thermotropic Liquid-Crystalline Moiety: Effect as Template on Synthesis of Silica Particles (IMRAM, Tohoku Univ.) SEINO, Yuki; KANIE, Kiyoshi; NAKAYA, Masafumi; MURAMATSU, Atsushi
- 1PB-069** Synthesis of poly(3-heptylpyrrole) nanoparticle under supercritical carbon dioxide condition. (Faculty of Sci. and Technol., Tokyo Univ. of Sci.) ISAJI, Yuka; YOKOTA, Yasuhiro; MURATA, Hidenori; YUASA, Makoto
- 1PB-070** Synthesis of oxidant being usable in supercritical carbon dioxide (Faculty of Sci. and Technol., Tokyo Univ. of Sci.) OOKATSU, Motohiro; ARAKI, Taro; MURATA, Hidenori; YUASA, Makoto
- 1PB-071** Organic-Inorganic Hybrid Nanorods: *in-situ* Synthesis of Liquid Crystal-Modified TiO₂ Nanoparticles (IMRAM, Tohoku Univ.) KIMIJIMA, Takeshi; KANIE, Kiyoshi; CHOWDHURY, Rainy;

MURAMATSU, Atsushi

- 1PB-072** Development of liquid crystallinity superlattice by hybridization of Gold Nanoparticles Modified by Carboxylic acid with Organic Dendrons (IMRAM Tohoku Univ.; TOYOTA Central R&D Labs. Inc.; The Univ. of Sheffield) MATSUBARA, Masaki; KANIE, Kiyoshi; MURAMATSU, Atsushi; NAKAMURA, Hiroshi; ZENG, Xiangbing; UNGAR, Goran
- 1PB-073** Chemical Synthesis of SmCo₅ Alloy Magnetic Nanoparticles and Their Magnetic Properties. (Graduate School of Science and Engineering, Tokyo Univ. of Science, Yamaguchi) TOKONAMI, Shihō; WATANABE, Tatsuya; TOSHIMA, Naoki
- 1PB-074** Preparation of cage type silsesquioxane with terminal phosphonate groups and hybrid materials with metals (Tokyo Univ. A & T) HARADA, Kenji; MATSUSHIMA, Yuta; MAEDA, Kazuyuki

Functions of Materials

Biological Function

- 1PB-077** Development of the novel magnetic nanoparticles exhibiting dendritic accumulation onto cancer cell surface for thermal ablation therapy (2) (National Institute of Advanced Industrial Science and Technology Research Center of Advanced Bionics) YAMADA, Keichi; TAKAGI, Toshiyuki; HASHIMOTO, Shinji; YANAGIHARA, Hideto; KITA, Eiji; KANAMORI, Toshiyuki; ODA, Tatsuya; OHKOHCHI, Nobuhiro
- 1PB-078** Gene delivery system use of sonoporation with gene carriers responding to cellular signals (Kyushu Univ.; Graduate School of Engineering) TSUCHIYA, Akira; NARITOMI, Yuki; KANG, Jeong-hun; MORI, Takeshi; NIIDOME, Takuro; ENDO, Yoko; NEGISHI, Yoichi; SUZUKI, Ryo; MARUYAMA, Kazuo; KATAYAMA, Yoshiaki
- 1PB-079** Inhibition of melanization by hydroxypyridinones (Faculty of Biomedical Engineering, Toin Univ. of Yokohama; PIAS Co.; Faculty of Science and Technology, Seikei Univ.) TOKUOKA, Yoshikazu; MARUYAMA, Katsuhiko; YOSHIDA, Yasuhiro; SANO, Takakazu; NAKAOJI, Koichi; HAMADA, Kazuhiko; KATOH, Akira; MATSUMURA, Yuriko

Photochromism

- 1PB-080** Study on Structure and Properties of Photochromic Terarylene Derivatives having Intramolecular Hydrogen Bonding (Nara Institute of Science and Technology, Graduate School of Materials Science, NAIST) FUKUMOTO, Sayo; KAWAI, Shigekazu; KUTSUNIGI, Yuichiro; NAKAGAWA, Hisako; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 1PB-081** Regulation of peptide conformation using vis-sensitive azobenzenes (Osaka Univ., ISIR) SAWADA, Shinjiro; KAIHATSU, Kunihiko; KATO, Nobuo
- 1PB-082[†]** Syntheses and Photochromic Properties of 2-amino-4, 5-diarylthiazole Derivatives (Nara Institute of Science and Technology, Graduate School of Materials Science, NAIST) KAWAI, Shigekazu; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 1PB-083** Photochromism and structure of cycloalkylideneindandione derivatives (Kansai Univ.) NAKAI, Yuki; YOKOYAMA, Masashi; TANAKA, Koichi
- 1PB-084** Synthesis and crystalline photochromism of macrocyclic salicylideneamine derivatives (Kansai Univ.) SHIMOURA, Ryota; CAIRA, Mino; TANAKA, Koichi
- 1PB-085** Substituent Effect on Reaction Quantum Yields of Bis(2-thienyl) perfluorocyclopentenes (Ryukoku Univ.; Osaka City Univ.; Mitsubishi Chemical Group Science and Technology Research Center) UCHIDA, Kingo; SUMINO, Hibiki; KOBATAKE, Seiya; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro
- 1PB-086** Photochromism of diarylethene derivatives having anthracene groups (Rikkyo Univ.; PRESTO, JST) OHARA, Hiroki; MORIMOTO, Masakazu; IRIE, Masahiro
- 1PB-087** Single-Crystalline Photochromism of Diarylethene Derivatives Having Perfluorophenyl Groups (Rikkyo Univ.; PRESTO, JST) YAMAGUCHI, Kohei; MORIMOTO, Masakazu; IRIE, Masahiro
- 1PB-088** Application to secret display materials of a photochromic diarylethene in polymer matrix (Graduate School of Engineering, Osaka City Univ., PRESTO, JST) IMAGAWA, Hiroyuki; KOBATAKE, Seiya
- 1PB-089** Diastereoselectivity of bisbenzothienylethenes having fluorine-containing chiral substituent (Yokohama National Univ) HASEGAWA, Tomohiko; UBUKATA, Takashi; YOKOYAMA, Yasushi
- 1PB-090** Preparation and Photomobile Properties of Crosslinked Liquid-Crystalline Polymer Films with Discotic Phases (Chemical Resources Laboratory, Tokyo Institute of Technology) MIYASHITA, Hirokazu; MAMIYA, Jun-ichi; KINOSHITA, Motoi; YU, Yanlei; IKEDA, Tomiki
- 1PB-091** Photochromism and Dielectric Property of Diarylethene Single Crystals with Hydrogen-Bonding Networks (Rikkyo Univ.; PRESTO, JST) SUZUKI, Masafumi; MORIMOTO, Masakazu; IRIE, Masahiro
- 1PB-092** Synthesis of 1-oxazolyl-2-vinylcyclopentene derivative (Niihama National College of Technology) TAKAMI, Shizuka; OOKAWA, Taira; ITO, Daisuke; KAJI, Sho
- 1PB-093** Synthesis of novel photochromic 4,5-bisarylthiazoles (Yokohama National Univ.) ZHANG, Chenxia; OKUMURA, Shouhei; UBUKATA,

Takashi; YOKOYAMA, Yasushi

- 1PB-094** Study on the Degradation Mechanism of Fast Photochromic HABI (Aoyama Gakuin Univ.) HATANO, Sayaka; ABE, Jiro
- 1PB-095** Synthesis and photochromic properties of viologen derivatives substituted by hetero-functional groups (Univ. of Yamanashi) ORII, Hiroki; GUO, Haocheng; KUWABARA, Tetsuo
- 1PB-096** Synthesis of viologen derivatives capable of interacting with metal ions and their photoreduction properties (Interdisciplinary Graduate School of Medical and Engineering, Univ. of Yamanashi) IMAMURA, Yuuichi; KUWABARA, Tetsuo; SATO, Tetsuya
- 1PB-097** Tetrathienylethenes responding to photoexcitation and electron transfer (Grad. Sch. of Eng., Osaka Pref. Univ.; Grad. Sch. of Sci., Tohoku Univ.) KAWABE, Akinori; IKEDA, Hiroshi; KISHIGAMI, Nao; SAKAI, Azusa; NAMAI, Hayato; MIZUNO, Kazuhiko
- 1PB-098** Synthesis of a Diarylthiazole Derivative Having Imidazolium Unit as an Aryl Group and its Photochromic Properties (Nara Institute of Science and Technology, Graduate School of Materials Science, NAIST) KOBAYASHI, Shouhei; KAWAI, Shigekazu; KUTSUNIGI, Yuichiro; NAKAGAWA, Hisako; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

Photochemical Function

- 1PB-099** Photoexcited States of Organic UV-A Absorber Butylmethoxydibenzoylmethane (Yokohama National Univ.) KIKUCHI, Azusa; OGUCHI, Nozomi; YAGI, Mikio
- 1PB-100** Photoexcited States of Organic Ultraviolet Absorber:2-Methylphenyl 4-Methoxycinnamate (Yokohama National Univ.) YUKIMARU, Shinsuke; KIKUCHI, Azusa; YAGI, Mikio
- 1PB-101** Photoexcited States and Deactivation Processes of Organic UV Absorber Ethyl Methoxycinnamate (Yokohama National Univ.) MORIYA, Masahito; KIKUCHI, Azusa; YAGI, Mikio
- 1PB-102** Synthesis and Photochemical Properties of Photoactive Polymeric Hexaarylbiimidazole Derivatives (Yokohama National Univ.) KOUZAI, Hiroaki; KIKUCHI, Azusa; YAGI, Mikio
- 1PB-103** Dissolved Oxygen Sensor Based on Luminescence of Metal Complex (Yokohama National Univ.; The Tsurumi Seiki Co. Ltd) IZAWA, Shouichi; KIKUCHI, Azusa; YAGI, Mikio; TAKAKUSAKI, Mitsuhiro; OIKE, Takayasu

Energy Conversion Function

- 1PB-104** Dinitrogen fixation using titanium oxide/PEDOT junctions - Effect of properties of titanium oxide (Chiba Univ., Chisso Petrochem. Co.) KANASUGI, Daiki; SAKABE, Ichiro; HOSHINO, Katsuyoshi
- 1PB-105** Thermoelectric Properties of Hybrid Materials with Bismuth Nanoparticles (Tokyo Univ. of Science, Yamaguchi) KIMURE, Haruka; IMAI, Masahiro; ITAHARA, Hiroshi; ASAH, Ryoji; TOSHIMA, Naoki
- 1PB-106** Novel Synthesis of Bismuth(III) Telluride Nanoparticles and Their Hybridization with Polyaniline (Tokyo Univ. of Science, Yamaguchi) IMAI, Masahiro; TOSHIMA, Naoki

Electronic, Magnetic, Optical Functions

- 1PB-107** C60 Monolayer for Transistor Applications (Dept. of Chemistry, Columbia Univ.) ITOH, Yoshimitsu; KIM, Bumjung; GEARBA, Raluca, Ioana; TREMBLAY, Noah; PINDAK, Ronald; MATSUO, Yutaka; NAKAMURA, Eiichi; NUCKOLLS, Colin
- 1PB-108** Magnetoelectric Effect in Ferroelectric All-Organic Radical Liquid Crystals (Graduate School of Human and Environmental Studies, Kyoto Univ.) UCHIDA, Yoshiaki; NODA, Yohei; SUZUKI, Katsuki; TAMURA, Rui; YAMAUCHI, Jun
- 1PB-109** Synthesis of Novel Second-Order Nonlinear Optical Materials Introduced Divalent Cation (Dept. of Chem. and Biochem., FNCT) UMEZAWA, Hirohito; TAKAGI, Shogo; OKADA, Shuji
- 1PB-110** Two-photon absorption behavior of conjugated ketone derivatives in solid state (Graduate School of Medicine, Yamaguchi Univ.) TANAKA, Yuki; OHSHIGE, Ryota; HIRAKAWA, Shoichiro; KAWAMATA, Jun; ASAH, Takanao; NOZAKI, Koji
- 1PB-111** Synthesis of azobenzene derivatives with a high two-photon absorption efficiency (Univ. of Yamaguchi, department of science) NAKAGAWA, Kenta; SUZUKI, Yasutaka; HIRAKAWA, Syoichiro; MURAFUJI, Toshihiro; KAWAMATA, Jun
- 1PB-112[†]** Optical properties of liquid crystals containing naphthalene (Univ. of Tsukuba) MORI, Takeshi; KIJIMA, Masashi

Separation Function

- 1PB-113** Withdrawn
- 1PB-114** Preparation of the woody biomass functional material and its analytical utilization. (Dept. of applied chemistry college of engineering chubu university) MIYACHI, Yasutaka; HIBINO, Akira; TOYONAGA, Daichi; MIYAUCHI, Toshiyuki; MORI, Hidehiko
- 1PB-115** The synthesis and functional evaluation of phosphorus selective adsorption materials by cellulose (Kochi Prefectural Industrial Technology Center) OKAZAKI, Yuka; YAMASHITA, Minoru; SUMIDA, Takashi;

KAWAKITA, Hirohisa; SHINOHARA, Hayato; HUKUTOMI, Takashi

- 1PB-116** NO_x adsorption of MgAl₂O₄ powder fabricated by co-precipitation method (Kokushikan Univ.) KAMAMOTO, Kiyomi; OKADA, Shigeru; SHISHIDO, Toetsu; KUDO, Kunio
- 1PB-117** Selective removal of heavy metal ions into hydrophilic gel phase (Faculty of Engineering, Kanagawa Univ.) ASOU, Yasuhiro; NAKANO, Yasuhiro; KUROKAWA, Tatsuo; IGAWA, Manabu
- 1PB-118** Separation of adenine, AMP and ATP by chromatography chip with nanometre-order diameter columns inside porous anodic alumina using an aqueous mobile phase (Toyama Institute of Health) YAMASHITA, Tomohisa; KODAMA, Shuji; KEMMEI, Tomoko; OHTO, Mikiya; NAKAYAMA, Eriko; MURAMOTO, Tatsuya; TERAMAE, Norio; YAMAGUCHI, Akira; TAKAYANAGI, Nobutaka
- 1PB-119** Adsorption behavior of Cu(II) and Co(II) ions to a self-assembled monolayers formed on the surface of silica gel (Fukushima National College of Tech.) HAGIRI, Masahide; OHIRA, Yurie; TANNO, Yuko; TOI, Masahiro

Applications of Materials

Sensor

- 1PB-121** Characteristics of optical waveguide mode within mesoporous silica film fabricated on the aluminum thin film (Tohoku Univ.) ARAFUNE, Hiroyuki; HOTTA, Kazuhiro; YAMAGUCHI, Akira; TERAMAE, Norio
- 1PB-122** Detection of biomolecules using porous silicon based photonic crystal (Tokyo Institute of Technology) TSUJI, Kazuhiro; TANAKA, Yasuhiro; ENDO, Tatsuro; YANAGIDA, Yasuko; HATSUZAWA, Takeshi
- 1PB-123** Development of label-free DNA sensor based on a localized surface plasmon resonance (Tokyo Institute of Technology) IKEDA, Daisuke; ENDO, Tatsuro; Ha Minh, Hiep; SAITO, Masato; YANAGIDA, Yasuko; HATSUZAWA, Takeshi; TAMIYA, Eiichi

Display

- 1PB-124** Response Time of Liquid-Crystalline Device Fabricated by Doing with Poly(γ -Cyclodextrin)-Stabilized Silica Nanoparticles (Tokyo Univ. of Science, Yamaguchi) SHIRAISHI, Yukihide; OKAMURA, Nobuaki; NISHIDA, Naoto; KOBAYASHI, Shunsuke; TOSHIMA, Naoki
- 1PB-125** Development of organic-inorganic hybrid films containing latent pigment and soluble Ni dithiol complex for PDP. (Shibaura Institute of Technology, Faculty of engineering, Dept. of Applied of Chemistry) YONEZAKI, Ayumi; OHHIRA, Mari; OHISHI, Tomoji
- 1PB-126** Synthesis of Pyridyl Substituted Bis(1,3,5-triazine)Derivatives for OLED Application (Sagami Chemical Research Center) AIHARA, Hidenori; TANAKA, Tsuyoshi; HISAMATSU, Yosuke; OGATA, Akitoshi; MIYASHITA, Yuichi
- 1PB-127** Electrochromic Properties of Polysilsesquioxane Having Pendant Viologen (Hiroshima Univ.) TOKITA, Daisuke; IMAE, Ichiro; OUYAMA, Yosuke; KOMAGUCHI, Kenji; HARIMA, Yutaka; OHSHITA, Joji
- 1PB-128** Luminescent properties of a new long-lasting phosphorBa₂SnO₄:Sm³⁺ (Faculty of Engineering, Niigata Univ.) HENMI, Kazuya; UEMATSU, Kazuyoshi; ISHIGAKI, Tadashi; TODA, Kenji; SATO, Mineo
- 1PB-129** Investigation of patterning process of Ph-SiO₂ film containing latent pigments by using photo and microwave irradiation (Shibaura Institute of Technology, Faculty of Engineering) KIKUCHI, Naho; OHISHI, Tomoji
- 1PB-130** Preparation of siloxane-modified alicyclic polyimide and its application to flexible display (Shibaura Institute of Technology, Faculty of Engineering) MIZOBUCHI, Hiroaki; OHISHI, Tomoji
- 1PB-131** Synthesis and Emission Behavior of Phosphorescent Liquid-Crystalline Platinum(II) Complexes with Tetradentate N₂O₂ Ligands (Chemical Resources Laboratory, Tokyo Institute of Technology) MATSUURA, Yoshihiro; NAM, Yunmi; KINOSHITA, Motoi; IKEDA, Tomiki

Electronic parts

- 1PB-132** Boron-doped diamond film for high-performance electrical contact (KIT) HAMAYAMA, Tomoo; TSUBOTA, Toshiki; MURAKAMI, Naoya; OHNO, Teruhisa; SUENAGA, Tomoko

Optical material

- 1PB-133** Development of low-reflectivity black coating (TOPCON CORPORATION) KOJIMA, Tatsuya; OOKUBO, Takuro; TAKAHASHI, Takashi

Secondary battery

- 1PB-134** Synthesis of spinel type lithium ion conductors and application to lithium ion secondary batteries (Shizuoka Univ.) KOIWA, Nobuaki; TOMITA, Yasumasa; KOBAYASHI, Kenkichi
- 1PB-135** FeOCl as a cathode active material of all solid state lithium-ion secondary battery (Shizuoka Univ.) TANAKA, Ryohei; TOMITA, Yasumasa; KOBAYASHI, Kenkichi

Solar cell

- 1PB-136** Influence of the terminal group of P3HT in bulk heterojunction solar cells on power conversion efficiency of P3HT/PCBM (Daito Chemix Corp., Graduate School of Engineering, Osaka Pref. Univ.) KUWAMURA, Katsuji; UCHIDA, Makiko; SORANAKA, Kazuyuki; NAKAYAMA, Yoshinori; TSUJISAWA, Takuya; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki
- 1PB-137** Study of Trimethylsilyl-substituted Porphyrin Carboxylic Acids as Sensitizing Dye for Dye-sensitized Solar Cell (Graduate School of Engineering, Gunma Univ.) FUJIMURA, Emi; KAKIAGE, Kenji; KYOMEN, Toru; HANAYA, Minoru
- 1PB-138** Aggregation of Naphtho[1,2-d]oxazol-type Dyes with TEMPO Radical Substituents Adsorbed on TiO₂ Nanoparticle : An ESR Study (Hiroshima Univ.) KUSHIMOTO, Kohei; OYAMA, Yousuke; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka
- 1PB-139** Synthesis of a ruthenium complex having a 2,6-di(quinolin-2-yl)pyridine derivative as a ligand and its application to dye-sensitized solar cells (Natl.Inst.of Advanced Industrial Science and Tecnology) ONOZAWA-KOMATSUZAKI, Nobuko; YANAGIDA, Masatoshi; FUNAKI, Takashi; HIMEDA, Yuichiro; KASUGA, Kazuyuki; SAYAMA, Kazuhiro; SUGIHARA, Hideki
- 1PB-140** Application of Shell-like Carbon to Counter Electrode for Dye-Sensitized Solar Cells and evaluation of their photovoltaic performance (Musashi Institute of Technology) NAKAJIMA, Kanako; TAKAHASHI, Masashi; KOBAYASHI, Koichi

Fuel cell

- 1PB-141** Oxygen reduction property of metal complex as a Cocatalyst to Pt for the cathode of PEFC (Faculty of Sci. and Technol., Tokyo Univ. of Sci.) WADA, Masakazu; ARIKAWA, Shohei; MORI, Daisuke; MURATA, Hidenori; YUASA, Makoto
- 1PB-142** Design and Characterization of Proton-Conducting Ionic Liquids (IV)-Ionic liquid / polymer composite membranes- (Department of Materials&Life Sciences, Sophia Univ.) KOUSA, Yuri; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro
- 1PB-143** Synthesis and Characterization of Polybenzimidazole Derivatives for Mid-Temperature Polymer Electrolyte Fuel Cell (Department of Materials and Life Sciences, Sophia Univ.) OHMORI, Hiroki; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro
- 1PB-144** Shell-core-type Proton Conducting Electrolytes in the TiO₂-P₂O₅ System for Intermediate Temperature Fuel Cells (Tokyo Univ. of Science) SAKAI, Naoki; TANIMOTO, Satoshi; HIRUKAWA, Shunsuke; SHIRAI, Takaaki; KUSANO, Tomohiro; TATEISHI, Hikaru; SAITO, Morihiro; KUWANO, Jun; SHIROISHI, Hidenobu
- 1PB-145** Electroalytic Properties of WC-based Non-oxides for Oxygen Reduction (Tokyo Univ. of Science) SUZUKI, Kosuke; KAWAI, Hideki; KONISHI, Takayuki; OHNO, Naotaka; SAITO, Morihiro; KUWANO, Jun; SHIROISHI, Hidenobu

Dye and pigment

- 1PB-146** Preparation of microsize encapsulated latent pigments by the sol-gel method and thin film formation technique (Shibaura Institute of Technology, Faculty of Engineering, Dept. of Applied Chemistry) KAWAMURA, Takaki; OHISHI, Tomoji
- 1PB-147** Development of high efficiency synthetic method using microwave irradiation of latent pigment for color filter and thin film containing it (Shibaura Institute of Technology, Faculty of Engineering) ONO, Akie; OHISHI, Tomoji
- 1PB-148** Relation between the Crystal Structure and Solid-state Fluorescence of the Heteropolycyclic Anthraquinoid-type Fluorescent Dyes (Kochi Univ.) UENO, Tomonori; ITAKURA, Akihiro; YOSHIDA, Katsuhira
- 1PB-149** Heteropolycyclic Phenazine-type Fluorescent Dyes: Molecular Design, Synthesis, and Photophysical Properties of the Related Compounds. (Kochi Univ.) OGI, Yoshinobu; SAKAMOTO, Takehiro; YOSHIDA, Katuhira
- 1PB-150** Optical characteristics of pigments that have color conditioning effects on aged lips. (Nippon Menard Cosmetic Co.Ltd) TSUBATA, Kazuyoshi; ISHIGURO, Youhei; ASANO, Hiroyuki; HIROSE, Osamu; NAKATA, Satoru

Nano-particle

- 1PB-151** Preparation and Properties of Fluoroalkyl End-capped Oligomers/Hydroxylated Nanocomposites (Hiroasaki Univ.; INAX Corp.) SEKIGUCHI, Shigeki; KAKEHI, Hiroshi; MIURA, Masashi; ISU, Norifumi; SATOH, Yusuke; SAWADA, Hideo
- 1PB-152** Host-Guest Interaction of Cross-linked Fluoroalkyl End-capped Oligomeric Nanocomposites Possessing Aromatic Siloxane Segments as Core Units with Aromatic Compounds with Aromatic Compounds (Hiroasaki Univ.; Nippon Chemical Industrial Co., Ltd.) MATSUKI, Yusuke; GOTO, Yuki; MUGISAWA, Masaki; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

1PB-153 Preparation and Application of Novel Fluorinated Vinyltrimethoxysilane Oligomeric Nanoparticles-Encapsulated Fullerene (Hiroasaki Univ.; Nippon Chemical Industrial Co., Ltd.) MUGISAWA, Masaki; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

1PB-154 Dispersion of Pt(II)-Porphyrin Complexes into Water by the Use of Novel Cross-linked Fluoroalkyl End-capped Oligomeric Nanoparticles (Hiroasaki Univ.) MUGISAWA, Masaki; GOTO, Yuki; SAWADA, Hideo

1PB-155 Preparation of Novel Cross-linked Fluorinated Cooligomers/Palladium Nanocomposites (Hiroasaki Univ.; Nippon Chemical Industrial Co., Ltd.) KIJIMA, Tetsushi; MUGISAWA, Masaki; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

1PB-156 Preparation and Thermal Stability of Fluorinated Oligomer/Hibitane/Silica Composites (Hiroasaki Univ.) KARIYA, Takuro; MUGISAWA, Masaki; SAWADA, Hideo

1PB-157 Modification of Polyethylene by the Use of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomeric Nanoparticles (Hiroasaki Univ.) SUZUKI, Toshihiro; SAWADA, Hideo

1PB-158 Preparation and Unique Pyrolytic Characteristic of Fluorinated Oligomers/Silica Nanocomposites-encapsulated Cetylpyridinium Chloride (Hiroasaki Univ.) TASHIMA, Tsukasa; SAWADA, Hideo

1PB-159 Preparation of Fluorinated Cooligomer/Gold Nanocomposites Possessing the Lower Critical Solution Temperature Characteristic (Hiroasaki Univ.) TAKAHASHI, Keigo; MUGISAWA, Masaki; SAWADA, Hideo

1PB-160 Interaction of Water-soluble Organic Dyes with Fluorinated Cooligomer Possessing the Lower Critical Solution Temperature Characteristic (Hiroasaki Univ.) TAKAHASHI, Keigo; MUGISAWA, Masaki; SAWADA, Hideo

1PB-161 Preparation of Novel Fluorinated Oligomer/Ionic Liquids Nanocomposites (Hiroasaki Univ.; Nippon Chemical Industrial Co., Ltd.) OKADA, Yoshitaka; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

1PB-162 Gelation of Ionic Liquids with Fluoroalkyl End-capped Oligomers/Silica Nanocomposites (Hiroasaki Univ.; Nippon Chemical Industrial Co., Ltd.) OKADA, Yoshitaka; ABIKO, Astushi; KODAMA, Shun; SUGIYA, Masashi; SAWADA, Hideo

1PB-163 Preparation and Applications of Novel Cross-linked Fluoroalkyl End-capped Oligomeric Nanoparticles Possessing Double Decker Type Silsesquioxane Segments as Core Units (Hiroasaki Univ.; Chisso Petrochemical Corp.) GOTO, Yuki; YOSHIDA, Kazuhiro; SAWADA, Hideo

1PB-164 Preparation and Applications of Novel Cross-linked Fluoroalkyl End-capped Oligomeric Nanocomposites Possessing Polyimide Segments as Core Units (Hiroasaki Univ.; Chisso Corp.) GOTO, Yuki; OTSUKA, Nobuyuki; SAWADA, Hideo

1PB-165 Preparation and Applications of Novel Fluorinated Oligomers/Titanium Oxide Nanocomposites by the Use of Titanium Oxide Nanoparticles (Faculty of Education, Hiroasaki Univ.; Graduate School of Science and Technology, Hiroasaki Univ.; INAX) SAWADA, Eri; KARIYA, Takuro; MUGISAWA, Masaki; KAKEHI, Hiroshi; MIURA, Masashi; ISU, Norifumi; SATOH, Yusuke; CYOUNAN, Yukiyasu; SAWADA, Hideo

1PB-166 Surface Modification of Glass with Fluorinated Silane Coupling Agent/Ionic Liquid Nanocomposites (Hiroasaki Univ.; Nissan Motor Corp.) ABIKO, Atsushi; OKADA, Yoshitaka; FUKUI, Takayuki; SHIBUKAWA, Toshiya; SAWADA, Hideo

Surface and interface

- 1PB-167** Synthesis and Evaluation for Copper Electro Plating 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; MATSUBARA, Toshiaki; SUGIMOTO, Masaharu; HONMA, Hideo; KOUZAI, Hiroaki

Life science

- 1PB-168** Construction of a cloning vector composed of photoresponsive α -Dideoxyuridine derivative (SC World,Inc.; JAIST; Innovation Plaza Ishikawa, JST) NITTA, Yukari; MATSUZAKI, Tomoya; OGINO, Masayuki; FUJIMOTO, Kenzo

Environmental material

- 1PB-169** Synthesis and evaluation of polymers for photo-responsive recycling system (Inst. of Industrial Science, Univ of Tokyo.; Grad. Course of Engineering, Musashi Inst. of Tech.) WATANABE, Akane; ISHIDA, Kazuki; KOBAYASHI, Koichi; YOSHIE, Naoko

High performance material

- 1PB-170** Synthesis of transparent poly(arylene ether ketone)/inorganic nanoparticle hybrids (AIST, MCRC) IMAI, Yusuke; TERAHARA, Atsushi; MATSUI, Keitaro; HAKUTA, Yukita; HAYASHI, Hiromichi; UENO, Nobuhiko
- 1PB-171** Preparation of siloxane-modified epoxy film containing latent

pigment and its application to recycle bottle (Shibaura Institute of Technology, Faculty of Engineering, Department of Applied Chemistry) KATANO, Akihiro; OHISHI, Tomoji

1PB-172 Development of Anti-fingerprint hard coating (TOPCON CORPORATION) OOKUBO, Takuro; KOJIMA, Tatsuya; TAKAHASHI, Takashi

Friday, March 27, PM

(15 : 00~16 : 30)

Colloid and Interface Chemistry

Fine particle·Nanoparticle

1PC-001 Rheological behavior of bowl-shaped particle suspensions (Yamagata Univ.) IKEDA, Takehide; NONOMURA, Yoshimune; SUGIMOTO, Masataka; TANIGUCHI, Takashi

1PC-002 Synthesis of Nickel Sulfide Nanoparticles by Using Thiourea Derivatives as Sulfur Source (Osaka Municipal Technical Research Institute) KASHIWAGI, Yukiyasu; YAMAMOTO, Mari; NAKAMOTO, Masami

1PC-003 Copper nanoparticles with anti-oxidation property and their application to wiring and joining (Osaka Municipal Technical Research Institute) NAKAMOTO, Masami; YAMAMOTO, Mari; KASHIWAGI, Yukiyasu; NAGAOKA, Toru; MORISADA, Yoshiaki; FUKUSUMI, Masao

1PC-004 Synthesis of Ag-Pd alloy nanoparticles and application to conductive film with anti-ionic migration (Osaka Municipal Technical Research Institute) YAMAMOTO, Mari; KAKIUCHI, Hiroshi; KASHIWAGI, Yukiyasu; YOSHIDA, Yukio; NAKAMOTO, Masami

1PC-005 Preparation of Transition Metal Nanoparticles Using Hydrosilanes as Reductant and Application for Conductive Materials (Yamaguchi Pref. Industrial Technology Inst.; Tokyo Univ. of Science, Yamaguchi) IWATA, Arihiro; NISHIDA, Naoto; ISHIDA, Koichi; KIMURA, Nobuo; KINERI, Tohru; TOSHIMA, Naoki

1PC-006 Cyclodextrin-Stabilized Silica Nanoparticles: Synthesis and Functions for Liquid Crystal Displays (Tokyo Univ. of Science, Yamaguchi) SHIRAIISHI, Yukihide; SUGIHARA, Kiyohiro; OKAMURA, Nobuaki; NISHIDA, Naoto; TOSHIMA, Naoki

1PC-007 Synthesis of mono-dispersed polymer particles with poly(ethylene oxide) chain using RAFT agents. (Department of chemistry Kinki Univ.) SUENAGA, Yusaku; NAKAI, Takuya; KOBAYASHI, Natsuko

1PC-008 Formation of thin film of metal nanoparticle by spin-coat method (Tokyo Univ. of Agriculture and Technology) KURATA, Haruka; YAMADA, Mami

1PC-009 Redox response of Prussian blue complex nanoparticle thin film (Tokyo Univ. of Agriculture and Technology) YAMAGUCHI, Yohei; YAMADA, Mami

1PC-010 Preparation of organic nanoparticles for evaluation of newly developed nanoparticle chemical analysis system (RIKEN; SHIMADZU CORPORATION) KUDOH, Satoshi; TANEIKE, Yasuhito; ORII, Takaaki

1PC-011 Syntheses and characterizations of triangular gold nanoplates protected by cationic surfactants (Okayama Univ. Sci.) KIDA, Ryosuke; KATO, Yuya; TAKEZAKI, Makoto; TOMINAGA, Toshihiro

1PC-012 Development of Synthetic Procedure of Transition Metal Ion Doped CdS Nanoparticle (IMRAM, Tohoku Univ.) TANAKA, Itaru; NAKAYA, Masafumi; MURAMATSU, Atsushi

1PC-013 Effect of Particle Shape on the Spectroscopic Properties of Silver Nano-Particles Covered with Dye Aggregates (Univ. of Tsukuba) SATO, Tomoo; TAKASE, Yuko; KOBAYASHI, Yoshiyuki; KUMOOKA, Kenichi; TAKAIWA, Minori

1PC-014[#] Gold Nanoparticle Aggregates for Surface Enhanced Raman Scattering in DNA Detection (Japan Advanced Institute of Science and Technology) NGUYEN, Thuy Thi Bich; YOKOGAWA, Ryoko; YOSHIMURA, Yoshinaga; FUJIMOTO, Kenzo; KOYANO, Mikio; MAENOSONO, Shinya

1PC-015 Size and shape control of EuS nanocrystals based on the molecular structures of surface-protecting reagents. (Graduate School of Materials Science, Nara Institute of Science and Technology, NAIST) MIYAZAKI, Satoshi; HASEGAWA, Yasuchika; TANAKA, Atsushi; KAWAI, Tsuyoshi

1PC-016 Electrical conductivity of gold nanoparticles protected by thiols of different chain length (Okayama Univ. of Science) SHIBATA, Masahiro; TAKEZAKI, Makoto; TOMINAGA, Toshihiro

1PC-017 Novel Synthetic Routes to Biomolecule-Capped Gold Nanoparticles (RCAST, The Univ. of Tokyo) HIRAI, Yu; AIZAWA, Mamoru; SERIZAWA, Takeshi

1PC-018 Hydrogen storage property of metal nanoparticle assembly prepared using bridging ligands. (Department of Chemistry, School of Science, The Univ. of Tokyo) YAMAMOTO, Yuuki; YAMANOI, Yoshinori; YONEZAWA, Testu; NISHIHARA, Hiroshi; MINODA, Ai; MAEKAWA, Shunsuke; OOSHIMA, Shinji; KOBORI, Yoshihiro

1PC-019[#] Synthesis and characterization of Al-doped ZnO nanoparticles (Jpn. Adv. Inst. Sci. Tech.) TORAN, Tou Bietto; KITAMURA, Daisuke; YOSHIDA, Rie; MAENOSONO, Shinya

1PC-020 Synthesis and Optical/Dynamical Properties of CdTe Nanotubes

(Kwansei Gakuin Univ.; School of Science and Technology) HIGASHI, Shigeki; TAMAI, Naoto

1PC-021 blue/green/red light-emitting silicon nanocrystal- Relaxation process of photoexcited carrier in Si/SiO₂ core shell structure - (Department of chemistry, Hiroshima Univ.,N-BARD, Hiroshima Univ., PRESTO JST) TAMAMITSU, Hironori; YAMAMURA, Tomoharu; KAJIYA, Daisuke; SAITOW, Ken-ichi

1PC-022 Dispersion of Oleophilic Pd Nanoparticles Stabilized by Multi-dentate Copolymer Ligand (Tokyo Univ. of Science, Yamaguchi) OHTA, Shotaro; NISHIDA, Naoto; TOSHIMA, Naoki

1PC-023 Fluorescence from Europium Complex Coexisting with Ag Nanoparticles (Kobe Univ.) MIZUHATA, Minoru; SHIMIZU, Tomoko; DEKI, Shigehito

1PC-024 Enhanced Fluorescence of Surface Modified CdS Nanoparticles (Wakayama National College of Technology) HAYASHI, Junjiro

1PC-025 Synthesis of Ag nanoparticle by using novel 5.8GHz microwave technique (Tokyo Univ. of Science) ABE, Hideki; HORIKOSHI, Satoshi; TORIGOE, Kanjiro; SAKAI, Hideki; ABE, Masahiko

1PC-026 Preparation and Properties of Carbon Nanofiber modified with Magnetic Nanoparticles (Nagano National College of Thechnology) ITAYA, Tomoyuki; FUJIWARA, Katsuyuki; OSHIDA, Kyoichi

1PC-027 Preparation of ITO and Tin Oxide Nanoparticles by Controlled Thermolysis and Application to Transparent Conductive Film (Tomoe Works Co.,Ltd.Okuno Chemical Industries Co.,Ltd.Osaka Municipal Technical Research Institute) FURUTA, Shinya; TAKEMURA, Yasutaka; KASHIWAGI, Yukiyasu; YAMAMOTO, Mari; NAKAMOTO, Masami

1PC-028 Synthesis of metallic alloy nanoparticle from metal coordination polymer (Tokyo Univ. of Agriculture and Technology) OKUMURA, Shinji; YAMADA, Mami

1PC-029 Strutral control of nanocrystals of nickel and cobalt oxides and hydroxides (School of Science;Graduate School of Frontier Sciences, Univ. of Tokyo) MUKAE, Yusuke; TAKAHASHI, Arata; JINHU, Yang; SASAKI, Takehiko

Surfactant

1PC-030 Properties of Double-Chain Nonionic Surfactants with Acid Decomposition Function (Osaka Municipal Tech. Res. Inst.) ONO, Daisuke; SATO, Hirofumi; SHIZUMA, Motohiro; NAKAMURA, Masaki

1PC-031[†] Freezing-thawing behavior of aqueous solution of amphiphilic sugar derivatives (Univ. of Keio) OGAWA, Shigesaburo; ASAKURA, Kouichi; OSANAI, Shuichi

1PC-032 Cloud point phenomena for POE type nonionic surfactant in room temperature ionic liquid. (Faculty of Science, Fukuoka Univ.) MISONO, Takeshi; INOUE, Tohru

1PC-033 Preparation and characterization of ferulic acid glycoside esters (Industrial Technology Center of Wakayama Prefecture) OSAKI, Shusuke; TANAKA, Yoshie; MIYAKE, Yasuhito; MORI, Hajime; HOSODA, Asao; TAKAGAKI, Masashi; KOBATA, Toshitsugu; TANIGUCHI, Hisaji

Micelle

1PC-034 Synthesis and micelle-formation of amphiphilic viologen derivatives with ammonium group. (Kanagawa Univ. Faculty of engineering.) SATO, Keisuke; HANADA, Jun; ABE, Hiroyuki; KAMEYAMA, Atsushi

1PC-035 Synthesis and micelle-formation of amphiphilic viologen derivatives with anionic groups. (Kanagawa Univ. Faculty of engineering.) SATO, Keisuke; ANDO, Kyoko; ABE, Hiroyuki; KAMEYAMA, Atsushi

1PC-036 Conductivity Percolation of an AOT-Based Inverted Micelle with the BZ Reaction (Univ. of Toyama) KATAOKA, Hiroshi

1PC-037 Aggregation properties of alkyl ferrocene with host compounds in organic solution (Graduate School of Science & Engineering, Yamagata Univ.) KIJIMA, Tatsuro; OYAMADA, Yukiko; NAKANO, Takahiro; IZUMI, Taeko

1PC-038 Effect of Nitrate Concentration in Water Pool on Pressure of Reverse Micelle Formation in Supercritical CO₂ (JAEA) KURAHASHI, Kensuke; TOMIOKA, Osamu; MEGURO, Yoshihiro; TAKAHASHI, Kuniaki

Gel

1PC-039 Formation of Organogels by Acetylated Cyclodextrins (Osaka Institute of Technology; Osaka Univ.) KISHIMOTO, Koichiro; MURAOKA, Masahiro; NAKATSUJI, Yohji; KIDA, Toshiyuki; AKASHI, Mitsuru

