

Oral Session

Thursday, September 11

Room A

9:00–12:00

- 1A01** Femtosecond Time-Resolved Fluorescence Study of Photoisomerization Precursor of cis-Stilbene
NAKAMURA, Takumi; TAKEUCHI, Satoshi; TAHARA, Tahei (RIKEN)
- 1A02** Desorption Ionization of Fullerene by Femtosecond Laser Pulse
NAKAGAWA, Junpei; NAKASHIMA, Nobuaki; YATSUHASHI, Tomoyuki (Osaka City Univ.)
- 1A03** Electron Transfer Dynamics of Poly(*N*-vinylcarbazole) in Femtoseconds Region
KATAYAMA, Tetsuro; ISHIBASHI, Yukihide; MORII, Yuuji; MIYASAKA, Hiroshi (Graduate School of Engineer Science, Osaka Univ.)
- 1A04** Observation of Electron Injection Process in Dye Sensitized Solar Cell Devices by Diffuse Reflectance Femtosecond Transient Absorption Spectroscopy
FURUBE, Akihiro; DU, Luchao; WANG, Zhong-Sheng; KOUMURA, Nagatoshi; HARA, Kohjiro; KATOH, Ryuji; TACHIYA, Masanori (National Institute of Advanced Industrial Science and Technology)
- 1A05** Ionization and Reaction of Solid Aromatic Molecules by Intense Femtosecond Laser Pulses
YATSUHASHI, Tomoyuki; NAKASHIMA, Nobuaki (Osaka City Univ.)
- 1A06** Quantitative Evaluation of Radiation Pressure Acting on Molecules in Solution by Combination Use of Fluorescence Correlation Spectroscopy and Computational Simulation
ITO, Syoji; TOITANI, Naoki; MIYASAKA, Hiroshi (Osaka Univ., PRESTO JST)
- 1A07** Emission Spectra of Eu (III) Complex with a Bridged Bipyridines
HASEGAWA, Miki; OHTSU, Hideki; KASAI, Takeshi; YOSHIMURA, Yu; ENOMOTO, Sae (College of Science and Engineering, Aoyama Gakuin Univ.)
- 1A08** A Time-Resolved Fluorescence Study on an Actylene-Linked Pyrene Dimer
ASANO, Motoko S.; KUDAKA, Mami; SAKAMAKI, Tsutomu; YAMASHITA, Ken-ichi; HADA, Masahiko; FUJINO, Tatsuya; SUGIURA, Ken-ichi (Tokyo Metropolitan Univ.)
- 1A09** Effect of Sample Shape on Fluorescence Quantum Yield in Organic Materials
KATOH, Ryuzi; SUZUKI, Kengo; FURUBE, Akihiro; KOTANI Masahiro; TOKUMARU Katsumi (AIST, Hamamatsu Photonics, Gakushuin Univ., Tsukuba Univ.)

15:00–18:00

- 1A10** Magnetic Field Effects on Photochemical Reactions in Ionic Liquids
WAKASA, Masanobu; HAMASAKI, Atom; YAGO, Tomoaki (Saitama Univ., Graduate School of Science and Engineering)
- 1A11** Generation of Singlet Oxygen in Ionic Liquids and Its Application to Photooxidation Reaction
INOUE, Nobuhiro; ISHIOKA, Toshio; HARATA, Akira (Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.)
- 1A12** Photoluminescence and Photoinduced Electron Transfer Properties of CdTe Nanocrystals in Ionic Liquids
NONOGUCHI, Yoshiyuki; NAKASHIMA, Takuya; KAWAI, Tsuyoshi (Nara Inst. Sci. Tech.)
- 1A13** Photoisomerization Reaction of Phenylazo Substituted Room Temperature Ionic Liquid
ASAKA, Tohru; AKAI, Nobuyuki; KAWAI, Aki; SHIBUYA, Kazuhiko (Department of Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology)
- 1A14** External Electric Field Effects on State Energy and Photoexcitation Dynamic of Polyfluorene: Field-Induced Changes in Decay Profile
MEHATA, Mohan, Singh; IIMORI, Toshifumi; OHTA, Nobuhiro; HSU, Chain-Shu; LEE, Yuan-Pern (Research Institute for Electronic Science, Hokkaido Univ., Department of Applied Chemistry, National Chiao Tung Univ.)
- 1A15** Time-Resolved ESR and Magnetic Field Effect Studies on Photochemical Reaction of TMPD in an AOT Reversed Micell
MIURA, Tomoaki; TORII, Sakiko; MURAL, Hisao (Shizuoka Univ.)
- 1A16** Photochromic Behavior of Spirooxazine in Metal Ion-Containing Solutions
TAKAMURA, Toshikazu; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo (Shinshu Univ.)

- 1A17** Excited State Dynamics of Thio- and Aza-substituted DNA/RNA Bases
SUZUKI, Tadashi; KURAMOCHI, Hikaru; KOBAYASHI, Takashi; HARADA, Yosuke; ICHIMURA, Teijiro (Tokyo Institute of Technology)
- 1A18** Time-Resolved EPR Studies on the Photo-Induced Electron Transfer in π Conjugating Dendritic Systems.
AKIYAMA, Kimio; SEKINE, Kazunori; IMAOKA, Takane; YAMAMOTO, Kimihisa; SAITO Fumio (Tohoku Univ., Keio Univ.)

