

## Poster Presentation: September 10 (Thu)

Odd number (12:40 - 13:30)

Even number (13:30 - 14:20)

【General Education Building, 3F】

- 2P001** Laser trapping and microspectroscopic analysis of pH change of single aerosol droplets (Hokkaido Univ.)  
A. Hori · A. Miura · N. Kitamura
- 2P002** Remarkable improvement of CdS-photoanode stability for solar water splitting (Chubu Univ.) A. Abdel Haleem · Z. Zahran · Y. Naruta
- 2P003** Visible Light Driven Water Splitting Using DSC-type Titania Electrodes Co-modified with a Catalyst (Chubu Univ.) S. Majumder · Z. Zahran · Y. Naruta
- 2P004** In-situ observation of BiVO<sub>4</sub> photocatalytic reactions using fluorescent probes (Kobe Univ.) T. Ochi · Y. Kobori · T. Tachikawa
- 2P005** Preparation of ring structures composed of gold nanoparticles to realize enhanced optical properties (Tokushima Univ.) Y. Osaka · S. Hashimoto
- 2P006** Solvent effects on photoinduced shape change of gold nanoparticles on an ITO substrate (Tohoku Univ.) T. Takahashi · T. Okamoto · S. Kajimoto · H. Hukumura
- 2P007** Phase separation dynamics of thermo-responsive polymers in aqueous solutions revealed with a transient photometry and a single molecule fluorescent imaging technique (Hokkaido Univ., Tokushima Univ., Osaka City Univ.) T. Tada · T. Hirano · K. Ute · N. Kitamura · T. Shoji · N. Kitamura
- 2P008** Laser trapping-controlled pseudopolymorphism of L-phenylalanine in D<sub>2</sub>O (Taiwan National Chiao Tung Univ., Taiwan National Applied Research Lab.) P. Hsieh · C. Wu · K. Yuyama · T. Sugiyama · H. Masuhara
- 2P009** Laser trapping assembling and structural coloration of nanoparticles studied by reflection microspectroscopy and imaging (Taiwan National Chiao Tung Univ., Taiwan National Applied Research Lab.) S. Wang · K. Yuyama · T. Sugiyama · H. Masuhara
- 2P010** In situ measurement of biotin-streptavidin association using plasmon-induced photocurrent generation (Hokkaido Univ.) J. Guo · K. Ueno · T. Oshikiri · H. Misawa
- 2P011** Femtosecond Laser-Induced Amyloid Formation of Insulin (Taiwan National Chiao Tung Univ., Kobe Univ., Taiwan National Applied Research Laboratories) T. Liu · K. Yuyama · M. Muramatsu · T. Hiramatsu · E. Chatani · T. Sugiyama · H. Masuhara
- 2P012** Plasmonic tuning of single gold nanoparticles by colloidal accretion through nanoscale heating (RheinMain Univ. of Applied Sciences, Tokushima Univ.) M. Enders · S. Mukai · S. Hashimoto
- 2P013** Development of a transient absorption measurement system with femtosecond double pulse excitation and its application to diarylethene derivatives (Osaka Univ.) H. Sotome · K. Une · Y. Yoneda · K. Setoura · T. Katayama · H. Miyasaka
- 2P014** Two-photon absorption properties and their excited state structure of D-A-D type diketopyrrolopyrroles (AIST, Kwansai Gakuin Univ., Ritsumeikan Univ., Polish Acad. of Sci., Warsaw Univ. of Tech.) K. Kamada · Y. Sakagami · A. Ando · A. Purc · K. Sobczyk · D. Gryko
- 2P015** Nanoparticle formation by nanosecond pulsed laser irradiation of perylene aqueous suspensions at various concentrations of Triton X-100 (Univ. of the Ryukyus) Y. Tamaki · M. Gibo · C. Nerome
- 2P016** Raman spectroscopic study of the activation energies of hydration of RSi(OMe)<sub>3</sub> (Hiroshima Univ.) T. Itoh
- 2P017** Dynamics of electronic excited state of TCNQ measured by pump-probe spectroscopy using visible sub-10 fs pulse laser (Kanagawa Univ, Taiwan National Chiao Tung Univ., RIKEN) S. Hashimoto · A. Yabusita · K. Okamura · I. Iwakura
- 2P018** Observation of photo-induced electron transfer for single gold nanoparticles (Tokushima Univ.) N. Kuroki · Y. Tezuka · S. Hashimoto
- 2P019** Rapid preparation of Au quantum dots encapsulated in protein by UV light irradiation (Josai Univ.) Y. Takenaka · S. Hashimoto · T. Uwada · M. Ishikawa
- 2P020** The excited energy transfer dynamics between the subunits of photosystem II (PSII) dimer (Osaka Univ. Ritsumeikan Univ., Okayama Univ.) Y. Yoneda · T. Katayama · Y. Nagasawa · H. Miyasaka · Y. Umena
- 2P021** Enhancement of emission quantum yield of Au quantum dots encapsulated in protein via energy transfer (Josai Univ.) T. Uwada · Y. Takenaka · M. Ishikawa