1PC-040 Synthesis and Assembly Behaviors of Gold Nanoparticles with Lipophilic Ion Pairs (Graduate School of Engineering, Kyushu university) HAMAMOTO, Ryo; SADA, Kazuki

1PC-041 Self-reproductive Behavior of Vesicle Triggered by Imine Exchange Reaction between Amphiphiles (Suzuka National College of Technology) TAKAKURA, Katsuto

1PC-042 Behavior of complex formation of rotaxane at the polymer side chain (Graduate School of Science, Osaka Univ.) OMORI, Koji; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira

1PC-043 Construction of supramolecular films composed of the two-dimen-

- sionally hydrogen-bonded polymers of sulfamide derivatives (Institute of Industrial Science, Univ. of Tokyo) KANAMORI, Takuya; YOSHIKAWA, Isao; LI, Jun; ARAKI, Koji
- 1PC-044** Ring Opening Metathesis Polymerization by using Ruthenium Complex with Modified Cyclodextrin Ligand (Osaka Univ.) TAKASHIMA, Yoshinori; URAMATSU, Kunihiko; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1PC-045[†]** Molecular Puzzle Ring: pseudo[1]Rotaxane from a Flexible Cyclodextrin Derivative (Osaka Univ.) MIYAWAKI, Atsuhisa; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1PC-046** molecular recognition of cyclodextrin using tumbling (Osaka Univ.) YAMAUCHI, Kazuhiro; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1PC-047** Construction of Supramolecular Spherical molecules with hosts on the surface (Graduate School of Science, Osaka Univ.) YOSHIDA, Shogo; TAKASHIMA, Yoshinori; YAMGUTI, Hitroyasu; HARADA, Akira
- 1PC-048** Photodegradation Efficiency of J-aggregate Thin Films of Monomethine Cyanine Dyes with Benzothiazole Ring and/or Benzoxazole Ring(s) (Department of Chemistry and Chemical Biology, Graduate School of Engineering, Gunma Univ.) YOSHIDA, Takayuki; OHZEKI, Daigorou; KODAIRA, Takuo; OTAGURO, Kunihiko; HORIUCHI, Hiroaki; HIRATSUKA, Hiroshi
- 1PC-049** Development of supramolecular gels formed by cyclo(dipeptide) derivative (Graduate School of Science and Technology, Shinshu Univ.) HOSHIZAWA, Hiroko; SUZUKI, Masahiro; HANABUSA, Kenji

Liquid Crystal

- 1PC-050** Stabilization of ferroelectric states in columnar liquid crystal phases by introduction of bulky substituents into the urea molecular (Chiba Univ.) KISHIKAWA, Keiki; YOSHIWARA, Kazuya; KOHMOTO, Shigeo
- 1PC-051** Molecular Assembly of Liquid-Crystalline Imidazolium Salts (The Univ. of Tokyo) SHIMIZU, Seiya; ICHIKAWA, Takahiro; YOSHIO, Masafumi; OHNO, Hiroyuki; KATO, Takashi
- 1PC-052** Physico-chemical Properties of Organo-gel Electrolyte based on an Aprotic Low Molecular Weight Organic Gelator with Perfluoroalkyl Group (Yamaguchi Univ.) MORITA, Yuki; IUCHI, Ayuko; YAMADA, Yasuhiro; OKAMOTO, Hiroaki
- 1PC-053** Realization of ferroelectric columnar liquid crystal phases by increasing the switching-threshold energy level (Chiba Univ.) KISHIKAWA, Keiki; MORIYASU, Shingo; KOHMOTO, Shigeo
- 1PC-054** Solvophobic character and liquid crystallinity of imidazolium salts possessing an anthracene chromophore (Chiba university) KOHMOTO, Shigeo; KAJI, Tomoaki; KISHIKAWA, Keiki
- 1PC-055** Adsorption of Vibrio cholerae hemolysin to Cholesterol Monolayer at the Air/Water Interface (Utsunomiya Univ.) MATSUZAKI, Tomoko; IKEGAI, Hajime; YAMAZAKI, Dai; KATO, Norihiro; HIMURA, Ken-ichi
- 1PC-056** Monolayer Formation of an Amphiphilic Alkylammonium Cation on a Dispersion of a Spherical Clay Mineral (National Defense Academy) UMEMURA, Yasushi; KASHIZAWA, Ryu-taro; SHINOHARA, Emi
- 1PC-057** Development of SiC microsensor using self-assembled monolayer having a molecular recognition (Grad. School Eng., Nagoya Inst. of Tech.) YAMAZAKI, Shuhei; OYABU, Naotaka; DEWA, Takehisa; NANGO, Mamoru; ERYU, Osamu; YAMASHITA, Keiji
- 1PC-058** The Electrochemical behavior of Dopamine at Thiol-modified Gold Electrodes (NDA) OZAWA, Shinichiro; ARUGA, Atsushi
- 1PC-059** Electroformation of Giant Vesicles on a Substrate (Shinshu Univ.) SUGIYAMA, Takuya; OKUMURA, Yukihisa
- 1PC-060** Rapid Electroformation of Giant Vesicles (Shinshu Univ.) URITA, Koji; OKUMURA, Yukihisa
- 1PC-061** Influence of salt on giant vesicle in which temperature changes (Kyushu Sangyo Univ.) KAMIO, Katsuhiko; KITAKOGA, Yuichi; YONEMITU, Tadashi
- 1PC-062** Flowcytometric analysis on adhered and fused giant vesicles (The Univ. of Tokyo) KURIHARA, Kensuke; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 1PC-063** Physical properties and reactivity of metal ion-containing ionic liquid and immobilized ionic liquid (Univ. of Tokyo; Graduate School of Frontier Sciences) TAKAGI, Mari; ITIE, Takeru; SASAKI, Takehiko
- 1PC-064** pH Dependent cyclic voltammograms of ruthenium dioxide nanosheet monolayer (Chuo Univ. shinshu Univ.) NOZAWA, Atsushi; YAMAZAKI, Kenji; SAITOU, Souhei; FUKUDA, Katsutoshi; SUGIMOTO, Wataru; HAGA, Masaaki
- 1PC-065** Hydrogenation of organic chlorinated compound over silica-support metal catalysts modified by a water-repellent in an aqueous solvent (Nihon Univ.) YONEDA, Tetsuya; KOYAMA, Yoshihisa; KOIZUMI, Koshiro; TAKIDO, Toshio; KONUMA, Kenji
- 1PC-066** Ferrocene oxidation by MCM-41 and pore-size dependence of oxidizing rate (Tokyo denki university; Ishimaru Lab.) TAKAHASHI, Toru; ISHIMARU, Shinichi
- 1PC-067** Investigation of new ecological material for methane storage (Tokyo denki university; Ishimaru lab.) TAKEGAMI, Mamoru; ISHIMARU, Shinichi
- 1PC-068** The adsorption and photolysis bisphenol A using titanium oxide introduced montmorillonite. (Tokyo denki university; ishmaru lad.)

- HATTORI, Kota; ISHIMARU, Shinichi
- 1PC-069** Surface Force between hydrophobic SAM surfaces attached on atomically flattened Substrate (Shimane Univ., Tokyo Metropolitan Univ.) FUJII, Masatoshi; IWAHASHI, Hiroyuki; KATO, Tadashi

Theoretical Chemistry, Informatics Chemistry and Computational Chemistry

- 1PC-071** 4-component relativistic study on the electronic structure of PbF (Chukyo Univ.; Nagoya City Univ.; Universite Louis Pasteur) YAMAMOTO, Shigeyoshi; TATEWAKI, Hiroshi; SAUE, Trond
- 1PC-072** Theoretical study of thermal spin transition of $[\text{Fe}(\text{2-pic})_3]^{2+}$ complex (Institute for materials chemistry and engineering, Kyushu Univ.) SATO, Daisuke; SHIOTA, Yoshihito; JUHASZ, Gergely; YOSHIZAWA, Kazunari
- 1PC-073** Theoretical study of dinitrogen activation by transition metal complexes (Institute for materials chemistry and engineering, Kyushu Univ.) OHSAKO, Fumihiko; TANAKA, Hiromasa; YOSHIZAWA, Kazunari
- 1PC-074** Quantum chemical calculation on the process of contamination of iron impurities in boron-containing gases (Kyoto Univ.) MYORAKU, Toshiyuki; ICHIKAWA, Kazuhide; ISHIIHARA, Yoshio; ISAKI, Ryuichiro; TACHIBANA, Akitomo
- 1PC-075** Study on reaction mechanisms in halogenation of cyclopentene with homolytically or heterolytically dissociated halogen as like chlorine (Tokyo Gakugei Univ.) NAGASHIMA, Hiroshi; IKUO, Akira; YOSHINAGA, Yusuke; OGAWA, Haruo
- 1PC-076** Density Functional Study on Coordination of a H_2O Molecule to Cu_B Site in Cytochrome *c* Oxidase (Univ. of Mie) NAKATA, Ayaka; MITANI, Masaki; YOSHIOKA, Yasunori
- 1PC-077** Density Functional Calculations for Molecular and Electronic Structures of Di- μ -oxo-bridged $[\text{Mn}_2\text{O}_2(\text{X},\text{Y},\text{H}_2\text{O})_8]^{+q}(\text{X},\text{Y}=\text{O},\text{OH})$ (Mie Univ.) KATSUDA, Masashi; HISHIKAWA, Erika; MITANI, Masaki; YOSHIOKA, Yasunori
- 1PC-078** Ab Initio Study of Fragmentation Mechanisms of Phosphoryl-containing Peptides in MALDI Mass Spectrometry (Nara Women's Univ.; Shimadzu Corp.) TAKAHASHI, Ayaka; KAJIHARA, Shigeaki; TAKEUCHI, Takae
- 1PC-079** Theoretical study of electrocyclic reaction dynamics induced by photodetachment (Graduate School of science, Tohoku university) NAKAMURA, Kosuke; HOKI, Kunihito; KONO, Hirohiko
- 1PC-080** Theoretical study of producing three-membered ring from thermal isomerization of silacyclobutene (Institute for materials chemistry and engineering, Kyushu Univ.) KONDO, Yoshiyuki; SHIOTA, Yoshihito; NAKA, Akinobu; ISHIKAWA, Mitsuo; YOSHIZAWA, Kazunari
- 1PC-081** A theoretical study on dynamic behavior of molecular quantum-dot cellular automata (QCA) (Research and Development Center for Higher Education, Kyushu Univ.) TOKUNAGA, Ken
- 1PC-082** Theoretical studies on the interactions between NAD glycohydrolase (CD38) and substrate/inhibitors (Ochanomizu University) NOTO, Kaori; TAKANO, Keiko; KITAURA, Kazuo; FEDOROV, Dmitri G
- 1PC-083** A Density Functional Study on Ion Translocation from 2,4-Configuration to 1,3-Configuration within the Selectivity Filter of the KcsA Potassium Channel (Mie Univ.) MITANI, Masaki; IZAKI, Atsushi; KOIDE, Yuichi; MIZUTANI, Shogo; YOSHIOKA, Yasunori
- 1PC-084** Analysis of Solvent Effect on PEDOT:PSS by MO Method(1) (Alps Electric Co., Ltd. Process Tech. Dev. Center) SASAKI, Yorihiro
- 1PC-085** Evaluation of molecular force fields for analysis on high energy materials (National Institute of Advanced Industrial Science and Technology) OBATA, Shigeaki; FUJIIHISA, Hiroshi; HONDA, Kazumasa; GOTOH, Yoshito
- 1PC-086** Theoretical study of the series of polysilanes by fragment molecular orbital method (Rikkyo Univ.) TAGUCHI, Naoki; MOCHIZUKI, Yuji; ISHIKAWA, Takeshi; NAKANO, Tatsuya; MORI, Hiroto; MIYOSHI, Eisaku; TANAKA, Shigenori
- 1PC-087** 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
- 1PC-088** Molecular Dynamics simulation for the Protonation process in Matrix-Assisted Laser Desorption Ionization (Yokohama City Univ.) HATAKEYAMA, Makoto; TACHIKAWA, Masanori
- 1PC-089[#]** TD-DFT Study of Structural and Spectroscopic Properties of N-boryl-substituted Carbazoles: Charge Separation Excited States (Nagoya Univ.) WANG, Jian; IRLE, Stephan
- 1PC-090** Theoretical Representations of the Rotational Restriction of Substrate in the Deformed Cavity. (Miyakonojo National College of Technology) OKABE, Yuji
- 1PC-091** Molecular orbital study on Red Shift of GFP Spectra (Graduate school of Yokohama city Univ.) KOSEKI, Jun; TACHIKAWA, Masanori
- 1PC-092** One effect affecting to a gas react rate, especially at the condition of high pressure (AIST) MISHIMA, Hiroshi
- 1PC-093** Development of A Data Conversion Program for Chemical Structure (The Noguchi Institute) YAMADA, Issaku; MIZUNO, Mamoru
- 1PC-094** Analysis of molecular features of flavor compounds using computational chemistry and application of the calculated IR and Raman spectra to

molecule-odor relationship study (Kisarazu National College of Tech.; Niigata Univ.) YOSHII, Fumiko; YONEMURA, Keiichi; HAGIWARA, Hisahiro; TAKANO, Keiko

Saturday, March 28, AM

(10 : 00 ~ 11 : 30)

Coordination Chemistry, Organometallic Chemistry

- 2PA-001** Synthesis and Molecular Structure of the Tetra-Zirconium(IV)/Hafnium(IV) Clusters Sandwiched with Two 1,4-Di-Lacunary Keggin Polyoxometalates (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; SAKAI, Yoshitaka; SEKIYA, Hiromi
- 2PA-002** Synthesis, Structure and Epoxidation Catalysis of Dinuclear Zirconium(IV) and Hafnium(IV) Complexes Sandwiched with Two Monolacunary Keggin Polyoxometalates (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; ISHIMARU, Megumi; TAKAHASHI, Wataru; SEKIYA, Hiromi; SAKU, Yoshio; SHINOHARA, Akira; SAKAI, Yoshitaka
- 2PA-003** Syntheses and Molecular Structures of Two Novel Titanium(IV)-Containing Polyoxometalates Derived From Dimeric Tri-Titanium(IV)-Substituted Keggin Species (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; MORI, Yuki; SAKAI, Yoshitaka
- 2PA-004** Synthesis and Structure of Inter-Cluster Compounds Consisting of Tetra-Gold(I) Cluster and Keggin-type Polyoxometalates (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; YOSHIDA, Takuya; SAKAI, Yoshitaka; NANBA, Arisa; TSURUTA, Shinichiro
- 2PA-005** Complex Assembly of Nickel(II) Dithiocarbamate Complexes Derived from Amino Acids (Osaka Institute of Technology) NOMURA, Ryoki; ISHIHARA, Seiya; TOMINAGA, Kouji; OHTAKA, Atsushi; SHIMOMURA, Osamu
- 2PA-006** Synthesis and Structure of Nickel Complexes with *N,N'*-bis(2-imidazolylmethylene)-1,3-propanediamine and *N,N'*-bis(2-imidazolylmethylene)-(2-hydroxy)propane-1,3-diamine. (Sophia Univ.) SUZUKI, Kenji; KOMIYAMA, Takashi; INOMATA, Yoshie; HOWELL, F. S.
- 2PA-007** Syntheses and Clathrate Structures of Acetato-bridged Trinuclear Copper(II) Complexes. (Osaka Kyoiku Univ.) KUBONO, Koji; UENO, Takayuki; YOKOI, Kunihiro
- 2PA-008** Structures and Liquid Crystalline Properties of Copper(II) Complexes with Ligands Containing Salicylaldehyde and Cyclohexane (Osaka Kyoiku Univ.) KOTOU, Arisa; KUBONO, Koji; YOKOI, Kunihiro
- 2PA-009** Synthesis of Macrocyclic Metal Complexes Directed Toward Functionalized Chemical Nano-Space (Graduate School of Science, Nagoya Univ.) KAWANO, Shin-ichiro; TANAKA, Kentaro
- 2PA-010** Hydrolysis of Chlorobis(*N*-isopropylthylenediamine)copper(II) Chloride: Crystal Structures Before and After (Josai Univ.) KAWAI, Mari; HIHARA, Goro; MIYAMAE, Hiroshi
- 2PA-011** Observation of short-lived emission of Bis(2,9-dimethyl-1,10-phenanthroline)Cu(I) complex in ultra low temperature (Toyama Univ.; Faculty of Science) IWAMURA, Munetaka; KANETA, Saori; KAWAKAMI, Hiroaki; NOZAKI, Koichi
- 2PA-012** Syntheses, Structures and Electronic Properties of a New Inner-Salt Type Dithiocarboxylate Ligand with Aromatic Substituent and the Gold(I) Complex (Graduate School of Science and Engineering, Saitama Univ.; Molecular Analysis and Life Science Center, Saitama Univ.) SAITO, Noboru; SUGAYA, Tomoaki; FUJIHARA, Takashi; NAGASAWA, Akira
- 2PA-013**† Redox behavior of ruthenium complexes containing secondary thioamide units. (Chemical Resources Laboratory, Tokyo Institute of Technology) TERATANI, Takuya; KOIZUMI, Take-aki; KANBARA, Takaki; YAMAMOTO, Takakazu
- 2PA-014** Syntheses and Crystal Structures of Chiral Rhodium(I)-Semiquinonato Complexes (Univ. of Hyogo) YAMASAKI, Shota; MITSUMI, Minoru; OZAWA, Yoshiki; TORIUMI, Koshiro
- 2PA-015** Crystal structure analyses of photo-excited states of hexanuclear Cu(I) and Ag(I) 6-ethylpyridine-2-thiolato complexes. (Univ. of Hyogo, Material Science) ISHIDA, Toru; OZAWA, Yoshiki; MITSUMI, Minoru; TORIUMI, Koshiro
- 2PA-016** Structures of lanthanoid complexes with phosphine oxide and their Mössbauer spectra. (Faculty of science, Toho University) HIRAI, Yuya; TKAHASI, Msashi
- 2PA-017** Spin crossover behavior in cyanide-bridged Iron-Gold bimetallic 2D Hofmann-like coordination polymers: Synthesis and crystal structures. (Univ. of Toho Chemical) TOMORI, Itaru; KITAZAWA, Takahumi; KOSONE, Takashi; KANADANI, Chikahide; SAITO, Toshiaki
- 2PA-018** Crystal structure and gas absorption of tetracarboxylrhodium halide forming Paddlewheel type (Kanagawa-university) SUZUKI, Yuto; KATAOKA, Yuusuke; TAKAHASHI, Masanori; MORI, Wasuke
- 2PA-019*** A pillared-Layer Coordination Polymer Exhibiting Guest-Induced Single-Crystal-to-Single-Crystal Transformations Involving a Change in the Metal Coordination Environments (Kyoto Univ.) SEO, Joobeom; SAKAMOTO, Hiroto; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 2PA-020** The Structures and Magnetic Properties of novel 1-D Fe complexes coordinated by *bis*-Schiff base ligands (Faculty of Science and Technology, Kinki Univ., R.I. for Science and Technology, Kinki Univ.) NABEI, Atsuhiko; OKUBO, Takashi; MAEKAWA, Masahiko; MUNAKATA, Megumu; KURODA-SOWA, Takayoshi
- 2PA-021** Cobalt Schiff base Complexes with Axial Coordinated Isocyanide Group derived from 7,7,8,8-tetracyanoquinodimethane (Faculty of Science and Technology, Kinki Univ., R.I. for Science and Technology, Kinki Univ.) KAWASAKI, Jun; YU, Zhong; NABEI, Atsuhiko; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-022** Syntheses and Structure of Ag(I)-Dicarboxylic Acid Coordination Polymer with Thioether Substituted Aromatic Compound. (Department of chemistry Kinki Univ.) UEDA, Syogo; SUENAGA, Yusaku
- 2PA-023** Dioxygen activation by cobalt(II) thiolato complex with tris(pyrazolyl)bolate ligand (Ibaraki Coll. of Technology) KISHI, Norifumi; NAGAOKA, Masahiro; KOMATSUZAKI, Hidehito; HIKICHI, Shiro; AKITA, Munetaka
- 2PA-024** Microwave syntheses and spectroscopic solvent effect of lanthanide(III)-polypyridine and beta-diketon ternary complexes (MINERVA LIGHT LAB.) MASUDA, Yoshitaka; MATUMURA, Takeko
- 2PA-025** Synthesis and Oxidation Reaction of Nitrido-Bridged Iron Porphyrins (Graduate School of Sciences, Kyushu Univ.; Inst. for Materials Chem. and Eng., Kyushu Univ.) WANG, Ang; OHTA, Takehiro; NARUTA, Yoshinori
- 2PA-026** Preparation of amphipathic manganese complexes and their application for oxidation of organic compounds (Matsushita laboratory) KITAGAWA, Satoru; FUJIWARA, Manabu; MATSUSHITA, Takayuki
- 2PA-027** Synthesis and characterization of β -octafluoro substituted manganese porphyrin dimers (Dep. of Chemistry, Fac. of Sciences, Kyushu Univ.; Inst. for Materials Chem. and Eng., Kyushu Univ.) TAO, Kazuya; ISHIDA, Masatoshi; OHTA, Takehiro; NARUTA, Yoshinori
- 2PA-028** Properties of Pd(0) and Pd(II) complexes with BINAP disulfide (Graduate School of Science and Engineering, Univ. of Toyama) AIZAWA, Sen-ichi; YAMADA, Takanori; KITAMURA, Akina
- 2PA-029** Photochemical reaction of palladium(0)diphosphine complex with organohalides. (Department of materials and life science, Seikei Univ.) NUMAGUCHI, Satoko; MATSUMOTO, Kenji; TSUKUDA, Toshiaki; TSUBOMURA, Tarou
- 2PA-030** Synthesis and Hydrogen Evolving Activity of Dinuclear Ru-Pt Complex Bridged by 5,5'-Bi-1,10-phenanthroline (Kyushu Univ.) FUKUDA, Takuya; MASAOKA, Shigeyuki; SAKAI, Ken
- 2PA-031** Synthesis and properties of Photo-hydrogen-evolving Molecular device having diplatinum core (Kyushu Univ.) HIRAHARA, Masanari; MASAOKA, Shigeyuki; SAKAI, Ken
- 2PA-032** Photoinduced Electron Transfer of Cyclometalated Dinuclear Platinum(II) Complex (Graduate School of Science, Hokkaido Univ.) AOKI, Rie; KOBAYASHI, Atsushi; KATO, Masako
- 2PA-033** Construction of Homogeneous Photo-oxidation of Water to Dioxygen by Photosystem II Model Complexes (Nara Women's Univ.; National Institute of Advanced Industrial Science and Technology (AIST)) ABE, Yuriko; KODAMA, Shoko; TAKEUCHI, Takae; HONJO, Kuniaki; KIUCHI, Masato
- 2PA-034** Reduction Reaction of Ruthenium Complex Having Phenylazophenyl Ligand (Faculty Sci. Technol., Sophia Univ.) KANESAKA, Nobuyuki; TSUKANO, Toru; NAGAO, Hirota
- 2PA-035** Nitrate Reduction Using Ruthenium Complex Having Trifluoromethanesulfonate Ion (Faculty Sci. Technol., Sophia Univ.) SHIGEKI, Moriya; NAGAO, Hirota
- 2PA-036** Synthesis, structure, and oxygen-evolving activity of dinuclear ruthenium complex with a bis-tpa ligand (6-hpa) (Doshisha Univ.) SUGIYAMA, Ryoko; HITOMI, Yutaka; FUNABIKI, Takuzo; KANO, Koji; KODERA, Masahito
- 2PA-037** Electrochemical Oxidation of Alcohols in Aqueous Media by a Ruthenium-dioxolene-amine complex (Institute for Molecular Science) OZAWA, Hironobu; WADA, Tohru; TANAKA, Koji
- 2PA-038** Isomerization reaction of Ru(II)-dmsc complexes with one sterically-unhindered ligand 3-(6-chloropyridazyl)(2-pyridyl)amine (Meiji Univ.; School of Science and Technology) ISHIDA, Tomokazu; TOYAMA, Mari; NAGAO, Noriharu
- 2PA-039** Easy Metal Screening of Ph-Pybox Complexes Trapping Carboxylates by ESIMS (OMTRI, Kansai Univ.) SATO, Hirofumi; SUZUKI, Yoshitomo; ARAKAWA, Ryu-ichi; SHIZUMA, Motohiro
- 2PA-040** Redox Luminescence Switching of Europium Tris(beta-diketonate) Complex Supported by Persistent Triarylamine Cation Radical Ligand (Faculty of Chemistry, Material and Bioengineering, Kansai Univ.) MATSUHIRA, Keisuke; YANO, Masafumi; TATSUMI, Masakazu; OYAMA, Munetaka; KASHIWAGI, Yukiyasu; NAKAMOTO, Masami; OHKUBO, Kei; FUKUZUMI, Shunichi; MISAKI, Hitomi; TSUKUBE, Hiroshi
- 2PA-041** Optical Emission Mechanism of the Gyro-Form Eu(III) Complex (Aoyama Gakuin Univ.) YOSHIMURA, Yu; ENOMOTO, Sae; OHTSU, Hideki; HASEGAWA, Miki
- 2PA-042** Luminescence spectra of a gyros-shape Nd complex (Aoyama Gakuin Univ.) HASEGAWA, Miki; ENOMOTO, Sae; YOSHIMURA, Yu; OHTSU, Hideki
- 2PA-043** Preparation and Magnetic Properties of Lanthanoid Nitrate Complexes with Chelate Tridentate Ligand. (Kyushu Univ.) TANAKA, Yuki; KANEGAWA, Shinji; SATO, Osamu

- 2PA-044** Crystal structure and electroconducting behavior of ligand-oxidized bis(phthalocyaninato) lanthanide complexes (Univ. of Chuo; Inorganic-Quantum Physicality lab) KANDA, Satoshi; OKUBO, Masashi; ISHIKAWA, Naoto
- 2PA-045** Synthesis, structure and properties of oxalate-bridged two-dimensional network compounds $\{N(n-C_4H_9)_3(CH_2COOH)_3\}[MCr(ox)_3]$ ($M = Mn^{II}, Fe^{II}$) (Faculty of Science, Kyushu Univ.; Graduate School of Engineering, Kyoto Univ.; JST-CREST) SHIGEMATSU, Akihito; OKAWA, Hisashi; SADAKIYO, Masaaki; OHBA, Masaaki; KITAGAWA, Hiroshi
- 2PA-046** Synthesis and Properties of Non-planar Phthalocyaninato Manganese Complexes (Grad. School of Science, Tohoku Univ.) FUKUDA, Takamitsu; YAMAMOTO, Keita; KOBAYASHI, Nagao
- 2PA-047** Structures and magnetic properties of novel ring-shaped multinuclear complexes with pyrazole bridges (Univ. of Tsukuba) ONUKI, Tatsuya; NOGUCHI, Mao; SHIGA, Takuya; OSHIO, Hiroki
- 2PA-048** Synthesis and magnetism of novel manganese(III) cyclam complexes with strong axial ligands (Graduate School of Engineering, Osaka Univ.) BABA, Haruyuki; NAKANO, Motohiro
- 2PA-049** Magnetic Properties of Imidazole-Bridged Dinuclear and One-Dimensional Chain Compounds Constructed by Mn(III) salen-Type Complexes and a Tripodal Fe(III) Complex (Tohoku Univ.) ISHIKAWA, Ryuta; MIYASAKA, Hitoshi; TAKAISHI, Shinya; KAJIWARA, Takashi; YAMASHITA, Masahiro
- 2PA-050** The study on the spin state and its photo-irradiation effect for an iron complex $[Fe(SPphen)_3](B(C_6H_5)_4)_2$ having photo-sensitive ligand. (Univ. of Tokyo) SUGAHARA, Akira; SHIMIZU, Hideharu; ENOMOTO, Masaya; KOJIMA, Norimichi
- 2PA-051** Spin Dynamics of A Chiral Single Chain Magnet (Univ. of Tsukuba) HOSHINO, Norihisa; SHIGA, Takuya; NIHEI, Masayuki; OSHIO, Hiroki
- 2PA-052** Study on the valence fluctuation and the magnetism of iron mixed-valence complexes, $(n-C_nH_{2n+1})_4N[Fe^{II}Fe^{III}(C_2O_3S)_3]$ ($n = 3, 4$) (Univ. of Tokyo) KAGESAWA, Kouichi; ONO, Yuuki; ENOMOTO, Masaya; KOJIMA, Norimichi
- 2PA-053** Development of New Fe Spin-crossover Complex (Kyushu Univ.) ZHANG, Kuirun; KANEGAWA, Shinji; SATO, Osamu
- 2PA-054** Thermally and Optically Induced Valence Tautomerism in a One-Dimensional Co Complex. (Kyushu Univ.) YAMABE, Atsumi; SHAIKH, Nizamuddin; KANEGAWA, Shinji; SATO, Osamu
- 2PA-055** Hydrogen adsorption properties of $M(tans-1,4-cyclohexanedicarboxylate)(DABCO)_{0.5}$ (Kanagawa Univ.) KAWASHIMA, Jiro; TAKEI, Tohru; OHMURA, Tetsushi; MORI, Wasuke
- 2PA-056** Syntheses and structures of metal complexes coordinated by a pyridine ligand with triphenylamine moiety. (Univ. of Tsukuba) OSHIRO, Emiko; NISHIKAWA, Hiroyuki; MITSUMOTO, Kiyotaka; OSHIO, Hiroki
- 2PA-057** synthesis of binuclear Cu(II) complexes included aromatic rings (Kanagawa Univ.) KOWAGUCHI, Yoshikazu; WATANABE, Shunya; WADA, Moritaka; MORI, Wasuke; TANAKA, Jiro
- 2PA-058** Magnetic properties of heptanuclear complexes comprised of triangular Cu(II) trinuclear units (Univ. of Tsukuba) TAKAHASHI, Tomomi; SHIGA, Takuya; OSHIO, Hiroki
- 2PA-059** Syntheses and Structures of the Novel Coordination Polymers Constructed with Metalloligands Containing Dithiolenes (Tohoku Univ.) SUZUKI, Yoshitomo; HOSODA, Miyuki; TAKAISHI, Shinya; KAJIWARA, Takashi; MIYASAKA, Hitoshi; YAMASHITA, Masahiro
- 2PA-060** Synthesis and Photo-magnetic properties of Mo-Cu Complexes with Chiral Ligands (Kyushu Univ.) YOSHIDA, Kazuta; KANEGAWA, Shinji; SATO, Osamu
- 2PA-061** Electronic Chemical Study of Emission Spectrum of Copper(I) Binuclear Metal Complex (Kagawa Univ.) KENMOTSU, Masahiro; ISHII, Tomokiko; SAKANE, Genta; TSUGE, Kiyoshi; SASAKI, Yoichi
- 2PA-062** Construction of a novel copper complex for coordination environmental change through photoisomerization (the Univ. of Tokyo; Inorganic Chemistry Laboratory) UMEKI, Satoshi; KUME, Shouko; NISHIHARA, Hiroshi
- 2PA-063** Structures and properties of fluorescent tin(IV) and indium(III) complexes with Schiff base ligands (Department of Chemistry, Okayama Univ. of Science) TAKANO, Kentaro; NAKADA, Tsutomu; TAKAGI, Hideaki; SHIBAHARA, Takashi
- 2PA-064** Synthesis and property of photoisomerizable ruthenium dms complex with electron acceptor moiety (Univ. of Tokyo) SUZUKI, Shoko; KUME, Shoko; NISHIHARA, Hiroshi
- 2PA-065** Competitive Photochemical Energy and Electron Transfer in Various Asymmetric Binuclear Rhenium(I) Complexes (Tokyo Tech., AIST, CREST/JST) KAMIMURA, Naoya; KOIKE, Kazuhide; MORIMOTO, Tatsuki; ISHITANI, Osamu
- 2PA-066** Control of the Electronic States in Quasi-One-Dimensional Halogen-Bridged Platinum Complexes by the Counterions (Tohoku Univ.) UEDA, Yutaro; IMAMURA, Keita; TAKAMURA, Mitsuhiro; TAKAISHI, Shinya; MIYASAKA, Hitoshi; KAJIWARA, Takashi; YAMASHITA, Masahiro
- 2PA-067** The effects of bridging ligands on oxidation state of cyclometalated binuclear platinum complexes (Hokkaido Univ.) SUGIMURA, Seiji; KOBAYASHI, Atsushi; CHANG, Hochol; KATO, Masako
- 2PA-068** Synthesis of a Pt(II) complex with a trifluoromethyl-substituted terdentate ligand and its luminescence properties (Yokohama City Univ.) NISHIUCHI, Yuta; SHINOZAKI, Kazuteru
- 2PA-069** Characterization of aqueous near-infrared absorbing d^8 transition metal complexes with aromatic diamine radical ligands (Tohoku Univ.) MASUYA, Atsuko; IKI, Nobuhiko; KABUTO, Chizuko; OHBA, Yasunori; YAMAUCHI, Seigo; HOSHINO, Hitoshi
- 2PA-070** Luminescent Properties and Photoisomerization of Red phosphorescent Cyclometalated Iridium Complexes (Grad. Sch. Engineering, Chiba Univ.) KARATSU, Takashi; SUGIZAKI, Tomoko; YAGAI, Shiki; KITAMURA, Akihide
- 2PA-071** Effect of ligands on the photochemical geometrical and optical isomerization of triscyclometalated Ir(III) complexes (Faculty of Engineering, Chiba Univ.) KARATSU, Takashi; IWAKI, Hiroki; TSUCHIYA, Kazuyoshi; YAGAI, Shiki; KITAMURA, Akihide
- 2PA-072** Low-temperature photophysical properties of highly luminescent iridium(III) complex with tridentate bis(benzimidazolyl)benzene (Toyama Univ.; Tyuo Univ.) KAWAKAMI, Hiroaki; NOZAKI, Koichi; HAGA, Masa-aki
- 2PA-073** Photoluminescence Studies of Liquid Gold(I) Complexes (JAEA; NSED) SHINHA, Yusuke; AOYAGI, Noboru; SHIMOJO, Kojiro; NAGANAWA, Hirochika; IZUOKA, Akira
- 2PA-074** Preparation of gold(I) complex with nitronyl nitroxide anion (Ibaraki Univ.) YOSHIDA, Ayami; IZUOKA, Akira; ITOI, Ayaka
- 2PA-075** Cu Catalyzed Asymmetric Diels-Alder Reactions Using Cyclo[His-His] Type Chiral Ligand (Institute of Industrial Science, the Univ. of Tokyo) FURUTANI, Masahiro; SAKAMOTO, Seiji; KUDO, Kazuaki
- 2PA-076** Chiral Transfer from Chiral Ni(II) Complex to Achiral Cu(II) Complex (Tokyo Univ. of Science, Faculty of Science) AKITSU, Takashi; UCHIDA, Naoki; ARITAKE, Yoshikazu; YAMAGUCHI, Jun
- 2PA-077** Red Luminescent Properties of Novel Europium Complexes by addition of Guest Molecules (Graduate School of Engineering, Kyushu Institute of Technology) TAKANO, Hikaru; OCHI, Masayuki; MORIGUCHI, Tetsuji; TSUGE, Akihiko
- 2PA-078** Electronic Structures of One-Electron Oxidized Metal(II)-salen complexes (College of Science, Ibaraki Univ.) SHIMAZAKI, Yuichi
- 2PA-079** Electrochemical Properties of Ruthenium Complexes Assembled on the Dendrimer (Sophia Univ.) MINESAKA, Hiroyuki; SATO, Ryo; TOYOZUMI, Eiji; ENDO, Akira; HAYASHITA, Takashi

Bioinorganic Chemistry

- 2PA-080** Binding and reaction of cationic salen-type Schiff-base complex of chromium(III) with DNA (Chuo Univ.) KITAJIMA, Shota; SUGIMOTO, Masashi; KITAMURA, Yusuke; CHIKIRA, Makoto
- 2PA-081** Synthesis and Reactions of MFe_3S_4 clusters ($M = Mo, Cu, Ni$) having a Tridentate Ligand Composed of Indolethiols (Graduate School of Science, Research Center for Materials Science, Nagoya Univ.) LIU, Dong; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 2PA-082** A novel dioxygen activation by a heme-copper binuclear complex (Inst. for Materials Chemistry and Engineering, Kyushu Univ.) OHTA, Takehiro; CHISHIRO, Takefumi; TANI, Fumito; NARUTA, Yoshinori
- 2PA-083** Synthesis and Reactions of $[4Fe-4S]$ Clusters Coordinated by a Tridentate Thiolate Ligand as Aconitase (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) HIRABAYASHI, Kiyohisa; TERADA, Tamaki; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 2PA-084** Low Valent Iron-Nickel Dinuclear Complexes Modeling the Reduced State of the $[NiFe]$ Hydrogenase Active Site (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) LI, Zilong; TANINO, Soichiro; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 2PA-085** Synthesis of introduce carboxylate iron porphyrin and dioxygen reactivity (Graduate School of Sciences, Kyushu Univ.; Inst. for Materials Chemistry and Engineering, Kyushu Univ.) SHIMIZU, Yuta; OHTA, Takehiro; LIU, Jin-gang; TANI, Fumito; NARUTA, Yoshinori
- 2PA-086** Synthesis of Thiolate-bridged Fe(II)(CO/CN)-Ni(II) Complexes as Analogues of the Active Site of $[NiFe]$ Hydrogenase (Graduate School of Science and Research Center for Materials Science, Nagoya Univ.) TANINO, Soichiro; LI, Zilong; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 2PA-087** Purification and properties of laccase and stellacyanin from *Rhus vernicifera* of Okukuji area in Ibaraki prefecture. (Ibaraki Univ.) TAKAHASHI, Rika; TERAKADO, Hideto; TOGASHI, Hiromi; KOHZUMA, Takamitsu
- 2PA-088** Study of the DNA-binding structure of a heterodinuclear cationic schiff base complex bridged by pyrazol group (Chuo Univ.) UEHARA, Sho; TOJO, Midori; KITAMURA, Yusuke; CHIKIRA, Makoto
- 2PA-089** Syntheses and X-Ray Structure Characterizations of Catecholase-Like Mimetic Model Compounds of Copper(II) with N-Methylimidazol and Bipyridine Ligands. (Chemistry Laboratory, Kochi Gakuen College) YAMAZAKI, Shinsaku; YONEMURA, Toshiaki; YANO, Satsuki; SENBA, Hirohide
- 2PA-090** UV-Resonance Raman Spectroscopy and 1H NMR Studies of Azurin I and Azurin II from *Alcaligenes xylosoxidans* NCIMB 11015 (Univ. of Ibaraki; Hitachi Co.Ltd) KIMURA, Sotaro; TANAKA, Hideki; KITAGAWA, Isao; OKADA, Michiya; KOHZUMA, Takamitsu
- 2PA-091** Photoinduced electron transfer reaction of zinc myoglobin with optically active acridinium ion (Nara Women's Univ., Faculty of Science)