Room B

9:00–12:00

- 1B01** A Synthetic Study of Hexaprisman Derivatives via Photochemical Reaction of [3₃]Cyclophanes
UEDA, Shunji; SHINMYOZU, Teruo (Institute of Materials Chemistry and Engineering and Department of Molecular Chemistry, Graduate School of Science, Kyushu Univ.)
- 1B02** Isomerization Behavior of [0.0](3,3')-Azobenzophane
NORIKANE, Yasuo; KATOH, Ryuzi; TAMAOKI, Nobuyuki (AIST)
- 1B03** Synthesis and Photochromic Properties of Radical Diffusion-Inhibited HABI with Paracyclophane moiety
KISHIMOTO, Yuta; ABE, Jiro (Aoyama Gakuin Univ.)
- 1B04** Conformation-Dependent Chemiexcitation in Charge-Transfer-Induced Decomposition of Aryl-Substituted Dioxetanes
MATSUMOTO, Masakatsu; TAKAMIDO Yuka; SUZUKI Haruna; IJIN, Hisako; WATANABE, Nobuko (Kanagawa Univ.)
- 1B05** Studies on Arylolefin Radical Cations by Photosensitized Electron Transfer
AKABA, Ryoichi; FUKUDA, Nobuhiro; KAMATA, Masaki; KONUMA, Satoshi; SAKURAGI, Hirochika; TOKUMARU, Katsumi (Gunma College of Technology, Niigata Univ., Univ. of Tsukuba)
- 1B06** Addition of Amino Acids to Alkenes via Photochemical Decarboxylation
ITOU, Tatsuya; YOSHIMI, Yasuharu, MASUDA, Miho; MIZUNASHI Tomoyuki; HATANAKA, Minoru (Univ. of Fukui)
- 1B07** Photochemical Synthesis of Fluorous Vinyl Iodide and Its Application in Organic Synthesis
ATOBE, Shingo; SONODA, Motohiro; OGAWA, Akiya (Osaka Prefecture Univ.)
- 1B08** Study on the Thermal Back Reaction of Diffusion-Inhibited HABI
HATANO, Sayaka; ABE, Jiro (Aoyama Gakuin Univ.)
- 1B09** Generation and Reactivity of Triplet Diphenylcarbene Protected by Bromine and Iodine Groups
HIRAI, Katsuyuki; BESSHO, Kana; KITAGAWA, Toshikazu; TOMIOKA, Hideo (Mie Univ., Aich Inst. of Tech.)

15:00–18:00

- 1B10** Process Intensification in a Microreaction System Optimized for Photoreactions
MATSUSHITA, Yoshihisa; USAMI, Naoki; SATO, Yuriko; SUZUKI, Tadashi; ICHIMURA, Teijiro (Tokyo Institute of Technology)
- 1B11** Photophysical Properties and Photocycloadditions with Alkenes of Naphthamides and Naphthalendicarboxamides
TSUKAMOTO, Tsuyoshi; MATSUBAYASHI, Kazuhiko; SHIRATORI, Hideo; KUBO, Yasuo (Faculty of Science and Engineering, Shimane Univ.)
- 1B12** Structure and Reaction Behavior of Tetraene Intermediates Derived from [3+2]-Photocycloadditions of Aromatic Esters with Alkenes
MATSUYAMA, Kotoe; SHIRATORI, Hideo; KUBO, Yasuo (Faculty of Science and Engineering, Shimane Univ.)
- 1B13** Study on the Regioselectivity and Stereoselectivity in the Paterno-Büchi Reaction of Cyclic Furyl Alcohols
YABUNO, Youhei; HIRAGA, Yoshikazu; ABE, Manabu (Hiroshima Univ.)
- 1B14** Crystalline-State [2+2] Photodimerization and Photopolymerization of Fluorinated Diphenylhexatrienes
SONODA, Yoriko; GOTO, Midori; TSUZUKI, Seiji; AKIYAMA, Haruhisa; TAMAOKI, Nobuyuki (National Institute of Advanced Industrial Science and Technology (AIST))
- 1B15** Self-Assembly and Photoreactivity of 2,7-Disubstituted Anthracene Derivatives
NAKANO, Masahiro; ICHIHARA, Masahiro; OHTA, Kazuchika; TAKAGUCHI, Yutaka (Okayama Univ., Shinshu Univ.)
- 1B16** Wavelength-Dependent Photochirogenesis

SAITO, Hirotsuke; YONEDA, Daisuke; WADA, Takehiko; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa (Osaka Univ.)

1B17 Absolute Asymmetric Photocyclization of Triisopropylbenzophenone Derivative in Crystals and the Shape Changes

KOSHIMA, Hideko; FUKANO, Michitaro; OJIMA, Naoko; SHIRO, Motoo (Ehime Univ., Rigaku)

1B18 Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylic Acid using a Chiral Hydrogen-bonding Template

KAWANAMI, Yuko; MIZOGUCHI, Jyunichi; FUKUHARA, Gaku; YANG, Chen; MORI, Tadashi; WADA, Takehiko; PACE, Tamara C. S.; BOHNE, Cornelia; INOUE, Yoshihisa (Graduate School of Engineering, Osaka Univ., Nagase ChemteX, IMRAM, Tohoku Univ., University of Victoria)

Room C

9:00–12:00

1C01 $[M(\text{bpy})_3]^{2+}$ (M = Ru, Os) on DS- and DX-DNA via Zinc Finger Motifs. Photochemical Behavior of the Composites.

YAMAMURA, Takeshi; SATOU, Takumi; SASAKI, Kiyomi; SAKAMOTO Ryouta; ISHIDA, Hitoshi; OOISHI, Shigeo; ONODA Akira (Tokyo Univ. of Sci., Kitazato Univ., Osaka Univ.)

1C02 Fluorescence Property of Pyrene Array Assembled via RNA Duplex Formation

NAKAMURA, Mitsunobu; MURAKAMI, Yohei; YAMANA, Kazushige (Univ. Hyogo)

1C03 Single-Molecule View of DNA-Protein Interaction

HABUCHI, Satoshi; WALTER, Johannes C; VAN OIJEN, Antoine M. (Harvard Medical School, Tokyo Institute of Technology)

1C04 Mechanism of Photochemically Induced Crystallization of Protein

OKUTSU, Tetsuo; HARUTA Susumu; KUROIWA, Takashi; TAGUCHI, Tohru; KURIMOTO, Shigeru; HIRATSUKA, Hiroshi (Gunma Univ.)