- 2P022** Plasmonic optical trapping of nanometer-sized fluorescence dye aggregates (Osaka City Univ., Univ. of Hyogo, Hokkaido Univ.) A. Mototsuji · T. Shoji · H. Yao · T. Yoshii · K. Murakoshi · Y. Tsuboi
- 2P023** Size-Dependent Properties of Triplet-Excited [n]Cycloparaphenylenes (n = 8 – 12) (Osaka Univ., Kyoto Univ.) M. Fujitsuka · C. Lu · T. Iwamoto · E. Kayahara · S. Yamago · T. Majima
- 2P024** Evaluation and Control of Oxidation Potential for Plasmon-Induced Charge Separation (Institute of Industrial Science, The Univ. of Tokyo) H. Nishi · T. Tatsuma
- 2P025** Photoconversion of Pentacenediketone Derivatives in the Crystalline Phase -Shape Change of a Single Crystal during the Photocconversion- (Kwansei Gakuin Univ., Nara Inst. Sci. Tech.) Y. Miyamoto · M. Suzuki · N. Aratami · H. Yamada · S. Masuo
- 2P026** Photoelectric properties of DNA based multichromophore arrays (Univ. of Hyogo) A. Jomura · M. Nakamura · T. Takada · K. Yamana
- 2P027** Plasmon-based chromatography for DNA (Osaka City Univ., Hokkaido Univ.) K. Ito · T. Shoji · T. Yoshii · K. Murakoshi · Y. Tsuboi
- 2P028** Single particle spectroscopy study on the movement of colloids triggered by the laser-heating of gold nanoparticle (Tokushima Univ., Osaka Univ.) S. Mukai · K. Setoura · S. Hashimoto
- 2P029** Effect of pulsed-laser irradiation on the photoluminescence property of porous silicon (Tokushima Univ., Gunma Univ.) T. Inada · S. Hashimoto · T. Nakamura
- 2P030** Excitation wavelength and concentration dependences on photocycloaddition of trans-stilbene to fumarate ester in a microreactor (Aoyama Gakuin Univ., Osaka Univ.) M. Yoshimura · T. Isozaki · T. Mori · Y. Inoue · T. Suzuki
- 2P031** The self-fluorescence quenching reactions on the clay surface originating in the mobility of dyes (Tokyo Metropolitan Univ., JSPS) N. Morita · Y. Ohtani · T. Shimada · S. Takagi
- 2P032** The effect of number of the amino-substituent on the acid-responsive photosensitization efficiency of singlet oxygen (Gunma Univ.) A. Hirabara · H. Horiuchi · R. Kuribara · T. Okutsu
- 2P033** Mechanism of the activation of the photosensitizer by sonication (Gunma Univ.,) M. Higuchi · H. Horiuchi · T. Okutsu
- 2P034** “Excited State C–C Bond Cleavage–Emission” Phenomenon of Cyclopropane Derivatives Possessing a Benzophenone Moiety (Osaka Pref. Univ.) T. Oishi · Y. Matsui · E. Ohta · H. Ikeda
- 2P035** Photochemical NO release from nitroanthracene and nitronaphthalene derivatives in solutions and in low-temperature matrices (Kitasato Univ.) K. Ogura · H. Inui · K. Ushida
- 2P036** Biradical Formation and Photomechanical Bending of Diisopropylbenzophenone Crystals (Waseda Univ., Ehime Univ.) Y. Hagiwara · M. Kitajima · H. Koshima · T. Asahi
- 2P037** Effect of Addition of Serum Albumin on Visible-Light Sterilization with Multivalent Cationic Phosphorous Porphyrin Complex (Univ. of Miyazaki) H. Kanemaru · Y. Kai · J. Matsumoto · T. Shiragami · M. Yasuda
- 2P038** Cyclodimerization Reactions of Dimethylenecyclopentane Derivatives under Photoinduced Electron-Transfer Conditions (Osaka Pref. Univ.) K. Tsuchida · Y. Matsui · E. Ohta · Y. Kano · H. Ikeda
- 2P039** Spectroscopic properties of firefly-type fluorophores with donor and acceptor moieties (The Univ. of Electro-Communications) T. Fujikawa · S. Maki · T. Hirano
- 2P040** Synthesis of 20-Substituted Bacteriochlorophyll-c/d Analogs and Their Self-aggregation (Ritsumeikan Univ.) A. Wada · H. Tamiaki
- 2P041** Formation of Surface Relief Using Light and Steam on Diacetylene Films (Yokohama National Univ.) Y. Iwamoto · T. Ubukata
- 2P042** Temperature-dependent self-assembly of chlorophyll derivatives in a lipid bilayer (Ryukoku Univ.) T. Miyatake · S. Nakayama · N. Nishimura
- 2P043** Photoisomerization behavior of an azobenzene derivative with hydrogen-bonding groups in polymer films (Kyoto Institute of Technology) K. Teraoka · S. Machida · N. Ikeda
- 2P044** Self-assembly of zinc chlorophyll derivatives assisted by amphiphilic copolymers (Ryukoku Univ.) T. Miyatake · T. Oda · H. Oki
- 2P045** Phototriggered Surface Relief Formation on Mixed Film Composed of Organic Salt and Spirooxazine (Yokohama National Univ.) M. Ito · T. Ubukata
- 2P046** Generation and Observation of Nitrogen-Bridged Tetramethyleneethane Intermediates by Photoinduced Electron Transfer Reaction (Osaka Pref. Univ.) K. Aizawa · T. Hori · S. Sakaki · Y. Matsui · E. Ohta · H. Ikeda

