

Oral Session

Wednesday, September 12

[Room A] 9:40-12:00

- 1A01 Relaxation in thin polymer films mapped across the film thickness by astigmatic single-molecule imaging
(Tokyo Tech.) VACHA, Martin ; OBA, Tatsuya
- 1A02 Study on forbidden excitation of graphenes using localized photons
(Hokkaido Univ.) IKEDA, Katsuyoshi ; TAKASE, Mai ; MURAKOSHI, Kei
- 1A03 Impact of electron transfer on intraband dynamics in Au-CdSe nanorods
(Kwansei Gakuin Univ., Kyoto Univ.) SAGARZAZU, Gabriel ; INOUE, Kohki ; SARUYAMA, Masaki ; SAKAMOTO, Masanori ; TERANISHI, Toshiharu ; TAMAI, Naoto
- 1A04 Photochemical Enhancement of Quantum Dots Photoluminescence
(Kagawa Univ. , AIST, JST PRESTO) HAMADA, Morihiko ; TAKENOKOSHI, Norifumi ; MURASE, Norio ; NAKANISHI, Shunsuke ; BIJU, Vasudevanpillai
- 1A05 Emission behavior of a single quantum dot - gold nanoparticle system ~The AFM manipulation of gold nanoparticle~
(Kwansei Gakuin Univ.) KANETAKA, Keisuke ; MASUO, Sadahiro
- 1A06 Surface melting and laser-induced shape transformation of a single gold nanoparticle
(Univ. of Tokushima.) SETOURA, Kenji ; WERNER, Daniel ; HASHIMOTO, Shuichi ; HORIUCHI, Kana
- 1A07 Strong-coupling of localized plasmons and molecular excitons in metal nano-gap for Raman Enhancement
(Hokkaido Univ.) NAGASAWA, Fumika ; TAKASE, Mai ; MURAKOSHI, Kei

13:00-18:00

- 1A08 Gold and silver nanoparticles fabrication via multiphoton absorption of water induced by femtosecond laser
(Josai Univ., NCTU) UWADA, Takayuki ; WANG, Shun-Fa ; MASUHARA, Hiroshi
- 1A09 Photofabrication of monodisperse spherical gold nanoparticles with precise size regulation
(Univ. of Tokushima) HASHIMOTO, S ; WERNER, D
- 1A10 Exciton fission and interfacial charge transfer in rubrene/fullerene mixed film
(AIST, Tokyo Univ. of Sci., JST PRESTO, Nihon Univ.) FURUBE, Akihiro ; MITSUTA, Hiroki ; MIYADERA, Tetsuhiko ; YOSHIDA, Yuji ; KATOH, Ryuzi
- 1A11 Initial photo-excitation process of dye sensitizer studied by femtosecond vibrational spectroscopy

(NIMS, MANA, GREEN) NOGUCHI, Hidenori ; ITO, Mikio ; UOSAKI, Kohei

- 1A12 Experimental and numerical analysis of inhomogeneous electron injection dynamics in dye-sensitized solar cells
(Univ. of Tsukuba, AIST) SUNAHARA, Kenji ; MATSUZAKI, Hiroyuki ; FURUBE, Akihiro
- 1A13 Photo-induced reaction dynamics of perylene diimide molecules in cyclodextrin thin films revealed by single-molecule fluorescence spectroscopy
(Shizuoka Univ.) TAKAHASHI, Ryoya ; FUKUI, Hiroki ; MITSUI, Masaaki
- 1A14 Observation of new light emission during infrared laser-induced phase separation of binary liquid mixtures
(Tohoku Univ.) TOYOUCHI, Shuichi ; KAJIMOTO, Shinji ; FUKUMURA, Hiroshi
- 1A15 Geometry optimization of diarylethene derivatives on excited state with density functional theory; A factor determining the cycloreversion quantum yield
(Osaka Univ.) OKUNO, Katsuki ; SHIGETA, Yasuteru ; KISHI, Ryohei ; MIYASAKA, Hiroshi ; NAKANO, Masayoshi
- 1A16 The effect of the dipole moment of the solute molecules in ground state for solvation dynamics in ionic liquid
(Osaka Univ., JSPS) MURAMATSU, Masayasu ; MORISHIMA, Satoe ; ITO, Syoji ; NAGASAWA, Yutaka ; MIYASAKA, Hiroshi
- 1A17 Phase transition and relaxation dynamics of poly(N-isopropylacrylamide) aqueous solution under temperature control measured using the laser temperature jump transient grating method
(Chuo Univ.) INOUE, Hayato ; KUWAHARA, Shota ; KATAYAMA, Kenji
- 1A18 Reaction dynamics of excited ketoprofen with tryptophan and tyrosine
(Aoyama Gakuin Univ.) SHINODA, Mio ; ISOZAKI, Tasuku ; SUZUKI, Tadashi
- 1A19 Rotational Relaxation of Pyrene Derivatives in Reverse Micelles Revealed by Fluorescence Anisotropy Decay Measurements
(Kobe Univ.) IMASHIRO, Yuki ; IIMA, Yusuke ; AKIMOTO, Seiji ; TOMINAGA, Keisuke
- 1A20 Ring size dependence of two-photon absorption of cycloparaphenylenes
(AIST, Kwansei Gakuin Univ., Nagoya Univ.) KAMADA, Kenji ; NAMIKAWA, Tomotaka ; OHTA, Koji ; MATSUI, Katsuma ; SEGAWA, Yasutomo ; ITAMI, Kenichiro"
- 1A21 Development and Dynamical Characterizations of Photon Upconverters with Ionic Liquids
(Tokyo Tech.) MURAKAMI, Yoichi ; KIKUCHI, Hitomi ; KAWAI, Akio
- 1A22 Effects of Reactant Charges on Electron Transfer Reactions in Ionic Liquids
(Brookhaven National Laboratory) GOHDO, Masao ; WISHART, James