1C05 Photoregulation of Helical Structures in Short Peptides Cross-Linked with Diarylethene

KAWAI, Hirokazu; FUJIMOTO, Kazuhisa; INOUE, Masahiko (Graduate School of Pharmaceutibal Sciences, Univ. of Toyama)

1C06 Sequence-Dependent Fluorescence Quenching of Doubly Thiazole Orange-Labeled DNA Oligonucleotides

IKEDA, Shuji; OKAMOTO, Akimitsu (Advanced Science Institute, RIKEN)

1C07 Interstrand Photocrosslinking for Sensitive Assays in the Diagnostic Detection of DNA Sequences

YOSHIMURA, Yoshinaga; OHTAKE Tomoko; MATSUZAKI Tomoya; FUJIMOTO Kenzo (JAIST, JST)

1C08 *Peptide Origami*: Synthesis, Structure and Cell-Penetrating Ability of Artificial Phosphorescent Proteins Bearing a Ruthenium Complex as a Core

ISHIDA, Hitoshi; TAKASUGI, Yuya; ITO, Michihiko; KODERA, Yoshio; MAEDA, Tadakazu; OISHI, Shigero (Kitasato Univ.)

1C09 Anthocyanin Expression of Etiolated Buckwheat Seedlings Caused by Response to Blue Light Signals

KOJIMA, Masanobu; SOMENO, Mitsuru; FUJII, Hiroshi (Shinshu Univ.)

15:00–18:00

1C10 Probing the Effect of Carotenoid Pigments in Antenna LH1 Complex from Purple Photosynthetic Bacterium

NAKAGAWA, Katsunori; NAKANO, Tsubasa; FUKUI, Naomi; DEWA, Takehisa; NANGO, Mamoru (Nagoya Inst. of Tech., CREST/JST, Osaka City Univ.)

1C11 Photo-oxidation of Folic Acid Analogues and Its Application in Fluorometry of Singlet Oxygen

HIRAKAWA, Kazutaka (Shizuoka Univ.)

1C12 Temperature-Dependent Oligomeric State and Photo-Induced Reaction Dynamics of BLUF Protein YcgF

NAKASONE, Yusuke; ONO, Takaaki; ISHII, Asako; MASUDA, Shinji; TERAZIMA, Masahide (Department of Science, Kyoto Univ.)

1C13 Time-Resolved ESR Study on Photoinduced Electron Transfer of KatG-2,6-anthraquinone Disulfonate Complex

KUCHIKATA, Masato; MURAI, Hisao; YOSHIMATSU, Katsuhiko; FUJIWARA, Taketomo; KOBORI, Yasuhiro (Shizuoka Univ.)

1C14 Photon-to-current Conversion with Chloroplast Immobilized TiO₂ Electrode

AMAQ, Yutaka; KUROKI, Ayumi (Oita Univ.)

- 1C15** Photochemical Detoxification of Inorganic Arsenic. Effect of Photo-irradiation on Methyl Group Transfer Reaction Mediated by Vitamin B₁₂ Derivatives
NAKAMURA, Koichiro; HISAEDA, Yoshio; YAMAUCHI, Hiroshi (Nippon Sheet Glass Co., Ltd., Kyusyu Univ., Kitasato Univ.)
- 1C16** Photo-Induced Electron Transfer and the Photo-Current in the Porphyrin-Linked Carbon Nanotubes
ARAI, Toru; NOBUKUNI, Shingo (Fac Eng, Kyushu Inst Tech)
- 1C17** Formation and Reactivity of Manganese (V)-Oxo Porphyrins in Photocatalytic Electron-Transfer Oxidation of Water-Soluble Manganese (III) Porphyrins
KOTANI, Hiroaki; SUENOBU, Tomoyoshi; LEE, Yong-Min; NAM, Wanwoo; FUKUZUMI, Shunichi (Osaka Univ., SORST, Ewha Womans Univ.)
- 1C18** Compact Execution of the Barton Reaction Using Micro-Flow Reactor
SUGIMOTO, Atsushi; FUKUYAMA, Takahide; RYU, Ilhyong (Shionogi & Co., Ltd., Osaka Prefecture Univ.)

Room D

9:00–12:00

- 1D01** Thermoresponsive Photochromic Property of Spiropyran-Conjugated Polymer
SHIRAIISHI, Yasuhiro; MIYAMOTO, Ryo; HIRAI, Takayuki (Research Center for Solar Energy Chemistry, Osaka Univ.)
- 1D02** Photomechanical Function of Salicylideneaniline Crystals
KOSHIMA, Hideko; TAKECHI, Kyoko; OJIMA, Naoko; MIYOSHI, Saya (Ehime Univ.)
- 1D03** Manipulation of Photomagnetic Effects at Au-S Interfaces by Photochromes
SUDA, Masayuki; SUZUKI, Motohiro; KAWAMURA, Naomi; EINAGA, Yasuaki (KEIO Univ., SPring-8/JASRI)
- 1D04** Surface Relief Formation Based on Photoinduced Transfer of Polystyrene
UBUKATA, Takashi; MORIYA, Yusuke; YOKOYAMA, Yasushi (Yokohama National Univ.)
- 1D05** Photoinduced Surface Relief Grating Formation on a (100) Surface of a Single Crystal of 4-(dimethylamino)azobenzene
NAKANO, Hideyuki (Osaka Univ.)
- 1D06** Photo-induced Surface Morphology Changes of Diarylethene Coating Films
UCHIDA, Kingo; IZUMI, Norikazu; MINAMI, Takayuki; NISHIKAWA, Naoki; MAYAMA, Hiroyuki; TSUJIOKA, Tsuyoshi; TSUJII, Kaoru; NAKAMURA, Shinichiro; IRIE, Masahiro (Ryukoku Univ., Hokkaido Univ., Mitsubishi Chemical., Osaka Kyoiku Univ., Rikkyo Univ.)
- 1D07** Metal Deposition, Migration and Desorption on Amorphous Diarylethene Surfaces
TSUJIOKA, Tsuyoshi; SESUMI, Yusuke; IWAI, Yusuke; MATSUI, Ai; UCHIDA, Kingo; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro (Osaka Kyoiku Univ., Ryukoku Univ., Mitsubishi Chemical STRC)
- 1D08** Conductance Photoswitching of Diarylethene-Gold Nanoparticle Network in Nano-Gapped Electrode
YAMAGUCHI, Hidehiro; TERUI, Toshifumi; NOGUCHI, Yutaka; UEDA, Rieko; OTOMO, Akira; MATSUDA, Kenji (rad. School of Eng., Kyushu Univ.; Kobe Advanced ICT Research Center, NICT; Center of Frontier Science, Chiba Univ.)
- 1D09** C₂-Symmetric Diarylethenes with Chiral Substituents on Ring-Closing Carbon Atoms
 SHIOZAWA, Tatsuya; TANI, Yutaka; UBUKATA, Takashi; YOKOYAMA, Yasushi (Yokohama National Univ.)