- SHIBATA, Satomi; SEKIGUCHI, Yuka; SAITO, Kaori; YAMADA, Kaoru; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 2PA-092** Synthesis and properties of zinc porphyrin modified with benzene-sulfonamide (Nara Women's Univ., Faculty of Science) NAKAGAWA, Asami; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 2PA-093** Thermodynamic Studies on the Complexation of Tris(imidazole)calix [6]arene Derivatives with Metal Ions (Doshisha Univ.; Université Paris Descartes) KITAGISHI, Hiroaki; KONDO, Masataka; OLIVIA, Reinaud; KANO, Koji
- 2PA-094** Activity control of carbonic anhydrase by its inhibitor containing tris (2,2'-bipyridine)ruthenium(II) analogue (Nara Women's Univ., Faculty of Science) FUKUDA, Misa; NAKAGAKI, Fumie; OGATA, Tomoko; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 2PA-095** Syntheses and Properties of Platinum Complexes with 1,4-Diaminobutane and 1,10-phenanthroline as Novel Antitumor Agents (Kansai Univ.) NAKANO, Takashi; NAKABAYASHI, Yasuo; NAKAI, Misaki
- 2PA-096** Synthesis of Aluminum(III) Bis-8-Quinololinol Complexes Having Benzene Ring Core (Kobe City College of Technology; Yamagata Univ.) OHFUCHI, Shinichi; FUKUDA, Hiroya; MOTOYAMA, Takao
- 2PA-097** Axial ligand substitution of dihydroxo(phtalocyaninato) antimony (V) complex. (NIMS) KAGAYA, Yutaka; ISAGO, Hiroaki
- 2PA-098** Syntheses of Heteroleptic Triple-decker Sandwich Binuclear Lu(III) Complexes with Octabutoxy-substituted and Unsubstituted Phthalocyanines (Kyushu Univ.) TAKAKI, Ryosuke; SAKAKIBARA, Takanori; HAGIWARA, Satoru; TAKAHASHI, Kazuhiro
- 2PA-099** Synthesis of Dinuclear Gadolinium Cluster Encapsulated by Bis (amino acidato)nickel(II) Ligands. (Niigata Univ.) HOSOI, Ayako; IGARASHI, Satoshi; YUKAWA, Yasuhiko
- 2PA-100** Syntheses and Properties of Optically Active Lanthanide(III) Complex Involving Susceptible Site to Substitutions of Other Ligands (Saga Univ.) MIYOSHI, Yusuke; TAKESHITA, Sayaka; NAGASAKI, Toshihiro; KOIKAWA, Masayuki; TOKII, Tadashi; YAMADA, Yasunori
- 2PA-101** Synthesis and Properties of Cyclic Tetranuclear Nickel-Gadolinium complex bridged by amino acidato ligands. (Niigata Univ.) KAWAGUCHI, Shinichi; IGARASHI, Satoshi; YUKAWA, Yasuhiko
- 2PA-102** Cyclic Oligomer of Oxide Clusters through Siloxane Bond. Reaction Products of Mono-Lacunary Dawson Polyoxometalate with Tetraethoxysilane and Tetrachlorosilane (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; KURASHINA, Takayuki; AOKI, Shotaro; YOZA, Kenji
- 2PA-103** Inorganic-Organic Hybrid Compound. Synthesis and Structure of Allylsilyl Group-Containing Mono-Lacunary Dawson POM (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; SEKI, Hideaki; HASEGAWA, Takeshi; SAKAI, Yoshitaka; KURASHINA, Takayuki; SHIMIZU, Kaori; YOSHIDA, Shoko; AOKI, Shotaro; YOZA, Kenji
- 2PA-104** Synthesis and Structure of the Siloxane Bonding Species Constructed on the Tri-Lacunary Keggin Polyoxometalate Using Silane Coupling Agent Containing Terminal Thiol Group (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; AOKI, Shotaro; KURASHINA, Takayuki; SEKI, Hideaki
- 2PA-105** Synthesis of Tetrapod-Shaped Triticium(IV)-Substituted Dawson Polyoxometalate Encapsulated with Ammonium Ion in the Central Cavity and Exchange of the Encapsulated Ion (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; OHTA, Shoji; SAKAI, Yoshitaka; SHINTOYO, Yukihiko; YOSHIDA, Shoko
- 2PA-106** Preparation and characterization of dinuclear manganese complexes with Schiff base ligands (Matsushita laboratory) YOSHIMIZU, Shingo; FUJIWARA, Manabu; MATSUSHITA, Takayuki
- 2PA-107** Preparation and characterization of novel polynuclear manganese complexes with Schiff base (Matsushita laboratory) TSUJIKAWA, Kazuki; FUJIWARA, Manabu; MATSUSHITA, Takayuki
- 2PA-108** Syntheses and Characterization of Chloroacetate-bridged Heteronuclear Complexes as Electrode Catalysts (Kyushu Univ.) SHINAGAWA, Natsumi; MASAOKA, Shigeyuki; SAKAI, Ken
- 2PA-109** Synthesis of Fe-complexes with N2O type Schiff-base ligands having a carboxyl group and their coordination polymers. (Faculty of Science and Technology, Kinki Univ., R.I. for Science and Technology, Kinki Univ.) KIMURA, Kana; TAMAURA, Hiroki; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-110** Synthesis and magnetic properties of metallated corrolazines. (Shimane Univ.) IKEUE, Takahisa; KURAHASHI, Satoshi; SUGIMORI, Tamotu; NAKAMURA, Mikio; HANDA, Makoto
- 2PA-111** Synthesis and properties of a series of ruthenium(II) carbonyl complexes bearing 2-(2-pyridyl)-1,8-naphthyridine (Cluster of Sci. & Tech., Fukushima Univ.) HAMADA, Takashi; TAKASE, Tsugiko; OYAMA, Dai
- 2PA-112** Stepwise Syntheses and Structures of Binuclear Ruthenium(II) Complexes with One β -diketonato Derivative as a Bridging Ligand (Meiji Univ.; School of Science and Technology) TOYAMA, Mari; NAGAO, Noriharu
- 2PA-113** A new route for substitution of the bridging acetate on the oxo-centered triruthenium acetate cluster (Kitasato Univ.) YUGE, Hidetaka; ASAHI, Shin-ichiro; KURIHARA, Makoto; MIYAMOTO, Takeshi
- 2PA-114** Synthesis and oxygen-evolving activity of new diruthenium complexes with dinucleating double-schiff-base ligand (Kyushu Univ.) KOZAKURA, Takashi; MASAOKA, Shigeyuki; SAKAI, Ken
- 2PA-115** Synthesis and electrochemical study of symmetrical (β -diketonato) binuclear ruthenium complex bridged with diaminodihydroxybenzene (Sophia Univ.) KIMURA, Kayono; KITAYAMA, Asako; HASIMOTO, Takeshi; HAYASHITA, Takashi
- 2PA-116[†]** Mixed-valency of dinuclear ruthenium complex bridged by hexaazatriphenylene (Adv. Sci. and Eng., Waseda Univ.) OHTSU, Hiroyoshi; YAGI, Yuusuke; YAMAGUCHI, Tadashi
- 2PA-117** Synthesis of tetranuclear ruthenium square complexes from mononuclear ruthenium complexes having a tridentate and a bidentate ligand. (Tokyo Metropolitan Univ., Graduate School Urban Environmental Sciences, Department of Applied Chemistry) OBARA, Makoto; TANABE, Ryota; SATO, Kiyoshi; YAMAGUCHI, Motowo
- 2PA-118** Syntheses of Star-burst Ru(III) tetranuclear metal complexes (Ochanomizu Univ.; Univ. of Tokyo; PRESTO; Ochanomizu Univ.) FUJIMOTO, Noriko; SATO, Hisako; MORI, Yukie; FUKUDA, Yutaka; YAMAGISHI, Akihiko
- 2PA-119** Syntheses of Bis[2-(9-triptycyl)ethynyl]derivative and applications to ligand (Yokohama city univ.) WATANABE, Sayaka; SHINOZAKI, Kazuteru
- 2PA-120** Selective Substitution of Carboxylate Bridges in Oxo-acetato-bridged Mixed-metal Trinuclear Cluster Complexes (Kyushu Univ.) IKEGAMI, Atsushi; ABE, Masaaki; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 2PA-121** Synthesis and Structure of Mononuclear Ruthenium(II) Heteroleptic Complex with 2,2'-bipyridine and 2,3-bis(2-pyridyl)pyrazine. (Meiji Univ.; School of Science and Technology) HAGA, Takafumi; TOYAMA, Mari; NAGAO, Noriharu
- 2PA-122** Syntheses and Structure of Bis(thiophene-2-methylamine) Ruthenium(II) Dimethyl Sulfoxide Complex. (Meiji Univ.) KUSHIDA, Takashi; TOYAMA, Mari; NAGAO, Noriharu
- 2PA-123** Development of ruthenium binuclear complex connected by covalent bond showing photochromic property. (Tokyo Metropolitan Univ., Faculty of Urban Environmental Science, Department of Applied Chemistry) TSUCHIYA, Hiromitsu; YAMAGUCHI, Motowo; SATO, Kiyoshi; TANABE, Ryota; OBARA, Makoto
- 2PA-124** Syntheses and Properties of Latern-type Ruthenium(II,III) Dimers with Carboxylate and Diphenylformamidinate Ligands (Shimane Univ.) KIMURA, Yuko; IKEUE, Takahisa; SHIDA, Hideaki; SUGIMORI, Tamotu; MIKURIYA, Masahiro; HANDA, Makoto
- 2PA-125** Stereospecific Assembly of Optically Active Sulfur-Bridged Dinuclear Complexes with Aromatic Diamine Ligands (Saga Univ.) NAGASAKI, Toshihiro; KOHNO, Miyuki; MIYOSHI, Yusuke; KOIKAWA, Masayuki; TOKII, Tadashi; YAMADA, Yasunori
- 2PA-126[#]** Preparation and characterization of photochemical hydrogen evolving molecular devices including Co and Ru centers (Kyushu Univ) EL-GHAMRY, Hoda; ISSA, Raafat; EL-BARADIE, Kamal; MASAOKA, Shigeyuki; SAKAI, Ken
- 2PA-127[#]** Design and Synthesis of New Multidentate Azo Aromatic Ligand via Metal Promoted Aromatic Ring Amination Reaction (NIMS) BANDYOPADHYAY, Anasuya; HIGUCHI, Masayoshi
- 2PA-128** The syntheses, structures and properties of Co(II) mononuclear complexes of new binary ligands. (Institute for Molecular Science) KON, Hiroki; NAGATA, Toshi
- 2PA-129** Control of Interligand Reaction in Nickel(II) Complex (Kanagawa Univ.; Osaka Univ.) KAWAMOTO, Tatsuya; SUZUKI, Narumi; KONNO, Takumi
- 2PA-130** Preparation and reaction of dinitrosyl molybdenum Complexes with thiocyanuric acid (Kochi Univ.) OGAWA, Natsumi; IKENO, Suguru; YONEMURA, Toshiaki; AMA, Tomoharu
- 2PA-131** Syntheses and properties of complexes having Pt(II)→Au(I) dative bond (Faculty of Advanced Science and Engineering, Waseda Univ.) YAMAGUCHI, Tadashi; TAKIZAWA, Shun; ISHIGAMI, Tatsuhiko
- 2PA-132** Synthesis and Properties of Pyrazolates Bridged Dinuclear Platinum (II) Complexes of Bipyrimidine (Nagasaki Univ.) KOGA, Asami; UMAKOSHI, Keisuke; ARIKAWA, Yasuhiro; ONISHI, Masayoshi
- 2PA-133** Synthesis and characterization of novel copper complexes with ligands bearing amide groups and their reactivities toward superoxide ion (Matsushita Laboratory) MORISHITA, Kenichi; FUJIWARA, Manabu; MATSUSHITA, Takayuki
- 2PA-134** Synthesis and Optoelectronic Properties of Copper Complexes with Phenothiazine Dithiocarbamate Derivatives (Kinki Univ., PRESTO, RIKEN) UENOYAMA, Tomoyuki; OKUBO, Takashi; ISOSHIMA, Takashi; MAEKAWA, Masahiko; MUNAKATA, Megumu; KURODA-SOWA, Takayoshi
- 2PA-135** Synthesis of $\text{Cu}^{\text{II}}_2\text{M}^{\text{II}}_2$ Homo- and Heterotetranuclear Complexes ($\text{M} = \text{Cu, Co, Mn}$) by Using Mononuclear Cu^{II} Building Unit with N_2O Aminoalcohol Ligand (Nara Women's Univ.) YAMASHIRO, Chisako; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2PA-136** The synthesis of the macrocyclic copper complex having the amide bond and About O_2^- reactivity (Matsushita laboratory) FUJII, Shinya; FUJIWARA, Manabu; MATSUSITA, Takayuki
- 2PA-137** The synthesis of a metal complex catalyzing polyphosphate bond (Tokyo Univ. of Science) KAWAYAUCHI, Naoto; MIYAZATO, Yuji; TADOKORO, Makoto
- 2PA-138** Luminescence mechanochromism of silver(I) complexes with a phosphine sulfide ligand. (Department of Materials and Life Science, Seikei Univ.) KAWASE, Marina; DAIRIKI, Ayumi; MATSUMOTO, Kenji; TSUKUDA, Toshiaki; TSUBOMURA, Taro

- 2PA-139** Preparation of Au complex with 4-tert-butylbenzylthiol and adherence behavior to Au nanoparticles. (Ibaraki Univ.) NUMATA, Yasuhiro; IZUOKA, Akira
- 2PA-140** Reaction Products of Silver(I) *N*-Acetylglucinate Complex with Bis (diphenylphosphino)methane and Their Interconversion (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; TSURUTA, Shinichiro; HARA, Akihiro; CHIKARAISHI, Noriko
- 2PA-141** Synthesis and Interconversion of Hexanuclear and Dinuclear Silver (I) Complexes Formed with Pentafluorobenzenethiol and Methyl-diphenylphosphine (Kanagawa Univ. Faculty of Science) NOMIYA, Kenji; KUWANA, Wataru; TSURUTA, Shinichiro; CHIKARAISHI, Noriko

main group metals

- 2PA-142** Supramolecular Structure of *de-tert*-Butyl-thiacalix[4]arene- Cesium complex (Akita university) SHIMAKAWA, Yoshifumi; YAMADA, Manabu; KONDO, Yoshihiko; HAMADA, Fumio
- 2PA-143** Crystal structure of thiocalix[4]arene-rubidium complex (Akita Univ.) YAMADA, Manabu; SHIMAKAWA, Yoshifumi; KONDO, Yoshihiko; HAMADA, Fumio
- 2PA-144** Elucidation of Reactivity of Dihydrosilanes Bearing Sulfide Moieties (Graduate School of Engineering, Gunma Univ.) IMAMURA, Ayako; TAKEDA, Nobuhiro; UNNO, Masafumi
- 2PA-145** Studies on The Generation of a 1,2-Dihydrosilene Bearing a Bulky Substituent (Inst. for Chem. Res., Kyoto Univ.) MIEDA, Eiko; SASAMORI, Takahiro; TOKITOH, Norihiro
- 2PA-146** Synthesis of novel silanols bearing functionalized substituents (Graduate School of Engineering, Gunma) TAKIZAWA, Akira; UNNO, Masafumi
- 2PA-147[†]** Reaction and Application of Vinylsilsequioxane (Kanagawa Univ.) KAWAKAMI, Yoshiteru; TANAKA, Shogo; KABE, Yoshio
- 2PA-148** Synthetic Studies of Pyrene Analogues Containing Two Heavier Group 14 Atoms (Institute for Chemical Research, Kyoto Univ.) SAKAI, Kiyomichi; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 2PA-149** New Synthetic method of *N*-heterocyclic Silylene (Kurashiki Univ. of Science and Arts) OKADA, Tomoyuki; NAKA, Akinobu
- 2PA-150** Synthesis of silole-core carbosilane dendrimer having carbohydrate and its optical properties. (Saitama Univ.; Graduate School of Science and Engineering) MORI, Shota; HATANO, Ken; HONSHO, Nobuaki; KOYAMA, Tetsuo; MATSUOKA, Koji; TERUNUMA, Daiyo
- 2PA-151** Study on Synthesis of Hypervalent Compounds Bearing a Bond between a Pentacoordinated Silicon Atom and a Pentacoordinated Germanium Atom (The Univ. of Tokyo) YOSHINARI, Naohito; KANO, Naokazu; KAWASHIMA, Takayuki

transition metals

- 2PA-152** Preparation of Amido-Imino and Diamido Complexes of group 4 Metals by the Controlled Benzoylation of α -Diimine Ligands and Their Application as Catalyst Precursors for Hydroamination (Graduate School of Engineering Science, Osaka Univ.) KANEKO, Hiroshi; TSURUGI, Hayato; MASHIMA, Kazushi; OHNISHI, Ryuji
- 2PA-153** Reactions of Alkynyltin Compounds with a Zirconocene Complex (Graduate School of Natural Science and Technology, Okayama Univ.) NISHIHARA, Yasushi; OKADA, Yoshiaki; TAKAGI, Kentaro
- 2PA-154[†]** Synthesis of Niobium(III) and Tantalum(IV) Hydride Complexes Supported by Calix[4]arene (Tokyo Institute of Technology) WATANABE, Takahito; KAWAGUCHI, Hiroyuki
- 2PA-155** Dehydrogenative silylation of alcohols catalyzed by silylmolybdenum complex (Yokohama National Univ.) ENDOU, Tomohiro; MINATO, Makoto
- 2PA-156** Synthesis of an iron-isocyanide-iminophosphorane complex and its intramolecular cyclization by a hydroboration reaction (Hiroshima Univ.) MURAKAMI, Tetsuya; KUBO, Kazuyuki; BABA, Takayuki; MIZUTA, Tsutomu; MIYOSHI, Katsuhiko
- 2PA-157** Vapor adsorption and desorption-controlled co-conformational changes of [2]pseudorotaxane in the solid state (Tokyo Inst. of Tech., Chem. Res. Lab.) SUZAKI, Yuji; ABE, Tomoko; HASHIZUME, Daisuke; OSAKADA, Kohtarō
- 2PA-158** Reduction of carboxyamides catalyzed by photo- or thermo-activated iron carbonyl complexes (Graduate School of Engineering Sciences, and Institute for Materials Chemistry and Engineering, Kyushu Univ.) SUNADA, Yusuke; KAWAKAMI, Hiroko; NAGASHIMA, Hideo
- 2PA-159** Syntheses of Novel Dinuclear Ruthenium Complexes having NO Ligands (Nagasaki Univ.) YAMAGUCHI, Soseki; NISHIMURA, Yoshimasa; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke; ONISHI, Masayoshi
- 2PA-160** Syntheses of Pyrazolato Bridged Dinuclear Ruthenium Complexes having Tp Ligands (Nagasaki Univ.) KODAMA, Mika; MATSUMOTO, Naoki; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke; ONISHI, Masayoshi
- 2PA-161** Silane - Induced Polymerization of Functionalized Oxetanes Catalyzed by A Triruthenium Carbonyl Cluster : Study of Effect of Substituents and Its Application to Copolymerization (Graduate School of Engineering Sciences, Institute for Materials Chemistry and Engineering, Kyushu Univ.) HARADA, Nariaki; YASUHARA, Jyushirou;

- MOTOYAMA, Yukihiro; NAGASHIMA, Hideo
- 2PA-162** Application of clay-supported Ru-TPA complex to catalytic oxidation system (Tokyo Metropolitan Univ., Faculty of Urban Environmental Science, Department of Applied Chemistry) MIZUNO, Yoshitaka; SATO, Kiyoshi; YAMAGUCHI, Motowo
- 2PA-163** Synthesis, Characterization, and Reactions of Rh tetranuclear Complexes with Tetrakisphosphine Ligand (Nara Women's Univ.) KURAI, Sachi; YOSHII, Akiko; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2PA-164** Synthesis of RhIr Heterodinuclear Complexes with SN_2 Mixed Donor Ligand and Their Metal Exchange Behavior in Solution (Nara Women's Univ.) KAWASAKI, Yuki; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2PA-165** Catalytic Hydrogenation of Unsaturated Hydrocarbons by Polynuclear Rhodium Complexes Bearing PNNP Ligand. (Tokyo Institute of Technology; Chemical Resources Laboratory) ASADA, Kanako; KOIKE, Takasi; AKITA, Munetaka
- 2PA-166[†]** Diastereoselective Oxidative Addition of Alkyl Halides to Iridium(I) Complexes Having a Planar-Chirality (Department of Chemistry, Faculty of Science, Nara Women's Univ.) TSUBAKIMOTO, Aya; URA, Yasuyuki; KATAOKA, Yasutaka
- 2PA-167** Catalytic Activity of the Ir(III) π -allyl Complex Bearing the Cp'-P Ligand for Allylic Alkylation (Faculty of Science, Nara Women's Univ.) YAMASHITA, Hiroko; URA, Yasuyuki; KATAOKA, Yasutaka
- 2PA-168** Synthesis and Structure of Group 10 Complexes Having Acetylide (silyl) Substituent (Chemical Resources Laboratory, Tokyo Institute of Technology) YABE, Mako; OSAKADA, Kohtarō
- 2PA-169** Conversion of hydrogermanes to Arylgermanes with Palladium Catalyst (Univ. of Tokyo, School of Science, Department of Chemistry) KONDO, Hitoshi; OHSHIMA, Norikazu; YAMANOI, Yoshinori; NISHIHARA, Hiroshi
- 2PA-170** Reactions of Linear Pt_3 and Pt_2Pd Trinuclear Complexes Supported by Tridentate Phosphine Ligands with Hg (II) Ions (Nara Women's Univ.) HOSOKAWA, Aya; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2PA-171** Electronic Effects of Novel Chiral Fluorine-containing Diphosphine Ligands for Transition Metals (Okayama Univ.) KORENAGA, Toshinobu; OSAKI, Kazutaka; MAENISHI, Ryota; AKAKI, Yusuke; EMA, Tadashi; SAKAI, Takashi

Saturday, March 28, AM

(12 : 30~14 : 00)

Education and History

- 2PB-001** The development of the novel chemical experiment using hair as a familiar material (Ibaraki Univ.) MATSUKAWA, Satoru; MAEDA, Arata
- 2PB-002** Chemical Teaching Material of Elementary school by Science Picuturs (Aichi Univ. of Education) NAGANUMA, Takeshi; HASHIMOTO, Azusa
- 2PB-003** Practice of Chemical Experiments Using Easily Available Chemical Substances (AIST) FUJITA, Ken-ichi; HASHIMOTO, Mika
- 2PB-004** Hand-made Molecular Models in the Classroom -the Invitation for Basic Organic Chemistry- (Tomakomai National College of Technology) YAMAGUCHI, Kazumi; SASAMURA, Yasuaki
- 2PB-005** Detection of reducing organic substances using gold (III) compound supported on chitin (Tokyo Univ. Sci.) KITO, Mayumi; INOUE, Masayuki
- 2PB-006** Saponification of esters accelerated by cationic surfactants (Tokyo Univ. Sci.) KATO, Yuko; INOUE, Masayuki
- 2PB-007** Synthesis of aldehydes with fragrances (Tokyo Univ.Sci.) JYOHGUCHI, Emi; INOUE, Masayuki
- 2PB-008** Development of the catalyst for rapid aerobic oxidation of benzaldehyde (Tokyo Univ. Sci) HARADA, Yu; INOUE, Masayuki
- 2PB-009** Microscale Experimental Material of Cumene Process (I) (Tokyo Univ. Sci.) HIROSE, Jun; INOUE, Masayuki
- 2PB-010** The measurement of color transitions/changes by web-camera (Tokai Univ.) OIKAWA, Yoshimichi; OKUDA, Tomizo; TAKANO, Jiro
- 2PB-011** Photochemistry as subject matter for recurrent education of school teacher. A practice in a preliminary class of a renewal system for teacher licenses. (Univ. of the Ryukyus) KANNA, Yoko
- 2PB-012** Development of direct spectrum measurement method for artificial salmon roe (Kobe College Junior and Senior High School) IKEDA, Ikuhiro
- 2PB-013** Effective use of ICT to support photochemical education-Teaching material of photosensitized solar cell- (Faculty of Education and Culture, Univ. of Miyazaki) NAKABAYASHI, Kenichi
- 2PB-014** Some Organic Dyes as Teaching Materials for Chemistry (Hiroshima Univ.) AMIMOTO, Kiichi; YAMANE, Yuko; KOGA, Nobuyoshi; FURUKAWA, Yoshihiro
- 2PB-015** Study of terms related to Basic Chemistry in Registered Dietician National Examination (KYOTO COLLEGE OF NUTRITIONAL & MEDICAL SCIENCES) KITAMURA, Shinzou
- 2PB-016** The analysis of the influence of the diversification of career path on the career consciousness of chemical doctors (Hakasenoiikata) OKUI, Takao
- 2PB-017** Some Investigations of Nominal Compounds in Coordination Chemistry Papers written in English (Sophia Univ.) KAWAHARA,

Tatsuro; INOMATA, Yoshie; HOWELL, F. S.

- 2PB-018** Misuses of English seen often when non-native chemists write English articles-II (Sophia Univ.) HOWELL, F. S.; YAMADA, Hiroshi; INOMATA, Yoshie

Catalysts and Catalysis

Catalyst Preparation

- 2PB-021** Synthesis of Aluminium Oxide-supported Copper-Zinc Nanoparticles by the Liquid-Phase Reduction Method (IMRAM Tohoku Univ.) YAGIHASHI, Noritoshi; NAKAYA, Masafumi; KANIE, Kiyoshi; MURAMATSU, Atsushi
- 2PB-022** Catalyst property of WO_3/ZrO_2 prepared using hydrothermal synthesis method (Tokyo Gakugei Univ.) INOISHI, Atsushi; OGAWA, Haruo; YOSHINAGA, Yusuke
- 2PB-023** Radiation synthesis of noble metal nanoparticle catalyst (Graduate School of Engineering, Osaka Univ., Graduate School of Engineering, Tokyo Institute of Technology, Japan Electron Beam Irradiation Service, Co. Ltd., Hitachi Maxwell, Ltd.) SEINO, Satoshi; YAMAMOMOT, Takao A.; NAKAGAWA, Takashi; UENO, Koji; DAIMON, Hideo
- 2PB-024** Immobilization of heteropoly compounds and study of catalytic property (Tokyo Gakugei Univ.) MOCHIZUKI, Hiroshi; OGAWA, Haruo; YOSHINAGA, Yusuke

Hydrogenation/Dehydrogenation

- 2PB-025** Enantio-differentiating hydrogenation of 2-octanone over an in situ modified nickel catalyst—Effects of the addition of co-modifiers (Univ. of Toyama; Ryukoku Univ.) OSAWA, Tsutomu; NAKAGAWA, Yuki; LEE, I-Yin Sandy; HARADA, Tadao
- 2PB-026** Kinetics study of olefin hydrogenation over Pt nanoparticles encapsulated in hollow porous carbon (Research Center for Solar Energy Chemistry, Osaka Univ.) HARADA, Takashi; HASHIMOTO, Fumihiko; TORIMOTO, Tsukasa; IKEDA, Shigeru; MATSUMURA, Michio
- 2PB-027** Enantio-differentiating hydrogenation of methyl acetoacetate over modified Raney nickel catalyst prepared by two-step modifications: effects of in-situ modification and reaction conditions (Ryukoku Univ.; Univ. of Toyama) FUJITA, Satoshi; OSAWA, Tsutomu; HARADA, Tadao

Energy and Environment

- 2PB-028** Steam reforming of ethanol over metal oxide promoted Pt/SiO₂ catalysts (Univ. of Tsukuba, Institute of Materials Science) ITO, Shin-ichi; TOMISHIGE, Keiichi; KUNIMORI, Kimio
- 2PB-029** Oxidation Catalyst of Nobel Metal Nanoparticles Occluded in Ceria (Tokyo Univ. of Science, Yamaguchi) CHIKU, Hiroshi; UCHIDA, Kumiko; TOSHIMA, Naoki
- 2PB-030** Preparation of New AuTiO₂ Nanoparticle Catalysts and Their Catalytic Activity for Glucose Oxidation. (Tokyo Univ. of Science, Yamaguchi) UCHIDA, Kumiko; CHIKU, Hiroshi; TOSHIMA, Naoki
- 2PB-031** Synthesis of Methylglyoxal from by vapor phase oxidation reaction (Meiji Univ. School of science and technology; Organic industrial chemistry lab.) MORI, Satoshi; KURATA, Takeo
- 2PB-032** Novel Synthesis of AgAu Bimetallic Nanoparticles, and Their Catalytic Properties for oxidation (Dept. of Materials Sci. and Environmental Engi., Tokyo Univ. of Sci., Yamaguchi) TAKASAKI, Kanako; TOKONAMI, Shihō; CHOU, Kaigun; TOSHIMA, Naoki
- 2PB-033** Polymerized ionic liquid phase vanadium oxide-catalyzed oxidation of alkanes (Tokyo Institute of Technology) TANIGUCHI, Yuki; MAKIOKA, Yoshikazu; TAKAISHI, Yuta
- 2PB-034** The Behavior of Oxidative Reaction for Organic Matter using Hydrogen Peroxide in Ultrasonic Irradiation on Metal Oxides Catalyst (Toin Univ. of Yokohama) HANEDA, Kenichiro; KISHIDA, Takashi; NISHIMURA, Seiji; MORINAGA, Shigeo
- 2PB-035** Effect of addition of La on catalytic activity of Pd/Cab-O-Sil for reduction of N₂O (Tokyo Gakugei Univ.) SEKINE, Kaori; OGAWA, Haruo; YOSHINAGA, Yusuke
- 2PB-036** Effect of acid property of supports on reduction of N₂O (Tokyo Gakugei Univ.) KUROKI, Natsuko; OGAWA, Haruo; YOSHINAGA, Yusuke
- 2PB-037** Direct decomposition of N₂O over potassium-doped Co₃O₄ catalysts (Kyoto Univ.) YOSHINO, Hiroaki; OHNISHI, Chie; HOSOKAWA, Saburo; WADA, Kenji; INOUE, Masashi

Acid and Base Catalyst

- 2PB-038** Investigation of acid property of SiO₂-ZrO₂ catalyst modified with WO₃ or MoO₃ (Tokyo Gakugei Univ.) OMATA, Kaori; OGAWA, Haruo; OGAWA, Yusuke
- 2PB-039** Effect of surface property of SiO₂-ZrO₂ catalysts on catalytic activity for acid catalyzed reactions (Tokyo Gakugei Univ.) KISO, Misato; OGAWA, Haruo; YOSHINAGA, Yusuke
- 2PB-040** Investigation of the acid property and catalytic activity for dehydration of alcohols over W/Zr-MCM-41 (Tokyo Gakugei Univ.)

YAMAZAKI, Hiroshi; OGAWA, Haruo; YOSHINAGA, Yusuke

- 2PB-041** Carbonyl-ene reaction using microwave irradiated solid acid catalyst (Meiji Univ. School of science and technology; Organic industrial chemistry lab.) NOGUCHI, Masahiro; KURATA, Takeo

Zeolite

- 2PB-042** Decomposition of Volatile Organic Halogen Compounds (VOHC) by novel Fe²⁺ loaded catalyst (Ariake National College of Technology) NAGATA, Kozue; FUJIMOTO, Daisuke
- 2PB-043** Synthesis of polymorph A-rich BEA type zeolite in the presence of fluoride (Hiroshima Univ.) SHIBATA, Shohei; INOUE, Takayuki; ITAKURA, Masaya; OUMI, Yasunori; TAKAMITSU, Yasuyuki; SANO, Tsuneji
- 2PB-044** Adsorption characteristics of all silica CIT-5 type zeolite (Toyama National College of Technology) SHINTANI, Yuya; KAWAI, Takae
- 2PB-045** UV-Vis Spectroscopic Studies of Ethanol dehydration over Zeolites (AIST) TAKAHARA, Isao; INABA, Megumu; MURATA, Kazuhisa
- 2PB-046** Propylene production from butanol-ethanol system with H-ZSM-5 catalysts (Ibaraki College of Technology) YAMAGATA, Nobutsugu; KAWAKAMI, Yutaka; NAGOYA, Toshiaki
- 2PB-047** Influence of Framework Structure of Zeolite on Interzeolite Conversion (Hiroshima Univ.) OTA, Kai; INOUE, Takayuki; ITAKURA, Masaya; OUMI, Yasunori; SANO, Tsuneji
- 2PB-048** Conversion of ethanol over ZSM-5 type zeolite synthesized under atmospheric pressure (Hiroshima Univ.) HARADA, Yasumitsu; GOTO, Daisuke; OUMI, Yasunori; TAKAHASHI, Atsushi; FUJITANI, Tadahiro; SANO, Tsuneji
- 2PB-049** Hydrogen generation from water on silica fiber supported zeolite prepared by electrospinning method (Univ. of Hyogo) YAMADA, Haruki; FUKUTSUKA, Tomokazu; MATSUO, Yoshiaki; SUGIE, Yosohiro
- 2PB-050** Sustainable Organic Synthesis of 1,8-cineol with Zeolite. (Yamagata Univ., Faculty of Science, Department of Material and Biological Chemistry) KURIYAMA, Yasunao; ITOH, Hiroki; KURIHARA, Yuka

Mesoporous Material

- 2PB-051** Degradation behavior of surfactant P123 in SBA-15 and its acidic performance (Hiroshima Univ.) KUBOTA, Yuka; SUMIYA, Sadanobu; OUMI, Yasunori; SANO, Tsuneji
- 2PB-052** Synthesis of aluminum incorporated mesoporous silica by using anionic surfactants (Hiroshima Univ.) FUJIWARA, Jun; SUMIYA, Sadanobu; OUMI, Yasunori; SANO, Tsuneji

Photocatalysis

- 2PB-053** Hydrogen production from water using porous ruthenium coordination polymer photocatalyst (Kanagawa-university) KATAOKA, Yusuke; MORI, Wasuke
- 2PB-054** Photo-decomposition of Water using Porous material sensitized Porphyrin (Kanagawa-university) SATO, Konomi; KATAOKA, Yusuke; MORI, Wasuke
- 2PB-055** Water splitting reaction using Ru coordination polymer complex selected straight chain dicarboxylate acid ligand (Kanagawa-university) MIYAZAKI, Yuhei; KATAOKA, Yusuke; KIHARA, Nobuhiro; MORI, Wasuke
- 2PB-056** Preparation and photocatalytic property of MoO₃ and Ag loaded BiVO₄ photocatalyst. (Musashi Institute of Technology) ENDO, Hiromitsu; JANG, Hgjiang; TAKAHASHI, Masashi; KOBAYASHI, Kouiti
- 2PB-057** Preparation of visible light-responsive titanium dioxide photocatalysts by N,S-codoping and characterization of their photocatalytic activities (Musashi institute of technology) KANDO, Yuuta; TAKAHASHI, Masashi; KOBAYASHI, Koichi
- 2PB-058** Photocatalytic activity of structure-controlled rutile TiO₂ rod via hydrothermal synthesis (Kyushu Institute of Technology) KATAYAMA, Satoshi; MURAKAMI, Naoya; Tsubota, Toshiki; OHNO, Teruhisa
- 2PB-059** Design of pseudo-fixed bed slurry-type photocatalytic reactor (Kinki Univ.) NAKANO, Naoki; IWASAKI, Shin-ichi; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 2PB-060** Shape Effect of Ni Supported TiO₂ Nanoparticles on the Photocatalytic Activity (Tohoku Univ.) ENDO, Mitsuhiko; YOSHINAGA, Masaki; NAKAYA, Masafumi; KANIE, Kiyoshi; MURAMATSU, Atsushi
- 2PB-061** Photocatalytic decomposition of water using double-layered visible light-responsive TiO₂ thin films. (Graduate School of Engineering, Osaka Prefecture Univ.) TODE, Ryohei; TAKEUCHI, Masato; MATSUOKA, Masaya; ANPO, Masakazu
- 2PB-062** Effect of addition of Nb to TiO₂ catalyst and influence of crystal structure of TiO₂ on photocatalytic reduction of nitrate (Tokyo Gakugei Univ.) HOSAKA, Satoki; IKUO, Akira; YOSHINAGA, Yusuke; OGAWA, Haruo
- 2PB-063** Photocatalytic property of urea-derived compound prepared by thermal condensation of urea (Graduate School of Science and Engineering, Yamaguchi Univ.) SAKATA, Yoshihisa; YOSHIMOTO, Kazuki; KAWAGUCHI, Keisuke; IMAMURA, Hayao; HIGASHIMOTO, Shinnya

- 2PB-064** The relationship between formation of active oxygen species and photocatalytic properties of BiVO₄ (Faculty of Science, Tokyo Univ. of Science) YOKOTE, Yuhmi; IWASE, Akihideo; SAITO, Kenji; KOHTANI, Shigeru; KUDO, Akihiko
- 2PB-065** Selective Photooxygenation with Molecularly-Imprinted Polymeric Sensitizers (Osaka Univ.) SUZUKI, Takeshi; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 2PB-066** Oxidation reaction of monosubstituted phenanthrene with TiO₂ photocatalyst (Osaka Pref. College of Tech; Research Center for Solar Energy Chemistry, Osaka Univ.) HIGASHIDA, Suguru; ISHIHARA, Kouta; IRIE, Yasuyuki; JINNAI, Seiho; MATSUMURA, Michio
- 2PB-067** Photocatalytic water splitting using porous ruthenium coordination polymer-supported Pt (Kanagawa-university) MASUDA, Kazuki; KATAOKA, Yuusuke; NAITO, Shuichi; MORI, Wasuke
- 2PB-068** Development of a visible light responsive photocatalyst by surface modification of anatase titanium(IV) oxide by iron ion (Kyushu Institute of Technology) UEGAKI, Jun; MURAKAMI, Naoya; TUBOTA, Toshiaki; OHNO, Teruhisa
- 2PB-069** Fabrication and photocatalytic activity of Ag loaded BiVO₄ catalyst. (Musashi Institute of Technology) NAGATOMO, Yoshiki; JANG, Hgjiang; TAKAHASHI, Masashi; KOBAYASHI, Kouiti

organic synthesis

- 2PB-070** Catalytic dehydrogenation of alcohol over hexanuclear molybdenum sulfide clusters (RIKEN; Graduate School of Science and Engineering, Saitama Univ.) KAMIGUCHI, Satoshi; NAGASHIMA, Sayoko; CHIHARA, Teiji
- 2PB-071** Effect of the promoters on the nitrile hydration catalyzed by single metal nanoparticles (Okayama Univ.; Res. Cener for Adv. Tech.) ISHIZUKA, Akinori; OSHIKI, Toshiyuki; NAKAZAKI, Yoshiaki; TAKEDA, Shinichi
- 2PB-072** Withdrawn
- 2PB-073** Regioselective Addition of Carboxylic Acids to Alkynes Promoted by Metal Oxide-supported Ruthenium Catalysts (Kyoto Univ.) NISHIUMI, Masami; MIURA, Hiroki; WADA, Kenji; HOSOKAWA, Saburo; INOUE, Masashi

Resources Utilization Chemistry

Biomass

- 2PB-075** Properties of Subcritical Alcohol Extracts from Defatted Rice Bran (Ind Tech Ctr of Wakayama Pref) HOSODA, Asao; MORI, Hajime; MIYAKE, Yasuhito; TANAKA, Yoshie; KOBATA, Toshitugu; TSUNO, Takuo; ADACHI, Shuji; TANIGUCHI, Hisaji
- 2PB-076** Analysis of Rice Bran Extracts Using ELSD (Industrial Technology Center of Wakayama Prefecture) TANAKA, Yoshie; HOSODA, Asao; MORI, Hajime; MIYAKE, Yasuhito; OSAKI, Shusuke; KOBATA, Toshitsugu; TSUNO, Takuo; TANIGUCHI, Hisaji
- 2PB-077** Influence of Emulsification State in the BDF Synthesis Using Various Acid Catalysts (College of Industrial Technology, Nihon Univ.) UEHARA, Yoshihiro; FURUKAWA, Shigeki; OKADA, Masaki
- 2PB-078** Selective adsorption of ethanol from bioethanol by using Ti-containing zeolites (Hiroshima Univ.) HONDA, Koutaro; OUMI, Yasunori; Ikegami, Toru; NEGISHI, Hideyuki; SAKAKI, Keiji; SANO, Tsuneji
- 2PB-079** Rapid Saccharification of Mitsuishi Kombu with Hydrothermal Treatment and Enzymatic Hydrolysis. (Kochi Univ., Res. Lab. Hydrothermal Chem.) OKUDA, Kazuhide; ONDA, Ayumu; KAJIYOSHI, Koji; YANAGISAWA, Kazumichi