[Room B] 9:40-12:00

- 1B01 Excited State Dynamics of Planarized Triphenylboranes
(Nagoya Univ., Osaka Univ., JST-PRESTO, Hokkaido Univ.) KUSHIDA, Tomokatsu ; SHUTO, Ayumi ; KATAYAMA, Tetsuro ; ITO, Syoji ; MIYASAKA, Hiroshi ; SAKUDA, Eri ; KITAMURA, Noboru ; CAMACHO, Cristopher ; IRLE, Stephan ; ZHOU, Zhiguo ; WAKAMIYA, Atsushi ; YAMAGUCHI, Shigehiro
- 1B02 Substituent Effects on Emission Properties of Diaroylmethanatorboron Complexes
(Osaka Pref. Univ.) SAKAI, Atsushi ; TANAKA, Mirai ; OHTA, Eisuke ; YOSHIMOTO, Yuichi ; MIZUNO, Kazuhiko ; IKEDA, Hiroshi
- 1B03 Photophysical properties of p-extended oligo p-(phenylene) ketone
(Tokyo Tech.) NIKO, Yosuke ; KAWAUCHI, Susumu ; KONISHI, Gen-ichi
- 1B04 Aggregates Formation of Amphiphilic Stilbene Dendrimers and Their Photochemical Properties at Very Low Concentration in Water
(Univ. of Tsukuba) KATAOKA, Kayoko ; ARAI, Tatsuo
- 1B05 The initiation step of the photooxidation of polythiophene derivatives
(Tokyo Tech., AIST, Univ. of Tsukuba) AOYAMA, Yoshinori ; YAMANARI, Toshihiro ; MURAKAMI, Takuro ; NAGAMORI, Tatsuya ; MARUMOTO, Kazuhiro ; YOSHIDA, Yuji
- 1B06 Effect of Interactions between Azobenzene Molecules on the Photoswitchable Surface Nanostructure of Self-Assembled Monolayers
(Tokyo Tech.) ISHIKAWA, Daisuke ; HAN, Mina ; HARA, Masahiko
- 1B07 Photochemical Synthesis and OFET Properties of 2,3,9,10-tetraalkylpentacenes
(NAIST, Yamagata Univ., CREST JST) KATSUTA, Shuhei ; OHASHI, Chika ; NAKAYAMA, Ken-ichi ; YAMADA, Hiroko