15:00–18:00

- 1D10** Invisible Photochromism of S,S-dioxidized Diarylethenes and Fluorescence Switching based on Electron Transfer
FUKAMINATO, Tuyoshi; TANAKA, Masaaki; DOI, Takao; IRIE, Masahiro (Kyushu Univ., Rikkyo Univ.)
- 1D11** Photoinduced Bending of a Diarylethene Single Crystal
MORIMOTO, Masakazu; KUROKI, Lumi; IRIE, Masahiro (Rikkyo Univ., PRESTO, Kyushu Univ.)
- 1D12** Effect of Polymer on Single Photochromic Molecule Diarylethene
YOKOJIMA, Satoshi; FUJII, Yasutaka; TACHIKAWA, Masanori; SHEN, Jun-Wei; GAO, Qi; SHINODA, Keiko; KOBAYASHI, Takao; MURAKAMI, Akinori; YONEYAMA, Mitsuru; KANDA, Katsuya; EBISUZAKI, Toshikazu; NAKAMURA, Shinichiro; FUKAMINATO, Tuyoshi; IRIE,

Masahiro (Mitsubishi Chemical Group S&T R.Center, Yokohama-city Univ., Riken, Kyushu Univ., Rikkyo Univ.)

- 1D13** Morphology Control of Perfluoroalkyl Azobenzene Derivative/Layered Hexaniobate Hybrid Materials by Photo-irradiation
NABETANI, Yu; TAKAMURA, Hazuki; NAKAMURA, Yuka; SHIMADA, Tetsuya; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; TRYK, Donald A.; TONG, Zhiwei; INOUE Haruo (Tokyo Metropolitan Univ., SORST/JST)
- 1D14** c-Cyt-Mediated Electron Transfer Occurring at the Cell/Inorganic Solid Interfaces
NAKAMURA, Ryuhei; ISHII, Kazuyuki; HASHIMOTO, Kazuhito (the Univ. of Tokyo, JST/ERATO)
- 1D15** Memory Effect of Redox-Active Ru Complex Monolayer Film on an ITO Electrode
TERADA, Keiichi; KOBAYASHI, Katsuaki; HAGA, Masa-aki (Chuo Univ.)
- 1D16** Preparation and Fluorescent Resonance Energy Transfer of Coumarin/Cyanin Integrated Systems
FUJII, Kazuko; IYI, Nobuo (Nat'l Inst Materials Science)
- 1D17** Photophysical Properties of 4-Acetylbiphenyl into Silica Nanospaces
MOCHIZUKI, Dai; KATAOKA, Tomoharu; TSUKAHARA, Yasunori; YAMAUCHI, Tomohisa; KURODA, Kazuyuki; WADA Yuji (Tokyo institute of Teechnology, Osaka Univ., Waseda Univ.)
- 1D18** Study on Photocatalytic Properties of Iron (II) Complex Immobilized within the Alkali Metal Cation-Exchanged Zeolite Y
KAGOHARA, Kento; MORI, Kohsuke; YAMASHITA, Hiromi (Osaka Univ.)

Friday, September 12

Room A

9:00–12:20

- 2A01** Controlled Photo-Synthesis of Individual Ag Nanoparticles Evaluated by Plasmon Resonance Bands
ITOH, Tamitake; YOSHIDA, Kenichi; BIJU, Vasudevanpillai; ISHIKAWA, Mitsuru; OZAKI, Yukihiro (AIST, Kwansai Gakuin Univ.)
- 2A02** Plasmonic Enhancement of Photochromic Reaction of Diarylethene by Gold and Silver Nanoparticles
ASAHI, Tsuyoshi; SHIBATA, Kunihiro; SATAKE, Kazuyasu, NISHI, Hiroyasu ;KOBATAKE, Seiya (Osaka Univ., Osaka City Univ.)
- 2A03** Application of Plasmon-Assisted Electric Field Enhancement in Self Assembled Monolayers on Metallic Electrodes
IKEDA, Katsuyoshi; UOSAKI, Kokei (Hokkaido Univ.)
- 2A04** Single-Molecule Tracking of Anisotropic Diffusion in Lipid Bilayer Spreading through Au Nanogates
TAKIMOTO, Baku; NABIKAWA, Hideki; MURAKOSHI, Kei (Hokkaido Univ.)
- 2A05** Studies on Two-photon Polymerization of Polydiacetylene LB Film and Its Two-photon Emission by Scanning Near-field Spectroscopic Microscope
SAKAMOTO, Akira; MORI, Kazuhiko; IMURA, Kohei; OKAMOTO, Hiromi (Saitama Univ., Institute for Molecular Science)
- 2A06** Geometry Dependence of Electron Transfer in a Ferrocene-Zinc Porphyrin-Fullerene Triad System
OHKUBO, Kei; KOTANI, Hiroaki; LEE, Sai H.; CROSSLEY, Maxwell J.; FUKUZUMI, Shunichi (Osaka Univ., SORST, JST, Univ. Sydney)
- 2A07** Relating Conformation and Photophysics in Single Molecules of Conjugated Polymers
VACHA, Martin; EBIHARA, Yohei; HABUCHI, Satoshi (Tokyo Institute of Technology)
- 2A08** Photon Antibunching Behavior of Single Conjugated Polymer Chains and Their Nanoparticles
MASUO, Sadahiro; TANAKA Tomoya; MACHIDA, Shinjiro; ITAYA, Akira (Kyoto Inst. Tech., JST PRESTO)
- 2A09** Two-dimensional Diffusion of Dye Molecules Adsorbed on a Glass Plate.
TAKIGUCHI, Ryuji; MITANI, Yoko; FUKUHARA, Kazuto; TSURUMI, Atsuko; NAITO, Yasuaki; KOTANI, Masahiro (Dept. Chemistry., Gakushuin Univ.)
- 2A10** Variations in the Photoluminescence Blinking of Single Quantum Dots
BIJU, Vasudevanpillai; MATSUMOTO, Yusuke; ITOH, Tamitake; ISHIKAWA, Mitsuru (AIST and Kagawa Univ.)