Others

- 2PB-080** Experimental and thermodynamic investigation on gas hydrates equilibria in aqueous solutions of alcohols (AIST) MAEKAWA, Tatsuo
- 2PB-081** Development of novel hydrogen gas generator by irradiation of microwave combined with water-carbon system (College of Engineering, Nihon Univ.) AIDA, Makoto; TAKAHASHI, Yasuto; HIRAYAMA, Kazuo
- 2PB-082** Photoreduction of CO₂ in artificial seawater over a ZnO thin film (sol-gel) coated glass slides and Pt/ZnO supported on glass wool (Univ. of Meisei; EPFC) HONJO, Haruo; KYOU, Sizuko; HIDAKA, Hisao
- 2PB-083** Synthesis of hydroxyapatite using ammonia micro-bubbles (Chiba Inst. of Technology) TAMAI, Hiroaki; MATSUMOTO, Masakazu; SUZUKI, Masato; ONOE, Kaoru
- 2PB-084** Chemical Recycling of Polyethylene by Catalytic Degradation into BTX - Activities of MFI Catalysts for Aromatization (MURORAN INSTITUTE OF TECHNOLOGY) HIRAGA, Masayuki; SEINO, Akio; KANDA, Yasuharu; SUGIOKA, Masatoshi; UEMICHI, Yoshio

Environmental and Green Chemistry, Geo and Space Chemistry

- 2PB-087** Measurements of carbon dioxide concentration in closed horticultural facilities by the open-path FTIR spectroscopy (Tokyo Univ. Agricult. &

Technol.) YOSHIMURA, Norio; NAKASHIGE, Kenji; TOHGI, Shungo; MIKI, Kentaro; TAKAYANAGI, Masao

2PB-088 Examination of the analysis of substances such as Nitrogen-Containing Aromatic Compounds, benzopyrene and chrysene which I used LC/MS for. (Graduate School of Science, Tokai Univ.) KITAHARA, Takio; IKEGAMI, Ryo

2PB-089 Deposition of air pollutants on Mt. Oyama (Faculty of Engineering, Kanagawa Univ.) SAKURAI, Ryou; ITOU, Hajime; IGAWA, Manabu

2PB-090 Concentration and behaviors of humic-like substances (HULIS) in aerosol (Faculty of Engineering, Kanagawa Univ.) TAKAGI, Yuji; IGAWA, Manabu

2PB-091 Analysis of volatile organic compounds and their atmospheric behaviors in Yokohama (2) (Faculty of Engineering, Kanagawa Univ.) MATSUMOTO, Kumi; MIZUNO, Riichi; MATSUMOTO, Kiyoshi; KANEYASU, Naoki; IGAWA, Manabu

2PB-092 Measurement of Gaseous Toluene Concentration by Absorption in Nano Porous Glass and Near Infrared Spectroscopy (Josai Univ.) INUDZUKA, Shunsuke; KONNO, Toichi; OZAKI, Yasushi; UTIYAMA, Masahiro; NAGASAWA, Hiroshi

2PB-093 Various Kinds of Simple and Easy Method of Measuring NO₂ Air Pollution for Inspecting Manipulation of Air Pollution Data AMAYA, Kazuo

2PB-094 Concentration fluctuations of polycyclic aromatic hydrocarbons in sediments and benthos on a tidal flat. (Toho Univ.) SAKAZUME, Tomohiko; ONOZATO, Mayu; OHSHIMA, Shigeru; NISHIGAKI, Atsuko

2PB-095 Reduction of nitrate ions in water over Pd-Cu/TiO₂ catalysts (Kyoto Univ.) HIRATA, Tomoaki; HOSOKAWA, Saburo; IWAMOTO, Shinji; INOUE, Masashi

2PB-096 Study of freeze concentration separation by mixing liquid-liquid (Graduate School of Environmental Earth Science, Hokkaido Univ.) DAI, Yingjie; TEDUKA, Masahiro; TANAKA, Shunitz

2PB-097 Decomposition of Aqueous Chloroacetates by Contact Glow Decomposition of Aqueous Chloroacetates by Contact Glow Discharge Electrolysis (Saitama Institute of Technology) BAI, Liang; TOMIOKA, Kyoji; TEZUKA, Meguru

2PB-098 Mineralization of Aqueous Chlorophenols by Contact Glow Discharge Electrolysis (Saitama Institute of Technology) YANG, Haiming; MATSUMOTO, Yuki; TEZUKA, Meguru

2PB-099 The continuous generation of active oxygen species and the efficiency improvements III (Toin Univ. of Yokohama) HORIKAWA, Keijiro; AKAIKE, Naoki; SAITOU, Kiyoshi

2PB-100 Electro-dechlorination of Chlorophenols by Using Pd-supported Carbon Electrode (Saitama Institute of Technology) CAI, Xia; MATSUNAGA, Atsushi; TEZUKA, Meguru

2PB-101 Mineralization of Aqueous Halophenols by Contact Glow Discharge Electrolysis (Saitama Institute of Technology) MATSUMOTO, Yuki; YANG, Haiming; TEZUKA, Meguru

2PB-102 Fieldwork of Asbestos-Detection in River Water (Yokohama City Univ.; Kanagawa Environmental Research Center) KATOH, Takayuki; SAKAMOTO, Terumasa; SHINOZAKI, Kazuteru

2PB-103 Analysis of mutagenic compounds and endocrine disruptors in Sagami bay area (Kanagawa Inst. Technol.; Ntl. Inst. Environ. Std.; Kinki Univ.) TAKAMURA, Takeji; OHIGAWA, Haruna; SHIRAIISHI, Fujio; ODA, Yoshimitsu

2PB-104 Study on purification system in the Shibaura canal based on the analyses of sediments and pore waters (Tokyo Univ. of Marine Science and Technology; Graduate School of Arts and Sciences, The Univ. of Tokyo) HASEGAWA, Atsushi; TANAKA, Miho; MATSUO, Motoyuki

2PB-105 Measuring the Oocyst wall breaking process of Cryptosporidium parvum with high concentration ozone water by FITC staining method (Shinshu Univ, JENTED) SUZUKI, Haruhito; TANAKA, Nobuaki; FUJII, Tsuneo; NISHIKIORI, Hiromasa; HIROTA, Osamu; YAMAKAWA, Mitsuru

2PB-106 Removal of Boron by Coagulation-Sedimentation using alkylglucanamides (Kowa Research Institute, Kowa Company Ltd.) SUZUKI, Hironori; YABUSAKI, Katsumi

2PB-107 Oxidative Degradation of Pentachlorophenol by an Iron(III)-porphyrin-Humic Acid Supramolecular Catalyst (Graduate School of Engineering Hokkaido Univ.) SHIGEMATSU, Satoko; FUKUSHIMA, Masami

2PB-108 Reuse of printing toner wastes as antibacterial materials (Yamagata Univ.; Faculty of science) OHYA, Norimasa; CHIBA, Mizuho; KIJIMA, Tatsuro; MAKI, Yuji

2PB-109 Relationship between the structure and the toxicity of p-hydroxybenzoates (Department of Chemistry, School of Science, Tokai Univ.) ISHIHARA, Yoshimi; KATAOKA, Keiichi; SAITO, Hiroshi; TAKANO, Jiro

2PB-110 Synthesis of inorganic clean pigments using liquid-ammonia process (Kinki Univ.) SASAKI, Yoh; TOKUYASU, Zentarou; ONO, Yoichi; HAYASHI, Shuhei

2PB-111 Oxidative reaction behavior of cyclohexanone and related compounds using polyaniline (Toin Univ. of Yokohama) YAMADA, Yuki; ASAHINA, Kenta; SAITO, Kiyoshi

2PB-112 Fabrication of capillary reactors coated with thin metal films (Pd, Pt) and the application to continuous decomposition of H₂O₂ (National Institute

for Advanced Industrial Science and Technology (AIST), Research Center for Compact Chemical Process) JAVAID, Rahat; TANAKA, Alfredo; KAWANAMI, Hajime; SUZUKI, Toshishige

- 2PB-113** Photocatalytic decomposition of PAH under the supercritical CO₂ (nagaoka university of technology) MURAKAMAI, Yoshinori; SAITO, Hironobu; NOSAKA, Yoshio
- 2PB-114** Photocatalytic Activity of Anatase Titanium(IV) Oxide Octahedral Single-Crystalline Mesoparticles (Hokkaido Univ.) AMANO, Fumiaki; YASUMOTO, Taikei; PRIETO MAHANEY, Orlando Omar; OHTANI, Bunsho
- 2PB-115** The promoting effect of the photocatalytic degradation rates of the organic compounds in water containing sulfate ion (Nagoya Municipal Industrial Research Institute) KISHIKAWA, Nobuyuki; OOKA, Chihiro; YOSHIDA, Hisao
- 2PB-116** Evaluation of the photocatalytic ability of C₆₀ and development of the fixation method (shinshu Univ.) SENNI, Takashi; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo

Saturday, March 28, PM

(15 : 00~16 : 30)

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

- 2PC-001** Asymmetric Michael Addition Catalyzed by Novel Chiral Azacrown ethers as Aminocatalysts (Osaka Kyoiku Univ.) HORI, Kazushige; NISHITANI, Masato; TANI, Keita; TOHDA, Yasuo
- 2PC-002** Direct asymmetric aldol reaction of trifluoroacetaldehyde ethyl hemiacetal with acetophenone derivatives using asymmetric organocatalyst (Gifu university) FUNABIKI, Kazumasa; ITO, Yuya; KUBOTA, Yasuhiro; MATSUI, Masaki
- 2PC-003** Catalytic Asymmetric Ring-Opening Reaction of Aziridines Using Heteroarylsulfonyl Groups : Asymmetric Synthesis of U-50,488 (Nagoya Institute of Technology) HAYASHI, Masashi; KAMADA, Yasutoshi; HIRAMATU, Yuichi; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
- 2PC-004** MCM-41 supported amine-catalyzed direct aldol reaction of trifluoroacetaldehyde ethyl hemiacetal with aldehydes (Gifu university) FUNABIKI, Kazumasa; GONDA, Hiroshi; KUBOTA, Yoshihiro; KUBOTA, Yasuhiro; MATSUI, Masaki
- 2PC-005** Asymmetric allylation of aldehydes by a chiral sulfamide (Faculty of Textile Science and Technology, Shinshu Univ.) YAGASE, Shinya; FUJIMOTO, Tetsuya
- 2PC-006** Asymmetric Michael Addition to α, β -Unsaturated Aldehydes with Organocatalyst Derived from *trans*-4-Hydroxyproline (Faculty of Science, Ibaraki Univ.) SATO, Hisayuki; ORIYAMA, Takeshi
- 2PC-007** Synthesis of Optical Active Lactones by Organocatalytic Asymmetric α -Hydroxymethylation (Shizuoka Univ.) KAWANO, Yasuhiro; INOUE, Azusa; MASE, Nobuyuki; TAKABE, Kumihiko
- 2PC-008** Synthesis of Shogaol by Use of Dimethylammonium Dimethyl Carbamate (DIMCARB) (Shizuoka Univ.) KITAGAWA, Norihiko; MASE, Nobuyuki; TAKABE, Kumihiko
- 2PC-009** Mannich-type reaction of ketene silyl acetals with oxime esters promoted by pentafluorophenylammonium trifluoromethanesulfonamide (Kwansei Gakuin Univ.) TAMAGAKI, Hiroaki; NAWATE, Yuya; NAGASE, Ryohei; TANABE, Yoo
- 2PC-010** Development of Catalytic Asymmetric Fluorination of Arylacetates (Nagoya Institute of Technology) SUZUKI, Satoru; REDHI, Dande Sudaka; HORIKAWA, Takao; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
- 2PC-011** Synthesis of Palladium(II) and Nickel(II) NCN-pincer complexes with novel chiral bis(midazolone) ligands. (Nagoya Institute of Technology) TSUJI, Kotaro; NAKAMURA, Yuko; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
- 2PC-012** Chiral Titanium-Catalyzed Asymmetric Alkylation of Aldehydes Using Trialkylboranes (Kyoto Institute of Technology) SYOUYAMA, Kazuyoshi; UKON, Takahiro; HARADA, Toshiro
- 2PC-013** SmI₂-promoted Asymmetric Reformatsky-type Reaction of Chiral 3-(Δ -Chloro Cyclopropanecarbonyl)-2-oxazolidinones with Aldehydes (Shinshu Univ.) MATSUBARA, Takuma; TAGUCHI, Ryouta; MOTOYOSHIYA, Jiro; NISHII, Yoshinori
- 2PC-014** Substituent Effect of chiral Lewis bases on enantioselectivities in asymmetric allylation of aldehydes (Department of chemistry, National Defense Academy) ONO, Kaori; ISHIMARU, Kaori; KOJIMA, Takakazu
- 2PC-015** Asymmetric Ti-Claisen-Aldol tandem reaction between ketene silyl acetals and acid chlorides. (Kwansei Gakuin Univ.) MASUYAMA, Yoshikazu; TANAKA, Akihiro; NAKAZAWA, Syogo; NAGASE, Ryohei; TANABE, Yoo
- 2PC-016** Titanium Tetraiodide Induced Cyclization of 2-(2-Cyanoalk-1-enyl)- β -Keto Esters into 2-Iodopyridines (Mie Univ.) HACHIYA, Iwao; HIOKI, Yosuke; MINAMI, Yushi; SHIMIZU, Makoto
- 2PC-017** Titanium Tetraiodide Promoted Reductive Enolate Formation of α -Tosyloxyketones and Mannich Type Reaction of the Enolates with Imines (Mie Univ.) INAGAKI, Takao; YAMANAKA, Kenji; HACHIYA, Iwao; SHIMIZU, Makoto
- 2PC-018** Synthesis of Optically Active Gingerol and its Derivatives. (College of Engineering, Nihon Univ.) NODA, Yoshihiro; KITANO, Yasusi
- 2PC-019** Stereocomplementary preparation for trisubstituted (*E*- and *Z*-) α, β -unsaturated esters utilizing enol tosylation of α -formylesters followed by cross couplings (Kwansei Gakuin Univ.) NISHIKADO, Hiroshi; NAKATSUJI, Hidefumi; UENO, Kanako; TANABE, Yoo
- 2PC-020** Knoevenagel Reaction Catalyzed by Nano-silicagel Dendrimer (Grad. School of Sci. and Tech., Niigata Univ. and Faculty of Eng., Niigata Univ.) HAGIWARA, Hisahiro; SEKIFUJI, Masayoshi; TSUBOKAWA, Norio; HOSHI, Takashi; SUZUKI, Toshio
- 2PC-021** *N*-Alkylation/the Ireland-Claisen Rearrangement Using an Umpolung of α -Imino Esters. (Mie Univ.) UMEDA, Yuki; TANAKA, Katuki; SHIMIZU, Makoto
- 2PC-022** The Prins-type reaction of alkynes with acetals promoted by titanium tetraiodide (Mie Univ.) OKURA, Kanako; HACHIYA, Iwao; SHIMIZU, Makoto
- 2PC-023** Mannich Reaction Using an Umpolung of α -Imino Esters (Mie Univ.) YOSHITOMI, Takuya; KURITA, Daizi; SHIMIZU, Makoto
- 2PC-024** Synthetic Study on Steroid and Vitamin D Analogues with oxa-C,D Structure (Kanagawa Univ., Dept. of Material & Life Chem.) HAYASHI, Naoto; TSUHAKO, Akiko; NAKAYAMA, Rina; OKAMOTO, Sentaro
- 2PC-025** Synthesis of 6-Bromobenzothiazole from Aldehyde with Ammonium Tribromide and Antimony Tribromide (Fukushima Medical Univ.) SAYAMA, Shinsei
- 2PC-026** A New *o*-Quinodimethane Precursor for the Synthesis of Chelidone Analogs (Gunma Univ.) KOBORI, Takeshi; ITOI, Norihito; SANO, Hiroshi
- 2PC-027** Study on the substitution of benzyl alcohols with the C-O bond cleavage. (Kobe Univ.) MIYAKE, Hideyoshi; MORI, Asuka; SAKAI, Mitsuru
- 2PC-028** 3-exo-tet Cyclization of 1,3-Dihalopropane Derivatives with In powder (chiba univ.) TSUCHIYA, Yusuke; TOGO, Hideo
- 2PC-029** Substitution Effect on Activity of New Acylation Catalysts Annulated Benzothiazolamines (Kanagawa Univ., Dept. of Material & Life Chem.) SAKAI, Yu-zo; SHIRATORI, Megumi; SHISHIDO, Tsukasa; SHIBUNO, Misuzu; OKAMOTO, Sentaro
- 2PC-030** The reaction of 2-phenyl-1,3-indandione with diphenylamines (Josai Univ.) KIMURA, Yuko; WAKABAYASHI, Hidetugu; KATO, Tatuhi; KOBAYASHI, Keiji
- 2PC-031** Structure analysis of ferulic acid-glucosides by two dimensional NMR (Meiji Univ.) KAMINAGA, Mitsuru; SHIMOTORI, Yasutaka; KENMOTSU, Masaaki; MIYAKOSHI, Tetsuo
- 2PC-032** Synthesis of monoketones via bis(ethyl α -alkyl benzoylacetate) copper(II) complexes. (Tokyo Gakugei Univ.) YOSHIIHARA, Nobutoshi; CHIBA, Mai; KIKUCHI, Shunsuke
- 2PC-033** Oxidative Rearrangement of 2-Methoxycyclohex-2-en-1-one by Osmium Tetroxide. Tracer Experiments with 18-O-labeled Osmium Tetroxide. (Meiji Univ., School of Science and Engineering, Applied Chemistry) NISHIHAMA, Tadaaki; MIZUMURA, Daisuke
- 2PC-034** Reversal phenomenon of reaction velocity during desilylation of silyl ethers using TiCl₄ in a mixed reaction system: mechanistic study using React-IR apparatus (Kwansei Gakuin Univ., School of Science and Technology) MATSUO, Nanae; OKAZAKI, Hiroki; KAWAMURA, Tomoyuki; TANABE, Yoo
- 2PC-035** The reaction of 3,4-epoxy-3-hydroxy-4-alkoxy-4-phenyl-2-butanone with nucleophiles (Tokyo Gakugei Univ.) YOSHIIHARA, Nobutoshi; HANAWA, Tatsunori; KIKUCHI, Shunsuke
- 2PC-036** Studies of nucleophilic monofluoromethylation of aldehydes (Nagoya Institute of Technology) KAWAZOE, Jumpei; FURUKAWA, Tatsuya; NAKAMURA, Shuichi; SHIBATA, Norio; TORU, Takeshi
- 2PC-037** Study on the reaction of tertiary alkyl isothiocyanate. (Kobe Univ.) MIYAKE, Hideyoshi; MATSUMOTO, Naoko; SAKAI, Mitsuru
- 2PC-038** General, robust, and stereocomplementary preparation of β -keto-ester enol phosphates using (RO)₂POCl-NMI agents and application to the preparation of α, β -unsaturated esters (Kwansei Gakuin Univ.) HORI, Hiroshi; MORIMOTO, Mami; NAKATSUJI, Hidefumi; TANABE, Yoo
- 2PC-039** Development of New Synthetic Route of 3,4-Ethylendioxythiophene(EDOT) from (*Z*)-2-Butene-1,4-diol (Mie Univ.) MATSUMOTO, Tomohiro; INAGAKI, Tatuhi; TAKAHASHI, Atsushi; HACHIYA, Iwao; SHIMIZU, Makoto
- 2PC-040** One-pot synthesis of α -bromoketones from β -diketones using supported reagents. (College of Science and Technology, Nihon Univ.) KUBOTA, Sho; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 2PC-041** Selective Synthesis of Allene Derivatives and Diene Derivatives from Propargyl Compounds by Appel-type Reaction (Tokyo Univ. of Science) SAKAI, Norio; MARUYAMA, Tsukasa; KONAKAHARA, Takeo

Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds

- 2PC-043** Oxidative Intramolecular Cyclization of 3-Oxobutanamides. Selective Synthesis of Dihydroisoquinolinones and Dihydrooxazinones (Dept. Chem., Grad. School Sci. & Tech., Kumamoto Univ.) INOUE, Sayaka; NISHINO,

- Hiroshi
- 2PC-044** Mn(III)-Based Tandem Cyclization of Tricarbonyl and Tetracarbonyl Compounds (Dept. Chem., Grad. School Sci. & Tech., Kumamoto Univ.) ONIZUKA, Mutsumi; NISHINO, Hiroshi
- 2PC-045** Synthesis of Vanadyl and Zinc(II) Complexes with 8-hydroxy-2-methylquinolines and Their Insulin-mimetic Activities (Faculty of Science and Technology, Seikei Univ.) KATOH, Akira; ASAGA, Maki; MATSUMURA, Yuriko; YOSHIKAWA, Yutaka; YASUI, Hiroyuki; SAKURAI, Hiromu
- 2PC-046** Synthesis of fluorescent chiral quinoxalines and their application to enantio-separation reagents (Faculty of Science and Technology, Seikei Univ.) KATOH, Akira; CHIBA, Asako; MATSUMURA, Yuriko
- 2PC-047** Synthesis and Properties of New Azalactams having Aromatic Substituents (Muroran Institute of Technology) YONETA, Kazutaka; MURAI, Yuto; MORI, Hiromi; TAKENAWA, Sadaharu; MATSUYAMA, Haruo
- 2PC-048** Asymmetric Cycloaddition of 1,2-Dihydropyridine in the Presence of Chiral Lewis Acid Catalysts (Muroran Institute of Technology; Graduate School of Science and Technology, Tokyo Metropolitan Univ.) SEKI, Chigusa; HUTARABAT, N.D.M.R.; HIRAMA, Masafumi; TAKAGUCHI, Takuya; MATSUYAMA, Haruo; IYODA, Masahiko
- 2PC-049** Selective Synthesis of Benzo[b]furans and Chrysenedione Derivatives Using 2-(2,2-Diarylethyl)-1,3-cycloalkanediones (Dept. Chem., Grad. School Sci. & Tech., Kumamoto Univ.) HYAKUTAKE, Takahiro; NISHINO, Hiroshi
- 2PC-050** Synthesis of Benzofuran Derivatives Using 2-Pentene-1,4-diones and Related Reaction (Dept. Chem., Grad. School Sci. & Tech., Kumamoto Univ.) NISHINO, Hiroshi
- 2PC-051** Synthesis of 1,2-dihydro-3-benzoxepin derivatives using the reaction of 2-lithio- β -methoxystyrenes with epoxides (Graduate School of Engineering, Tottori Univ.) HASHIMOTO, Hiroo; SHIRAI, Yuu; NAGAOKA, Toshiyuki; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PC-052** Hetero Diels-Alder Reaction of Trifluoroacetylated Vinyl Ethers with Vinyl Ethers - A Molecular Orbital Calculation Study (Kobe Univ.) KAMITORI, Yasuhiro; OTA, Norio; OKADA, Etsuji
- 2PC-053** A Facile Synthetic Method for Fluorine-Containing Thiochromoquinoline Using Regioselective Nucleophilic Substitution of 3-Trifluoroacetyl-2-methoxy-4-dimethylaminoquinoline (Kobe Univ.) TAKEZAWA, Yoshinori; SAIKAWA, Shohei; MEDEBIELE, Maurice; OKADA, Etsuji
- 2PC-054** Synthesis of Precursors for Novel Fluorine-Containing Benzodiazepines, *N*-(β -trifluoroacetylvinyl)-*o*-phenylenediamines (Kobe Univ.) ADACHI, Satoru; ISHIKAWA, Hiroki; OTA, Norio; OKADA, Etsuji
- 2PC-055** Double intramolecular pi-pi interactions of alpha, alpha'-bis[(thieno[3,4-b]indolizin-3-yl)thio]-*o*-, *m*-, and *p*-xylene derivatives (Fac. Eng., Shinshu Univ.) KAKEHI, Akikazu; SUGA, Hiroyuki; SHINOHARA, Masatosi
- 2PC-056** Synthesis of 3-oxo- λ^5 -phospholes with fused ring structure (Ehime Univ.) SAKAI, Ami; NISHIMURA, Yasunobu; WATANABE, Yutaka; HAYASHI, Minoru
- 2PC-057** Synthesis of antitumor-active β carboline derivatives and their structure-activity relationship (Tokyo Univ. of Science) KONAKAHARA, Takeo; TAKASUGI, Sanae; KUROSAWA, Masaki; KIMURA, Takanori; IKEDA, Reiko; SAKAI, Norio
- 2PC-058** 4-Arylidene-1*H*-imidazol-5(4*H*)-ones as a potential new structural class of aldose reductase inhibitors. (Toho Univ.) SAITO, Ryota; HOSHI, Maiko; TOKITA, Mai; ISHIKAWA, Tikako; SATO, Mitutoshi
- 2PC-059** The reaction of 3-iodoindole with 2-bromo-1,4-naphthoquinone (National Fisheries Univ.) TANOUE, Yasuhiro; KAI, Norihisa
- 2PC-060** Catalytic Enantioselective Friedel-Crafts Reactions of Ethenetricarboxylates and Substituted Furans (Nara Univ. of Education) YAMAZAKI, Shoko; KURIYAMA, Taiki; KASHIMA, Shinichi; IWATA, Yuku
- 2PC-061** Synthesis of 1,2,4-triazole-3-thions and condensed heterocycles containing 1,2,4-triazole ring (Shibaura Institute of Technology) KANNO, Shota; AZEMOTO, Tomoyuki; KODOMARI, Mitsuo
- 2PC-062** Studies on the reactivity of 1-[2-bis(alkylthio)vinyl]pyridinium salts with active methylene compounds (Shinshu Univ.) KAKEHI, Akikazu; MOTEGI, Yoshitake; SUGA, Hiroyuki
- 2PC-063** Enzymatic Synthesis of Ethyl Ether N-citinate Derivatives and the Application as Ligands (Graduate School of Science & Engineering, Yamagata Univ.) SATO, Yu; MATSUSIMA, Yuka; ZHOU, Yongchang; KIJIMA, Tatsuro; IZUMI, Taeko
- 2PC-064** Synthesis of 3-acylisoxazole derivatives using copper(II) nitrate in the presence of strong acid (College of Science and Technology, NIHON Univ.) SATOH, HIROAKI; ITOH, Ken-ichi; AOYAMA, Tadashi; HORIUCHI, Akira; TAKIDO, Toshio
- 2PC-065** One-pot synthesis of thiochromans in the presence of an acid- and a base-supported reagent systems. (College of Science and Technology, NIHON Univ.) NAKAJIMA, Hideaki; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 2PC-066** Synthesis of *N*, *N*'-bis(1-azaazulen-2-yl)-*N*-2-pyridylamine (Shinshu Univ.; Univ. of Toyama) ODA, Mitsunori; MIYAWAKI, Daisuke; FUJIMORI, Kunihide; ZHANG, Yanmei; KURODA, Shigeyasu
- 2PC-067** The synthesis of chiral isoquinolidines by the enantioselective Diels-Alder reaction of 1,2-dihydropyridines using chiral organocatalyst (Tohoku Pharmaceutical Univ.) NAKANO, Hiroto; OSONE, Kenichi; TAKESHITA, Mitsuhiro; KWON, Eunsang
- 2PC-068** Cycloaddition Reactions of [60]Fullerene with Designed Mesoionic Compounds Possessing Long-Chain Alkoxy Phenyl Groups or Sugar Chains (Univ. of Tokushima) KIM, Yukimi; TSUJI, Megumi; OKADA, Kotaro; IWASAWA, Tetsuo; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 2PC-069** Solid Base Effects on Lewis Acid Catalyzed Stereoselective Nitrile Oxide Cycloaddition Reactions (Yamaguchi Univ.) YAMAMOTO, Hidetoshi; IKENAGA, Yuji; SAMITSU, Maki; HAYASHI, Saori; SUMIMOTO, Michinori; HORI, Kenji
- 2PC-070** Asymmetric Diels-Alder reaction of cyclopentadiene using histidine derivatives as a catalyst (School of Advanced Science and Technology, Tokyo Denki Univ.) XAWKAT, Ahmat; WADA, Kazuki; SHINOZAKI, Hiraku
- 2PC-071** Synthesis of imidazole derivative from novel zwitter ion compound. (College of Science and Technology, NIHON) HARA, Shogo; TAKIDO, Toshio
- 2PC-072** A Facile synthesis of 4(3*H*)-2-Aryl quinazolinones. (toyo univ.) OTUBO, Norihiro; IHARA, Syogo; YOSIDA, Yasuhiko
- 2PC-073** One-pot synthesis of 4-hydroxyquinoline-2(1*H*)-thione derivatives from 1-(2-isocyanophenyl)ethanones (Graduate School of Engineering, Tottori Univ.) KOMATSU, Toshihide; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PC-074** One-pot synthesis of furans from β -diketones and α -haloketones in the presence of $\text{Na}_2\text{CO}_3/\text{Al}_2\text{O}_3$ -PPA/Bentonite. (Graduate School of Science and Technology, NIHON Univ.) NAGAOKA, Takashi; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 2PC-075** Oxidative coupling of indoles and phenols (Tokyo Gakugei Univ.) TAKIZAWA, Yasuomi; UENO, Akihide
- 2PC-076** Synthesis of 3-aryl-2-sulfonylbenzo[b]thiophenes from aryl 2-sulfonylphenyl ketones (Graduate School of Engineering, Tottori Univ.) FUKAMACHI, Shuhei; EGARA, Yuku; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PC-077** Synthesis of 3-methyleneisoindolin-1-one derivatives by the reaction of 2-cyanobenzaldehydes with dimethylxosulfonium methylide (Graduate School of Engineering, Tottori Univ.) MATSUMOTO, Kota; FUKAMACHI, Shuhei; NAKAMURA, Daizo; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PC-078** Reaction of acetylenecarboxylates with *N*-substituted thioamides (College of Science and Technology, NIHON Univ.) TAKASUGA, Kouta; TAKIDO, Toshio
- 2PC-079** Synthesis of 1,2-benzisothiazoles with hydroxylamine-*O*-sulfonic acid derivatives (National Inst. Adv. Ind. Sci. & Tech.; Tokyo Univ. of Science) SHIMIZU, Masao; SUZUKI, Shusuke; ANDO, Wataru; KONAKAHARA, Takeo
- 2PC-080** PhI-Catalyzed One-pot Preparation of Heteroaromatic from Ketones with mCPBA (Chiba Univ.) TOGO, Hideo; AKIIKE, Junnosuke
- 2PC-081** Synthesis and Characterization of Aryl-substituted 5,15-Diazaporphyrin Metal Complexes (Toyama Prefectural Univ.) KAWABATA, Shigeki
- 2PC-082** One-pot preparation of oxazoles from ketones in nitrile using IL-supported iodoarene as a catalyst (Chiba Univ.) KAWANO, Yuhta; TOGO, Hideo
- 2PC-083** Oxidation of Ketones using Manganese (III) Acetate (Tokyo Gakugei Univ.) MATSUYAMA, Keiko; TAKIZAWA, Yasuomi
- 2PC-084** Acidity and basicity of indolo[2,3-*b*]tropone (Shinshu Univ.; Univ. of Toyama) ODA, Mitsunori; ITO, Kunihiro; FUJIMORI, Kunihide; ZHANG, Yanmei; KURODA, Shigeyasu
- 2PC-085** Synthesis and Evaluation of New Phospha Sugar derivatives with Halogen groups (Faculty of engineering, Shizuoka Univ.) KURASHITA, Takashi; YAMASHITA, Mitsuji; NIIMI, Taishi; FUJIE, Michio; YAMASHITA, Junko; SUYAMA, Takuya; ASAI, Kazuhide; IGUCHI, Yukiko; MORI, Masahito; NAKAMURA, Satoki
- 2PC-086** Synthesis of polysubstituted quinolines by rhodium-catalyzed cycloisomerization of alkynyl carbodimides (Tokyo Univ. of Science, Faculty of Science) WATANABE, Sho; ONISHI, Misato; FURUKAWA, Naoki; OTANI, Takashi; SAITO, Takao
- 2PC-087** Synthesis of Novel Bis(1-aza-18-crown-6)s Bearing a Triptycene Sidearm Frame (Kanagawa Univ. Dept. of Chemistry) NOMURA, Kana; WATANABE, Nobuko; MATSUMOTO, Masakatsu
- 2PC-088** Synthesis of *N,N'*-Disubstituted Tetrahydroquinacridine Derivatives and their Reactions (Kanagawa Univ. Dept. of Chemistry) WATANABE, Nobuko; OWAKI, Fukiko; UEHARA, Takayuki; MATSUMOTO, Masakatsu
- 2PC-089** One-pot synthesis of thienopyridines from halopyridinyl ketones (Graduate School of Engineering, Tottori Univ.) KOZUKI, Taketoshi; KONISHI, Hisatoshi; KOBAYASHI, Kazuhiro
- 2PC-090** Synthesis and reaction of pyrroles fused with 7-tert-butoxybicyclo[2.2.1]heptadiene (Integrated Center for Science, Univ. of Ehime) UNO, Hidemitsu; KAKITANI, Yoshimasa
- 2PC-091** Stereoselective Nitronates Cycloaddition to α -Substituted Allylic Mg Alkoxide and Alkoxide Addition Effect (Institute of Technology and Science, The Univ. of Tokushima) UMEMOTO, Nao; NISHIUCHI, Masaki; IWASAWA, Tetsuo; KAWAMURA, Yasuhiko
- 2PC-092** The Functional Group Transformations of 3-Carbonyl-2-Isoxazolidine by Reduction and Regioselective Bond Cleavage (Institute of Technology and Science, The Univ. of Tokushima) TAKAHASHI, Yuki; NISHIUCHI, Masaki; UMEMOTO, Nao; IWASAWA, Tetsuo; KAWAMURA, Yasuhiko
- 2PC-093** Preparation of Novel Isomelamines by the Reaction of Dimethyl Cyanoamidoimidothiocarbonate with Diamino Compounds (Faculty of

- Engineering, Kanagawa Institute of Technology) SUYAMA, Takayuki; SAITOU, Keigo; TABETA, Chika
- 2PC-094** Photoluminescence Properties of Phenylterpyridine-containing alkylphosphonate/Eu(III)/SiO₂ Composites (Tokyo Institute of Technology; Kanagawa Institute of Technology) KONDO, Masaki; MAKIOKA, Yoshikazu; TANIGUCHI, Yuki; TAKAMURA, Takeji
- 2PC-095[#]** Synthesis and crystal structure of imidazole-based cyclic trimer (Institute of Industrial Science, The Univ. of Tokyo) SUKARSAATMADJA, Petty; ISHIDA, Kazuki; YOSHIE, Naoko
- 2PC-096** Synthesis and Reaction of Novel Alkyl Substituted 3*H*-Azepines (Okayama Univ.) ULFA, Siti Mariyah; KAMEYAMA, Akiko; HARAGUCHI, Kouji; OKAMOTO, Hideki; SATAKE, Kyosuke
- 2PC-097** Reaction of *N*-substituted thioamides with electron deficiency compounds. (College of Science and Technology, Nihon Univ.) KANTANI, Masakatsu; TAKIDO, Toshio
- 2PC-098** Synthesis of Fluorescent alkoxyimidazopyridine compounds (Shibaura Institute of Technology) FUJII, Hirokazu; TAKAHASHI, Nobuhiko; TOMODA, Haruhiko; YABE, Toshikazu
- 2PC-099** One-pot synthesis of arylthiophenes in the presence of an acid and a base conditions (College of Science and Technology, NIHON Univ.) NAKAOKA, Kyohei; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 2PC-100** Synthesis and properties of nitro-substituted 2-(2-hydroxyphenyl)-1-azazulene (Univ. of Shinshu, Faculty of Science; Univ. of Toyama, Faculty of Engineering) ODA, Mitsunori; TAKEUCHI, Rie; ZHANG, Yanmei; KURODA, Sigeyasu

Organic Chemistry -Reaction and Synthesis-Organic Photochemistry

- 2PC-103** Asymmetric Cyclization of *N*-Benzoyl- α -dehydronaphthylalanine-Dialkylamides via Photoinduced Electron Transfer (3) (Kanagawa Univ.) SATO, Yuki; YADAI, Hiroyuki; IGARASHI, Tetsutaro; SAKURAI, Tadamitsu
- 2PC-104** Synthesis of Carboxylic Acid Derivatives Protected by 2-Pyridon-1-yl-Type Groups and Their Photolytic Behavior. (Kanagawa Univ.) MIYASHITA, Keisuke; SHIBATA, Ryosuke; IGARASHI, Tetsutaro; SAKURAI, Tadamitsu
- 2PC-105** Synthesis of Chiral Pyridine Derivatives Having Phenanthrene Substituents at 3,5-Positions by Photocyclization (Kyushu Univ.) KITAMOTO, Akira; ITOH, Kennosuke; ITO, Yoshio; KAWATO, Toshio
- 2PC-106** Geometrical Photoisomerizations of Tri- and Tetraarylethenes (Univ. of Tokushima) SUMIMOTO, Makoto; HAYASHI, Tatsuya; IWASAWA, Tetsuo; USHIOUCHI, Masaki; KAWAMURA, Yasuhiko
- 2PC-107** Eneidyne Precursors Possessing a Phototrigger: Hydrogen Abstraction and DNA Cleavage upon Photoirradiation (Univ. of Tokushima) KAWASAKI, Ko; BEKKU, Shinjiro; IWASAWA, Tetsuo; NISHIOUCHI, Masaki; KAWAMURA, Yasuhiko
- 2PC-108** Photoaddition reaction of organosilanes to carbonyl compounds in aqueous solution (Shimane Univ.) TSUNEKAWA, Maho; NISHIGAICHI, Yutaka; IWAMOTO, Hidetoshi; TAKUWA, Akio
- 2PC-109** Photoreactions of Silicon-biridged Aromatic Compounds (The Univ. of Electro-Communications) IWAMOTO, Takuya; KAMURA, Takahiro; TAKEDA, Yuusuke; KAKO, Masahiro
- 2PC-110** Exploratory Synthesis of Tristhiometacyclophane Emitting Circularly Polarized Light (Japan Advanced Institute Of Science And Technology) NAGAYAMA, Makoto; TSUJIMOTO, Kazuo
- 2PC-111** The changes in the intramolecular orientation of viologen derivatives induced by complexation with clay (Grad. Sch. of Eng., Osaka Pref. Univ.; Fac. of Urban Environment Sciences, Tokyo Metropolitan Univ.) IKEDA, Hiroshi; TAKAGI, Shinsuke; NAKANISHI, Yusuke; INOUE, Haruo; MIZUNO, Kazuhiko
- 2PC-112** Photochemistry of dihydronitroquinoline as a new caging group (Univ. of Tsukuba) OBI, Naoko; MOMOTAKE, Atsuya; ARAI, Tatsuo
- 2PC-113** Solid-State Photocycloaddition Reactions of 2-Pyrones Having Hydroxyl Group with Benzophenone (Kagoshima Univ.) SHIMO, Tetsuro; MIFUKA, Hajime; SOMEKAWA, Kenichi
- 2PC-114** Photocatalytic Perfluoroalkylation of Aromatic Rings by Perfluoroalkyl Iodide (Shimane Univ. ; School of Medicine) IIZUKA, Mari; OOSAKI, Hitomi; FUKUSHIMA, Shoji; FUJII, Masatoshi; YOSHIDA, Masato
- 2PC-115** Preparation of Hybrid Type Titanium Oxide Photocatalyst for Synthesis of Organofluorine Compound (Shimane Univ., Graduate School of Medical Research) OOSAKI, Hitomi; IIZUKA, Mari; FUJII, Masatoshi; YOSHIDA, Masato
- 2PC-116** Influence of Introduction of Electron-Withdrawing Groups into Methyl Group of *N*-Methyl-1,8-naphthalimide on Reaction Behavior of Photoadducts with Dimethylthymine (Faculty of Science and Engineering, Shimane Univ.) NAKASHIMA, Yui; SHIRATORI, Hideo; KUBO, Yasuo
- 2PC-117** Photochemical behavior of water-soluble anthracene dendrimers (Univ. of Tsukuba) AKATSUKA, Ryosuke; SHINOHARA, Yoshihiro; NISHIMURA, Yosinobu; MORIYAMA, Masaya; UJIE, Seiji; ARAI, Tatsuo
- 2PC-118** Substituent effect on trans/cis isomerization characteristics of azobenzene derivatives (Tokyo Tech) HONDA, Takumu; ISHIKAWA,