- 2P047** Development of efficient newly photosensitizer for photodynamic therapy (Shibaura Institute of Technology, Showa Univ.) S. Yoshida · K. Imai · a. Nakamura
- 2P048** Synthesis and Unique Optical Properties of Ladder-type Imidazolium Liquid Crystal (Nagoya Inst. of Tech., Nagoya Univ., Chiba Univ., Hiroshima Univ.) K. Yamauchi · M. Hara · S. Nagano · T. Seki · H. Masu · K. Murakami · Y. Ohyama · J. Ohshita · K. Takagi
- 2P049** Substituent effect on the excited state properties of stilbene dendrimers having hydrophilic groups at the surface (Univ. of Tsukuba) H. Sakurai · T. Arai
- 2P050** Study on photo polymerization of 10,12-heptacosadiynoic acid nanocrystals (Ehime Univ., Tohoku Univ.) Y. Yamaoka · T. Onodera · H. Oikawa · T. Asahi
- 2P051** Solvatofluorochromism of aminobenzopyranoxanthene dye with spirolactone form (RIKEN · Okayama Univ., Hiroshima Univ., The Univ. of Tokyo) S. Kamino · M. Tanioka · A. Muranaka · Y. Ooyama · Y. Shirasaki · M. Uchiyama · S. Enomoto · D. Sawada
- 2P052** Synthesis and Photophysical Properties of Envisioned 1-, 3-, 6-, and 8-tetrasubstituted Pyrene Derivatives with Electron Donor and Acceptor (Tokyo Tech.) Y. Niko · G. Konishi
- 2P053** Development of an environmentally sensitive fluorescent nucleoside comprising a 8-aza-3,7-dideazaadenine skeleton and its applications to DNA probe (Nihon Univ.) A. Suzuki · M. Saito · Y. Saito
- 2P054** Photophysical properties of novel fluorescent nucleosides containing 7-naphthylated 8-aza-7-deazaadenine (Nihon Univ.) A. Suzuki · T. Yamauchi · Y. Saito
- 2P055** Synthesis and Photophysical Properties of Triarylboranes Having Tripentafluorophenylborane Core (Hokkaido Univ.) K. Takamura · A. Nakagawa · N. Kitamura
- 2P056** Synthesis, Conformation, and Fluorescence Properties of (1,8)Pyrenophanes (Kanazawa Univ.) M. Geshi · K. Hirose · H. Maeda · M. Segi
- 2P057** Control of Charge-Transfer Band Excitation on Paternò-Büchi Reaction of Donor-Acceptor System (Osaka Univ.) K. Nagasaki · T. Mori · G. Fukuhara · Y. Inoue
- 2P058** Photo-Fries and Photo-Claisen Rearrangement of Pyrene Derivatives (Kanazawa Univ.) S. Nakamura · T. Akai · H. Maeda · M. Segi
- 2P059** Adsorption Modes of porphyrins on Semiconductor and Photoreaction (Tokyo Metropolitan Univ.) S. Onuki · S. Mathew · F. Kuttassery · D. Yamamoto · Y. Nabetani · H. Tachibana · H. Inoue
- 2P060** pH-Responsive NIR Absorption and Photoacoustic Effect of  $\gamma$ -Thiolactone-based Quinoidal Dyes (Nagoya Univ.) H. Kawachi · T. Nakazaki · A. Fukazawa · M. Taki · M. Fushitani · A. Matsuda · A. Hishikawa · S. Yamaguchi
- 2P061** Crystallization-induced Phosphorescence of Diarylborinic Acid and its Anhydride (Osaka Pref. Univ.) A. Sakai · K. Nishimura · Y. Yasuyoshi · Y. Matsui · E. Ohta · H. Ikeda
- 2P062** Spectrally resolved photoblinking of polyfluorenes in different polymers matrices in relation to conformation dependent photophysical properties (Tokyo Inst. Tech.) D. Sharma · S. Hirata · M. Vacha
- 2P063** Laser trapping-induced crystallization of beta-cyclodextrin in its unsaturated solution (Taiwan National Chiao Tung Univ., Taiwan National Applied Research Lab., Osaka Univ.) C. Hsu · K. Yuyama · T. Sugiyama · Y. Inoue · H. Masuhara
- 2P064** Photoelectrochemical studies of Tin porphyrins as a potential candidate of the water oxidation catalyst (Tokyo Metropolitan Univ.) A. Thomas · D. Yamamoto · Y. Nabetani · S. Onuki · H. Tachibana · H. Inoue
- 2P065** Full transparent organic light-emitting diodes luminescence enhancement by using nanocomposite layer with spacer fabricated by using blading process (Chang Gung Univ., Academia Sinica, Hokkaido Univ.) K.-C. Liu · K. Hatanaka · Y. Matsuo · B. Liu · H.-Y. Huang · I. Subiyanto · E. -F. Chou · F. Masim
- 2P066** Exploring the use of supramolecular assemblies of aluminum porphyrin for water activation (Tokyo Metropolitan Univ.) S. Mathew · F. Kuttassery · D. Yamamoto · S. Onuki · Y. Nabetani · H. Tachibana · H. Inoue
- 2P067** Time resolved measurements of active oxygen species using laser-chemiluminescence spectroscopy (Nagaoka Natl. Col. of Tech.) Y. Murakami · T. Yamasaki
- 2P068** Photoinduced Ligand Substitution Reactions of N,C,S-Pincer Iron Complexes (Osaka City Univ.) T. Nakae · M. Hirotsu · I. Kinoshita · H. Nakajima
- 2P069** Photophysical properties of 1,4,5,8-tetraazaphenanthrene (Hokkaido Univ.) Y. Kanno · N. Kitamura
- 2P070** Dye Sensitized Luminescence of Self-Assembled Lanthanide Complexes in Aqueous Solutions (Osaka City Univ.) T. Sagami · H. Miyake · S. Shinoda