Room B

9:00–12:20

- 2B01** Self-assembling of Cholesterol-appended Benzothiadiazole Fluorescent Dyes
ISHI-I Tsutomu; NAKAMURA Nozomi; ESAKI Naoyuki (Kurume National College of Technology)
- 2B02** Synthesis and Function of Photo Induced Redox Systems based on Porphyrin Acceptor
AMAYA, Toru; SHIMIZU, Yasutomo; YAKUSHI, Yasuhide; SEKI, Shu; TAGAWA, Seiichi; HIRAO, Toshikazu (Graduate School of Engineering, Osaka Univ., The Institute of Scientific and Industrial Research, Osaka Univ.)
- 2B03** A New Type of Water-soluble Porphyrins Derived from Tetraphenylporphyrinatoantimony Complexes
MATSUMOTO, Jin; SHIRAGAMI, Tsutomu; YASUDA, Masahide (Univ. Miyazaki)
- 2B04** Light Stabilizing Mechanism of 4,4'-Bipyridinium for Dye of Optical Disks
TANABE, Mamoru; YOKOYAMA, Hiroshi; MIYASHITA, Yousuke (FUJIFILM Corporation)
- 2B05** Mechanistic Study of Peroxyoxalate Chemiluminescence and Application to Metal Ion Sensing
MOTOYOSHIYA, Jiro; OYA, Noriyuki; FUJIE, Yasuyuki; KOIKE, Ryu; NISHII, Yoshinori (Shinshu Univ.)
- 2B06** Imidazopyrazinones for High-Performance Chemiluminescence: a Substituent Effect of π -Conjugation with Oligothiophenes
HIRANO, Takashi; AKIYAMA, Seiji; MAKI, Shojiro; NIWA, Haruki (Univ. of Electro-Communications)
- 2B07** Molecular Design, Synthesis and Photophysical Properties of Novel Heteropolycyclic Oxazole-type

Fluorescent Dyes

- 2B08** Photoinduced Energy Transfer from Dispersant Polymer to Single-Walled Carbon Nanotubes which Exhibit Emission Enhancement
HINO, Toshihiko; TANIGAMI, Takuya; YOSIDA, Katsuhira (Kochi Univ.)
- 2B09** Two-photon Absorbing Benzothiadiazole Fluorescent Dyes having Photo-releasing Quenchers
UMEYAMA, Tomokazu; KADOTA, Naoki; MATANO, Yoshihiro; IMAHORI, Hiroshi. (Kyoto Univ.)
- 2B10** Emission Mechanisms of Fluorescent Semi-aromatic PIs Derived from a Perfluorinated Dianhydride under Very High Pressure
TAKIZAWA, Kazuhiro; AZAMI, Shohei ; WAKITA, Junji; ANDO Shinji (Tokyo Institute of Technology)