- Daisuke; HAN, Mina; HARA, Masahiko
- 2PC-119** Photoreaction of 7-halogenated derivatives of 8-quinolyl sulfonates (Faculty of Pharmaceutical Science, Tokyo Univ. of Science and Center for Drug Delivery Research, Tokyo Univ. of Science) TSUNODA, Megumi; KITAMURA, Masanori; KAGEYAMA, Yoshiyuki; SAKURAMA, Kazusa; AOKI, Shin
- 2PC-120** Reversible Photoepimerization of Aromatic Carboxamides Owing to the Rotation of the Ar-C(=O) Bond (Graduate school of Eng., Chiba Univ.) SAKAMOTO, Masami; YASUIKE, Nobuo; SASAHARA, Yuichi; MINO, Takashi; FUJITA, Tsutomu
- 2PC-121** Control of reactivity of allyltin/aminomethylsilicon reagents in photo-induced single electron transfer reaction using metal ions (Shimane Univ.) ASADA, Aya; NISHIGAICHI, Yutaka; TAKUWA, Akio
- 2PC-122** Fluorescence Properties of Trifluoroacetylaminophthalimides: Photochemical Response to Lil (Okayama Univ.) OKAMOTO, Hideki; KONISHI, Hiroyuki; SATAKE, Kyosuke
- 2PC-123** Modulation of the electronic-absorption property of imidazopyrazinones (Univ. of Electro-Communications) MIYAO, Yousuke; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 2PC-124** Synthesis of Stereoisomeric Dioxetanes Substituted with a Biaryl Bearing a Crown Ether Linkage and their Chemiluminescent Decomposition (Kanagawa Univ. Dept. of Chemistry) WATANABE, Nobuko; HASEGAWA, Satoshi; MATSUMOTO, Masakatsu
- 2PC-125** Synthesis and Chemiluminescent Decomposition of Dioxetanes Bearing a Phenanthryl or Benzo[*c*]phenanthryl Moiety (Kanagawa Univ. Dept. of Chemistry) WATANABE, Nobuko; KOYAMA, Youhei; WATANABE, Mayumi; KIKUCHI, Masato; HASEGAWA, Satoshi; IJUI, Hisako; MATSUMOTO, Masakatsu
- 2PC-126** Supramolecular Enantiodifferentiating Photodimerization of Anthracene Derivatives mediated by γ -Cyclodextrin and Cucurbit[8]uril (Graduate School of Engineering, Osaka Univ.) YANG, Cheng; SELVAPALAM, Narayanan; KO, Young Ho; MORI, Tadashi; KIM, Kimoon; INOUE, Yoshihisa
- 2PC-127** Enantiodifferentiating Photoisomerization of Cycloalkenes Co-Included and Sensitized by Chiral Supramolecular Sensitizing Host (Graduated School of Engineering, Osaka Univ.) KOTERA, Hideaki; YANG, Cheng; MORI, Tadashi; FUKUHARA, Gaku; WADA, Takehiko; INOUE, Yoshihisa
- 2PC-128** Substituent effects on luminescent properties of diarylmethanoboron difluorides (Grad. Sch. of Eng., Osaka Pref. Univ.) IKEDA, Hiroshi; YOSHIMOTO, Yuichi; MIZUNO, Kazuhiko
- 2PC-129** A Synthetic approach toward Nonacene (Graduate school of science and engineering, Ehime Univ.) KATSUTA, Shuhei; YAMADA, Hiroko
- 2PC-130** Photodimerization of naphthylvinylpyridines through cation- π interactions (Ochanomizu Univ.) NOJIRI, Yuka; YAMADA, Shinji
- 2PC-131** Solid-state enantioselective photocyclization of 2-(*p*-tolylthio)-3-methyl-2-cyclohexene-1-one (Graduate School of Arts and Sciences, The Univ. of Tokyo) SUGINO, Koutaro; SEKIYA, Ryo; KURODA, Reiko
- 2PC-132** [3+2]-Photocycloadditions of 1,4-Dicyanonaphthalenes Having Methyl or Phenyl Substituents with Alkenes (Faculty of Science and Engineering, Shimane Univ.) TAGASHIRA, Kyoko; SHIMADA, Kazunori; SHIRATORI, Hideo; KUBO, Yasuo
- 2PC-133** Synthesis of new hemiporphycene photosensitizer (Kyushu Univ.) TAKADA, Satona; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio
- 2PC-134** Photochemistry of aromatic-guanine conjugated diad (Graduate School of Pure and Applied Sciences) SHIMAMURA, Koki; SHINOHARA, Yoshihiro; NISHIMURA, Yoshinobu; ARAI, Tatsuo

Organic Chemistry -Reaction and Synthesis-Organic Electron Transfer Chemistry

- 2PC-137** Transient Absorption spectra and Orbital Interaction of 1,4-Diarylbutane-1,4-diyl Radical Cations (Grad. Sch. of Eng. Osaka Pref. Univ.) KANEI, Takahiro; IKEDA, Hiroshi; MIZUNO, Kazuhiko

Organic Chemistry -Reaction and Synthesis-High-Throughput Synthesis

- 2PC-139** Solid-Phase Synthesis of Carbohydrates with Glycolaldehyde Derivatives(3) (Faculty of Engineering, Soka Univ.) NAKAYAMA, Shota; ITO, Masato M.
- 2PC-140** Quantitative analysis of sugar derivatives introduced onto the resin for solid-phase reactions by means of FT-IR (Faculty of Engineering, Soka Univ.) SAITO, Ayumu; NAKAYAMA, Shota; ITO, Masato M.
- 2PC-141** Measurements of Complex Dielectric Constants for Organic and Inorganic Compounds and Their Applications to Microwave-Assisted Catalytic Reactions (Natl. Inst. of Advanced Industrial Science and Technology (AIST)) YAMASHITA, Hiroshi; KOBASHI, Hiroko; MITSUKURA, Yumi; SUGIYAMA, Jun-ichi; FUKAYA, Norihisa; UEDA, Masae; ONOZAWA, Shun-ya; SAKAKURA, Toshiyasu; YASUDA, Hiroyuki
- 2PC-142** Microwave-Assisted Rapid Acylation of Aromatic Compounds with Carboxylic Acids over Zeolite Catalysts (Natl. Inst. of Advanced Industrial

- Science and Technology (AIST) MITSUKURA, Yumi; KOBASHI, Hiroko; YAMASHITA, Hiroshi
- 2PC-143** Microwave-Assisted and Accelerated Preparation of Poly(fluorene)s (AIST) MIYAMOTO, Shinpei; TANAKA, Susumu; SUGIYAMA, Jun-ichi; MACHIDA, Kenji; SUEMATSU, Shunzo; TAMAMITSU, Kenji
- 2PC-144** Synthesis of Substituted Cyclopentadiene Derivatives by Using Microfluidic System (Iwate Medical Univ.) KAWANO, Tomikazu; TSUJIHARA, Tetsuya; INAGAKI, Sho; HATANAKA, Minoru
- 2PC-145** Chlorination of aliphatic and aromatic compounds in subcritical carbon tetrachloride (The Nippon Dental Univ., Niigata Univ.) TANEMURA, Kiyoshi; SUZUKI, Tsuneo; NISHIDA, Yoko; HORAGUCHI, Takaaki
- 2PC-146** Hydroxyapatite-supported palladium-catalyzed coupling reaction of arylboronic acids with allylic carbonates (Sophia Univ.) CHUA, Renee Gayle; WADA, Yukie; MASUYAMA, Yoshiro
- 2PC-147** Development of Imidazoline-consisting Organic-InorganicHybrid Polymer Catalyst (Chiba Univ.) SAKAGAMI, Ken; SATOU, Toru; ARAI, Takayoshi
- 2PC-148** Continuous Synthesis of p-t-Butylcalix[4]arene through Flow Reactor with Microwave Irradiation (Wakayama National College of Technology) NOMURA, Eisaku; SHIIZAKI, Genki; TAKAGAKI, Masafumi
- Polyion-Complexes (Kyushu Univ. Engineering) OHTA, Masahiko; SADA, Kazuki
- 3PA-016** Examination of the best reacted condition of poly(benzoylacetylene) with chiral amine for induced helix-sense (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; IJIMA, Takayuki; SAWAHATA, Yuko
- 3PA-017** Synthesis of disulfide cross-linked polystyrene support and the cleaving behavior of disulfide bond under reduction condition. (Osaka Institute of Technology) SHIMOMURA, Osamu; IMADA, Takeshi; ISHINO, Yousuke; OHTAKA, Atsushi; NOMURA, Ryoki
- 3PA-018** S-Arylation of Arylsulfide under Mild Condition and the Reaction Behavior of Diarylsulfonium Salts. (Osaka Institute of Technology) SHIMOMURA, Osamu; UEOKA, Hiroki; SHINTANI, Tomoki; MATSUURA, Kousuke; OHTAKA, Atsushi; NOMURA, Ryoki

Polymer Engineering

- 3PA-019** High Sensitive Determination of Graft Ratio of Maleic Anhydride Grafted Polyolefin by Supercritical Methanol Followed by ¹H-NMR (UBE Scientific Analysis Laboratory, Inc.) MIYAUCHI, Koji; SAITO, Keiji

Polymer Structure and Property

- 3PA-020** Preparation and Physical Properties of Polyethylene / Polydimethylsiloxane composite using Supercritical Carbon Dioxide. (Graduate School of Science and Technology, Nihon Univ.) USUI, Ryota; ZHU, Rui; HOSHI, Toru; MUROGA, Yoshio; HAGIWARA, Toshiki; SAWAGUCHI, Takashi
- 3PA-021** Surface hydrophobizing of isotactic polypropylene by cationic polymerization of polydimethylsiloxane in supercritical carbon dioxide (Nihon Univ.) ZHU, Rui; USUI, Ryota; HOSHI, Toru; MUROGA, Yoshio; SAWAGUCHI, Takashi
- 3PA-022** Synthesis and Property of Folding π -Stack Oligomers and Polymers (Kanagawa Univ., Dept. of Material & Life Chem.) WATANABE, Jun-ichi; HOSHINO, Tohru; SAKAI, Edo; NAKAMURA, Yusuke; OKAMOTO, Sentaro
- 3PA-023** Synthesis and Property of Skipped-pai Oligomers and Polymers Having CH₂-SiMe₂-CH₂ Tethers (Kanagawa Univ., Dept. of Material & Life Chem.) HOSHINO, Tohru; WATANABE, Jun-ichi; NAKAMURA, Yusuke; OKAMOTO, Sentaro
- 3PA-024** Dispersion-Flocculation Transition in PMMA/SiO₂ Nano-Particle Hybrids: Interaction between PMMA film and SiO₂ Particle. (College of Science and Technology) HATAI, Suguru; SAKURAI, Atsushi; SHIMAMOTO, Hibiki; OMURO, Yasunori; SAWAGUCHI, Takashi; HOSHI, Toru; HAGIWARA, Tosiki; YANO, Syoutirou
- 3PA-025** Preparation of Transparent PS/SiO₂ Nano-Particle Hybrid: Effect of Molecular Weight of Monodisperse Polystyrene on Dispersion-Flocculation Transition (College of Science and Technology, Nihon Univ.) MARUNO, Shinpei; SAKURAI, Atsushi; SHIMAMOTO, Hibiki; OMURO, Yasunori; SAWAGUCHI, Takashi; HOSHI, Toru; HAGIWARA, Toshiki; YANO, Shoichiro
- 3PA-026** Structural Change of Aromatic polyacetylenes Prepared with a Rh Complex Catalyst (Muran Institute of Technology) MAWATARI, Yasuteru; TABATA, Masayoshi
- 3PA-027** High Resolution Solid State 1H MAS NMR Studied on Structure and Properties of Polyaniline (International College of Arts and Sciences Yokohama City Univ.) KAWAHARA, Akira; HONDA, Hisashi

Functional Polymer

- 3PA-028** Synthesis of trinuclear manganese coordination polymer and examination of water oxidation. (kanagawa univ.) TANAKA, Hiroshi; MORI, Wasuke
- 3PA-029** Synthesis of Catalytically Active Vitamin B12 Polymer and its Property (Kyushu Univ.) NISHI, Masashi; SHIMAKOSHI, Hisashi; TAHARA, Keishiro; ABE, Masaaki; TANAKA, Akihiro; HISAEDA, Yoshio
- 3PA-030** Development of boomerang catalyst using 2,2'-bipyridine-4,4'-dicarboxylic acid as a ligand (Osaka Institute of Technology) OHTAKA, Atsushi; TAMAKI, Yuji; NAKANO, Takahito; SHIMOMURA, Osamu; NOMURA, Ryoki
- 3PA-031** Synthesis and Carrier Transport Characteristics of Liquid-Crystalline Side Chain Polymers with Terthiophene Moieties (The Univ. of Tokyo) MATSUI, Aya; FUNAHASHI, Masahiro; KATO, Takashi
- 3PA-032** Synthesis of triphenylamine derivative substituted polypyrrole and its functional evaluation (Faculty of Sci. and Technol., Tokyo Univ. of Sci.) NISHIURA, Shin; YASUDA, Naohiro; MURATA, Hidenori; YUASA, Makoto
- 3PA-033** Preparation of butadiene rubber/ionic liquid hybrid by sol-gel method (Tokyo Univ. of Agriculture and Technology) KOMIYA, Yuki; MIZUMO, Tomonobu; OHNO, Hiroyuki
- 3PA-034** Tuning of Optical Properties of pi-Conjugated Polymers Containing a 1,8-Naphthyridine unit in the Main Chain by Addition of Protic Acids and Metal Ions (Tokyo Institute of Technology) KATO, Shinichirou; KOIZUMI, Take-aki; YAMAMOTO, Takakazu
- 3PA-035** Topological Design and Synthesis of Conjugated Poly(phenylene) Microporous Polymer Networks (Institute for Molecular Science) CHEN, Long; JIANG, Donglin

Sunday, March 29, AM

(10 : 00 ~ 11 : 30)

Polymer

Polymer Synthesis

- 3PA-001** Radical Polymerization of Vinyl Monomer Initiated with 1-Ethyl-3-methylimidazolium Bromide (Junior College Division, Tohoku Seikatsu Bunka College) KANNO, Shuichi
- 3PA-002** The Possibility of 1-Ethyl-3-methylimidazolium Type Ionic Liquids as an Initiator of Vinyl Polymerization (Junior College Division, Tohoku Seikatsu Bunka College) KANNO, Shuichi; SUDA, Atsushi
- 3PA-003** Synthesis of a polymer having benzodioxole unit and its evaluation as a polymer supports. (Osaka Institute of Technology) SHIMOMURA, Osamu; KUME, Yuta; OHTAKA, Atsushi; NOMURA, Ryoki
- 3PA-004** Living radical polymerization of a methacrylate having an active ester group and derivation of the produced polymer (Nara Institute of Science and Technology) SHIMIZU, Shunsuke; ANDO, Tsuyoshi; HIROHARA, Shiho; TANIHARA, Masao
- 3PA-005** Synthesis of Novel Photoresponsive polymer containing spiropyran structure by ATRP (National Defense Academy) AIZAWA, Yusuke; YAMAMOTO, Shin-ichi; MORIYA, Osamu
- 3PA-006** Polymerization reaction model in homogeneous state (Fukui Univ. of Technology) MASAMOTO, Junozo
- 3PA-007** Design of Novel Ni-Al Multinuclear Unimolecular Complexes Having Aluminoxy Group for Copolymerization of Ethylene and Polar Monomers (Department of Industrial Chemistry, Tokyo Univ. of Science) SHIMIZU, Masato; GOTO, Hidetoshi; SUGIMOTO, Hiroshi
- 3PA-008** Polymerization of p- nitrobenzoylacetylene and the helicity induction by optically-active amine (Tokyo Gakugei Univ.) YOSHIHARA, Nobutoshi; SAWAHATA, Yuko; IJIMA, Takayuki
- 3PA-009** Ni and Pd Complex Catalyzed Addition Polymerization of Norbornene Derivatives Having Silicon Substituents -Effect of Catalyst System for Polymerization Behavior- (Tokyo Univ. of Science, Shin-Etsu Chemical Corporation, RIKEN.) HIRAYAMA, Daisuke; GUNJI, Takahiro; TETSUKA, Hiroaki; KAITA, Shojiro
- 3PA-010** Synthesis of Thermoresponsive Organic-Inorganic Hybrid Polymer Containing silsesquioxane Structure by Click Chemistry (National Defense Academy) YAMAMOTO, Shin-ichi; AIZAWA, Yusuke; MATSUURA, Nobutaka; MORIYA, Osamu
- 3PA-011** Polymer Synthesis by Dipimp/CoCl₂/Zn-Catalyzed Alkyne [2+2+2] Cycloaddition Reactions (Kanagawa Univ., Dept. of Material & Life Chem.) SUGIYAMA, Yuuki; AZUMATEI, Suzumi; AOYAMA, Kagi; NOMURA, Ayami; OKAMOTO, Sentaro
- 3PA-012** Controlling of Depolymerization of Vinyl Polymers (College of Science and Technology, Nihon) SHIMURA, Takafumi; OMURO, Yasunori; SASAKI, Daisuke; HOSHI, Toru; HAGIWARA, Toshiki; SAWAGUCHI, Takashi
- 3PA-013** Synthesis and Application of Polycarbonate-Poly(methyl methacrylate) Triblock Copolymer (College of Science and Technology, Nihon) SASAKI, Tatsunobu; SASAKI, Daisuke; HOSHI, Toru; HAGIWARA, Toshiki; SAWAGUCHI, Takashi

Polymer Reaction

- 3PA-014** Characterization and polymerization of aromatic olefines with nitration by one-pot synthesis (Graduate School of Science & Engineering, Yamagata Univ.) KIJIMA, Tatsuro; ABE, Shouko; NOGUCHI, Reika; ZHU, Rui; IZUMI, Taeko
- 3PA-015** Syntheses of Novel Lipophilic Polyelectrolytes and their Lipophilic

- 3PA-036** Synthesis and characterization of novel benzonitronyl-nitroxide radicals (Faculty of Sci. and Technol., Tokyo Univ. of Sci.) FUKUSHIMA, Naoto; YASUDA, Naohiro; MURATA, Hidenori; YUASA, Makoto
- 3PA-037** Synthesis and Characterization of Novel Reactive UV Absorbers Utilizing Ferulic Acid (Industrial Technology Center of Wakayama Prefecture) MORI, Hajime; HOSODA, Asao; MIYAKE, Yasuhito; TANAKA, Yoshie; OSAKI, Shusuke; KOBATA, Toshitsugu; TANIGUCHI, Hisaji; YASUDA, Shingo; YAMADA, Kouhei; OOTA, Kouji; IYO, Masami; KAYANOKI, Minoru; TSUNO, Takuo
- 3PA-038** Photoalignment of Thiophene Oligomer-Doped Liquid Crystals and Their Application to Optical Components (Chemical Resources Laboratory, Tokyo Institute of Technology) TAKANO, Keisuke; KINOSHITA, Motoi; IKEDA, Tomiki
- 3PA-039[#]** Organic-metallic hybrid polymers with high fluorescence properties (NIMS) PAL, Ravindra; HIGUCHI, Masayoshi; KURTH, Dirk G
- 3PA-040** Preparation and Photomobile Properties of Crosslinked Azobenzene Liquid-Crystalline Polymer Composites with Chemically Modified Carbon Nanotubes (Chemical Resources Laboratory, Tokyo Institute of Technology) OZAWA, Tetsuya; KONDO, Mizuho; MAMIYA, Jun-ichi; KINOSHITA, Motoi; IKEDA, Tomiki
- 3PA-041** Effect of Terminal Groups of Azotolane Moieties on Photoresponsive Behavior in Azotolane Liquid-Crystalline Polymers (Chemical Resources Laboratory, Tokyo Institute of Technology) MATSUTANI, Yuki; SHISHIDO, Atsushi; IKEDA, Tomiki
- 3PA-042^T** Photopolymerization between 1, 1, 1-Tribromoethane and Diphenylamine (Graduate School of Materials Science, Nara Institute of Science and Technology) KOYAMA, Fumi; KAWAI, Tsuyoshi
- 3PA-043** Molecular Alignment Induced by Photopolymerization with Light Distribution (Chemical Resources Laboratory, Tokyo Institute of Technology) NAKAJIMA, Yoshitaka; SHISHIDO, Atsushi; IKEDA, Tomiki
- 3PA-044** Synthesis of Polyimide Gels and Their Charge Transfer Complex (Ritsumeikan Univ.) TAJIKA, Yusuke; HANASAKI, Tomonori; SHIMIZU, Yo
- 3PA-045** Effect of Photoisomerization and Molecular Alignment of Azobenzene Moieties on Photomobile Properties of Crosslinked Azobenzene Liquid-Crystalline Polymer Films (Chemical Resources Laboratory, Tokyo Institute of Technology) HIRAOKA, Tomohiro; SHIMAMURA, Aki; KONDO, Mizuho; KUBO, Shoichi; MAMIYA, Jun-ichi; SHISHIDO, Atsushi; IKEDA, Tomiki
- 3PA-046** Control of Photoluminescence and Alignment in Fluorene Derivative on Photoalignment Polymer Film Comprising the Hydrogen Bonding (Univ. of Hyogo) ANDO, Ryoichi; MINAMI, Yuta; KAWATSUKI, Nobuhiro
- 3PA-047** Synthesis and evaluation of novel shell cross-linked nanopartiles fabricated from dye-containing amphiphilic block copolymers as optical imaging probes for tumor in vivo. (Graduate School of Engineering, Kyoto Univ.) KURAMOCHI, Yoshiaki; MIKI, Koji; MATSUOKA, Hideki; OHE, Kouichi
- 3PA-048** ROM Polymerization of functional monomers aiming at polymer films with antimicrobial activity (Nihon Univ.) TAKANO, Shigenaga; NAGANUMA, Chisato; OGAWA, Shoujiro; TAMEGAI, Hideyuki; IIDA, Takashi; WAKATSUKI, Yasuo
- 3PA-049** Synthesis of structure-controlled polymers with poly(ethylene glycol) chains and tertiary amino groups and gene transfection thereof. (Nara Institute of Science and Technology) NAKAGAWA, Masayoshi; HIROHARA, Shiho; ANDO, Tsuyoshi; TERASHIMA, Takaya; SAWAMOTO, Mitsuo; TANIHARA, Masao
- 3PA-050** Synthesis and Evaluation of Cyanine Dye-Containing Nano-Scale Assemblies and Their Application to Optical Tumor Imaging (Graduate School of Engineering, Kyoto Univ.) MIKI, Koji; INOUE, Satoru; KURAMOCHI, Yoshiaki; ORIDE, Kazuaki; MATSUOKA, Hideki; OHE, Kouichi
- 3PA-051** Permeation behavior of poly (*N*-isopropylacrylamide)-*g*-poly (methacrylic acid)-*g*-porous ultra-high-molecular weight polyethylene film by pH and thermal stimuli (Fuji Lab., Dept. appl. mol. chem., Coll. Ind. tech., Nihon Univ.) OMORI, Hiroaki; FUJII, Takayosi; HIRATA, Mitsuo
- 3PA-052** Temperature dependence of bound water structure within the glassy polymer (Univ. of Meiji Applied Chemistry) SEKINE, Yurina; IKEDA-FUKAZAWA, Tomoko
- 3PA-053** Rapid response of microporous, thermosensitive organic-inorganic hybrid hydrogel prepared by ice templating (Utsunomiya Univ.) NAKADA, Takahisa; MATEJKA, Libor; IIMURA, Ken-ichi; KATO, Norihiro
- 3PA-054** The additive effect of poly vinyl alcohol on the nucleation temperature of supercooling drops in W/O emulsion. (Univ. of Keio) KOGA, Maito; OGAWA, Shigesaburo; OSANAI, Shuichi
- 3PA-055** Synthesis of Thermoresponsive Methacrylate Polymer Having Methoxyethylamide Group (National Defense Academy; Lintec Co.Ltd) MORIYA, Osamu; TAKUSHIMA, Hiroyuki; YAMAMOTO, Shin-ichi; KASHIO, Mikihiro; SUGIZAKI, Toshio
- 3PA-056** Synthesis of thermoresponsive polymers having chiral amino alcohol structures as their side chains (Kinki Univ.) HAMANAKA, Takahiro; ISHIFUNE, Manabu; TORISAKI, Masashi
- 3PA-057** Helical structures and molecular recognition abilities of sugar diol polyesters (Tomakomai natl. coll. of tech.) ISONO, Takuya; MASUDA,

Ryuhei; KONO, Hiroyuki; SATOH, Toshifumi; KAKUCHI, Toyoji; HASHIMOTO, Hisaho

Biofunctional Chemistry ; Biotechnology

Small molecule/Molecular recognition

- 3PA-059** Substrate specificity of farnesyl diphosphate synthase: The reactivities of substrate homologs having hydrophilic group at omega-position (Hirosaki Univ. Graduate School of Science and Technology, Yamagata Univ. Tohoku Univ. Institute of Multidisciplinary Research for Advanced Materials) MUSASHI, Tohru; YAMANE, Hirotatsu; MAKI, Yuji; SAGAMI, Hiroshi; KOYAMA, Tanetoshi; NAGAKI, Masahiko
- 3PA-060** Antiviral activity over the phytopathogen of functional isoprenoids (Hirosaki Univ. Graduate School of Science and Technology, Hirosaki Univ. Faculty of agricultural and life science, Tohoku Univ. Institute of Multidisciplinary Research for Advanced Materials) KASAI, Manami; SANO, Teruo; SAGAMI, Hiroshi; NAGAKI, Masahiko
- 3PA-061** Studies of Regioisomeric γ -Cyclodextrin Tetrasulfonates (Graduate School of Engineering, Nagoya Institute of Technology) HARIGANE, Mitsuru; KITAMURA, Masahiro; YAMAMURA, Hatsu
- 3PA-062** Synthesis of Multiply-Substituted Cyclodextrin by Click Chemistry (Nagoya Institute of Technology) KURATA, Ryuji; SHIMOHARA, Kyohei; YAMAMURA, Hatsu
- 3PA-063** Length-selective acylation catalyst (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) SAWADA, Aki; KIHARA, Nobuhiro
- 3PA-064** Chirality Relay in d-f Metal Complex and its application in CD Amينو Sensing (Graduate School of Science, Osaka City Univ.) SHINODA, Satoshi; YANO, Keiko; TSUKUBE, Hiroshi
- 3PA-065** Axially chiral reaction field that recognizes substrate by hydrogen bonding (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) ISHIGURI, Noritaka; KIHARA, Nobuhiro
- 3PA-066** Inhibition of self-catalyzed hydrolysis of β -alanine ester by the platform on Which His and Ser are presented (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) SHIRATORI, Ai; KIHARA, Nobuhiro
- 3PA-067** Preparation of monoclonal antibodies against chiral binaphthyl derivatives (Graduate School of Science, Osaka Univ.) ODAKA, Tomoki; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 3PA-068** Development of a novel hypoxia detectable probe: Synthesis and properties of a FITC-labeled avidin and biotin complex possessing indolequinone derivative (Department of energy and hydrocarbon chemistry, Graduate school of engineering, Kyoto Univ.) HIRATA, Nao; FUJISAWA, Yusuke; TANABE, Kazuhito; NISHIMOTO, Sei-ichi
- 3PA-069** Synthesis and cytotoxicity characteristics of a radiation-activated cytarabine prodrug possessing 2-oxoalkyl group (Department of energy and hydrocarbon chemistry, Graduate school of engineering, Kyoto Univ.) HIRATA, Nao; FUJISAWA, Yusuke; TANABE, Kazuhito; NISHIMOTO, Sei-ichi; HARADA, Hiroshi; HIRAOKA, Masahiro
- 3PA-070** Formation of Porphyrin Assemblies using Tetraphenylporphyrins Bearing Four Cyclodextrins at the ortho-Positions (Kyoto Institute of Technology) SASAKI, Ken; YOSHIKAWA, Hiroto; KURODA, Yasuhisa
- 3PA-071** Synthesis of a fluorinated porphyrin iron complex as the active site of Heme-containing Monooxygenase (Inst. for Materials Chem. and Eng., Kyushu Univ.) LIU, Huan; LIU, Jin-gang; NARUTA, Yoshinori
- 3PA-072** Photoinduced Charge and Energy Transfer Processes in Self-Organized Porphyrin Assemblies Containing Naphthoquinone (Kyoto Institute of Technology) KURODA, Yasuhisa; HARA, Daisuke; MORISUE, Mitsuhiko; SASAKI, Ken
- 3PA-073** Synthesis and PDT effect of mono-, di-, tri- and tetrasubstituted glucosyl- fluorophenylporphyrin derivatives. (Nara Institute of Science and Technology; Nara Women's Univ.) NISHIDA, Masataka; HIROHARA, Shiho; OBATA, Makoto; ANDO, Tsuyoshi; TANIHARA, Masao
- 3PA-074** Synthesis of manganese porphyrin complex with long-chain alkyl group and its application to antioxidant agent (Faculty of Sci. and Technol., Tokyo Univ. of Sci.) HASUMI, Masahiro; YANAGISAWA, Keiko; MURATA, Hidenori; YUASA, Makoto
- 3PA-075** Photodamage of human serum albumin by dipropylenglycoxyP(V) tetraphenyl porphyrin (Shizuoka Univ.) KIKUCHI, Ryo; HIRAKAWA, Kazutaka
- 3PA-076** Synthesis of phenyl-linked porphyrin dimer and its function (Kyoto Institute of Technology) KURODA, Yasuhisa; FUKUSUMI, Yoshihiro; SASAKI, Ken; MORISUE, Mitsuhiko
- 3PA-077** Anion sensing by Zn(II) N-confused porphyrin complex in the NIR region. (Graduate School of Engineering, Kyushu Univ.) AKIMARU, Hisanori; FURUTA, Hiroyuki
- 3PA-078** Synthesis and property of water-soluble N-fused porphyrin. (Graduate School of Engineering, Kyushu Univ.; PRESTO JST) HARADA, Hiroyuki; TOGANO, Motoki; IKAWA, Yoshiya; FURUTA, Hiroyuki
- 3PA-079** Redox property of the primary electron donor P700 in photosystem I of diatom (Inst. Ind. Sci, Univ. of Tokyo; JR R&D; School of Sci., Univ. of Hyogo) KATO, Yuki; WATANABE, Satoshi; NAKAMURA, Akimasa; KASHINO, Yasuhiro; WATANABE, Tadashi
- 3PA-080** Development of porphyrin-MRI agent as a cancer diagnosis (Faculty of Sci. and Technol., Tokyo Univ. of Sci.) TAKEUCHI, Hiroki;

SAOTOME, Tomohiro; MURATA, Hidenori; YUASA, Makoto

Nucleic acid

- 3PA-081** DNA ligation using photoremovable protecting groups (Univ. of Hyogo) KAWANO, Yuta; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 3PA-082** Synthesis and characterization of nucleoside triphosphates labeled with pyrene (Univ. of Hyogo) TANIMIZU, Yosuke; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 3PA-083** Pyrene aggregates on RNA duplexes (Univ. of Hyogo) FUKUDA, Minoru; MAIE, Kenji; NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige
- 3PA-084** Synthesis of double-stranded RNAs containing amide-linked RNA segments at the 3'-terminal regions (Teikyo Univ. Sci. Tech.) KUROKAWA, Rina; UENO, Junpei; IWASE, Reiko
- 3PA-085** Synthesis of 5'-amino-3'-carboxymethyl-3',5'-dideoxycytidine building block for the application to the solid-phase synthesis of amide-linked RNA (Teikyo Univ. Sci. Tech.) OCHIKUBO, Tatsuya; IWASE, Reiko
- 3PA-086** Synthesis and cross-linking properties of aldehyde-conjugated oligonucleotides. (Kyoto Institute of Technology) KOBORI, Akio; YAMAUCHI, Takemune; YAMAYOSHI, Asako; MURAKAMI, Akira
- 3PA-087** Chemical ligation by using DNA double strand having a gap region (Tokyo Institute of Technology) ESAKA, Yosuke; YAMADA, Ken; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 3PA-088** Development of photoreversible DNA manipulation controlled by a single light (JAIST; Innovation Plaza Ishikawa, JST) YOSHIMURA, Yoshinaga; OHTAKE, Tomoko; OKADA, Hajime; FUJIMOTO, Kenzo
- 3PA-089** Synthesis of DNA oligomers modified with a photoactivatable diazirine residue and their use for the selective photo-crosslinking with complementary DNA oligomers containing 5-methylcytosine (Tokyo Institute of Technology) TSUNODA, Hirosuke; YAMADA, Kenji; TAGUCHI, Haruhiko; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 3PA-090** Synthesis of DNA oligomers by use of complete protection of nucleobases (Tokyo Institute of Technology) KUDO, Tomomi; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEIO, Kohji; SEKINE, Mitsuo
- 3PA-091** Development of a new strategy for the synthesis of oligonucleotides 5'-adenylated via a diphosphate linkage (Tokyo Institute of Technology) NISHINO, Yuudai; OHKUBO, Akihiro; NOMA, Yasuhiro; KUWAYAMA, Yasukazu; TSUNODA, Hirosuke; SEIO, Kohji; SEKINE, Mitsuo
- 3PA-092** Prompt Site-Selective DNA Hydrolysis by Ce(IV)/EDTA and PNA Bearing Multiphosphonate Derivative (RCAT, The Univ. of Tokyo) KOBE, Akihiro; AIBA, Yuichiro; LONNBERG, Tuomas; SUZUKI, Yuta; MIYAJIMA, Yoshitaka; KOMIYAMA, Makoto
- 3PA-093** Synthesis of peptide nucleic acid (PNA) incorporating reactive nucleic base and evaluation of the reactivity. (IMRAM, Tohoku Univ.) SHIMOTAZAWA, Azusa; IMOTO, Shuhei; HIROHAMA, Tomoya; GOTO, Makoto; NAGATSUGI, Fumi
- 3PA-094** Synthesis of molecular beacons containing a tricyclic base analog and their abilities to detect target genes (Gifu Univ.) FURUKAWA, Kinji; KITAMURA, Yoshiaki; UENO, Yoshihito; KITADE, Yukio
- 3PA-095** Synthesis and antiviral activities of acyclonucleoside analogs involving enamine structure (Gifu Univ.) IWAYAMA, Masahiro; KITAMURA, Yoshiaki; UENO, Yoshihito; KITADE, Yukio
- 3PA-096** Synthesis of branched DNA having a cytidine derivative at the branch point (Tokyo Institute of Technology) SEINO, Toshiya; SEIO, Koji; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEKINE, Mitsuo
- 3PA-097** Reversible photochemical synthesis of padlock-modified plasmid DNA (JAIST) OGINO, Masayuki; TAKEMURA, Yumiko; FUJIMOTO, Kenzo
- 3PA-098** Synthesis and Evaluation of Molecular Motor conjugated Oligo DNA (IMRAM, Tohoku Univ.) NAGAYA, Naoto; KUWAHARA, Shunsuke; HARADA, Nobuyuki; NAGATSUGI, Fumi
- 3PA-099** Synthesis of oligonucleotides terminally- bulky modifications and evaluation of its alternative hybridization with short RNA. (Tokyo Institute of Technology) SEIO, Kohji; KUROHAGI, Sayako; MIYAZAKI, Kazuya; MASAKI, Yoshiaki; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEKINE, Mitsuo
- 3PA-100** Development of a method for selective N-acylation of 2'-deoxycytidine (Kanagawa Institute of Technology; Graduate School of Engineering) SAITOU, Tadashi
- 3PA-101** Effect of incorporation of aromatic compounds into dangling ends of siRNAs on their RNAi-inducing activities (Gifu Univ.) YOSHIKAWA, Kayo; KITAMURA, Yoshiaki; UENO, Yoshihito; KITADE, Yukio
- 3PA-102** Development of novel nucleic acid analogs for the induction of structural alternation of RISC. (Kyoto Institute of Technology) YAMAYOSHI, Asako; YAMADA, Yukiko; KOBORI, Akio; MURAKAMI, Akira
- 3PA-103** Gene Activation using Photo-Mediated Linker (School of Engineering, Univ. of Tokyo, Nagamune Lab) OHKOSHI, Yuki; YAMAGUCHI, Satoshi; TSUKIJI, Shinya; FURUTA, Toshiaki; NAGAMUNE, Teruyuki
- 3PA-104** Binary digit addition using photochemical autonomous DNA computing machine (JAIST) AMI, Takehiro; OGASAWARA, Shinzi; FUJIMOTO, Kenzo
- 3PA-105** Development of a Novel Method to Determine the Concentration of Heavy Metal Cations: Application of the Specific Interaction between Heavy Metal Cation and Mismatch DNA Base Pair (Tokyo Univ. of Science; Tohoku Univ.; Kanagawa Univ.) MIYAKAWA, Yukako; KOZASA, Tetsuo; TANAKA, Yoshiyuki; ONO, Akira; TORIGOE, Hidetaka
- 3PA-106** High selective binding of 3,5-diaminopyrazines to DNA/RNA hybrids (Tohoku Univ.) ICHIHASHI, Toshiki; SATO, Yusuke; NISHIZAWA, Seiichi; TERAMAE, Norio
- 3PA-107** Synthesis of fluorogenic compound for nucleic acid sensing (RIKEN) HARADA, Mitsuru; FURUKAWA, Kazuhiro; ABE, Hiroshi; TSUNEDA, Satoshi; ITO, Yoshihiro
- 3PA-108** Synthesis and spectroscopic analysis of oligonucleotide incorporating fluorescein and pyrene (Tokyo Institute of Technology) SEIO, Kohji; TASAKI, Kaori; SATO, Yuri; TSUNODA, Hirosuke; OHKUBO, Akihiro; SEKINE, Mitsuo
- 3PA-109** In vitro selection of DNA aptamers which bind 8-OHdG: a marker of oxidative stress. (Grad. Sch. Bio., Tokyo Univ. of Technol.) OJIMA, Kazuhiko; KATO, Teru
- 3PA-110** New SELEX Strategy for screening of DNA Aptamer by AFM (Kobe Univ.) HAYASE, Taiji; OGINO, Chiaki; MIYACHI, Yusuke; FUKUDA, Hideki; KODO, Akihiko
- 3PA-111** Detection of single nucleotide mutations based on the binding of small-molecule ligands to three-way DNA junction (Grad. Sch. Bio., Tokyo Univ. of Technol.) HIRUTA, Atsuko; HYUGA, Masumi; KATO, Teru
- 3PA-112** Synthesis of dumbbell-shaped nanocircular RNAs for improvement of permeability and stability (RIKEN, Waseda university) UDA, Miwako; ABE, Hiroshi; ABE, Naoko; FURUKAWA, Kazuhiro; TSUNEDA, Satoshi; ITO, Yoshihiro