13:00-18:00

- 1B08 Modulation of the chemiluminescence property of 2,6-diphenylimidazopyrazinones by substituent introduction
(Univ. of Electro Commun.) ISHII, Yuki ; MAKI, Shojiro ; NIWA, Haruki ; HIRANO, Takashi
- 1B09 Study of the energy transfer between fluorophores fixed within DNA duplex.
(Nagoya Univ., Univ. of Tokyo) KATO, Tomohiro ; KASHIDA, Hiromu ; KISHIDA, Hideo ; YADA, Hiroyuki ; OKAMOTO, Hiroshi ; ASANUMA, Hiroyuki
- 1B10 Elucidation of mechanism on photochemical decarboxylation by laser flash photolysis
(Univ. of Fukui, Kyoto Institute of Technology, Univ. of Toyama) NISHIKAWA, Keisuke ; YOSHIMI, Yasuharu ; ICHINOSE, Nobuyuki ; NAGAHARA, Tetsuhiko ; ITOU, Tatsuya
- 1B11 Diastereodifferentiating photocyclodimerization of 2-anthracenecarboxylate tethered to rigid glucose scaffolds
(Osaka Univ.) IIDA, Kazuhiro ; KAWANAMI, Yuko ; FUKUHARA, Gaku ; YANG,

Cheng ; MORI, Tadashi ; INOUE, Yoshihisa

- 1B12 Development of Integrated Chemical Reaction System for Controlling the Asymmetric Photoreactions
(NAIST) TERAO, Kimitada ; TACHIKAWA, Nobuya ; WAKAMA, Norimitsu ; SHIBATA, Mikiko ; NISHIYAMA, Yasuhiro ; TOKUDA, Takashi ; OHTA, Jun ; KAKIUCHI, Kiyomi
- 1B13 Development of the time-resolved CD system for detection of biomolecular dynamics (XII) ~ Study on the excited state dynamics of supramolecules ~
(Tohoku Univ.) MURAKAMI, Makoto ; HAMADA, Yoshiki ; ARAKI, Yasuyuki ; SAKAMOTO, Seiji ; WADA, Takehiko
- 1B14 Unique photochemical behavior of dyes on the clay surface and their energy transfer reaction
(Tokyo Metropolitan Univ.) TAKAGI, Shinsuke ; OTANI, Yuta ; HAGIWARA, Satomi ; ISHIDA, Yohei ; FUJIMURA, Takuya ; INOUE, Haruo ; SHIMADA, Tetsuya
- 1B15 LFP Study on Generation of Long-lived Singlet Biradicals and Their Reactivity
(Hiroshima Univ.) ABE, Manabu ; MISHIMA, Megumi ; FUJIWARA, Yoshihisa ; ISHIBASHI, Takaaki ; SEYAMA, Shin
- 1B16 A reaction with imidazolyl radical and molecular oxygen
(Aoyama Gakuin Univ., CREST) HATANO, Sayaka ; ABE, Jiro
- 1B17 Aqueous photo-living radical polymerization of methacrylates
(Toyohashi Univ. of Tech.) YOSHIDA, Eri
- 1B18 Three-component photoinitiating system for visible light radical polymerization
(Universite de Haute Alsace) KAWAMURA, Koichi ; ALLONAS, Xavier ; LEY, Christian ; BARNET, Maxime
- 1B19 Organic Reactions with Halomethane Photochemical Molecular Storages
(Kobe Univ.) KUWAHARA, Yuki ; ZHANG, Ailing ; TSUDA, Akihiko
- 1B20 Formation of *p,p'*-Dibenzene Framework by Photochemical Reaction of 2,11-Diaza[3.3]paracyclophanes
(Okayama Univ., Kyushu Univ.) OKAMOTO, Hideki ; OKABAYASHI, Zenji ; UEHARA, Hiroyuki ; ITOH, Satoshi ; SHINMYOZU, Teruo ; SATAKE, Kyosuke
- 1B21 Cross-photocyclization reaction between stilbene and bispyridylethylene in the stacked assembly of olefins
(Kanagawa Univ.) TAKAHASHI, Shunpei ; SHIBATA, Shoya ; ORISAKU, Keiko ; IWAKURA, Izumi ; KOIDE, Yoshihiro
- 1B22 Influence of Introduction of Electron-Withdrawing Groups into Methyl Group of *N*-Methyl-1,8-naphthalimide on Photoreactions with Dimethylthymine and Reaction Behavior of the Photoadducts
(Shimane Univ.) HIU, Takashi ; SHIRATORI, Hideo ; KUBO, Yasuo