- 2P071** Development of a magneto-optical spectra measurement system and its application to nanoparticle study (Muroran Tech.) T. Iimori
- 2P072** Photocatalytic reduction of nitrate ions under visible light irradiation over metal oxide photocatalysts with valence bands formed by Sn<sub>2</sub> (Tokyo Univ. of Science) D. Matsumoto · A. Iwase · A. Kudo
- 2P073** Synthesis of novel dicationic pyrene derivative and photochemical properties on the clay surface (Niigata Univ.) D. Morimoto · K. Sato · K. Saito · M. Yagi · T. Yui
- 2P074** Examination of the reaction mechanism of CO<sub>2</sub> using ruthenium(II) complexes having arylborane units (Hokkaido Univ, Nagasaki Univ) N. Ishizaki · E. Sakuda · N. Kitamura
- 2P075** Ultrafast Spectroscopic Study of Carrier Dynamics in LaTiO<sub>2</sub>N and TaON Mixture Photocatalyst (AIST, Univ. of Tokyo, ARPChem, Tokushima Univ.) M. Dharmapura · S. Akiyama · A. Furube · H. Matsuzaki · K. Seki · Y. Suzuki · M. Liu · T. Hisatomi · T. Minegishi · T. Yamada
- 2P076** Molecular catalyst for water activation using ubiquitous silicon as metal center (Tokyo Metropolitan Univ.) S. Remello · T. Hirano · F. Kuttassery · D. Yamamoto · Y. Nabetani · S. Onuki · H. Tachibana · H. Inoue
- 2P077** Development of photoelectric conversion systems using fullerene-diamine adducts as electron acceptors (The Univ. of Shiga Prefecture) T. Akiyama · S. Banya · D. Izumoto · Y. Kumagawa · A. Suzuki · T. Oku
- 2P078** Control of Bending Behavior of Diarylethene Crystals upon UV Irradiation with Different Wavelength (Osaka City Univ.) D. Kitagawa · S. Kobatake
- 2P079** Preparation of Heterostructured ZnSe-AgInS<sub>2</sub> Quantum Dots and Their Photocatalytic Activity (Nagoya Univ., Osaka Univ.) M. Kishi · T. Kameyama · S. Kuwabata · T. Torimoto
- 2P080** Large Transmittance Change Induced by Exciton Accumulation under Weak Continuous Photoexcitation (Tokyo Inst. Tech.) S. Hirata · M. Vacha
- 2P081** Laser-shockwave chromatography of polysaccharides (Kyoto Institute of Technology) N. Ichinose · M. Okada · T. Nagahara
- 2P082** Effect of surfactant on the movement of proteins in solution by laser-induced shockwave (Kyoto Institute of Technology) N. Ichinose · K. Sihibahara · T. Nagahara
- 2P083** Aggregation-induced fluorescence and quenching of tetraphenylethylene (Kyoto Institute of Technology) N. Ichinose · T. Miwa · T. Nagahara
- 2P084** Aggregation-induced fluorescence and quenching of 2-aminobenzophenone (Kyoto Institute of Technology) N. Ichinose · K. Banba · T. Nagahara