Protein

- 3PA-113** Decelerated helix-inversion of an optically inactive 3_{10} -helical peptide by metal-mediated multiple cross linking (Univ. of Tokyo, Graduate School of Arts and Sciences; Univ. of Tokyo, Graduate School of Science; JST SORST) FUKUDA, Morihiko; OUSAKA, Naoki; SATO, Tomohiro; KURODA, Reiko
- 3PA-114** Synthesis and Chemotactic Activity of Urease-related Peptides for Human Neutrophil. (Dept. of Chem.; fac. of Med., Saga Univ.) SHINMACHI, Hirofumi; SUGIYAMA, Daisuke; OSADA, Satoshi; FUJITA, Ichiro; HAMASAKI, Yuhei; KODAMA, Hiroaki
- 3PA-115** Designed of a peptide ligand that binds a triple-stranded coiled coil (Graduate School of Engineering, Nagoya Institute of Technology) HONDA, Shoichiro; TANAKA, Toshiaki
- 3PA-116** Dimerization and biological activities of Boc-Phe-(D-Leu-Phe)₂ (- Saga Univ., Dept. of Chem; Saga Univ., Fac. of Med.) HIRAKAWA, Yuki; SUGIYAMA, Daisuke; OSADA, Satoshi; FUJITA, Ichiro; HAMASAKI, Yuhei; KODAMA, Hiroaki
- 3PA-117**† Dimerization of fMLP Antagonists and Biological Activities for Human Neutrophils (Dept. of Chem.; Fac. of Med., Saga Univ.) SUGIYAMA, Daisuke; HIRAKAWA, Yuki; OSADA, Satoshi; FUJITA, Ichiro; HAMASAKI, Yuhei; KODAMA, Hiroaki
- 3PA-118** Construction of metal binding peptide-fused proteins and evaluation of their binding activities for nano metal particles (RIKEN) ABE, Shoko; WADA, Akira; KURITA, Kimio; ITO, Yoshihiro
- 3PA-119** Evaluation of the amino acid modified peptide action on the bacterial membrane (National Institute for Advanced Industrial Science and Technology 2Research Center Borstel) FUKUOKA, Satoshi; HOWE, Joerg; ANDRAE, Joerg; GUTSMANN, Thomas; BRANDENBURG, Klaus
- 3PA-120** Reduction of verdoheme-heme oxygenase-1 complex (Kurume Univ. Sch. of Med.; Kyushu Inst. of Tech.) SATO, Hideaki; HIGASHIMOTO, Yuichiro; SAKAMOTO, Hiroshi; SUGISHIMA, Masakazu; NOGUCHI, Masato
- 3PA-121** Enzymatic activity of ribonuclease A encapsulated in porous silica gels (Tokai Univ.) SANO, Nobukazu; YOKOKAWA, Mariko; HASEGAWA, Norikazu; IWAOKA, Michio
- 3PA-122** Synthesis and biological activities of short chain peptaibols (Dept. of chem., Saga Univ.) KURIYAMA, Yuki; SUGA, Torao; ITO, Junko; OSADA, Satoshi; KODAMA, Hiroaki
- 3PA-123** Substrate inhibition mechanism of the ferredoxin-NADPH oxidoreductase from *Bacillus subtilis* (Kanazawa Univ., CEA Saclay France) SEO, Daisuke; OKABE, Seisuke; SETIF, Pierre; KATAOKA, Kunishige; SAKURAI, Takeshi
- 3PA-124** Dynamic kinetic resolution of amino acid esters in unhomogeneous organic media (Graduate School of Science & Engineering, Yamagata Univ.) KIJIMA, Tatsuro; YAMADA, Takashi; NARA, Takehito; OHYA, Norimasa; IZUMI, Taeko
- 3PA-125** Higher-order structure analysis of Geranylgeranyl diphosphate synthase from *Lactarius chrysorrhoeus* (Yamagata Univ.; Faculty of science) OHYA, Norimasa; SATO, Hidenori; MIYAGI, Yukino; SAGAMI, Hiroshi; KOYAMA, Tanetoshi; MAKI, Yuuji
- 3PA-126** The role of SOD2 in the copper resistance of a deep-sea yeast *Cryptococcus liquefaciens* strain N6 (Tokyo Institute of Technology) SASAKI, Yusuke; MINAGAWA, Yoichi; OURA, Takahiro; ABE, Fumiyoshi; KAJIWARA, Susumu
- 3PA-127**# Interaction of Heme-regulated eIF2 α Kinase with a Heat Shock

- Protein (Tohoku Univ.) MUKAI, Kentaro; IGARASHI, Jotaro; SHIMIZU, Toru
- 3PA-128[†]** Effect of Weak Interaction on the Electronic Structure and Electrochemical Properties of Pseudoazurin Met16X mutants (1 Inst. Appl. Beam Sci., Ibaraki Univ., 2 Montana Univ., 3 Hitachi Ltd.) OBARA, Yuji; FUJITA, Koyu; BROWN E., Doreen; DOOLEY M., David; TANAKA, Hideki; KITAGAWA, Isao; OKADA, Michiya; KOHZUMA, Takamitsu
- 3PA-129** Spectroscopic and Electrochemical Properties of Pseudoazurin M16N and M16Q Mutant Proteins (1 Inst. Appl. Beam Sci., Ibaraki Univ., 2 Montana Univ.) NIHEI, Yuko; OBARA, Yuji; KANCHAN, Chakma; FUJITA, Koyu; BROWN E., Doreen; DOOLEY M., David; KOHZUMA, Takamitsu
- 3PA-130** Chirality in Photoisomerization of Retinochrome with Retinal Analogs. (Japan advanced institute of science and technology) KAMIYA, Youhei; MIZUKAMI, Taku; KISHIGAMI, Akio; TSUJIMOTO, Kazuo
- 3PA-131** Design and Characterization of the metal-bind trimeric coiled-coil variants, accompanying the structural transition (Grad. Sch. of Eng., Nagoya Inst. of Tech.) OKUSA, Koichi; MIZUNO, Toshihisa; TANABE, Youichi; ODA, Masayuki; TANAKA, Toshiaki
- 3PA-132** Secondary Structural Change during Refolding Process of Bovine Liver Rhodanese using Porous Silicate Sol-Gel Method (Nat. Def. Acad.: Department of Applied Chemistry; Univ. of Illinois at Chicago. Department of Chemistry) TAKEKIYO, Takahiro; KEIDERLING, T. A.; YOSHIMURA, Yukihiko
- 3PA-133** Improved X-ray structure of the novel EF-hand protein Iba1 and the study on dimer formation (Life Science Research Center, Kagawa Univ.) YOSHIDA, Hiromi; OHSAWA, Keiko; KOHSAKA, Shinichi; KAMITORI, Shigehiro
- 3PA-134** Resolution of translational control mechanism through RNA binding protein, EWS (Shizuoka Univ.) UCHIYAMA, Yumiko; TAKAHAMA, Kentaro; OYOSHI, Takanori
- 3PA-135** Protein Sensing Using Reflectometric Interference Spectroscopy (Kobe Univ.) OOYA, Tooru; TAKAHASHI, Hiroaki; TAKEUCHI, Toshifumi
- 3PA-136** Synthesis of Hydrophilic Crosslinker Using a Sugar Derivative for Molecular Imprinting of Proteins (Kobe Univ.) UCHIDA, Hiroki; OOYA, Tooru; TAKEUCHI, Toshifumi
- 3PA-137** Synthesis and evaluation of metal-complex-based protein fluorescence recognition materials. (Kobe Univ.) KUWAHARA, Atsushi; OOMORI, Kouhei; OOYA, Tooru; TAKEUCHI, Toshifumi
- 3PA-138** Immobilization of photosynthetic antenna protein/pigment complexes onto substrates (Nagoya Institute of Technology) AKEGAWA, Misaki; HATASA, Mikio; GOTO, Osamu; HARADA, Kaori; IIDA, Kouji; DEWA, Takehisa; HASHIMOTO, Hideki; NANGO, Mamoru
- 3PA-139** Reconstitution of antenna LHI complex from purple photosynthetic bacteria in the presence of carotenoids. (Nagoya Inst. of Tech.) SAKAI, Shunnsuke; NAKAGAWA, Katsunori; NAKANO, Tsubasa; FUKUI, Naomi; NAKASHIMA, Ayano; DEWA, Takehisa; YAMASHITA, Keiji; HASHIMOTO, Hideki; NANGO, Mamoru
- 3PA-140** Modeling of electron transfer between pigments assembled by photosynthetic antenna proteins (Nagoya Institute of Tech.) KUZUYA, Kotaro; JOKE, Takashi; TAKEUCHI, Yoshito; ISHIGURE, Syuichi; KANEMOTO, Katsuichi; SUGISAKI, Mitsuru; DEWA, Takehisa; YAMASHITA, Keiji; HASHIMOTO, Hideki; NANGO, Mamoru
- 3PA-141** Application of immobilized metal affinity chromatography in the presence of ArgHCl (School of Frontier Sciences, Univ of Tokyo) ABE, Ryota; KUDOU, Motonori; TSUMOTO, Kouhei
- 3PA-142** Study of destabilization of protein by cyclodextrin (Kinki Univ.) KAMIYAMA, Tadashi; AOKI, Eri; TAKEUCHI, Daisuke; KIMURA, Takayoshi
- 3PA-143** Chemical modification of proteins with photochromic molecules for conformational regulation (Nara Institute of Science and Technology (NAIST)) AMANO, Makoto; NAGAO, Satoshi; TAKABE, Teruhiro; HIROTA, Shun
- 3PA-144** Photoisomerization of Stilbene Derivatives Controlled by Bovine Serum Albumin (Grad. Sch. Sci., Osaka Univ.) YAMAGUCHI, Hiroyasu; TADA, Mayako; HARADA, Akira
- 3PA-145** mechanism-based labeling of proteins using suicide substrate (Graduate school of life science, Hokkaido Univ.) FURUKAWA, Takayuki; HINOU, Hiroshi; FENG, Fei; NISHIMURA, Shin-ichiro
- 3PA-146** Direct measurement of interaction between phosphorelay proteins. (Institute of Multidisciplinary Research for Advanced Materials (IMRAM) Tohoku Univ.) KONISHI, Motoi; ISHIJIMA, Miya; FUJITA, Masaya; KURIHARA, Kazue
- 3PA-147** Development of cellulose-based glycopolymers through regioselective and quantitative functionalization of native cellulose (Bio-Nano Electronics Research Centre, Toyo Univ. Dept. of Life Sciences, Faculty of Life Sciences, Toyo Univ.) NEGISHI, Kaori; YAMASHITA, Erika; HASEGAWA, Teruaki
- 3PA-148** Development of a lectin sensor based on hinge sugar (Graduate School of Biosci. & Biotechnol, Tokyo Tech) OHNISHI, Takumi; OKUMA, Shintaro; MITSUHASHI, Nobuyuki; YUASA, Hideya
- 3PA-149** Synthesis and functionalization of trisaccharide derivative in carbohydrate antigen Lewis X (Graduate School of Science and Engineering, Saitama Univ.) KOHZU, Tatsuya; YAMAGUCHI, Hiroki; HAKUMURA, Takashi; KOYAMA, Tetsuo; HATANNO, Ken; TERUNUMA, Daiyo; MATSUOKA, Koji
- 3PA-150** Design and Development of Coordination Methods for Efficient Formation of Glycoclusters (Institute for Molecular Science; Okazaki Institute for Integrative Bioscience) YAMAGUCHI, Takumi; KATO, Koichi
- 3PA-151** Thermodynamic analysis for isomerization and epimerization of hexoses (Kagawa Univ.) FUKADA, Kazuhiro; IZUMORI, Ken
- 3PA-152** R & D on Sugar Ball Dendritic MRI Contrast Agents (Graduate School of Science and Technology, Graduate School of Engineering) YAMASHITA, Mitsui; AOKI, Takashi; OZAKI, Nobuhisa; SUGIYAMA, Masaki; BITRAGUNTA, Siva Kumar; ARIGALA, Uma Ravi Sankar; YAMASHITA, Junko; FUJIE, Michio; TAKEHARA, Yasuo; YU, Gang; SAKAHARA, Harumi
- 3PA-153** Fluorescence Sensors for Saccharides in Water Based on Saccharide Appended Pyrene Derivatives (Univ. of Yamanashi) FUJIMAKI, Yoshihiro; SHINMORI, Hideyuki
- 3PA-154** Estimation of Distorted Cavity Structure of Secondary Monoamino-Cyclodextrins by NMR Chemical Shifts (Tokyo Polytech. Univ) TAKAHASHI, Keiko; ANDOU, Keita; FUJIWARA, Shoji; NAGANUMA, Takuma
- 3PA-155** Introduction of a Paramagnetic Tag for NMR Structural Analysis of Oligosaccharides (Okazaki Institute for Integrative Bioscience; Grad. Sch. of Pharm. Sci., Nagoya City University; Max-Planck Institute for Biophysical Chemistry) YAMAMOTO, Masahiro; YAMAGUCHI, Takumi; YAGI, Hirokazu; ERDELYI, Mate; GRIESINGER, Christian; KATO, Kouichi
- 3PA-156** Immobilization of O-linked glycosyl copolymers on glass substrates and lectin recognition properties (JAIST) ITO, Akihiro; MIURA, Yoshiko
- 3PA-157** Inhibition of protein amyloidosis by glycopolymers (School of Materials Science, Japan Advanced Institute of Science and Technology) WADA, Masaya; MIYAZAWA, Yuta; MIURA, Yoshiko

Lipid

- 3PA-158** Construction of auto-catalytic membrane-formation on vesicular surface, and comparison of reactivity by using different membrane. (Graduate School of Arts and Sciences, The Univ. of Japan) TAKAHASHI, Hiroshi; KAGEYAMA, Yosiyuki; SUGAWARA, Tadashi
- 3PA-159** Artificial Cell Membranes Controlling Enzymatic Activity with Nucleotide Signals (Nara Inst. of Sci. and Technol.) KAWASAKI, Akihiro; MUKAI, Masaru; KIKUCHI, Jun-ichi
- 3PA-160** Construction of Target Selective Membrane Fusion System Performing at Physiological pH (College of Industrial Technology, Nihon Univ.) TSUBOI, Mana; KASHIWADA, Ayumi; MIZUNO, Toshihisa; NAGASAKI, Takeshi; MATSUDA, Kiyomi
- 3PA-161** Specific Assembly of Giant Vesicles on a Solid Substrate through Complementary Molecular Recognition (Nara Inst. of Sci. and Technol.) KOMATSUZAKI, Hanae; WANG, Zhong-hua; KIKUCHI, Jun-ichi
- 3PA-162** PCR in anionic Giant Vesicles (The Univ. of Tokyo) TAMURA, Mieko; SHOUDA, Koh-ichiro; TAKAHASHI, Hiroshi; KAGEYAMA, Yoshiyuki; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 3PA-163** Construction of Domain-specific Lipid Vesicular Assembly (Nara Inst. of Sci. and Technol.) IKEMATSU, Chie; YASUHARA, Kazuma; KIKUCHI, Jun-ichi
- 3PA-164** *In situ* observation of reconstituted photosynthetic membrane by using atomic force microscopy (Osaka City Univ.) SUGAI, Yuko; FUJII, Ritsuko; SUGISAKI, Mitsuru; NANGO, Mamoru; HASHIMOTO, Hideki
- 3PA-165** Incorporation of photosynthetic antenna-reaction center complex in a lipid bilayer and direct observation by atomic force microscopy (Nagoya Institute of Technology) SASAKI, Nobuaki; SUMINO, Ayumi; DEWA, Takehisa; HASHIMOTO, Hideki; NANGO, Mamoru

Cell

- 3PA-166** On chip individual cell positioning and its differentiation (Tokyo Institute of Technology) TANAKA, Yasuhiro; ENDO, Tatsuro; YANAGIDA, Yasuko; HATSUZAWA, Takeshi
- 3PA-167** Hydrostatic pressure modulated cell proliferation in mammalian cells (JAMSTEC) IWATANI, Yushi; MIWA, Tetsuya; KOYAMA, Sumihiro
- 3PA-168** Control of yeast metabolism with AFM (Kobe Univ.) NOSAKA, Kazuki; OGINO, Chiaki; ISHII, Jun; MIYACHI, Yusuke; FUKUDA, Hideki; KONDO, Akihiko

Environment

- 3PA-169** Recognition of Cytochalasin E by imprinted polymers prepared with Dummy-template molecules (Kobe Univ.) SUGITANI, Ryota; LEE, Woosang; OKAMURA, Satoshi; KINOMOTO, Masaya; TAKANO, Eri; OOYA, Tooru; TAKEUCHI, Toshifumi
- 3PA-170** Preparation of phosphate-selective polymers and evaluation of binding ability and recovery of phosphate (RCAT, The City of Hiroshima) BABE, Fumie; TAKEI, Hideki; KUGIMIYA, Akimitsu
- 3PA-171** Rapid detection of influenza virus using a liposome that encapsulates

Ru complex (Faculty of Life and Sciences, Pref. Univ. of Hiroshima) EGASHIRA, Naoyoshi; KUSHIMA, Mistuyuki; TAKAO, Shin-ichi; MITOMA, Yoshiharu; HIFUMI, Emi; UDA, Taizo

3PA-172 Measurement of amino acids using enzyme reaction (RCAST, The City of Hiroshima) KOHARA, Kaori; OHTSUKI, Takashi; KUGIMIYA, Akimitsu

Biocatalysis

3PA-173 Enzyme-catalyzed enantioselective esterification of primary alcohols (Toyama Prefectural Univ.; Toyama Univ.; Toyama Nat. College Tech.) KAWASAKI, Masashi; TOYOOKA, Naoki; GOTO, Michimasa; KOMETANI, Tadashi

3PA-174 Biotransformation of estragole by plant cultured cells of Caragana chamlagu (College of Science and Technology, Nihon Univ.) ITOH, Ken-ichi; NAKAMURA, Kaoru; SATOH, Hiroaki; AOYAMA, Tadashi; KITANAKA, Susumu; SAKAMAKI, Hiroshi; TAKIDO, Toshiro

3PA-175 Papan-catalyzed synthesis of *N*-protected dipeptide methyl esters (Univ. of Tokushima) KOMIZO, Yoshiyuki; KAWANO, Takahiro; FURUKAWA, Mayumi; KAWASHIRO, Katsuhiro

3PA-176 Asymmetric reduction of ketone by using engineered mutant of a *Synechocystis* sp.PCC6803 (Takemura Laboratory) UMENO, Nobuaki; TAKEMURA, Tesuo; AKIYAMA, Kaori; TAMAI, Yukiko; YAMAHIRA, Shinya; OHTA, Hisataka; NAKAMURA, Kaoru

3PA-177 α -Chymotrypsin-catalyzed synthesis of *N*-protected dipeptide methyl esters. (Univ. of Tokushima) KAWANO, Takahiro; KOMIZO, Yoshiyuki; KANBE, Azusa; KAWASHIRO, Katsuhiro

3PA-178 Chemoenzymatic preparation of optically active 2,6-dihydroxy-triptycene (Department of chemistry, Tokyo Univ. of Science) ENA, Toshihiko; TAKEMURA, Tetuo; MAZAKI, Yasuhiro; YAMAMOTO, Gaku

Sunday, March 29, AM

(12 : 30~14 : 00)

Physical Organic Chemistry -Structures and Properties-

Molecular structure, Properties

3PB-001 Rotational Barriers of amide bond and CH / π Interactions of *N*-*tert*-Butoxycarbonyl-4-phenyltetrahydroisoquinoline and its Analogs (MEXT, Yokohama Nat'l. Univ.) SUEZAWA, Hiroko; ASAMI, Masatoshi; YUZURI, Tomoaki

3PB-002 ³⁵Cl NQR spectra and antimicrobial activity of dicarboximide fungicides (Univ. of Hiroshima) TOMIZAWA, Shigekiyo; NAGAO, Yoshitaka

3PB-003 Syntheses and Electronic Properties of the Charge-transfer Salts Based on 1,3,6,8-Tetrakis(alkylthio)pyrene (Osaka City Univ., Graduate School of Science) TAKEDA, Takuma; KURATSU, Masato; SUZUKI, Shuichi; KOZAKI, Masatoshi; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; OKADA, Keiji

3PB-004 Transistor Characteristics of Chalcogenophene-fused TTFs (Graduated School of Engineering, Hiroshima Univ.) DOI, Iori; MIYAZAKI, Eigo; TAKIMIYA, Kazuo

3PB-005 Synthesis and Properties of Star-shaped Pyrrole-fused Tetrathiafulvalene Derivatives (Tokyo Metropolitan Univ.) YOSHIDA, Naofumi; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko

3PB-006 Synthesis and Property of Allenes with Tetrathiafulvalenes (Graduate School of Science, Kitasato Univ.) SONE, Yasuto; HASEGAWA, Masashi; MAZAKI, Yasuhiro

3PB-007 Synthesis and properties of new D-A molecular system possessing TTF moiety (Graduate School of Science and Engineering, Ehime Univ.) NAKAMURA, Kenichi; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yohji

3PB-008 Syntheses and properties of extended TTF systems with acceptor unit. (Graduate school of science and Engineering, Ehime Univ.) ITO, Tetsuya; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yohji

3PB-009 Synthesis and Properties of Photochromic Diarylethene-TTF Derivatives (Tokyo Metropolitan Univ.) HONNA, Yohei; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko

3PB-010 Synthesis and Properties of π -Expanded Cyclic Oligothiophenes Having Eight Thiophene Rings (Tokyo Metropolitan Univ.) TABATA, Chika; TANAKA, Keita; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko

3PB-011 Synthesis of an isothiuronium-pendant polythiophene (Tokyo Metropolitan Univ.) NARITA, Masanori; MINAMI, Tsuyoshi; KUBO, Yuji

3PB-012 Synthesis and Reactions of Tri(2-thienyl)arylsilane Derivatives (Graduate School of Science, Osaka Univ.) ADACHI, Kazuhiko; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi

3PB-013 Tetrahedral Oligothiophenes; Their Synthesis, Structure and Optoelectronic Properties (Graduate School of Science, Osaka Univ.) KUGO, Sota; MATSUMOTO, Kouzou; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

3PB-014 Properties of cationic species of 3,4-Dioxythiophene Oligomers with Solubilizing Substituents (Tokyo Metropolitan Univ.) LIN, Chuanwen; NISHINAGA, Tohru; ENDO, Takanori; TAKASE, Masayoshi; IYODA, Masahiko

3PB-015 Synthesis of Stabilized Organic Electrochromic Systems Utilizing Azulene-Fused Structures (Hiroaki Univ.) OSE, Shugo; TAHATA, Shota; ITO, Shunji; KAWAKAMI, Jun

3PB-016 Synthesis of donor-acceptor compounds having a pyridine ring and application to dye sensitized solar cells. (Tokyo Institute of technology) MASUKO, Tatuya; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro

3PB-017 Molecular design and electronic properties of new π -acceptor molecules with the acenaphthene framework, DCNA (Osaka Electro-Communication Univ.) KAMADA, Yoshihiro; AONUMA, Shuji

3PB-018 Synthesis and properties dihydrothiophene-extended TTP derivatives (Univ. of Japan Chemical; Japan Chemical Co.Ltd) HIBARA, Yasuhiro; SHIRAHATA, Takasi; MIYAMOTO, Hisakazu; MISAKI, Youji

3PB-019 Synthesis and Physical Properties of New Thienoquinoid Compound (Hiroshima Univ.) TAKEDA, Kyoko; MIYAZAKI, Eigo; TAKIMIYA, Kazuo

3PB-020 Structures and Properties of Reaction Products Prepared from TEMPO Derivatives with Some Acceptors (Univ. of Hyogo) SUZUKI, Hideto; AKUTSU, Hiroki; YAMADA, Junichi; NAKATSUJI, Shinichi

3PB-021 Preparation and Properties of Anthraquinone Derivatives with Stable Radical and Alkoxy Substituent (Univ. of Hyogo) SHIBATA, Yuuki; AKUTSU, Hiroki; YAMADA, Junichi; NAKATSUJI, Shinichi

3PB-022 Generality of Redox-Based Spin Diversity: Generation and Electronic-Spin Structures of Radical Dianions in Galvinoxyl Systems (Osaka City Univ.; Osaka Univ.) NISHIDA, Shinsuke; MORITA, Yasushi; SATO, Kazunobu; TAKUI, Takeji

3PB-023 Synthesis and electronic properties of 2,6-bis(3-ethyl-3-pentyl)phenoxyl-analogous stable radicals (Graduate School of Sci. & Tech., Niigata Univ.; N-Chem, Niigata Univ.; CTR, Niigata Univ.; VBL, Niigata Univ.) SAITO, Toshihiro; NAMIKOSHI, Tsuyoshi; MARWANTA, Eddy; TERAGUCHI, Masahiro; AOKI, Toshiki; KANEKO, Takashi

3PB-024 Synthesis and Photoexcited States of Aza-Diphenylpolyene (Yokohama National Univ.) KASAMATSU, Syogo; KIKUCHI, Azusa; YAGI, Mikio

3PB-025 Synthesis and Physical Properties of Extended π -Conjugated Delocalized Compounds Containing Tetraazafulvalene (Yokohama National Univ.) AKUTSU, Ayumi; KIKUCHI, Azusa; YAGI, Mikio; ABE, Jiro

3PB-026 Synthesis and Electronic Structures of Imidazolyl Radical Derivative (Yokohama National Univ.) WAKIHATA, Yukihiro; KIKUCHI, Azusa; YAGI, Mikio

3PB-027 Synthesis and properties of oxazole substituted triarylamines (Faculty of Chemistry, Material and Bioengineering, Kansai Univ.) MANABE, Mitsuru; YANO, Masafumi; TATSUMI, Masakazu; KASHIWAGI, Yukiyasu; NAKAMOTO, Masami; OYAMA, Munetaka; OHKUBO, Kei; FUKUZUMI, Shunichi; SATO, Kazunobu; TAKUI, Takeji

3PB-028 Organic High-Spin Systems; Synthesis, Electrochemical and Spectroscopic Studies of π -Extended Tetraaryl *m*-Phenylenediamines (Faculty of Chemistry, Material and Bioengineering Kansai Univ.) OKINO, Yorichika; YANO, Masafumi; ICHIHARA, Yuji; TATSUMI, Masakazu; OYAMA, Munetaka; SATO, Kazunobu; TAKUI, Takeji

3PB-029 Synthesis and Properties of All-Organic Paramagnetic Ionic Liquid Crystals (Kyoto Univ.) OKI, Shigeaki; UCHIDA, Yoshiaki; SUZUKI, Katsuaki; SAKAGUCHI, Tatsunori; TAMURA, Rui; YAMAUCHI, Jun

p conjugate systems

3PB-030 Studies on the Synthesis of Tetrakis(3- and 4-pyridyl)methane (Graduate School of Science, Osaka Univ.) ONISHI, Koji; MATSUMOTO, Kouzou; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

3PB-031 Facile Synthesis of Dianthrylethylene Derivatives by Double Elimination Reaction and Their Spectroscopic Properties (Okayama Univ. of Science) AZAMI, Rie; TOYOTA, Shinji

3PB-032 Synthetic study on crowded triarylphosphine-bis(trifluoromethylphenyl)benzoquinone oligomer (Department of Chemistry, Graduate School of Science, Tohoku Univ.) SASAKI, Shigeru; IIDA, Naoto; NAKAMURA, Kazuhiro; OGAWA, Kazunobu; MORITA, Noboru

3PB-033 Synthesis, Structure, and Properties of Crowded Triarylphosphines Connected to Borane (Department of Chemistry, Graduate School of Science, Tohoku Univ.) YOKOYAMA, Tatsuya; SASAKI, Shigeru; MORITA, Noboru

3PB-034 Synthesis and Functions of 1,2,3-Triazole Derivatives (Gunma Univ.) ONODA, Wataru; INOKUMA, Seiichi; NAKAMURA, Yosuke; MATUDA, Takehisa; NISHIMURA, Jun

3PB-035 Preparation, Crystal Structures, and Spectroscopic, Chemical, and Electrochemical Properties of three New Butadiene Derivatives with a 3-Guaiazulenyl Group (Kinki Univ., Faculty of Science and Engineering, Organic Materials Chemistry Laboratory) MATSUOKA, Hiroto; TAKEKUMA, Shin-ichi; TAKEKUMA, Hideko

3PB-036 Preparation, Crystal Structures, and Spectroscopic, Chemical, and Electrochemical Properties of Guaiazulenylethylene Derivatives with a Furyl and Thienyl Group. (Kinki Univ, Faculty of Science and Engineering,

- Organic Materials Laboratory) OBATA, Hironori; TAKEKUMA, Shin-ichi; TAKEKUMA, Hideko
- 3PB-037** Synthesis and property of weakly coupled bisphenalenyli biradical via an acetylene linker (Graduate School of Science, Osaka Univ.) AOKA, Mitsuya; SHIMIZU, Akihiro; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 3PB-038** Synthesis of Synthesis of Chiral Imidazolium Oligomer (Faculty of Engineering Yamagata Univ.) MATSUMOTO, Kouki; KATAGIRI, Hiroshi; OHBA, Yoshihiro
- 3PB-039** Crystalline Polymorphism of 1-Isopropyl-3-methylimidazolium Bromide (Tokushima Bunri Univ.; Chiba Univ.) KAWAHATA, Masatoshi; ENDO, Takatsugu; SEKI, Hiroko; NISHIKAWA, Keiko; YAMAGUCHI, Kentaro
- 3PB-040** molecular design of pi-conjugated macrocycles using McMurry coupling (Tokushima Bunri Univ.) TOHAYA, Taichi; KATAGIRI, Kosuke; MASU, Hyuma; TOMINAGA, Masahide; AZUMAYA, Isao
- 3PB-041** Synthesis and solid-state optical properties of anthracenes having alkyl groups at 1, 4, 5, and 8 positions (Univ. of Hyogo; Osaka Pref. Univ.) TSUKUDA, Hideki; KITAMURA, Chitoshi; KAWASE, Takeshi; KOBAYASHI, Takashi; NAITO, Hiroyoshi
- 3PB-042** Preparation of Anthracenes with Substituents at 1 and 5 Positions (Univ. of Hyogo) INOUE, Naoto; KITAMURA, Chitoshi; KAWASE, Takeshi
- 3PB-043** [4+2] Cyclodimerization of an Ethynylanthracene Derivative during Crystallization (Graduate School of Materials Science, Nara Institute of Science and Technology, NAIST) OGAWA, Takuya; YUASA, Junpei; KAWAI, Tsuyoshi
- 3PB-044** Synthesis of π -Conjugated Aromatics with Anthryl-acetylenic Unit (Shizuoka Univ.; JST PRESTO) MINAGAWA, Yu; KOBAYASHI, Kenji
- 3PB-045** Tetracenes having two alkyl groups at 1,7 and 1,10 positions (Univ. of Hyogo; Osaka Pref. Univ.) KANO, Hiroyuki; TSUKUDA, Hideki; KITAMURA, Chitoshi; KAWASE, Takeshi; KOBAYASHI, Takashi; NAITO, Hiroyoshi
- 3PB-046** Synthesis and properties of tetracenes having a substituent at 2-positions (Univ. of Hyogo) TAKA, Naohiro; KITAMURA, Chitoshi; KAWASE, Takeshi
- 3PB-047** Charge-Transfer Reactions of Arylbutatrienes: Generation of Stable Cyclic Compounds Containing sp-Hybridized Nitrogen (Univ. of Tokushima) HIDA, Kazuo; KANAOKA, Hiroki; IWASAWA, Tetsuo; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 3PB-048** Preparation and properties of bis(phenazasiline) derivatives. (Nagoya Municipal Industrial Research Institute) HAYASHI, Hideki
- 3PB-049** Reaction between carbazole-amines and acyl halides (Osaka Kyoiku Univ.) IMAFUKU, Risa; TANI, Keita; HORI, Kazushige; TOHDA, Yasuo; BENTEN, Hiroaki; OHKITA, Hideo; ITO, Shinzaburo; YAMAMOTO, Masahide
- 3PB-050** Synthesis and Properties of Dumbbell-Shaped Carbazole Dendrimers Containing Diphenylacetylene Core (Nagoya Institute of Technology) HORI, Kosuke; OHKITA, Masakazu
- 3PB-051** Synthesis and properties of carbazolophane derivatives having peryleneimide (Osaka Kyoiku Univ.) KIMURA, Yuichiro; TANI, Keita; HORI, Kazushige; TOHDA, Yasuo; BENTEN, Hiroaki; OHKITA, Hideo; ITO, Shinzaburo; YAMAMOTO, Masahide
- 3PB-052[†]** Synthetic Research of Donor-Acceptor type Multilayered[3.3]Paracyclophanes (IMCE) WATANABE, Motonori; SHIBAHARA, Masahiko; GOTO, Kenta; SHINMYOZU, Teruo
- 3PB-053** Synthesis, structure and reactivity of polymethyl substituted [2.2] cyclophanes (Faculty of Science and Engineering, Saga Univ.) HIDA, Katsuhiko; SHIMIZU, Tomoe; MAEDA, Takayuki; YAMATO, Takehiko
- 3PB-054** Preparation and properties of cyclophanes consisting of the fluorene units. (Department of Applied Chemistry, Kyushu Institute of Technology) INOUE, Masahito; MORIGUCHI, Tetsuji; ARAKI, Kouji; TSUGE, Akihiko
- 3PB-055** Preparation of the syn and anti cyclophanes consisting of the oligothiophene units and their properties. (Department of Applied Chemistry, Kyushu Institute of Technology, Department of Chemistry and Biochemistry, Gunma Univ.) HARA, Takeshi; MORIGUCHI, Tetsuji; YAMAJI, Minoru; ARAKI, Kouji; TSUGE, Akihiko
- 3PB-056** Synthesis and properties of 8-cyanoheptafulvene substituted bulky group at the 8-position (Graduate school of Science and Engineering, Univ. of Toyama) KANO, Taihei; OFUSA, Shou; HORINO, Yoshikazu; MIYATAKE, Ryuta; ODA, Mitsunori; KURODA, Shigeyasu
- 3PB-057** Molecular Arrangement of Butadiyne-Bridged Dehydrobenzo[12]annulenes and their Reactivities at the Liquid-Solid Interface (Graduate School of Engineering Science, Osaka Univ., Univ. of Oregon) INUKAI, Koji; HARA, Noritaka; TAHARA, Kazukuni; JOHNSON II, Charles, A.; HALEY, Michael, M.; TOBE, Yoshito
- 3PB-058** Syntheses and Self-Assemblies of Functionalized Hexakis(phenylethynyl)dehydrobenzo[12]annulenes (Graduate School of Engineering Science, Osaka Univ.) YAMAMOTO, Yuki; KOZUMA, Hiroyoshi; ARIKUMA, Yoko; TAHARA, Kazukuni; TOBE, Yoshito
- 3PB-059[†]** The synthesis of tropono bridged [11]annulene skeleton (Faculty of engineering, Univ. of Toyama) ZHANG, Yanmei; MATSUMOTO, Naoko; HORINO, Yoshikazu; ODA, Mitsunori; KURODA, Shigeyasu
- 3PB-060** Preparation of novel annulenes incorporating ynamine moieties (Wakayama Univ., Faculty of Systems Engineering) KIZU, Kengo; OKUNO, Tsunehisa
- 3PB-061** Synthesis and properties of di(1,6-methano[10]annuleno)[3,4-a:3,4-c]cyclopentadienone. (Univ. of Toyama) MIYAMOTO, Daisuke; MATSUMOTO, Naoko; HORINO, Yosikazu; ODA, Mitsunori; KURODA, Shigeyasu
- 3PB-062** Influence of Core-Shape and Substitution Pattern of Alkyl Chains of pi-Conjugated Molecules on Formation of Two-Dimensional Molecular Networks (Graduate School of Engineering Science, Osaka Univ., Univ. of Oregon) MATSUSHITA, Minoru; KATAYAMA, Naohiro; TAHARA, Kazukuni; JOHNSON II, Charles, A.; HALEY, Michael, M.; TOBE, Yoshito
- 3PB-063** Synthesis and Properties of 2-amino -5-pyren-1-ylethynyltropone (Yokohama National Univ.) OTANI, Hiroyuki; KUDOU, Rena
- 3PB-064** Synthesis and Properties of 3-[5-(4-Hydroxyphenyl)thiophen-2-yl]-8,8-dicyanoheptafulvene (Yokohama National Univ.) OTANI, Hiroyuki; MINAMISHIMA, Takuya
- 3PB-065** Synthesis of Bis(2-aminotropon-5-yl)butadiynes and their Fluorescence Spectra (Yokohama National Univ.) OTANI, Hiroyuki; KOIKE, Mamoru; YAGI, Mikio
- 3PB-066** Creation of Novel Photochromic Molecules having Bridged Dithienylethene Units (Osaka Univ.) UMEDA, Rui; KATO, Tomoki; FUKUDA, Hiroshi; TOBE, Yoshito
- 3PB-067** Synthesis and photochemical property of new diethynylethene derivatives with triarylamine moieties (School of science, the Univ. of Tokyo) HAYASHI, Mikihiro; SAKAMOTO, Ryota; TOSHIMITSU, Fumiyouki; KUME, Shoko; NISHIHARA, Hiroshi
- 3PB-068** Design and Synthesis of a Series of Benzofuro[2,3-c]oxazolocarbazole-type Fluorescent Dyes, and their Mechanofluorochromic Properties (Hiroshima Univ.) OYAMA, Yousuke; ITOU, Genta; KAGAWA, Yusuke; FUKUOKA, Hiroshi; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka
- 3PB-069** Solvatochromic study of novel pyridinium betaine derivatives with two characteristic charge transfer absorption bands. (Aoyama Gakuin Univ.) OOKAWA, Kazuhiro; KIMOTO, Atsushi; ABE, Jiro
- 3PB-070** Synthesis and Properties of Novel Cyanine Dye Containing Bile Acid Arms (Faculty of Engineering Yamagata Univ.) KAWASUMI, Hiroshi; KATAGIRI, Hiroshi; OHBA, Yoshihiro
- 3PB-071** Synthesis and photophysical properties of 4,5,9,10-tetrakis(arylethynyl)pyrenes (Faculty of Science and Engineering, Saga Univ.) HU, Jianyong; PAUDEL, Arjun; YAMATO, Takehiko
- 3PB-072** Efficient ESIP T Emission of Imidazophenanthridine Derivatives in Solid State (Institute of Industrial Science, Univ. of Tokyo; Shibaura Institute of Technology) OHKAWA, Tatsuya; MUTAI, Toshiki; TOMODA, Haruhiko; ARAKI, Koji
- 3PB-073** Synthesis and Properties of Aluminum Complex of N₂O₄-Type Dipyrin (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) DAICHO, Manami; SAKAMOTO, Naoya; IKEDA, Chusaku; NABESHIMA, Tatsuya
- 3PB-074** Influence of terminal substituents of noncyclic amide boron complexes on the fluorescence behaviors (Utsunomiya Univ., AIST) KUROSAWA, Atsuo; HIRATANI, Kazuhisa; OBA, Toru; KANESATO, Masatoshi
- 3PB-075** Luminescence Behavior of Carbazole Derivatives Having Basic Nitrogen Units in the Presence of Rare-Earth Metal Ions (Graduate School of Materials Science, Nara Institute of Science and Technology, NAIST) INUKAI, Norie; YUASA, Junpei; KAWAI, Tsuyoshi
- 3PB-076** The Preparation and Characterization of Ferulic Acid Derivatives (Industrial Technology Center of Wakayama Prefecture) MIYAKE, Yasuhito; HOSODA, Asao; MORI, Hajime; TANAKA, Yoshie; OSAKI, Shusuke; KOBATA, Toshitsugu; TANIGUCHI, Hisaji
- 3PB-077** Self-assembled Benzothiadiazole Fluorescent Dyes (Kurume National College of Technology) ESAKI, Naoyuki; ISHII, Tsutomu
- 3PB-078** Synthesis of fluoranthene-fused boron-dipyrromethene dyes and their optical properties in the VIS-NIR region (Ehime university) TOMIMORI, Yuya; UNO, Hidemitsu; ONO, Noboru; YAMADA, Hiroko; OKUJIMA, Tetsuo
- 3PB-079** Optical Properties of 1,1'-Phenylene-2,2'-bisindole Derivatives: Substituent Effects at 6 and 6' Positions (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; QU, Sheng; AKAZOME, Motohiro; OGURA, Katsuyuki
- 3PB-080** Synthesis and Optical Properties of 2,2'-Bisimidazole and Bisbenzimidazole Derivatives Bearing Aryl Group on Nitrogen Atom (Graduate School of Engineering, Chiba Univ.) MATSUMOTO, Shoji; ZHAO, Yu; AKAZOME, Motohiro; OGURA, Katsuyuki
- 3PB-081** Effects of Linkers on Electronic Spectra of 1,8-Diethynylanthracene Derivatives (Okayama Univ. of Science) KASAHARA, Kyohei; ISHIKAWA, Takeharu; TOYOTA, Shinji
- 3PB-082** Preparation of [60]Fullerene-Based Interlocked Compounds and Application to Molecular Switches (Gunma Univ.) NAKAMURA, Yosuke; SAKAMOTO, Chika; SASE, Yasutaka; MUROYA, Naoki; NISHIMURA, Jun
- 3PB-083** Synthesis and Photophysical Properties of Oligocarbazole-[60]Fullerene Adducts Bearing Various Spacer Units (Gunma Univ.) NAKAMURA, Yosuke; KINOSHITA, Keisuke; KOBAYASHI, Kounosuke; KONNO, Takashi; NISHIMURA, Jun
- 3PB-084** Reaction of Endohedral Metallofullerene La₂@C₈₀ with silylcyclo-