Room C

9:00–12:20

- 2C01** Novel Photoelectrochemical Cell with Mesoscopic Electrodes Sensitized by Lead-halide Compounds (10)
KOJIMA, Akihiro; TESHIMA, Kenjiro; SHIRAI, Yasuo; MIYASAKA, Tsutomu (Graduate School of Arts and Sciences, The Univ. of Tokyo, Graduate School of Engineering, Toin Univ. of Yokohama, Peccell Technologies, Inc., Graduate School of Engineering, Tokyo Polytechnic Univ.)
- 2C02** Dye sensitized Solar Cells Consisting of One Titania Layer Stained with Two Dyes Separately
INAKAZU, Fumi, SAKAGUCHI, Shohei, FUJITA, Yoshihisa, PANDEY, Shyam S., HAYASE, Shuzi (Kyushu Institute of Technology)
- 2C03** Development of Plastic Dye-Sensitized Solar Cell (15) Design for Transparent Cathode Catalysts
MIYASAKA, Tsutomu; IKEGAMI, Masashi; TESHIMA, Kenjiro; MIYOSHI, Kouzo. (Toin Univ. Yokohama, Peccell Technologies)
- 2C04** Fabricate the Hetero Structure of Silica Coated with Nanosheets, and Appraise Its Photoelectric Conversion Function.
SAITOU, Souhei; TAKAHASHI, Yoshimasa; EBINA, Yasuo; SASAKI, Takayoshi; HAGA, Masa-aki (Department of applied chemistry, Chuo Univ., National institute for materials science)
- 2C05** Dye-Sensitized Solar Cells Employing Acetylene-Linked Porphyrin Dimers
DY, Joanne Ting; TAMAKI, Koichi; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi (RCAST Univ. of Tokyo)
- 2C06** Superiority of Electron Transport in TiO₂ Nanotube Arrays-Based Dye-Sensitized Solar Cells
CHAREONSIRITHAVORN, Patcharee; OGOMI, Yuhei; SAGAWA, Takashi; HAYASE, Shuzi; YOSHIKAWA, Susumu (Kyoto Univ., Kyushu Institute of Technology)
- 2C07** Photo-induced Electron Transfer between Anionic Porphyrin and Viologens in Inorganic Hybrid Films
YUI, Tatsuto; KOBAYASHI, Yuka; YANO, Kazuhisa; TORIMOTO, Tsukasa; TAKAGI, Katsuhiko (KAST, Nagoya Univ., Toyota Central R&D Labs.)
- 2C08** Photoinduced Persistent Charge Separation and Hydrogen Evolution with Mesoporous Organo Silica
OHASHI, Masataka; YAMANAKA, Ken-ichi; NAKAJIMA, Kiyotaka; AOKI, Masao; TANI, Takao; INAGAKI, Shinji (Toyota Central R&D Labs., Inc.)
- 2C09** Photovoltaic Cells based on the Surface Complexes of TiO₂ with Organic Electron-acceptors
FUJISAWA, Jun-ichi; NAGATANI, Toshiyuki; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi (RCAST, The Univ. of Tokyo)
- 2C10** Photoelectrochemical Properties of Semiconductor Electrodes Modified with the Composite Clusters of Higher Fullerene and Single-Walled Carbon Nanotubes
TEZUKA, Noriyasu; UMEYAMA, Tomokazu; MATANO, Yoshihiro; IMAHORI, Hiroshi (Graduate School of Engineering, Kyoto Univ.)

Room D

9:00–12:20

- 2D01** Synthesis of Nano-Sized Metal and Alloy Catalysts by Photo-assisted Deposition Method
ARAKI, Takashi; MORI, Kousuke; KAMEGAWA, Takashi; YAMASHITA, Hiromi (Osaka Univ.)
- 2D02** Photoinduced Bond Formation on Titanate Nano-Sheet/Dye Hybrid Solids

- SASAI, Ryo; KUSUMOTO, Hiroki (Nagoya Univ.)
- 2D03** Preparation of the Visible Light Responsive *N*-doped WO₃ Photocatalyst
TAKEUCHI, Masato; SHIMIZU, Yukari; ANPO, Masakazu (Osaka Prefecture Univ.)
- 2D04** Photocatalytic Activity of Anatase Titanium (IV) Oxide Polyhedral Crystallites
AMANO, Fumiaki; YASUMOTO, Taikei; PRIETO MAHANEY, Orlando Omar; ABE, Ryu; OHTANI, Bunsho (Hokkaido Univ.)
- 2D05** Photocatalytic Reaction of Iodide-Doped TiO₂
TOJO, Sachiko; TACHIKAWA, Takashi; FUJITSUKA, Mamoru; MAJIMA, Tetsuro (ISIR Osaka Univ.)
- 2D06** Development of Highly Efficient Visible Light Driven Photocatalysts based on Tungsten Oxides
ABE, Ryu; TAKAMI, Hitoshi; OHTANI, Bunsho (Hokkaido Univ.)
- 2D07** Fabrication of Offset Printing Plate using TiO₂ Photocatalyst
NAKATA, Kazuya; NISHIMOTO, Shunsuke; KUBO, Atsushi; TANEICHI, Noriaki; OKUI, Toshiki; MURAKAMI, Taketoshi; KOMINE, Takashi; FUJISHIMA, Akira (KAST, TOK)
- 2D08** Guest-Dependent Magnetic and Photomagnetic Behaviors in Fe-Co Complex
YAMASAKI, Takahiro; SUN, Hao-Ling; KANEGAWA, Shinji; MATHUDA, Ryotro; SATO, Osamu (Kyushu Univ., Beijing Normal Univ., Kitagawa Integrated Pores Project)
- 2D09** Modulation of Electronically Excited States and Electronic Spectrum of Melem (2,5,8-triamino-tri-s-triazine). A Computational Study
SUGIMOTO, Manabu; HASEGAWA, Miki (Kumamoto Univ., Aoyama-Gakuin Univ.)
- 2D10** Structural Analyses of Polarized Emissive SAM of Ln (III) Complex
HASEGAWA, Miki; ISHII, Ayumi; OHTSU, Hideki (College of Science and Engineering, Aoyama Gakuin University)

Saturday, September 13

Room A

9:00–11:20

- 3A01** In-situ Spectroscopic Measurement of Laser Ablation-Induced Splitting and Agglomeration of Metal Nanoparticles in Solution
WERNER, Daniel; HASHIMOTO, Shuichi, TOMITA, Takuro; MATSUO, Shigeki (Univ. Tokushima)
- 3A02** Surface Enhanced Raman Scattering Spectroscopy by Using Laser Induced Self-Assembly of Silver Nanoparticles
YOSHIKAWA, Hiroyuki; TANAKA, Yoshito; YOKOYAMA, Motomi; HA, Minh Hiep; TAMIYA, Eiichi (Osaka Univ., JAIST)
- 3A03** Fluorescence Behavior of Excited Atoms Densely Generated during Cooling of Laser-Induced Micro-Plasma in Aqueous Solution of Alkaline Metal Salt
ICHINOSE, Nobuyuki; KITAMURA, Kenji; NAGAHARA, Tetsuhiko; NAKAYAMA, Toshihiro (Graduate School of Engineering and Design, Kyoto Institute of Technology)
- 3A04** Laser-induced Fabrication of Tris(2,2'-bipyridine) Ruthenium (II)-Viologen Linked Compounds on the Solid Substrates
TUN, Myint Thein; KURAWAKI, Junichi; TERASAKI, Nao; AKIYAMA, Tsuyoshi; YAMADA, Sunao (Kagoshima Univ., Kyushu Univ.)
- 3A05** Hydrogen Bond Breaking at the Initial Stage of Phase Separation Induced by a Picosecond Laser Pulse
KAJIMOTO, Shinji; SEONG, Nak-Hyun; FUKUMURA, Hiroshi; DLOTT, Dana D. (Tohoku Univ., Univ. of Illinois)
- 3A06** Crystal Growth Control of Glycine by Photon Pressure of a Focused Near-infrared Laser Beam
SUGIYAMA, Teruki; ADACHI, Takuji; MASUHARA, Hiroshi (Nara Institute of Science and Technology, National Chiao Tung University Taiwan)
- 3A07** Two-laser-guided Three-dimensional Microfabrication and Processing in Flexible Polymer Matrix
SAKAMOTO, Masanori; TACHIKAWA, Takashi; FUJITSUKA, Mamoru; MAJIMA, Tetsuro (Osaka Univ.)