[Room C] 9:40-12:00

- 1C01 Highly efficient photocatalytic reduction of CO₂ using supramolecular metal complexes
(Tokyo Tech., AIST, ALCA) TAMAKI, Yusuke ; KOIKE, Kazuhide ; ISHITANI, Osamu
- 1C02 Visible light induced CO₂ reduction by p-type semiconductor/metal complexes hybrid system
(Tokyo Metropolitan Univ.) KOU, Youki ; NAKATANI, Syougo ; NABETANI, Yu ; TACHIBANA, Hiroshi ; INOUE, Haruo
- 1C03 Application of a Polypyridyl Ruthenium(II) Complex Having an Arylborane Charge Transfer Unit to Photochemical Reactions
(Hokkaido Univ., JST-PRESTO, The Univ. of North Carolina at Chapel Hill) SAKUDA, Eri ; TANAKA, Mai ; ITO, Akitaka ; KITAMURA, Noboru
- 1C04 Acceleration Effect of Acids on Selective Formation of Hydrogen Peroxide in Photocatalytic Reduction of Dioxygen by Water as an Electron Source
(Osaka Univ., ALCA, JST) KATO, Satoshi ; SUENOBU, Tomoyoshi ; FUKUZUMI, Shunichi
- 1C05 Construction of Hydrogen Evolution and Water Oxidation Photocatalysts Using Ruthenium Tris(bipyridine) Complex-Bridged Mesoporous Organosilica
(Tokyo Tech, CREST/JST, ALCA/JST) TAKEDA, Hiroyuki ; OHASHI, Masataka ; TANI, Takao ; ISHITANI, Osamu ; INAGAKI, Shinji
- 1C06 Regulation of self-quenching behavior in clay/porphyrin complex towards an efficient light-harvesting system
(Tokyo Metropolitan Univ.) ISHIDA, Yohei ; SHIMADA, Tetsuya ; TACHIBANA, Hiroshi ; INOUE, Haruo ; TAKAGI, Shinsuke
- 1C07 Photoinduced Electron-Transfer Dynamics of a Porphyrin-Flavin-Ruthenium Ternary Complex
(Univ. of Tsukuba, Osaka Univ. , ALCA, JST) KOBAYASHI, Ryosuke ; ISHIZUKA, Tomoya ; OHKUBO, Kei ; KOTANI, Hiroaki ; FUKUZUMI, Shunichi ; KOJIMA, Takahiko

13:00-18:00

- 1C08 Optical Absorption and Fluorescence Properties of Novel Phthalimide Compounds forming Intramolecular Hydrogen Bondings.
(Tokyo Tech.) KANOSUE, Kenta ; SHIMOSAKA, Takamichi ; ANDO, Shinji
- 1C09 Fluorometric Cyanide Anion Detection in Aqueous Media with Spiropyran Derivatives
(Osaka Univ.) SUMIYA, Shigehiro ; SHIRAI, Yasuhiro ; HIRAI, Takayuki
- 1C10 Temperature-dependent luminescence of lanthanide coordination polymers with phosphine oxide ligands
(Hokkaido Univ.) MIYATA, Kohei ; NAKANISHI, Takayuki ; FUSHIMI, Koji ;