- propane (Center for Tsukuba Advanced Research Alliance) MINOWA, Mari; YAMADA, Michio; KAKO, Masahiro; TSUCHIYA, Takahiro; OINUMA, Midori; AKASAKA, Takeshi
- 3PB-085** The Dynamic Structure and Helicity Induction by Complexation of Octapyrin (1.0.1.0.1.0.1.0)s (Kobe Univ.) MORI, Megumi; SETSUNE, Jun-ichiro
- 3PB-086** Synthesis and Properties of Octaethylporphyrin Derivatives Conjugated with Carotenoid Component (Graduate School of Science and Engineering; Univ. of Toyama) TSUCHIYA, Takashi; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 3PB-087** Synthesis of the Amphiphilic Porphyrin Wires and Self-assembly of Them on Substrate Surfaces (Inst. for Molecular Science) KAWAO, Masahiro; OGAWA, Takuji; NAGATA, Toshi
- 3PB-088** Syntheses and photooxygenation of azafulleroids (Department of Chemistry, Faculty of Science, Kanagawa Univ.) HACHIYA, Houjin; SHIMURA, Keita; KABE, Yoshio
- 3PB-089[#]** Size-Controlled Porphyrin Nanoparticles for Structural and Photo-physical Studies (JAIST; PRESTO, JST; IMRAM, Tohoku Univ.) SANDANAYAKA, Atula S.D.; ARAKI, Yasuyuki; WADA, Takehiko; HASOBE, Taku
- 3PB-090** Preparation of amphiphilic porphyrin dendrimers with rigid backbones (Osaka City Univ., Department of Chemistry) YAGI, Sadayuki; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji
- 3PB-091** Synthesis and properties of acetylene-linked N-confused porphyrin dimer (Graduate School of Engineering, Kyushu Univ.) TAKAYAMA, Takumi; TOGANOH, Motoki; FURUTA, Hiroyuki
- 3PB-092** Synthesis and Properties of Confused and Mismatched Corrole (Graduate School of Engineering, Kyushu Univ.) FUJINO, Keitaro; TOGANOH, Motoki; FURUTA, Hiroyuki
- 3PB-093** Tetrathiaporphyrin Dications: Synthesis and Properties of the Porphyrin Baring Four Sulfur Atoms (Graduate School of Sciences, Kyushu Univ.; Institute for Materials Chemistry and Engineering (IMCE), Kyushu Univ.) KON-NO, Masaru; SHINMYOZU, Teruo
- 3PB-094** Photo- and Electro-Properties of meso-Diarylamino porphyrins for Molecular Quantum Cellular Automata (Tokyo Univ. of Science) SASAKI, Taishiro; SAKAMOTO, Ryota; HONDA, Norikazu; YAMAMURA, Takeshi
- 3PB-095** Synthesis and Properties of Novel TTF Donors introduced Porphyrin Skeleton (Graduate School of Science and Engineering, Ehime Univ.) YAMANAKA, Keisuke; OCHI, Yuki; MORITA, Toshiyuki; SHIRAHATA, Takashi; MIYAMOTO, Hisakazu; MISAKI, Yoichi
- 3PB-096** Construction of cleft-type porphyrins based on the cyclophane structure and their properties. (Department of Applied Chemistry, Kyushu Institute of Technology) NISHIMURA, Takuto; MORIGUCHI, Tetsuji; ARAKI, Kouji; TSUGE, Akihiko
- 3PB-097** Preparation of bisporphyrin host molecules based on the calix[4]arene and their inclusion ability. (Department of Applied Chemistry, Kyushu Institute of Technology) KUNIMUNE, Toshiyuki; MORIGUCHI, Tetsuji; ARAKI, Kouji; TSUGE, Akihiko
- 3PB-098** Preparation and properties of a covalent assembly of snowflake shaped dendrimers (Graduate School of Science, Osaka City Univ.) MORITA, Shirou; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji
- 3PB-099** Syntheses of chalcogenoamide substituted molecular wires (Grad. School of Science and Engineering, Tokyo Metropolitan Univ.) YAMASHITA, Ken-ichi; TAGUCHI, Masateru; ASANO, Motoko; SUGIURA, Ken-ichi
- 3PB-100** Synthesis and properties of b-alkyl substituted hexaphyrin (1.1.1.1.1.1) (Graduate School of Pharmaceutical Sciences, Chiba Univ.) SUZUKI, Masaaki; HOSHINO, Tyuji; NEYA, Saburo
- 3PB-101** Synthesis and function of rigid oligomers incorporated cerium(IV) bis(porphyrinato) double-decker complexes as movable components (Graduate School of Engineering, Kyushu Univ.) TONE, Yusuke; IKEDA, Tomohiro; WAKABAYASHI, Rie; TAKEUCHI, Masayuki; SADA, Kazuki
- 3PB-102** Synthesis and Axial Ligand Substitution Reactions of Coplanar Oxotitanium(IV) Phthalocyanine Dimer (RIKEN) MURANAKA, Atsuya; IWASAKI, Takanobu; YOSHIDA, Kengo; UCHIYAMA, Masanobu
- 3PB-103[†]** Synthesis and properties of azulene-fused tribenzotetraazaporphyrins (RIKEN) MURANAKA, Atsuya; YONEHARA, Mitsuhiro; HIRAYAMA, Machiko; HASHIMOTO, Yuichi; UCHIYAMA, Masanobu
- system (Kinki Univ.; JST; Univ. of Tokyo) KAMON, Kensaku; SUGASAKI, Hiroshi; IMAI, Yoshitane; SATO, Tomohiro; KURODA, Reiko; MATSUBARA, Yoshio
- 3PB-109** Circularly polarized luminescence (CPL) property of chiral supramolecular organic fluorophore composed of sulfonic acid and amine molecules (Kinki Univ.; NAIST; JST; Univ. of Tokyo) MURATA, Katuzo; IMAI, Yoshitane; NAKANO, Yoko; HARADA, Takunori; SATO, Tomohiro; FUJIKI, Michiya; KURODA, Reiko; MATSUBARA, Yoshio
- 3PB-110** Thin film preparation and molecular interaction of 4-(4'-stearoyloxyphenyl)ethynylpyridine (Tokyo Denki Univ.) KAGA, Takahiro; FUJIMOTO, Akira
- 3PB-111** Multicomponent Assembly of amidinium-carboxylate salt units(2). Substitution Effects of trimesic acid derivatives. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; FUJITA, Tomoki; FUJIKI, Katsuhiko; HARADA, Toshiro
- 3PB-112** Synthesis and Multicomponent Assembly of Diamidine Compound having Biphenylene Unit. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; IIZUKA, Wataru; NAKAMURA, Hajime; HARADA, Toshiro
- 3PB-113** Synthesis and Self-Assembly of Aromatic Compounds with Divergent Hydrogen-Bonding Groups (Shizuoka Univ. ; JST PRESTO ; Bruker axs) OHNUMA, Daiki; NISHIMURA, Naoki; YOZA, Kenji; KOBAYASHI, Kenji
- 3PB-114** Hydrogen-bonded Self-assemblies of Melamines and Cyanurates Controlled by Perylene Bisimide Dyes (Grad. Sch. of Eng., Chiba Univ.; PRESTO, JST) YAGAI, Shiki; SEKI, Tomohiro; KARATSU, Takashi; KITAMURA, Akihiko
- 3PB-115** Connection of two organic-pillared cages by aromatic guest molecules (Grad. School of Engineering, The Univ. of Tokyo; CREST) TSUTSUMI, Hayato; MURASE, Takashi; SAWADA, Tomohisa; FUJITA, Makoto
- 3PB-116** Synthesis of novel chiral cage compound (NIMS; IMS) SHOMURA, Ryo; HIGUCHI, Masayoshi; HIGASHIBAYASHI, Shuhei; SAKURAI, Hidehiro
- 3PB-117** Anion-induced chirality of quadruple helical cyclen-calcium complex (Graduate School of Science, Osaka City Univ.) MISAKI, Hitomi; MIYAKE, Hiroyuki; SHINODA, Satoshi; TSUKUBE, Hiroshi
- 3PB-118** Enantioselective Fluorescence Quenching of *N*-Acyl-L-naphthylalanylphenylglycinamides and Related Dipeptides by Chiral Amines (Kanagawa Univ.) HAYAKAWA, Akinori; ISHIKAWA, Tomoe; IGARASHI, Tetsuhiro; SAKURAI, Tadimitsu
- 3PB-119[#]** Thermodynamic and kinetic stabilities of complementary double helices utilizing amidinium-carboxylate salt bridges (Graduate School of Engineering, Nagoya Univ.; Yashima Super-structured Helix Project, ERATO, JST) WU, Zong-quan; MAEDA, Takeshi; FURUSHO, Yoshio; YASHIMA, Eiji
- 3PB-120** Synthesis and Helical Self-Organization of Alternating Pyridine-Pyrimidine Strands Possessing Peripheral Long Alkyl Chains (Nagoya Institute of Technology) TAKAMI, Kazushi; OHKITA, Masakazu
- 3PB-121** Self-Assembly of [2 x 2] Grid-Type Multinuclear Metal Complexes Functionalized with Long Alkyl Chains (Nagoya Institute of Technology) OHKITA, Masakazu; LEHN, Jean-Marie
- 3PB-122** Amplification of chirality by the chiral silver-vororous molecules bearing biphenyl groups as side-arms (Department of Chemistry, Faculty of Science, Toho Univ. Research Center for Materials with Integrated Properties, Toho Univ.) OKAZAKI, Chizuko; HOSOI, Yasuhiro; KUWAHARA, Syunsuke; HABATA, Yoichi
- 3PB-123** Synthesis of chiral tetra-armed cyclen bearing 2-pyridylmethyl groups as side-arms and chirality changes of metal complexes (Department of Chemistry, Faculty of Science, Toho Univ. Research Center for Materials with Integrated Properties, Toho Univ.) KIZAKI, Juli; HOSOI, Yasuhiro; KUWAHARA, Syunsuke; HABATA, Yoichi
- 3PB-124** Synthesis of chiral bidentate-ligands having an alpha-pyridylmethyl amino group and chirality changes by their metal complexes (Department of Chemistry, Faculty of Science & Reserch Center for Materials with Integrated Properties, Toho Univ.) HABATA, Yoichi; CHAMURA, Rie; IKEDA, Mari; KUWAHARA, Shunsuke
- 3PB-125** Synthesis of tert-amine having two carboxyphenyl groups as binding sites and complexing properties towards metal cations (Department of Chemistry, Faculty of Science and Reserch Center for Materials with Integrated Properties, Toho Univ.) KASUMI, Yuki; KUWAHARA, Shunsuke; HABATA, Yoichi
- 3PB-126** Chiral Recognition of Carboxylic Acids by Optically Active Macrocyclic Amine Host (Kansai Univ.) FUKUDA, Noriaki; TANAKA, Koichi
- 3PB-127** Structures and properties of macrocyclic hosts derived from salicylic acid. (Kansai Univ.) TSUYUHARA, Shinya; TANAKA, Koichi; CAIRA, Mino
- 3PB-128** Creation of CT-complex composed of tetrahydroxybinaphthyl with channel-like cavity (Kinki Univ.; JST; Univ. of Tokyo) KAMON, Kensaku; KISE, Yuko; KINUTA, Takafumi; IMAI, Yoshitane; SATO, Tomohiro; KURODA, Reiko; MATSUBARA, Yoshio
- 3PB-129** Creation of CT-host system composed of biarylalcohol and methylbenzoquinone derivatives (Kinki Univ.; JST; Univ. of Tokyo) KAMON, Kensaku; KINUTA, Takafumi; IMAI, Yoshitane; SATO, Tomohiro; KURODA, Reiko; MATSUBARA, Yoshio

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- 3PB-104** The synthesis of polycatenanes using *N-N* bond cleavage (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) MORI, Haruki; KIHARA, Nobuhiro
- 3PB-105** Synthetic Studies Directed toward Polycatenane using Diels-Alder Reaction (Nihon Univ.) HIRABAYASHI, Kenichi; HAGIWARA, Toshiki; HOSHI, Toru; SAWAGUCHI, Takashi
- 3PB-106** Design and Preparation of Catenanes Having a Novel Chirality (Nihon Univ.) MORI, Atsuyoshi; HAGIWARA, Toshiki; HOSHI, Toru; SAWAGUCHI, Takashi
- 3PB-107** Synthesis of Pseudorataxanes Threading Aromatic Amines as an Axle (Osaka Institute of Technology) MURAOKA, Masahiro; IRIE, Hiromitsu; NAKATSUJI, Yoichi
- 3PB-108** Creation of π -conjugated chiral 2-helical columnar fluorescent host

- 3PB-130** Synthesis of C_{2v} symmetrical cavitand (Shizuoka Univ.) KAWAHARADA, Masashi; TOYODA, Naoaki; KOBAYASHI, Kenji; YAMANAKA, Masamichi
- 3PB-131** Synthesis of Molecular Clefs Connecting Terpyridine Pt(II) Complex to Spacer of 3,3'-m-Terphenylene (Department of Chemistry, Univ. of Tsukuba) HASEGAWA, Yuki; TROKOWSKI, Robert; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 3PB-132** Synthesis of Noncyclic Compounds having pyridyl terminal groups and hydroxyl groups (Utsunomiya Univ.) OTOMO, Hiroaki; HIRATANI, Kazuhisa; OBA, Toru
- 3PB-133** Electrochemical molecular recognition by using ferrocene derivatives (Kyushu Institute of Technology) KOYANAGI, Yuya; TANIGUCHI, Shintaro; TOYOSE, Yasushi; TAKASE, Satoko; SHIMIZU, Youichi; TSUGE, Akihiko; ARAKI, Koji
- 3PB-134** Molecular recognition using nucleobase bearing tripodal molecule (Shizuoka Univ.) ADACHI, Hirofumi; YAMANAKA, Masamichi
- 3PB-135** Synthesis and Cooperative Guest Recognition of Podands Bearing Catechol and Bipyridine Moieties (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) KIJIMA, Shih; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 3PB-136** Synthesis and Properties of Redox-responsive Molecular Tweezers Containing a 9,10-Bis(1,3-dithiole-2-ylidene)-9,10-dihydroanthracene Unit (3) (Shinshu Univ.) OHTA, Akira; TAMAMIZU, Takuya; TAKEUCHI, Nagisa; FUJIMORI, Kunihide
- 3PB-137** Crystal Structures of PET Fluoroionophores (Health Sci. Univ. Hokkaido, Kanagawa Univ.) KUBO, Kanji; SAKURAI, Tadimitsu; TAKAHASHI, Hajime; TEKECHI, Haruko
- 3PB-138** Synthesis of tetra-armed cyclens bearing a bridged-aromatic side-arm and two aromatic rings, and their complexing properties towards silver ion (Department of Chemistry, Faculty of Science & Reserch Center for Materials with Integrated Properties, Toho Univ.) HABATA, Yoichi; ISHII, Yuta; OKAZAKI, Chizuko; KUWAHARA, Shunsuke
- 3PB-139** Reversible complexation of silver complex with tetra-armed cyclen (Department of Chemistry, Faculty of Science & Research Center for Materials with Integrated Properties, Toho Univ.) TSURUOKA, Yumiko; OYAMA, Yosuke; ABE, Tomoko; HABATA, Yoichi
- 3PB-140** Synthesis of tetra-armed cyclens which form the secondary-recognition site by two ethyleneoxy unit and complexing properties towards alkali metal cations (Department of Chemistry, Faculty of Science, Toho Univ.; Reserch Center for Materials with Integrated Properties, Toho Univ.) UCHIYAMA, Megumi; HIRAOKA, Takao; HABATA, Yoichi
- 3PB-141** Synthesis of tetra-armed cyclen bearing phenylanthracene as side-arms and the complexing property towards Ag⁺ ion (Department of chemistry, faculty of science & Reserch Center for Materials with Integrated Properties, Toho Univ.) HABATA, Yoichi; KIKUKAWA, Kaoru; TURUOKA, Yumiko; KUWAHARA, Shunsuke
- 3PB-142** Synthesis of chiral tert-amide derivatives having two biphenylpyridine groups as binding sites and amplification of chirality (Department of Chemistry, Faculty of Science, Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) OGURA, Kinuko; MATSU-URA, Aya; KUWAHARA, Shunsuke; HABATA, Yoichi
- 3PB-143** Chirality Changes by Mercury Complexes with Chiral Podands Having Two Pyridine Rings as Coordination Sites. (Department of Chemistry, Faculty of Science & Reserch Center for Materials with Integrated Properties, Toho Univ.) IKEDA, Mari; OGURA, Kinuko; KUWAHARA, Shunsuke; HABATA, Yoichi
- 3PB-144** Synthesis of Oxacalix[4]arene Amide Derivatives (Graduate School of Engineering, Tottori Univ.) AKAGI, Shuichiro; MORIKAWA, Osamu; KOBAYASHI, Kazuhiro; KONISHI, Hisatoshi
- 3PB-145** Conformational Properties of Tetranitrooxacalixarenes. The Effect of the Alkyl Groups at the Extra-annular Positions. (Graduate School of Engineering, Tottori Univ.) YASUKAWA, Yusuke; KOBAYASHI, Kazuhiro; KONISHI, Hisatoshi
- 3PB-146** Synthesis of rotaxanes with crownophane rotor and their reversible ring-size change by the treatment of Hg(OAc)₂ and NaBH₄ (Utsunomiya Univ.) IWATA, Kiyochika; HIRATANI, Kazuhisa; OBA, Toru
- 3PB-147** Application of Azacrown-substituted 2-(fluorophenyl)imidazopyridine Derivatives to Multiple Fluorescent Chemosensor (Seikei Univ.) TANAKA, Kiyoshi; TAKEYAMA, Takashi; IWATA, Satoru; KURUSHIMA, Tooru
- 3PB-148** Synthesis of novel hydroxy phosphines having oligophenylene-nethioether structure (Graduate School of Environmental Studies, Tohoku Univ.) AKAHIRA, Yuki; TANAKA, Shinya; MOROHASHI, Naoya; HATTORI, Tetsutaro
- 3PB-149** Synthesis, structural properties and metal complexations of novel homooxacalix[3]arenes (Faculty of Science and Engineering, Saga Univ.) KINOSHITA, Takashi; NI, xin long; YAMATO, Takehiko
- 3PB-150** Ion Recognition Ability of Amphiphilic Monoaza Lariat Ethers in Water (Osaka Institute of Technology) KAWAGUCHI, Tomohiro; MURAOKA, Masahiro; NAKATSUJI, Yohji
- 3PB-151** Synthesis of a Host Molecule Bearing a Phosphoryl-Substituted Binaphthyl Skeleton and Polyether Units (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) SATO, Futoshi; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 3PB-152** Synthesis and metal ion recognitions of thiacalix[4]arene derivatives having pyridylmethyl groups (Faculty of Science and Engineering, Saga Univ.) YOSHIZAWA, Akina; SHOFIUR, Rahman; YAMATO, Takehiko
- 3PB-153** Efficient Separation of Lanthanide Tris(β-diketones) with Bis(dipicolylamine)-Type Ligands (Faculty of chemistry, material and bioengineering, Kansai Univ.) TAKEMOTO, Hidehiro; YANO, Masafumi; TATSUMI, Masakazu; MIYAKE, Hiroyuki; TSUKUBE, Hiroshi
- 3PB-154** Synthesis of diphenyl sulfoxide having two pyrene units and the detection of lithium ion (Dept. of Chem.; Tokyo Med. Univ.) NISHIMURA, Yukihiro; ARAI, Sadao
- 3PB-155** Synthesis of Oligopyridine Ligand Bearing Anion Recognition Moieties (Department of Chemistry, Univ. of Tsukuba) TOGAWA, Yui; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 3PB-156[†]** Nonlinear/linear Response Switching for Anions Using Liquid Crystal Compounds (Graduate School of Kochi Univ. of Technology) WADA, Taishi; KOBIRO, Kazuya
- 3PB-157** Anion Recognition Using Triphenoxymethane Derivatives (Yamagata Univ.) SATO, Tatsunori; ITO, Kazuaki
- 3PB-158** Anion Recognition by Imidazolium Derived Azulene (Tokyo Metropolitan Univ.) MATSUSHITA, Yoshitsugu; YAMAGUCHI, Motowo; SATO, Kiyoshi
- 3PB-159** Synthesis and Properties of 2-Aminobenzimidazole Derivatives (Yamagata Univ.) OYAMA, Hayato; ITO, Kazuaki
- 3PB-160** Synthesis and Anion Allosteric Effect of Biindole Derivatives (Yamagata Univ.) KAMIMURA, Akihiro; ITO, Kazuaki
- 3PB-161** Synthesis and Peoperties of Cyclic Compounds Constructed from Indole Derivatives (Yamagata Univ.) KONDOU, Masayuki; ITO, Kazuaki
- 3PB-162** Synthesis and Properties of Semicarbazide Derivatives (Yamagata Univ.) TAJIMA, Akira; ITO, Kazuaki

Physical Organic Chemistry -Reaction Mechanism-

- 3PB-165** Effect of dipole moments on the electron-transfer rates of porphyrin-anthraquinone dyads (Osaka City Univ., Graduate School of Science) TAIHAKU, Keisuke; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji
- 3PB-166** Photoinduced electron transport in vesicles sensitized by pyrenedicarboxylic acid derivatives (The Univ. of Tokyo) NAKO, Yuki; MURATA, Shigeru
- 3PB-167** Spin-trapping reaction of free radical produced from AAPH by UV irradiation : Analysis of ORAC method by ESR (Faculty of Medicine, Univ. of Miyazaki) NAKAJIMA, Akira; MATSUDA, Emiko; UEDA, Yuto; OOWADA, Shigeru; FUJII, Hirotsada; SHINMEI, Masashi
- 3PB-168** The First ESR Observation of Radical Species in Subcritical Water (Koch Univ. of Technology, Suntory) KOBIRO, Kazuya; MATSURA, Masahiko; KOJIMA, Hiroyuki; NAKAHARA, Koichi
- 3PB-169** Photochemical hydrogen generation using Pt molecular catalyst linked with pyrene derivatives incorporated into vesicles (The Univ. of Tokyo) WATANABE, Kentaro; MURATA, Shigeru
- 3PB-170** Photo-induced electron injection into DNA by aromatic amines. (Engineering, Kyoto Univ.) UCHIDA, Tsukasa; ITO, Takeo; HAYASHI, Aiko; TANABE, Kazuhito; YAMADA, Hisatsugu; NISHIMOTO, Sei-ichi
- 3PB-171** Photochemical behaviors of pyrene derivatives having a cationic hydrophilic group in vesicles (The Univ. of Tokyo) MARUYAMA, Takeshi; MURATA, Shigeru
- 3PB-172[†]** Analysis of Basic Organic Reaction by Using FMO-MD: Amination of Formaldehyde in Water (Rikkyo Univ.) SATO, Makoto; YAMATAKA, Hiroshi; KOMIJI, Yuto; MOCHIZUKI, Yuji; NAKANO, Tatsuya
- 3PB-173** Theoretical Analysis of Regioselectivity of Ambident Reagents (Rikkyo Univ., College of Science, Department Chemistry) SEKI, Natsuko; YAMATAKA, Hiroshi
- 3PB-174** Gas-phase Acidities of Polyfluoro Hydrocarbons. Experimental and Theoretical Studies (Kyushu Univ.; AIST) ZHANG, Min; SONODA, Takaai; MISHIMA, Masaaki; FUKAYA, Haruhiko; ONO, Taizo
- 3PB-175** Synthesis and Photolysis of Sterically Hindered Diaryldiazomethane Having Halogen and Ethynyl Groups for Sonogashira Cross Coupling (Mie Univ.; Aichi Inst. of Tech.) SHINNTAKU, Masaya; HIRAI, Katsuyuki; KITAGAWA, Toshikazu; TOMIOKA, Hideo
- 3PB-176** Kinetic study on rearrangement/fragmentation bifurcation pathways of the Schmidt reaction (Rikkyo Univ., College of science, Department Chemistry) AKIMOTO, Ryo; YAMATAKA, Hiroshi
- 3PB-177** Experimental study on the reaction pathway of Beckmann rearrangement and fragmentation of substituted 3-phenyl-2-butanoneoxime (Rikkyo Univ., College of science, Department Chemistry) YAMAMOTO, Yutarou; HASEGAWA, Hiroto; YAMATAKA, Hiroshi
- 3PB-178** The effect of methoxy substituent on gas phase unimolecular dissociation using a four sector tandem mass spectrometer. (Osaka Prefecture Univ.; Univ. of Fukui) KAWAGUCHI, Miwa; ISA, Kimio; NAKATA, Ryuji; KAWASAKI, Kengo; YAMAOKA, Hiroshi
- 3PB-179** Role of Methoxy Substituent under Unimolecular Dissociation for *N*-(mono)Acyl-1,3-heteracycloalkan-2-ones (Osaka Prefecture Univ. ; Univ. of Fukui ; Osaka Women's Univ.) IWAHASHI, Atsuhide; KAWAGUCHI, Miwa; OKADA, Kyoko; HIRAKAWA, Nahoko; ISA, Kimio; NAKATA, Ryuji; MAEKAWA, Tetsuya; YAMAOKA, Hiroshi
- 3PB-180** Gas Phase Unimolecular Dissociation for *N*-(Substituted phenyla-

- cetyl)-1-azacycloalkane-2-ones during Metastable Time Window (Osaka Prefecture Univ.; Univ. of Fukui) MURAKAMI, Junichiro; ISA, Kimio; NAKATA, Ryuji; MAEKAWA, Tetsuya; YAMAOKA, Hiroshi
- 3PB-181** An Analysis of the Reaction Mechanism of Phenacyl Chloride with Alkoxide Ion (Department of Chemistry, Univ. of Rikkyo) SASAGAWA, Keita; YAMATAKA, Hiroshi
- 3PB-182** The experimental study on hydrogen rearrangement of acyloln derivatives (Rikkyo Univ., College of Science, Department Chemistry) KARINO, Masahiro; YAMATAKA, Hiroshi
- 3PB-183** Experimental studies on nitroalkane anomaly of phenylnitromethanes (Rikkyo Univ., College of Science, Department of Chemistry) ANDO, Kenichi; YAMATAKA, Hiroshi

Organic Crystals

- 3PB-185** Pseudopolymorphism in Azacalix[7]arene Heptamethyl Ether (Graduate School of Human and Environmental Studies, Kyoto Univ.) TSUE, Hirohito; MATSUI, Kazuhiro; ISHIBASHI, Koichi; ONO, Kohei; TAKAHASHI, Hiroki; TAMURA, Rui
- 3PB-186** Analysis of Crystal Polymorphisms of Calix[4]arene Tetraethyl Ester (Ind Tec Cen of Wakayama Pref) TAKAGAKI, Masafumi; NOMURA, Eisaku; KOBATA, Toshitsugu; TANIGUCHI, Hisaji; TATIBANA, Satoshi; NAKAHARA, Yoshio; KIMURA, Keiichi
- 3PB-187** A hydrogen-bonded charge-transfer organic cocrystal formed by disubstituted adamantane containing dimethoxyphenol with 1,3,5-trinitrobenzene. (Tokushima Bunri Univ.) TOMINAGA, Masahide; TAKAMATSU, Satoshi; KATAGIRI, Kosuke; AZUMAYA, Isao
- 3PB-188** Supramolecular structures and the fluorescence properties of anthracene disulfonic acid imidazolium salts (Graduate School of Engineering, Osaka Univ.) HASEGAWA, Atsuhiko; TOHNAI, Norimitsu; HINOUE, Tomoaki; HISAKI, Ichiro; MIYATA, Mikiji
- 3PB-189** Molecular arrangement control and the solid-state fluorescence properties of 9,10-diphenylanthracene derivatives. (Graduate School of Engineering, Osaka Univ.) HIRUKAWA, Tomofumi; TAMUGI, Akihiro; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 3PB-190** Crystal structure and luminescence property of new polymorphic crystals of cubane-like copper(I) iodide tetranuclear complex $[Cu_4I_4(PPH_3)_4]$ (Univ. of Hyogo, Graduate school of Material Science) KITAGAWA, Hakuba; OZAWA, Yoshiki; MITSUMI, Minoru; TORIUMI, Koshiro
- 3PB-191** Two kinds of crystals of *N*-(3,5-dichlorosalicylidene)-2-methoxyaniline (Chiba Institute of Technology, Aichi Univ. of Education) YOSHIDA, Narihiro; EBATO, Syouta; SUGIMOTO, Atsuki; TSUCHIMOTO, Masanobu; NAKAJIMA, Kiyohiko
- 3PB-192** The formation of guest-free chiral crystals by guest elimination from achiral clathrate crystals. (Josai university) SAITO, Hironori; SUZUKI, Mitsuaki; MIYAMAE, Hiroshi; WAKABAYASHI, Hidetsugu; KOBAYASHI, Keiji
- 3PB-193** Synthesis and solid - gas state reaction of alkyl glyoxime complexes with bulky substituents in in-plane ligands (Niigata Univ. of Pharmacy and Applied Life Sciences) SAKAI, Takeshi; KOBAYASHI, Ai; IINO, Sachii; ORISAKU, Keiko; ARAI, Yoshifusa; OHGO, Yoshiaki
- 3PB-194** Chiral Crystallization of Achiral Quinoloneamide Derivatives and the Asymmetric Photochemical Reaction in the Solid Phase (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; YAGISHITA, Fumitoshi; MINO, Takashi; FUJITA, Tsutomu
- 3PB-195** Absolute Asymmetric Synthesis Using the Chiral Crystal of Achiral Aromatic Amide in Fluid Media (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; OHNUKI, Tatsuo; MINO, Takashi; FUJITA, Tsutomu
- 3PB-196** Chiral Crystallization of Achiral Nicotinamide Derivatives and Control of Axial Chirality in Solution (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; KAMATAKI, Norifumi; MINO, Takashi; FUJITA, Tsutomu
- 3PB-197** The Crystal Structure of 3,7,12,24-tetrahydroxycholeane-Consideration on the Basis of Aromatic Guest Molecular Shape and Size (Graduate School of Engineering, Osaka Univ.) LIU, Wen-tzu; KIN, Yute; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
- 3PB-198** Development of supramolecular chiral host systems consisting of tartaric acid derivatives and their application to chiral recognition. (Univ. of Saitama) SEKINE, Eriko; KODAMA, Koichi; HIROSE, Takuji
- 3PB-199** Crystal Structure of Salts Between 2-(Nitrophenoxy)proionic Acids and Amines and Its Asymmetric Recognition (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; WATANABE, Masakazu; MATSUMOTO, Shoji; OGURA, Katsuyuki
- 3PB-200** Crystal Structure of Tethered Carboxylic Acids: A Cyclic Dimer vs. a Zigzag Hydrogen-bonded Network (Chiba Univ.; Tokushima Bunri Univ.) KOHMOTO, Shigeo; KURODA, Yu; KISHIKAWA, Keiki; MASU, Hyuma; AZUMAYA, Isao
- 3PB-201** Crystal Structure of Salts between *N*-Tritylphenylglycine and Amines (Graduate School of Engineering, Chiba Univ.) AKAZOME, Motohiro; MEGUMI, Ken; KUMON, Hiroshi; MATSUMOTO, Shoji; OGURA, Katsuyuki
- 3PB-202** Effects of substituent groups and solvents on the crystal structures of dehydrobenzo[12]annulene derivatives (Graduate School of Engineering, Osaka Univ.) SENGA, Hirofumi; SAKAMOTO, Yuu; HISAKI, Ichiro;

TOHNAI, Norimitsu; MIYATA, Mikiji

- 3PB-203** 2_1 Helical Supramolecular Structures and Hydrogen Bonding Networks of Organic Salts of Quinidine (Graduate School of Engineering, Osaka Univ.) SAKAGUCHI, Kazuaki; SHIZUKI, Norie; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
- 3PB-204** Formation of organic supramolecular clusters with pseudo-cubic hydrogen bond networks and their chirality. (Graduate School of Engineering, Osaka Univ.) SASAKI, Toshiyuki; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 3PB-205** Transition between polymorphic forms of trehalose (Hoshi Univ., Department of Physical Chemistry) NAGASE, Hiromasa; OGAWA, Noriko; ENDO, Tomohiro; UEDA, Haruhisa
- 3PB-206** *L*-Cystine Monolayers on Au(111) by Organic Crystal "Printing" (Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu Univ.) NONAKA, Kyoshiro; UEHARA, Hiromitsu; UOSAKI, Kohei; FUJIKI, Yuzo; WAKABAYASHI, Rie; SADA, Kazuki

Sunday, March 29, PM

(15 : 00 ~ 16 : 30)

Inorganic Chemistry

Polyoxometalate

- 3PC-001** Synthesis of Keggin-type tri-rhenium-substituted polyoxometalate (Shizuoka Univ., Faculty of Science) ENDO, Miho; KATO, Chika
- 3PC-002** Synthesis of a water-soluble Dawson-type zirconocene-containing polyoxometalate (Shizuoka Univ., Faculty of Science) MASUDA, Kiyoto; KATO, Chika
- 3PC-003** Synthesis of Keggin-type platinum(II)-containing polyoxometalate using cisplatin as a starting complex (Shizuoka Univ., Faculty of Science) KATO, Masao; KATO, Chika

Layered Compound

- 3PC-004** Adsorption analysis of molecules within the interlayer of the layered double hydroxides by using a quartz crystal microbalance (QCM). (Facu. of Engin., Iwate Univ.) NITANAI, Yuya; HIRAHARA, Hidetoshi; AISAWA, Sumio; NARITA, Eiichi
- 3PC-005** Formation of boehmite/organic composites from polyhydroxoaluminum solution and various alcohols (Shinshu Univ.) KOBAYASHI, Eriko; YAMAGUCHI, Tomohiro; FUJITA, Takayuki; TARUTA, Seiichi; KITAJIMA, Kunio
- 3PC-006** Ion Exchange of Layer Structured Niobate $Cs_4Nb_6O_{17} \cdot 3H_2O$ and Application as Cathode Material in Battery (Tokuyama College of Technology) OHASHI, Masao
- 3PC-007** Hydration and swelling behaviors of layered potassium ruthenate (Shinshu university) KATO, Hisato; FUKUDA, Katsutoshi; SUGIMOTO, Wataru; TAKASU, Yoshio
- 3PC-008** Nanosheets of Layered Transition Metal Hydroxides and Its Magnetic Properties (Univ. of Tokushima; Univ. of Tokushima; Univ. of Tsukuba) KURASHINA, Masashi; INOUE, Naoki; EGUCHI, Akio; KANEZAKI, Eiji; SHIGA, Takuya; OSHIO, Hiroki
- 3PC-009** Layer-by-layer deposition of perovskite nanosheets into ultrathin multilayer films and their electrical properties (National Institute of Materials Science) LI, Baowen; OSADA, Minoru; EBINA, Yasuo; OZAWA, Tadashi C; SASAKI, Takayoshi
- 3PC-010** Film Fabrication of Layered Rare-Earth Hydroxide Crystallites with Anion Exchangeability and Photoluminescence Properties (National Institute for Materials Science) HU, Linfeng; MA, Renzhi; OZAWA, Tadashi C; IYI, Nobuo; SASAKI, Takayoshi
- 3PC-011** Introduction of Diisopropoxy-bis(tri-tert-butoxy)silyloxytitanium into the interlayer surface of octosilicate surface (School of Science of Engineering, Waseda Univ.) CHOI, Kwang-min; WAKABAYASHI, Ryutarou; MATSUO, Yuki; TAKAHASHI, Nobuyuki; MOCHIZUKI, Dai; KURODA, Kazuyuki

Porous Compound

- 3PC-012** Synthesis of La/Al-pillared micas using hydrothermally treated polyhydroxoaluminum solutions (Shinshu Univ.) IWAKATA, Yuichiro; YAMAGUCHI, Tomohiro; NAKAYAMA, Rintaro; YAMAKAMI, Tomohiko; TARUTA, Seiichi; KITAJIMA, Kunio
- 3PC-013** Synthesis and inclusion phenomena of $[CuZn(CN)_4]$ host with a tridymite-like framework structure (Univ. of Tokyo) DAN, Hiroki; NISHIKIORI, Shin-ichi; YAMAMURO, Osamu
- 3PC-014** Electrochemical Inclusion of Cationic Compound to Molecule-Based Nanoporous crystal (Tokyo Univ. of Science) MURAYAMA, Akira; MIYAZATO, Yuji; TADOKORO, Makoto
- 3PC-015** Structure and the property of the hydrogen bond type Ru complex having ortho quinoid type ligand (Tokyo university of science) IIDUKA, Masanori; MIYAZATO, Yuji; ENOMOTO, Masaya; KOJIMA, Norimichi; MORI, Hiroto; MIYOSHI, Eisaku; TADOKORO, Makoto
- 3PC-016** Synthesis and properties of novel MOFs consisting of alkaline earth metals, rare earth metals and pyridine-2,6-dicarboxylic acid (Faculty of

Engineering, Niigata Univ.) MATSUMURA, Ryosuke; UEMATSU, Kazuyoshi; ISHIGAKI, Tadashi; TODA, Kenji; SATOU, Mineo

Physical Property

- 3PC-017** Electrical and magnetic properties of solid solutions of low-dimensional compounds of TiM_2Se_2 (M = Cu, Fe, Co) (Okayama Univ. of Science) NAMBA, Shinsuke; NAKAI, Satoshi; OHTANI, Tsukio
- 3PC-018** Influence of atmosphere on electric conductivity of cyclo-molybdate (Kyoto Pref. Univ., Tokyo Instit. Tech.) ONODA, Hiroaki; NARUKE, Haruo; YAMASE, Toshihiro
- 3PC-019** UV Irradiation reaction in ultrasonic method; an intercalation of 4-phenylazophenol between layers of α -Zirconium Phosphate (α -ZrP) pillared with p-methoxyaniline (p-MA) (Department of chemistry, Faculty of Sciences and Engineering, Meisei Univ.) SAKAKIBARA, Yuuki; WATANABE, Yukio
- 3PC-020** Single Crystal Synthesis and their Crystal Structure of Y_2O_3 doped $\text{Eu}_2\text{W}_2\text{O}_9$ red phosphors (Dept. of Mat. Sci. & Engr.; Nat. Def. Acad.) ARUGA, Atsushi; YOSHIKAWA, Ryuta; OZAWA, Shinichiro
- 3PC-021** Mechanism and photo-properties of yttrium-based nano-structural compounds synthesized in liquid phase (Shimane Univ., Osaka Univ., IMS) HANAMOTO, Takashi; NISHIYAMA, Katsura; KITADA, Keitaro; KAJI, Toshihiko; IKETAKI, Kai; HIRAMOTO, Masahiro