14:40–16:00

- 3A08** Time-Resolved Photoelectron Imaging by Using Two-Color Sub-20fs Deep Ultraviolet Pulses
HORIO, Takuya; FUJI, Takao; SUZUKI, Toshinori (RIKEN)
- 3A09** Chirped Molecular Vibration in a Stilbene Derivative
KOBAYASHI, Takayoshi; COLONNA, Anne; YABUSHITA, Atushi; IWAKURA, Izumi (Univ. of Electro-Communications, National Chiao-Tung Univ., Osaka Univ., ICORP/JST, Ecole Polytechnique)
- 3A10** Detection of OH Radicals Diffused from the Surface Modified TiO₂ Photocatalysts Using the Laser-Induced Fluorescence Technique
MURAKAMI, Yoshinori; OHTA, Ikki; HIRAKAWA, Tsutomu; NOSAKA, Yoshio (Nagaoka University of Technology, AIST)
- 3A11** Primary Process of Photochemical Reaction of TiO₂ Studied by Time-Resolved Microwave Conductivity Technique
KATO, Ryuzi; HARA, Kohjiro; FURUBE, Akihiro (AIST)

Room B

9:00–11:20

- 3B01** Development of Proton-Transfer Laser Dyes with Multi Functions
SAKAI, Ken-ichi; OKADA, Takenori; TAKAHASHI, Sami; ISHIKAWA, Harumi; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi; NAGASHIMA, Umpei (CIST, RIES, AIST)
- 3B02** Dependency of the MFE in the OLED on Energization Time
OKIMI, Hiroshi; SAKAGUCHI, Yoshio (RIKEN, Tokyo Institute of Technology)
- 3B03** Rainbow Zeolite: Photoluminescence of RGB-colored light from Single Nano-sized Zeolite Crystallite
TSUKAHARA, Yasunori; SATO, Mutsuko; WADA, Yuji (Graduate School of Engineering Osaka Univ.,

Graduate School of Science and Engineering Tokyo Institute of Technology)

- 3B04** Fluorescence Dynamics of Mesoporous Organosilica Hybrids with Biphenylene and Naphthylene Bridging Units
MIZOSHITA, Norihiro; YAMANAKA, Ken-ichi; GOTO, Yasutomu; TANI, Takao; INAGAKI, Shinji (Toyota Central R&D Labs., Inc, JST-CREST)
- 3B05** Photophysics of Cyclometalated Iridium (III) Complexes in Solution: Effects of Substitution on Emissive Wavelength
YOSHIHARA, Toshitada; SUGIYAMA, Yoko; TOBITA, Seiji (Gunma Univ.)
- 3B06** Synthesis and Photophysical Properties of Emissive Boron Complexes of Anthraquinoid-type Dyes
UENO, Tomonori; YONEMURA, Toshiaki; YOSHIDA, Katsuhira (Kochi Univ.)
- 3B07** Effect of Interligand Interaction on Luminescence in Iridium (III) Complexes Bearing both Tridentate and Bidentate Ligands
ITABASHI, Masumi; ASHIZAWA, Misa; NOZAKI, Kouichi; HAGA, Masa-aki (Chuo Univ, Univ of Toyama)

14:40–16:00

- 3B08** Reddish-Orange Fluorescent Emission Generated by UV-irradiation Through Intramolecular Proton Transfer at the Termini of Polyimide Copolymers
WAKITA, Junji; ANDO, Shinji (Tokyo Institute of Technology)
- 3B09** Switching of Organic Solid-State ESIP LUMINESCENCE based on Heat-Mode Conversion between Polymorphs
MUTAI, Toshiki; TOMODA, Haruhiko; OHKAWA, Tatsuya; YABE, Yuji; ARAKI, Koji (Institute of Industrial Science, the University of Tokyo)
- 3B10** Fluorescence Properties of Nitrobenzylbenzimidazoles Cocrystals
AMIMOTO, Kiichi; HASHIGUCHI, Daisuke; KAWATO, Toshio (Hiroshima Univ., Kyushu Univ.)
- 3B11** Integration Recording System of Mechanoluminescence from Europium-Doped SrAl₂O₄ by Using Photo Sensitive Material
TERASAKI, Nao; KAWAHARA, Hiromi; XU, Chao-Nan (National Institute of Advanced Industrial Science and Technology, JST-CREST)