HASEGAWA, Yasuchika

- 1C11 Photoinduced electron transfer between ZnS-AgInS₂ solid solution fluorescent nanoparticles and redox species
(Osaka Univ., Nagoya Univ.) UEMATSU, Taro ; DOKO, Akihisa ; KAJI, Yusuke ; TORIMOTO, Tsukasa ; KUWABATA, Susumu
- 1C12 Phototoxicity of Engineered Nanoparticles on Human Lung Epithelial Cells
(Southern Univ., AIST, JST PRESTO) JONES, Philip ; SUGINO, Sakiko ; MURASE, Norio ; BIJU, Vasudevanpilla
- 1C13 Highly Controlled Plasmonic Enhanced Emission from Novel Metal-Quantum Dots Complex Nanostructures
(Tohoku Univ. IMRAM, Kwansei Gakuin Univ., Yamagata Univ.) NAIKI, Hiroyuki ; MASUO, Sadahiro ; MASUHARA, Akito ; ONODERA, Tsunenobu ; KASAI, Hitoshi ; OIKAWA, Hidetoshi
- 1C14 Development of Plasmonic Gold-Titania Photocatalysts Working under Visible-Light Irradiation
(Hokkaido Univ.) TAKASE, Mai ; YANG, Zhuo ; FUJITA, Chiharu ; OHTANI, Bunsho
- 1C15 Visible Light-Induced Aerobic Oxidation by Au nanoparticles Supported on Titanium Dioxide
(Osaka Univ.) SHIRAISHI, Yasuhiro ; TSUKAMOTO, Daijiro ; HIRAI, Takayuki
- 1C16 Effect of doped Metal ions on photocatalytic reaction of Fe(III) grafted TiO₂ studied by using ESR spectroscopy
(Nagaoka Univ. of Technology) NISHIKAWA, Masami ; TAKANAMI, Ryota ; NOSAKA, Yoshio
- 1C17 Preparation of hydroxyapatite-coated photocatalyst using photo-induced superhydrophilicity of TiO₂ and its application to water purification
(Gunma Univ., Asahi Chemical Industry Co., LTD.) SUGITA, Tsuyoshi ; MORI, Masanobu ; NAKANE, Hisashi ; MASE, Akinori ; ITABASHI, Hideyuki
- 1C18 Solar Water Splitting using Rh-doped SrTiO₃ Photocatalyst Electrode with p-type Semiconductor Property
(Tokyo Univ. of Science) IWASHINA, Katsuya ; JIA, Qing xin ; IWASE, Akihideo ; KUDO, Akihiko
- 1C19 Photo-induced Nanosheet Sliding of Azobenzene/niobate Hybrids
(Tokyo Metropolitan Univ.) NABETANI, Yu ; HAYASAKA, Yuika ; MATSUKURA, Shoichi ; TACHIBANA, Hiroshi ; INOUE, Haruo
- 1C20 Effect of terminal alkyl chain length on liquid crystallinity of triphenylene derivatives having six azobenzene mesogens
(Ryukoku Univ., AIST-Ubiquen) TANAKA, Daisuke ; SHIRASU, Tatsuya ; SHIMIZU, Yo ; UCHIDA, Kingo
- 1C21 Temperature-dependent Photochemical Properties of Photochromic Terarylenes

having Non-Covalent Interactions

(NAIST) FUKUMOTO, Sayo ; NAKASHIMA, Takuya ; KAWAI, Tsuyoshi

- 1C22 Extremely Low Threshold in a pi-Extended-Pyrene-Doped Distributed Feedback Cholesteric Liquid Crystal Laser
(Tokyo Tech.) KONISHI, Gen-ichi ; ARAOKA, Fumito ; TAKEZOE, Hideo

[Room D] 9:40-11:40

- 1D01 Photo-induced Electron Injection and Charge Recombination in Dye-sensitization Systems Controlled with {001} Facet of TiO₂
(Tokyo Tech.) MAITANI, Masato ; TANAKA, Keita ; SUZUKI, Kohe ; MOCHIZUKI, Dai ; SUZUKI, Eichi ; WADA, Yuji
- 1D02 Effect of TBP addition on carrier dynamics in dye-sensitized solar cells
(Chuo Univ., Univ. of Electro-Comm.) KUWAHARA, Shota ; HATA, Hiroaki ; MAEDA, Naotaka ; SHEN, Qing ; TOYODA, Taro ; KATAYAMA, Kenji
- 1D03 Wideband dye-sensitized solar cells using efficient spin-forbidden charge transfer transition
(RCAST, Univ. of Tokyo) KINOSHITA, Takumi ; DY, Joanne Ting ; FUJISAWA, Jun-ichi ; NAKAZAKI, Jotaro ; UCHIDA, Satoshi ; KUBO, Takaya ; SEGAWA, Hiroshi
- 1D04 Organic Solar Cells using Surface Complexes between TiO₂ and Thiophene-based TCNX Compounds
(RCAST, Univ. of Tokyo, JST PRESTO, RICOH) FUJISAWA, Jun-ichi ; NAGATA, Morio ; UCHIDA, Satoshi ; KUBO, Takaya ; SEGAWA, Hiroshi ; KAWAMURA, Ryo ; HORIUCHI, Tamotsu ; YASHIRO, Tohru
- 1D05 Charge Generation Dynamics in All-Polymer Solar Cells with Nanoscale Blend Morphology
(Kyoto Univ., JST PRESTO, Sumitomo Chemical Co., Ltd.) BENTEN, Hiroaki ; MORI, Daisuke ; OHKITA, Hideo ; ITO, Shinzaburo ; MIYAKE, Kunihito
- 1D06 Fabrication of Sexithiophene/Zr(IV) Hybrid Thin Films and Their Photofunctional Properties
(Toho Univ., Korea Univ., Niigata Univ.) KODAIRA, Akira ; HARADA, Takunori ; PAC, Chyongjin ; MORIYAMA, Hiroshi ; SAHARA, Go ; YUI, Tatsuto ; ISHITANI, Osamu