Organic Chemistry -Reaction and Synthesis- Aromatic Compounds

- 3PC-023** Synthesis and photoisomerization of azobenzene derivatives with functional groups of potential introduction into biomolecules. (Faculty of Engineering, Soka Univ.) WATANABE, Kazuma; ITO, Masato, M
- 3PC-024** Synthesis of 1,4-Bis(4-substituted-phenyl)azobenzenes by Condensation Reaction of 4-Nitronitrosobenzene (Faculty of Engineering, Soka Univ.) WATANABE, Masaaki; WATANABE, Kazuma; ITO, M. Masato
- 3PC-025** Synthesis and photochemical properties of diketone-linked porphyrins (Ehime Univ., Graduate School of Science and Engineering) YAMADA, Hiroko; MURAGISHI, Yu; KUZUHARA, Daiki; UNO, Hidemitsu; ONO, Noboru
- 3PC-026** Synthesis and Properties of triptycene-fused tetrapyrrolineporphyrins (Ehime university) KATO, Ryuta; YAMADA, Hiroko; ONO, Noboru
- 3PC-027** Synthesis and properties of soluble 5,15-dialkynyl-benzoporphyrin (Ehime university) MIYAKE, Tomoyo; YAMADA, Hiroko; ONO, Noboru
- 3PC-028** Synthesis of quinoxalinoporphyrins from their soluble precursors. (Ehime university) MATSUMOTO, Naoki; KIKUTI, Makoto; UNO, Hidemitsu; ONO, Noboru; YAMADA, Hiroko; OKUJIMA, Tetsuo
- 3PC-029[#]** Dehalogenation of Halogenated Compounds Using Metallic Calcium(16). Mechanistical Study of the Dechlorination Process of Substituted Chlorobenzenes Using a Metallic Calcium Catalyst Method. (Pref. Univ. of Hiroshima) SIMION, Cristian; SIMION, M. Alina; KAKEDA, Mitsunori; EGASHIRA, Naoyoshi; MITOMA, Yoshiharu
- 3PC-030** Oxidation of Toluene by Hydrogen Peroxide without Metal Catalyst (Osaka Municipal Technical Research Ins.) NAKAI, Takeo; IWAI, Toshiyuki; MIHARA, Masatoshi; ITO, Takatoshi; MIZUNO, Takumi
- 3PC-031[†]** An Investigation of the Synthesis of Photoresponsive Macrocycles by Aldol Condensation (Graduated School of Science and Engineering Yamagata Univ.) ISHIKAWA, Ken; KATAGIRI, Hiroshi; OHBA, Yoshihiro; TSUJIMOTO, Kazuo
- 3PC-032** Synthesis of 1,1-diaryllkenes from Friedel-Crafts alkylation of arenes with 1-chloro-1-aryllkene (Shibaura Institute of Technology) SAKAMOTO, Hiroyuki; SATOH, Ayumu; AOYAMA, Tadashi; KODOMARI, Mitsuo
- 3PC-033** Synthesis and Properties of Cyclic Triphenylene Trimer with Long Alkyl Chains (Tokyo Metropolitan Univ.) HANAI, Yoshimi; YAMAKAWA, Jun; RAHAMAN, Mohammad Jalilur; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko
- 3PC-034** Facile synthesis of 2,3-diacetoxyflavanones from 3-aminoflavones. (Kobe Univ.) MIYAKE, Hideyoshi; NISHINO, Shouko; SASAKI, Mitsuru
- 3PC-035** Regioselectivity in dimerization reaction of 2-(2-substituted vinyl)-1,4-naphthoquinones (Shimane Univ.) ADACHI, Yuuki; IWAMOTO, Hidetoshi; TAKUWA, Akio
- 3PC-036** Oxidative Aryl Coupling Reaction of Anthrols over Silica gel or Alumina (Shimane Univ.) AIBARA, Hiromi; NISHIGAICHI, Yutaka; IWAMOTO, Hidetoshi; TAKUWA, Akio
- 3PC-037** Synthesis of Caffeic acid derivatives and anti-oxidative effects (Tokyo Gakugei Univ.) SHINOHARA, Yuji; TAKIZAWA, Yasuomi
- 3PC-038** Oxidative coupling of 2-methoxy-4-methyl phenols with substituted acetophenones using Fremy's salt (Tokyo Gakugei Univ.) TAKIZAWA, Yasuomi; NAGAI, Yukari
- 3PC-039** Oxidation of substituted phenols with copper(II)chloride (Tokyo Gakugei Univ.) MIYATA, Yasuhiro; TAKIZAWA, Yasuomi
- 3PC-040** Reductive coupling of ketone derivatives using ultrasonication (Tokyo Gakugei Univ.) TAKIZAWA, Yasuomi; ARAKAWA, Yuki
- 3PC-041** Synthesis of Novel Polyalkyl-substituted Pentiptycenes (Tokyo Institute of Technology) ABE, Noriaki; SASE, Shohei; GOTO, Kei
- 3PC-042** Synthesis of Nano-sized Cavity-shaped Compounds through C-H

Activation (Tokyo Institute of Technology) MISAKI, Tomoko; SASE, Shohei; GOTO, Kei

- 3PC-043** Catalytic Photodimerization of Acenaphthylene by Use of Self-Assembled Hollow Complexes (School of Engineering, The Univ. of Tokyo; CREST) SATO, Kei-ichi; MURASE, Takashi; FUJITA, Makoto
- 3PC-044[†]** Synthesis of hydroxyl-7H-benzo[de]naphthacen-7-one (Faculty of Science, Toho Univ.) TOMINAGA, Kurato; TAKEKAWA, Minoru; OHSHIMA, Shigeru
- 3PC-045** Electrophilic Substitution of Aromatic Compounds using trifluoromethanesulfonic acid derivatives (Graduate School of Science, Tohoku Univ.) YAMAMOTO, Takuya; TAKAHASHI, Masayuki; MORITA, Noboru; TOYOTA, Kouzo; ITO, Shunji; YASUNAMI, Masafumi
- 3PC-046** Synthesis of chiral ligand for HPLC and analysis of resolution-complexation correlation (Tokyo Univ. of science) KONAKAHARA, Takeo; FUKUHARA, Sho; INABA, Sachio; SAKAI, Norio
- 3PC-047** Asymmetric synthesis of tri-ortho-substituted biaryls through Suzuki-Miyaura coupling of aryl chlorides (Faculty of Engineering, Graduate School of The Univ. of Tokushima) IWASAWA, Tetsuo; KAMEI, Toshinori; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 3PC-048** Organic Synthesis by Using Microwaves VII. The Vilsmeier Reaction of Aromatic Compounds (The Nippon Dental Univ.; Niigata Univ.) SUZUKI, Tsuneo; TANEMURA, Kiyoshi; NISHIDA, Yoko; HORAGUCHI, Takaaki
- 3PC-049** Application of a Resorcinarene Hexameric Capsule in Fluorous Solvents -Diels-Alder Reaction in the Capsule and Solvent Effects- (College of Industrial Technology, Nihon Univ.) USUI, Asuka; SHIRAKAWA, Seiji; SHIMIZU, Shoichi
- 3PC-050** Synthesis and Optical Resolution of Inherently Chiral Calix[4]arene as Substrate-Size Adjustable Organocatalyst (College of Industrial Technology, Nihon Univ.) UCHIDA, Kazunori; SHIRAKAWA, Seiji; SHIMIZU, Shoichi
- 3PC-051** Synthesis of 1,6-Methano [10] annulene condensed with 5-membered ring at 2,3-positions (Univ. of Toyama) OHIRA, Masayuki; ODA, Mitsunori; MIYATAKE, Ryuta; HORINO, Yoshikazu; ZHANG, Yanmei; KURODA, Shigeyasu
- 3PC-052** Samarium-catalyzed reductive coupling of imines (Wakayama National College of Technology) KAWAJI, Takatoshi; TAKEMOTO, Yuuki

Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds

- 3PC-055** A New Convenient Method for the Synthesis of Isocyanides from Formamides (1) Synthesis of Aliphatic Isocyanides (Tokyo Univ. of Agric. and Technol.) SAITO, Tateo; KOBAYASHI, Genki; KITANO, Yoshikazu
- 3PC-056** A New Convenient Method for the Synthesis of Isocyanides from Formamides (2) Synthesis of Isocyanobenzene (Tokyo Univ. of Agric. and Technol.) KOBAYASHI, Genki; SAITO, Tateo; KITANO, Yoshikazu
- 3PC-057** Efficient Iron Chloride-Catalyzed Acylation of Alcohols under Solvent-Free Conditions (Osaka Municipal Technical Research Ins.) MIHARA, Masatoshi; NAKAI, Takeo; IWAI, Toshiyuki; ITO, Takatoshi; OHNO, Toshinobu; MIZUNO, Takumi
- 3PC-058** The synthesis of ammonium phosphoro monofluorides by the reaction of thiophosphoric esters with fluoride ion (Department of Chemistry, Faculty of Engineering, Gifu Univ.) YAMADA, Kyohei; TAKENAKA, Toru; MURAI, Toshiaki
- 3PC-059** Chiral discrimination of alcohols possessing a chiral quaternary carbon at remote carbon atoms from hydroxy groups. (Department of Chemistry, Faculty of Engineering, Gifu Univ.) ITO, Hikaru; TAKENAKA, Toru; MURAI, Toshiaki
- 3PC-060** Synthesis of oxahelicenes by the reaction of helical quinones with nucleophiles (Graduate School of Engineering, Utsunomiya Univ.) UBUKATA, Hidenori; KIMURA, Takao; KARIKOMI, Michinori
- 3PC-061** Synthesis of Epoxide Derivatives toward the Construction of Chemical Compound Libraries (Iwate Medical Univ.; Iwate Univ.) KAWANO, Tomikazu; KUROSAWA, Seri; OGAWA, Satoshi
- 3PC-062** Generation of iminophosphorane or phosphonium ylide from aminophosphonium salts bearing alkyl group and their reaction (Chubu Univ.) MATSUNAGA, Hiroko; MORIHARA, Koji; ANDO, Fumio; KOKETSU, Jugo
- 3PC-063** Synthetic Application of β -Ketophosphonates to Natural Products (Kinki Univ.) OKADA, Yoshiharu; YONEYA, Kei-ichiro; NOMURA, Masato
- 3PC-064** Synthesis of 4-Substituted 1,2,4-Triazolone-3,5-dione Derivatives as New Candidates for Drug Development (Iwate Medical Univ.; Iwate Univ.) KAWANO, Tomikazu; KAWAMORITA, Yutaka; OGAWA, Satoshi
- 3PC-065** Aminimide podands with thiophene moieties (Gunma Univ.) SUGI, Soutarou; INOKUMA, Seichi; NAKAMURA, Yousuke; NISHIMURA, Jun
- 3PC-066** Synthesis of hexathiaadamantane and its derivative (Tokyo Metropolitan Univ.) HUSE, Hironori; SATO, Soichi; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 3PC-067** Convenient Synthesis of Polyiodinated Compounds Using Potassium Peroxydisulfate/Iodine Reagent (Saga Univ.) SHITOU, Fumiaki; KITAMURA, Tsugio
- 3PC-068** Synthetic Study of Germanium Dianion Bearing Bulky Allyl and

- Silyl Group (Kyoto Univ. Pioneering Research Unit for Next Generation) TAJIMA, Tomoyuki; TOKITOH, Norihiro
- 3PC-069** Organic acid catalyzed Aromatic Phosphorylation for 2-hydroxybi-phenyls (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
- 3PC-070** Crown Thioether Bearing a Cyclooctane Ring: Synthesis, Structure, and Reactions with Silver Salts (Saitama Univ.) TOYODA, Eriko; NAKATA, Norio; ISHII, Akihiko
- 3PC-071** Reactivities of a Stable Ruthenocenyldiphosphene (Institute for Chemical Research, Kyoto Univ.) KANEKO, Yoshikazu; SASAMORI, Takahiro; TOKITOH, Norihiro
- 3PC-072** Synthesis of bicyclo[2,2,2]cyclooctadiene-fused 1,4-dithiin derivatives by Ring-Expansion reaction. (Integrated Center for Science, Ehime Univ.; Graduate School of Science and Engineering, Ehime Univ) OCHI, Genki; OGASAWARA, Takashi; TANI, Hiroyuki; UNO, Hidemitsu
- 3PC-073** Sulfidation of 2-azaindolizines using elemental sulfur as a sulfur source catalyzed by various transition metal catalysts. (Gifu Univ.) KANAI, Takafumi; YAMAGUCHI, Eiji; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PC-074** Electrochemical Reduction and Base Treatment of Sulfonium and Selenonium Salts bearing Substituted Benzyl Group (Chubu Univ.) MORIHARA, Koji; MATSUNAGA, Hiroko; ANDO, Fumio; KOKETSU, Jugo
- 3PC-075** Synthesis of bridged porphyrin derivatives and the application as catalyst (Graduate School of Science & Engineering, Yamagata Univ.) KIMURA, Yuhio; ZHAO, Sha; HANEDA, Hiroto; IZUMI, Taeko
- 3PC-076** Synthetic Studies of New Heterocyclic Compounds Containing a Heavier Group 14-Element using Bisphosphidolithiums Bearing Extremely Bulky Substituents. (Institute for Chemical Research, Kyoto Univ.) YAMAMOTO, Osami; SASAMORI, Takahiro; TOKITOH, Norihiro
- 3PC-077** Syntheses of 2-azaindolizine derivatives bearing several substituents and their properties. (Department of Chemistry, Faculty of Engineering, Gifu Univ.) ONDA, Ichirota; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PC-078** Synthesis of Cyclopentadienylidene Bearing Diarylsulfonio Groups on 1,3-Positions. (The Univ. of Tokyo) YATABE, Atsushi; KOBAYASHI, Junji; KAWASHIMA, Takayuki
- 3PC-079** Synthesis and Isolation of Two Conformers of 5,10-Dihydrostibanthrenes (Department of Chemistry, School of Science, Kitasato Univ.) UCHIYAMA, Yosuke; MAZAKI, Yasuhiro
- 3PC-080** Synthesis and reactivity of crown ethers with different 16 group elements (Tokyo Metropolitan Univ.) NIINO, Makoto; HIRABAYASHI, Kazunori; SATO, Soichi; SHIMIZU, Toshio
- 3PC-081** Synthesis of Fréchet-type dendrimers with a redox-active selenide moiety at the core. (Tokai Univ.) OISHI, Sadahiro; HIRAKI, Toshihiro; IKEBE, Mai; IWAOKA, Michio
- 3PC-082** Formation of thiophene derivative by reaction of butadiyne and titanocene pentasulfide and its reactivity. (Tokyo Metropolitan Univ) TADOKORO, Akira; KOMATSUZAKI, Satoru; HIRABAYASHI, Kazunori; SATO, Soichi; SHIMIZU, Toshio
- 3PC-083** Luminescent properties of *N*-Substituted *S,S,S*-Triphenyliminosulfonium Salts (Fujii Lab., Dept. Appl. Mol. Chem., Coll. Ind. Tech., Nihon Univ.) KAMIYAMA, Yuta; FUJII, Takayoshi
- 3PC-084** Synthesis and Properties of Benzothiophene Derivatives Involving-Linear Alkyls in Both Ends (Integrated Center for Science, Ehime Univ.) KITANO, Tomoya; TANI, Hiroyuki; UNO, Hidemitsu
- 3PC-085** Substituent Effects on the Properties of Fluorescent Azobenzenes Bearing an Intramolecular N-B Coordination (The Univ. of Tokyo) KAMBE, Tetsuya; YOSHINO, Junro; KANO, Naokazu; KAWASHIMA, Takayuki
- 3PC-086** The synthesis of thiazoles and thiazolines by the reaction of thioamide dianions and thioformamides (Department of Chemistry, Faculty of Engineering, Gifu Univ.) HORI, Fumihiko; MURAI, Toshiaki
- 3PC-087** Reduction of Nitro Compounds with CO-Se Catalytic Reaction System (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) NISHIDA, Hiroaki; NISHIYAMA, Yutaka
- 3PC-088** Studies on the Synthesis of Ferrocenylphosphastibene Bearing a Steric Protection Group (Institute for Chemical Research, Kyoto Univ.) NIWA, Masatoshi; SASAMORI, Takahiro; TOKITOH, Norihiro
- 3PC-089** The Effects of Halogen Atoms on the Cycloaddition of Halophosphines with 1,3-Conjugated Dienes (Chubu Univ.) ANDO, Fumio; EMA, Sayuri; KOKETSU, Jugo
- 3PC-090** Synthesis of Quinoline by the Reaction of 2,1-Benziselenazoles with Alkynes. (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) MURATA, Minako; NISHIYAMA, Yutaka; IMAI, Yusuke
- 3PC-091** Synthesis of New Phosphazide Bases (Graduate School of Pharmaceutical Sciences, Tohoku Univ.) SHIMO, Tetsuya; NAKA, Hiroshi; KONDO, Yoshinori
- 3PC-092** Investigation of Generation of an Amino(phosphorus-ylidene)carbene with an Enhanced Electron-Donating Ability (The Univ. of Tokyo) SATO, Youichi; KOBAYASHI, Junji; KAWASHIMA, Takayuki
- 3PC-093** Diphenyl Diselenide-Catalyzed Reaction of Carbonyl Compounds with Diphenyl Disulfide. (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) ANBO, Hiroaki; NISHIYAMA, Yutaka
- 3PC-094** Synthesis and Structure of Antimony Compounds Having Three Ferrocene Units (Department of Chemistry, School of Science, Kitasato Univ.) GOTO, Yosuke; UCHIYAMA, Yosuke; MAZAKI, Yasuhiro
- 3PC-095** Synthesis of New Binaphthyl Ligand and Organo-tellurium Compounds bearing the Binaphthyl Ligand (Tokyo Metropolitan Univ.) MIZUKAMI, Mayumi; HARA, Minako; SATO, Soichi; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 3PC-096** Synthesis of Transition Metal Complexes with a Tripodal Tetradentate Phosphine Ligand Bearing Three Ether Moieties (Graduate School of Engineering, Gunma Univ.) TAGAWA, Tomonori; TAKEDA, Nobuhiro; UNNO, Masafumi
- 3PC-097** Synthesis of 9,10-Diheteratriptycenes from Triarylborane (Department of Chemistry, School of Science, Kitasato Univ.) YASUKAWA, Takuya; SHIBATA, Munenori; SUGIMOTO, Jun; UCHIYAMA, Yosuke; YAMAMOTO, Gaku; MAZAKI, Yasuhiro

Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

- 3PC-099** Chiral Phosphine-Silver(I) Complex and Tin Methoxide-Catalyzed Asymmetric Nitroso Aldol Reaction of Alkenyl Trichloroacetates (Graduate School of Science, Chiba Univ.) TAKESHITA, Satoshi; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PC-100** Gold-Catalyzed Homo-Coupling Reaction of Arylboronic Acids (Tokyo Univ. of Science) MATSUDA, Takanori; ASAI, Taro
- 3PC-101** Selective Propargylation of Azo Compounds with Barium Reagents (Graduate School of Science, Chiba Univ.) KOIDE, Takanori; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PC-102** Reductions with a $\text{CaH}_2/\text{ZnX}_2$ Reagent (Kanagawa Univ., Dept. of Material & Life Chem.) KAWAJI, Tsuyoshi; SAKAI, Yu-zo; KA, Sei-sei; OKAMOTO, Sentaro
- 3PC-103** Synthesis of silacyclic compound using transition metal catalyzed [2 + 2]cycloaddition (Department of Chemistry, Faculty of Science, Kanagawa Univ.) OHTA, Yusuke; SUZUKI, Naomi; KABE, Yoshio
- 3PC-104** Asymmetric reaction using chiral MOF catalyst (Kansai Univ.) OTANI, Kenichi; TANAKA, Koichi
- 3PC-105** Asymmetric sorption of enantiomer using chiral MOF (Kansai Univ.) HIRAYAMA, Daisuke; TANAKA, Koichi
- 3PC-106** Transition Metal Catalyzed C-S Bond Formation of Azoles and Thiols. (Institute of Science and Engineering, Chuo Univ.) SHIMIZU, Eiji; ATSUUMI, Yuka; HAGA, Masatake; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 3PC-107** Development of Lewis acid-Bronsted acid bifunctional catalyst: Cu (II)-bisamidine catalyzed Mukaiyama aldol reaction (Rikkyo Univ.) GOTO, Ryo; YAMANAKA, Masahiro
- 3PC-108** Iron-Catalyzed Hydroarylation of Alkynes (Saga Univ.) IZUMI, Takayuki; HASHIMOTO, Takuya; KITAMURA, Tsugio
- 3PC-109** The synthetic methodology for 1,1'-bis(diacetylene-group) connected ferrocene derivatives. (Graduate School of Science and Engineering, Univ. of Toyama) SHIMIZU, Rumi; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 3PC-110** Theoretical Study on Structure and Electron State of Iron Complex Possessing Spin-Control-Intended Orthophenylene Diphosphine(SciOPP) (Fukui Institute for Fundamental Chemistry, Kyoto Univ.) OKADA, Yoshihiro; Lung Wa, Chung; HATAKEYAMA, Takuji; TAKAYA, HIKARU; NAKAMURA, Masaharu; MOROKUMA, Keiji
- 3PC-111** Iridium-catalyzed Guerbet-type dimerization reaction of alcohols (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) KODA, Keitaro; OBORA, Yasushi; ISHII, Yasutaka
- 3PC-112** Iridium complex catalyzed reaction of diols (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) ANNO, Yuka; OBORA, Yasushi; ISHII, Yasutaka
- 3PC-113** Cp*Iridium Complex-Catalyzed Reversible Dehydrogenation/Hydrogenation of Nitrogen Heterocycles (Kyoto Univ.) IKEDA, Chikako; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 3PC-114** N-Alkylation of Amines with Alcohols Catalyzed by a Cp* Iridium Complex Having a Pyridonate Ligand (Kyoto Univ.) MURAKAMI, Naoaki; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 3PC-115** Grignard Allylic Substitution Reaction Catalyzed by Imidazolium Salts (Kanagawa Univ., Dept. of Material & Life Chem.) ISHIKAWA, Hiroyuki; SHIBATA, Yoshimi; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 3PC-116** NbCl_5 -catalyzed reaction of dienes with alkynes or imines. (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) SATO, Yasushi; OBORA, Yasushi; ISHII, Yasutaka
- 3PC-117** Synthesis and Application of Novel Cavity-type Carbene Ligands (Tokyo Institute of Technology) MURAKAMI, Shingo; SASE, Shohei; GOTO, Kei
- 3PC-118** Synthesis of novel phosphine ligands bearing cyclic aryl-ether moiety (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) KAWASHIMA, Naomichi; HONJO, Mika; OBORA, Yasushi; ISHII, Yasutaka
- 3PC-119** Solvent Effect on Pd-Catalyzed Direct Alkenylation of Polystyrenes (Saga Univ.) KOBAYASHI, Souichi; KITAMURA, Tsugio
- 3PC-120** Formation of Alkenylcoumarins by Pd-Catalyzed Reaction of Ethyl Propiolate with Phenols (Saga Univ.) TATEMOTO, Kotaro; OYAMADA, Juzo; KITAMURA, Tsugio

- 3PC-121** Synthesis of Hydroxyiodocoumarins Using Pd-Catalyzed Uydroarylation (Saga Univ.) YOSHIDA, Yuuji; KITAMURA, Tsugio
- 3PC-122** Palladium catalyzed coupling reaction of organozinc reagents with pyridinecarboxylic acid chlorides (Osaka Municipal Technical Research Ins.) IWAI, Toshiyuki; NAKAI, Takeo; MIHARA, Masatoshi; ITO, Takatoshi; MIZUNO, Takumi; OHNO, Toshinobu
- 3PC-123** Palladium-Catalyzed Bond Formations with Diphosphine as a Ligand (Chiba Univ.) MINO, Takashi; KOBAYASHI, Shouhei; NARUSE, Yoshiaki; OISHI, Shunsuke; SAKAMOTO, Masami; FUJITA, Tsutomu
- 3PC-124** Kinetic Resolution of Allylic Esters in Palladium-Catalyzed Asymmetric Allylic Alkylation with Chiral Aminophosphine (Chiba Univ.) MINO, Takashi; WAKUI, Kazuya; OISHI, Shunsuke; SAKAMOTO, Masami; FUJITA, Tsutomu
- 3PC-125** Palladium Catalyzed Allylic Arylation with Arylboronic Acids Using Hydrazone as a Ligand (Chiba Univ.) MINO, Takashi; KAJIWARA, Kenji; SAKAMOTO, Masami; FUJITA, Tsutomu
- 3PC-126** Palladium Catalyzed Cyanation of Aryl Bromides Using Hydrazone as a Ligand (Chiba Univ.) MINO, Takashi; KOIZUMI, Tomoko; SAKAMOTO, Masami; FUJITA, Tsutomu
- 3PC-127** 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
- 3PC-128** Nitro-selective Reduction Catalyzed by Platinum Nanoparticles Supported on Nitrogen-Containing Carbon Nanofibers (Graduate School of Engineering Sciences, Institute for Materials Chemistry and Engineering, Kyushu Univ.) TSUJI, Keita; LEE, Youngjin; MOTOYAMA, Yukihiro; YOON, Seong-ho; MOCHIDA, Isao; NAGASHIMA, Hideo
- 3PC-129** Pt-Catalyzed Reaction of Arenes and Ethyl Propiolate: The Formation of Arylbutadienes (Saga Univ.) OYAMADA, Juzo; KITAMURA, Tsugio
- 3PC-130** Rhenium-Catalyzed Reaction of Ketene Silyl Acetal with Carbonyl Compounds (Faculty of Chemistry, Materials and Bioengineering, Kansai Univ.) KAIBA, Kenta; NISHIYAMA, Yutaka
- 3PC-131** Cationic Rhodium Complex-Catalyzed Hydrosilylation of (*E*)-3-Alken-1-yne (Aoyama Gakuin Univ.) ONODERA, Gen; AKIZUKI, Takahiro; SHIN-YA, Hirokazu; SUMIKAWA, Naoyuki; TAKEUCHI, Ryo
- 3PC-132** Rhodium-Catalyzed Reactions of Benzyl Acetate with Allylsilane and Hydrosilane (Aoyama Gakuin Univ.) ONODERA, Gen; TONEGAWA, Shota; YAMAMOTO, Eriko; TAKEUCHI, Ryo
- 3PC-133** Cooperative influence of diamine and diene ligand for Rh-catalyzed asymmetric 1,4-addition reaction (Waseda Univ.) KUWATA, Yusuke; ENDO, Kohei; SHIBATA, Takanori
- 3PC-134** Synthesis of Cyclic Silicon Compound using Ring-Closing olefin and ene-yne Metathesis (Department of Chemistry Faculty of Science, Kanagawa Univ.) TANIGUCHI, Shinjiro; YASUMATU, Junya; SASAKI, Yusuke; KABE, Yoshio
- 3PC-135** Studies on Ruthenium-Catalyzed Addition Reaction of Heteroatom Nucleophiles onto Olefins (Doshisha Univ.) HIGASHI, Shoko; TAKENAKA, Hiroto; OE, Yohei; OHTA, Tetsuo
- 3PC-136** McMurry Coupling Reaction Promoted by a Low Valent Titanium Reagent Ti(*O*-*i*-Pr)₂/TMSCl/Mg (Kanagawa Univ., Dept. of Material & Life Chem.) OHNO, Chihaya; KA, Sei-sei; O-IWA, Yuji; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 3PC-137** Reactions of Epoxides with a Low Valent Titanium Reagent Ti(*O*-*i*-Pr)₂/TMSCl/Mg (Kanagawa Univ., Dept. of Material & Life Chem.) KA, Sei-sei; NIWA, Ryosuke; OHNO, Chihaya; MATSUNO, Chikashi; OKAMOTO, Sentaro
- 3PC-138** CO₂ Fixation of Organozinc Reagents Activated by Solvents (Graduate School of Pharmaceutical Sciences, Tohoku Univ.) KOBAYASHI, Koji; KONDO, Yoshinori

Analytical Chemistry

- 3PC-141** Determination of boron in natural waters by glucamine immobilized silica gel combined with ICP-MS (College of Engineering, Nihon Univ.) TUDUKI, Noriki; HIRAYAMA, Kazuo
- 3PC-142** VOC-adsorption and desorption properties of Woodceramics studied by GC and EGA-MS (Kanagawa Univ., AIST, Aomori Industrial Research Center) NISHIMOTO, Yuko; ONUKI, Satomi; TSUGOSHI, Takahisa; OKABE, Toshihiro
- 3PC-143** Reductive Amination of Carbonyl 2,4-Dinitrophenylhydrazones Using 2-Picoline Borane and High-Performance Liquid Chromatographic Analysis (National Institute of Public Health) UCHIYAMA, Shigehisa; INABA, Yohei; MATSUMOTO, Mariko; SUZUKI, Gen
- 3PC-144** Analysis of components in droplets by Riesegang ring formation (Faculty of Engineering, Kanagawa Univ.) TOMIKAWA, Naomi; KOGA, Aiko; MATSUMOTO, Kiyoshi; IGAWA, Manabu
- 3PC-145** Development of Quantitative Analysis Methods for Main Elements in Lead-free Bronze (Nagoya Municipal Industrial Research Institute) SAKAI, Mitsuo; OHASHI, Yoshiaki; ONO, Satomi
- 3PC-146** Development of detection systems for biomolecules by using the unique biotinylation reaction. (Kyushu Inst. of Tech.; PRESTO JST) SUEDA, Shinji; HAYASHI, Hideki
- 3PC-147** 19F MRI probes for detecting gene expression (Graduate School of Engineering, Osaka Univ.) MIZUKAMI, Shin; TAKIKAWA, Rika; SUGIHARA, Buntoku; SHIRAKAWA, Masahiro; KIKUCHI, Kazuya
- 3PC-148** Capillary-Assembled Microchip(41)Preparation of one step biosensing capillary constructed by double-layer structure of ion sensor membrane and enzyme release membrane (Osaka Prefecture Univ. Graduate school of engineering) TSUTSUMI, Erina; YAO, Toshio; HISAMOTO, Hideaki
- 3PC-149** Fluorescence enhancement mechanism of sesamol in radical detection (Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo) MAKINO, Yumi; UCHIYAMA, Seiichi; OHNO, Ken-ichi
- 3PC-150** Simple preconcentration technique for the trace analysis(XRF and AAS) of heavy metal ions in water using tobermorite as a collector. (Univ. of Hyogo) KUROISHI, Yoshikazu; NISHIOKA, Hiroshi; MURAMATSU, Yasuji
- 3PC-151** Sequential Injection Analysis of Cationic Surfactants using Cationic Surfactant-selective electrode (Shibaura Institute of Technology) UENO, Naoya; MASADOME, Takashi; IMATO, Toshihiko
- 3PC-152** Study on secretion from skin by oral intake of ascorbic acid and gamma-amino butyric acid (Pico-device Co.,Ltd., Nagoya Institute of Technology, Foods Laboratory Kracie Foods Ltd.) TSUDA, Takao; SHIBATA, Hideki; AKIYAMA, Asako; OTANI, Yasushi; ITO, Kenji; TAKAHASHI, Kozue; KOBAYASHI, Tadashi; NAKAMURA, Hideo
- 3PC-153[†]** Two dimensional micro-magnetic fractionation method for diamagnetic particles based on a magnetic force gradient mode (Univ. of Osaka) KAWANO, Makoto; WATARAI, Hitoshi
- 3PC-154** Polymer chip incorporated with ISE for micro flow analysis of nitrate ion (Shibaura Institute of Technology, National Institute of Advanced Industrial Science and Technology (AIST)) MASADOME, Takashi; IJIMA, Daisuke; HORIUCHI, Osamu; WAKIDA, Shin-ichi
- 3PC-155** In situ surface enhanced Raman scattering measurement in microfluidic device (Archilys) FUKUOKA, Takao; TABE, Masaya; MORI, Yasushige; FUKUOKA, Daisuke; UTSUMI, Yuuichi
- 3PC-156** Highly Sensitive Analysis of Inorganic Ions Using Crown Ether Immobilized Quantum Dots (Kyoto Univ.; Shimadzu) KAI, Minako; HORIIKE, Shigeyoshi; NAKANISHI, Hiroaki; KITAGAWA, Fumihiko; OTSUKA, Koji
- 3PC-157** Development of Ditopic Type Azoprobe Possessing Bronic Acid and Crown Ether Recognition Sites (Sophia Univ.) YASUI, Masashi; ENDO, Yui; HASHIMOTO, Takeshi; HAYASHITA, Takashi
- 3PC-158** Development and evaluation of multi-dentate-type azoprobe cyclodextrin complexes sensor for selective dopamine recognition. (Sophia Univ.) OYAIKU, Shota; SATO, Fuyuki; HASHIMOTO, Takeshi; HAYASHITA, Takashi
- 3PC-159** Study of the substituent and spacer effect on the fluorescence boronic acid sensors for glucose recognition (Sophia Univ.) MAEDA, Mariko; SEKINE, Kiyoyuki; HASHIMOTO, Takeshi; HAYASHITA, Takashi
- 3PC-160** Chemically modified cellulose with N-methylglycin for solid-phase extraction and preconcentration of Pb from aqueous solutions. (Meisei Univ.) YAMAMOTO, Tomoya; TUKINOKI, Satoshi; AKAMA, Yoshifumi
- 3PC-161** Micellar electrokinetic chromatography with novel zwitterionic surfactants (Tokyo institute of Technology / Okada lab.) REN, Liying; OKADA, Tetsuo
- 3PC-162** Synthesis and characterization of a photochemical sensor based on toluidine blue for dicarboxylic acids (Toyo university) HACHIYAMA, Eriko; FUKUSHIMA, Yasumasa
- 3PC-163** Synthesis and characterization of naphthalene derivatives bearing urea groups for amino acids (Toyo Univ.) KITAHARA, Masayoshi; FUKUSHIMA, Yasumasa
- 3PC-164** Synthesis of a fluorescent sensor for protected amino acids and the evaluation of asymmetric recognition (Toyo university) HONDA, Haruhiko; FUKUSHIMA, Yasumasa
- 3PC-165** Investigation and evaluation of axial ligand for more selectivity of the superoxide anion radical sensor and its application (Faculty of Sci. and Technol., Tokyo Univ. of Sci.) SAKAI, Kazuya; IGARASHI, Masatsugu; YUASA, Makoto
- 3PC-166** The control of bacterial luciferase(BL) bioluminescence system using electrochemical method with a gold electrode modified self-assembled monolayer(SAM) (Department of chemistry, Faculty of sciences, Kyushu Univ.) TAKEHARA, Ko; YAMADA, Shuto; YAMASAKI, Shinya; SUYAMA, Tatsuya
- 3PC-167** Preparation of amperometric carbon monoxide-sensor as an aim to application in vivo (Faculty of Sci. and Technol., Tokyo Univ. of Sci.) SETO, Hirosato; TAKAHASHI, Koushirou; MURATA, Hidenori; YUASA, Makoto
- 3PC-168** Determination of hypochlorite ion at stripe electrodes (Ritsumeikan Univ.) YAMAMOTO, Takayo; SAKAI, Ryusuke; ASANO, Sachie; SENDA, Mitsugi; SHIRAIISHI, Haruki
- 3PC-169** Product detection of proton exchange reactions by the ion attachment mass spectrometry (IAMS) (Tokyo Univ. Agricult. & Technol.; Canon ANELVA Technix Corporation) OIKAWA, Masaaki; YOSHIMURA, Norio; TAKAYANAGI, Masao; NAKAMURA, Megumi
- 3PC-170** Mass Spectrometry of Small Samples with Local Heating Probe (PERL, Hitachi, Ltd.) HORIKOSHI, Kazuhiko; AKAMATSU, Naotoshi
- 3PC-171** Measurement of emission from singlet oxygen dimol by Fourier-Transform chemiluminescence spectrometer and its solvent effect (Japan

- Applied Technology Inc.; Tokyo Univ. of Agriculture and Technology, BASE) ISHII, Hiroshi; TUKINO, Kazuo; NAKATA, Munetaka
- 3PC-172** Development of a biosensing technique based on aggregation and Brownian motion of optically-trapped nanoparticles (Osaka Univ.) YOSHIKAWA, Hiroyuki; YOKOYAMA, Motomi; HIEP, Ha Minh; TAMIYA, Eiichi
- 3PC-173** Measurement of DLC thickness by FT-IR RAS (Reflection Absorption Spectroscopy) method (TIRI) FUJIMAKI, Yasuto; SASAKURA, Daisuke; IKEYAMA, Masami; SAKAMOTO, Michiru; TAKANO, Shigeto; TERAYAMA, Nobuyuki; MOTOI, Akio
- 3PC-174** X-ray Analysis on Archaeological Paper Samples Colored by Pigments and Dyes. (Ryukoku Univ., Fac. of Sci. & Tech.) INOUE, Yoshimitsu; FUJIWARA, Manabu; MATSUSHITA, Takayuki; IKEDA, Shigero
- 3PC-175** XPS and EELS Spectra of Lithium Compounds and Complexes (Ryukoku Univ., Fac. Sci. & Tech.) CHIYO, Hiroshi; FUJIWARA, Manabu; MATSUSHITA, Takayuki; IKEDA, Shigero

Energy and Related Chemistry

- 3PC-177** Estimation for all solid state rechargeable battery material based on lithium halide (College of Industrial Tech. Nihon Univ.) MATSUYAMA, Shouji; YAMADA, Kouji; YAMANE, Youhei
- 3PC-178** Modification of cathode materials in molecular cluster batteries (Nagoya Univ.) HAMANAKA, Shun; YOSHIKAWA, Hirofumi; AWAGA, Kunio; SHIGEMATSU, Satoshi; AKUTAGAWA, Nao; SATOH, Masaharu
- 3PC-179** Development of Super Capacitor with PbSnF₄ as a solid electrolyte (College of Industrial Tech. Nihon Univ.) NAKADA, Kyousuke; YAMANE, Yohei; YAMADA, Koji
- 3PC-180** Preparation and Characteristic Evaluation of Nafion-Silica Bilayer Composite Membranes for Polymer Electrolyte Fuel Cell (Musashi Institute of Technology) FUKUYO, Yasutaka; TAKAHASHI, Masashi; KOBAYASHI, Kouichi
- 3PC-181** Preparation and characterization of shell-like carbon as non-platinum cathode catalyst for polymer electrolyte fuel cell (Musashi Institute of Technology) HASHIMOTO, Wataru; KOBAYASHI, Kouichi; TAKAHASHI, Masashi
- 3PC-182** Preparation and Protonic conductivity of Hydrogen-bonding inorganic solid acid salts M₃H₃(SO₄)₄(M=K,Rb,Cs) (College of Industrial Tech. Nihon Univ.) YAMANE, Yohei; YAMADA, Koji
- 3PC-183** Phase transition and protonic conductivity of solid acid CsH₂PO₄-based composite (College of Industrial Tech. Nihon Univ.) MURASE, Haruki; YAMANE, Yohei; YAMADA, Koji
- 3PC-184** Hydrogen elimination from SiH₃Na tetramer and its isoelectronic systems (Tokai Univ.; Nagasaki Institute of Applied Sci.) ISHIKAWA, Shigeru; YAMABE, Tokio
- 3PC-185** TiO₂ band shift by nitrogen-containing heterocycles in dye-sensitized solar cells (AIST) KUSAMA, Hitoshi; ORITA, Hideo; SUGIHARA, Hideki; SAYAMA, Kazuhiro
- 3PC-186** Characteristic and adhesiveness of the counter-electrode catalyst by using carbon and electroconductive polymer for dye sensitized solar cells (Musashi Institute of Technology) OKUMURA, Takurou; IKEGAMI, Masashi; KOBAYASHI, Kouichi; MIYASAKA, Tutomu
- 3PC-187** Evaluation of inverted type organic thin film solar cells with zinc oxide layer by AC impedance spectroscopy (Univ. of Kanazawa) KUWABARA, Takayuki; KAWAHARA, Yoshitaka; YAMAGUCHI, Takahiro; TAKAHASHI, Kohshin
- 3PC-188**[†] Semiconductive characteristics of tetraalkoxyphthalocyanines and application to photovoltaics (Shinshu Univ.) SUMIKURA, Seiichi; ATSUMO, Ken; USAMI, Hisanao; ICHIKAWA, Musubu; SUZUKI, Eiji
- 3PC-189** Synthesis and Photoreaction of Porphyrin/TEMPO/Quinone-Pool Ternary Molecules (Institute for Molecular Science) NAGATA, Toshi
- 3PC-190** Sonolysis under 2.4MHz ultrasonic irradiation (Grad. School of Meisei Univ.) HARADA, Hisashi
- 3PC-191** Sonocatalytic degradation of dyes with Titania beads (Graduate School, Shinshu Univ.) ITO, Shigeo; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tuneso
- 3PC-192** Addition effect of pure water on sonochemical reaction of acetic acid (Grad. School of Meisei; Univ. of Meisei) GOTO, Mika; TAMURA, Yumi; TANAKA, Hisashi; HARADA, Hisashi
- 3PC-193** Studies on Micelle-type Sono-functional Molecule with Ferrocene Framework (Department of Chemistry, Shiga Univ. of Medical Science) SOHMIYA, Hajime; FUJITA, Mituse; KIMURA, Takahide
- 3PC-194** Water-splitting by mechanochemical reaction with fine grain silicon oxides. (Graduate School of Engineering Tokyo Polytechnic Univ.) INMARU, Junpei; SHIRAI, Yasuo
- 3PC-195** A novel method of hydrogen gas generation by the decomposition of methane with microwave irradiation. (College of Engineering, Nihon Univ.) KAMIYA, Kazunori; AIDA, Makoto; HIRAYAMA, Kazuo