Room C

9:00–11:20

- 3C01** Photo-Induced Dimerization for a Pt (II) Complex with a π -Conjugated Hydrazone Ligand
HORIKI, Hiroyuki; TANAKA, Kie; NAKAJIMA, Kiyohiko; YAMASAKI, Mikio; KOBAYASHI, Atsushi; TSUGE, Kiyoshi; KATO, Masako (Hokkaido Univ., Aichi Univ. of Education, Rigaku Corporation, Osaka Univ.)
- 3C02** Quenching of Ruthenium Complex in an Ethanol Solution of Nafion
SHIOYAMA, Hiroshi (National Institute of Advanced Industrial Science and Technology)
- 3C03** Direct Observation of Molecular Structural Change during Intersystem Crossing
IWAKURA, Izumi; KOBAYASHI, Takayoshi; YABUSHITA, Atushi (Univ. of Electro-Communications, National Chiao-Tung Univ., Osaka Univ., ICORP/JST)
- 3C04** Space-Selective Photoreactions of Spiropyran in Light-Scattering Media Dispersed with Ag Nanoparticles
MURAI, Shunsuke; HORIIKE, Shinya; FUJIMOTO Yutaka; FUJITA Koji; TANAKA, Katsuhisa (Kyoto Univ., PRESTO-JST)
- 3C05** Controlling Photophysical Properties of Metal Complexes by Intramolecular Aromatic Interaction
MORIMOTO, Tatsuki; ITO, Megumi; KOIKE, Kazuhide; ISHITANI, Osamu (Tokyo Tech., AIST, CREST/JST)
- 3C06** Photoelectrochemical Properties of ZnS-AgInS₂ Solid Solution Nanoparticle / ZnO Nanorod Hybrid Films
SASAMURA, Tetsuya; OKAZAKI, Ken-ichi; NAKAMURA, Motoshi; KUDO, Akihiko; KUWABATA, Susumu; TORIMOTO, Tsukasa (Nagoya Univ., Tokyo Univ. Sci., Osaka Univ.)
- 3C07** Electrochemiluminescence from Nano-spaces
TAKISHITA, Hiroshi, TANAKA Tomohito, HAYASE Shuzi, SAGAWA Takashi, YOSHIKAWA Susumu (Kyushu Institute of Tech., Kyoto Univ.)

14:40–16:00

- 3C08** Influence of an Interfacial Barrier Layer on the Efficiency of Quantum Dot Semiconductor Sensitized Solar Cells
TACHIBANA, Yasuhiro; UMEKITA, Kazuya; YOSHIMURA, Keisuke; KUWABATA, Susumu (Osaka Univ.)
- 3C09** Size-Dependent Auger and Inverse Auger Effects of CdTe Quantum Dots.
KOBAYASHI, Yoichi; PAN, Lingyun; TAMAI, Naoto (Kwansei Gakuin Univ.)
- 3C10** Syntheses and Properties of Step- π -Conjugated Polymers as Macromolecular-Wire
AOTA, Hiroyuki; AKIYAMA, Yusaku; DEGUCHI, Naoki; Suzuki, Shinya; KOMATSUBARA, Daisuke; MATSUMOTO, Akira (Kansai Univ.)
- 3C11** Formation of Fullerene Cation in Polymer Thin-Film Solar Cells
OHKITA, Hideo; YAMAMOTO, Shunsuke; GUO, Jiamo; ITO, Shinzaburo (Kyoto Univ.)

Room D**9:00–11:20**

- 3D01** The Crystal Structures and Solid-State Luminescent Modulations of the CT Complexes Composed of Ammonium Anthracene Disulfonate and TCNB.
NAKAJIMA, Hiromi; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji (Osaka Univ.)
- 3D02** Luminescent Modulation Depending on Guest Molecules in Inclusion Crystals of 9,10-Bisphenylanthracene Derivatives
TAMUGI, Akihiro; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji (Graduate School of Engineering, Osaka University)
- 3D03** Structural Control and Photodynamics of Porphyrin Nanoassemblies Prepared by Sonication Method
HASOBE, Taku; Oki, Hideaki; Sandanayaka, Atula S.D.; MURATA Hideyuki (JAIST, PRESTO, JST)
- 3D04** Photoalignment of Chromonic/Silica Nanohybrid
HARA, Mitsuo; NAGANO, Shusaku; SEKI, Takahiro (Nagoya University)
- 3D05** Environmentally-Benign Oxidative Photochemical Bleaching of Kraft Pulps
OUCHI, Akihiko (Natl. Inst. of Advanced Industrial Science and Technology (AIST))
- 3D06** Photocatalytic Properties of Organic Semiconductor p-n Junction System
NAGAI, Keiji; ABE, Toshiyuki; YASUDA, Yuzuri; ZHANG, Shuai (Osaka Univ, Hirosaki Univ.)
- 3D07** Sulfate Radical Anion-Induced Photochemical Decomposition of Fluorotelomer Unsaturated Carboxylic Acid in Water
HORI, Hisao; YAMAMOTO, Ari; KOIKE, Kazuhide; KUTSUNA, Shuzo; OSAKA, Issey; ARAKAWA, Ryuichi (National Institute of Advanced Industrial Science and Technology (AIST), Kansai University)

14:40–16:00

- 3D08** Structural Effect of Molecules on Molecular Filtering at Metal Nano-gate
NABIKA, Hideki; TAKIMOTO, Baku; IJIMA Naozumi; MURAKOSHI, Kei (Hokkaido Univ.)
- 3D09** Photochemical Properties of Quantum Dot Monoparticle Layer Accumulated on Self-assembled Metal Nanoparticles Film
OHNO, Yumi; OKAZAKI, Ken-ichi; UEMATSU, Taro; KUWABATA, Susumu; TORIMOTO, Tsukasa (Nagoya Univ., Osaka Univ.)
- 3D10** Memory Effect Controlled by Pulsed Voltages in Photoswitching of an Organic Conductor: Examination of Light-Control and Thermal Effects
IIMORI, Toshifumi; NAITO, Toshio; OHTA, Nobuhiro (Hokkaido Univ.)
- 3D11** Mechanism of Carrier Injection from Electrode to Organic Layer: Verification with Liquid Crystalline Organic Semiconductor
TANI, Tadaaki; TODA, Tohru; HANNA, Jun-ichi (Tokyo Inst. Tech., Fujifilm Corp.)