- 2P085** Synthesis and optical property of ring compound using carbazole and ethylene (Univ. of Yamanashi) S. Tanaka · S. Inada · K. Simura · M. Tanaka · K. Ogawa
- 2P086** Effect of calcining condition on photocatalytic oxidation of water on bismuth tungstate prepared by coprecipitation method (Yamaguchi Univ.) Y. Hasegawa · Y. Nishimoto · K. Adachi · S. Yamazaki
- 2P087** The polymer chain length dependence of fluorescence property in the polymers having a fluorescent fluorene derivative at the end group (Osaka City Univ.) D. Kobayashi · S. Kobatake
- 2P088** Efficient Photochemical Recovery of Perrhenate from Water (Kanagawa Univ.) T. Otsu · H. Hori
- 2P089** Degradation of gaseous trichloroethylene on titanium dioxide modified with Copper (II) ion under visible light irradiation (Yamaguchi Univ.) K. Tashiro · K. Adachi · S. Yamazaki
- 2P090** The efficient fluorescence switching in the fluorescent photochromic copolymer bearing fluorene and diarylethene in side chains (Osaka City Univ.) T. Nakahama · S. Kobatake
- 2P091** Fast photochromism of radical complexes comprised of non-equivalent radicals (Aoyama Gakuin Univ., CREST) H. Yamashita · Y. Kobayashi · J. Abe
- 2P092** Photochromism of the Reversed Phenoxy-Imidazolyl Radical Complex (Aoyama Gakuin Univ., Aoyama Gakuin Univ., CREST) S. Toshimitsu · K. Mutoh · Y. Kobayashi · J. Abe
- 2P093** Amino-substituted spirothiopyran as an efficient initiator for aggregation control of gold nanoparticles (Osaka Univ.) H. Tanaka · Y. Shiraishi · T. Hirai
- 2P094** Photochromic reaction behavior of thiophene-S,S-dioxidized diarylethenes having benzofuryl groups (Osaka City Univ.) K. Tanaka · S. Kobatake
- 2P095** Fabrication of photoinduced functional films (Ryukoku Univ., Mitsubishi Belting Ltd., Asahikawa Medical Univ., Tokyo Univ. of Pharmacy and Life Sciences, RIKEN) R. Nishimura · N. Nishikawa · H. Mayama · S. Yokojima · S. Nakamura · K. Uchida
- 2P096** The Effect of Anchoring Position of Diarylethene Molecule to Gold Nanoparticles on the Switching Direction of Conductance (Kyoto Univ., JST-PRESTO) T. Toyama · K. Higashiguchi · T. Nakamura · K. Matsuda

- 2P097** Photoinduced Changes in Phase-separated Structures of Hybrid Films of Azobenzene-based Photochromic Amorphous Molecular Materials with Ionic Liquids (Muroran Inst. Tech.) T. Iwashita • H. Nakano
- 2P098** Synthesis of fluorescent diarylethene derivatives bearing ionic substituents (Rikkyo Univ.) S. Fujinami • Y. Takagi • M. Morimoto • M. Irie
- 2P099** Photochromism of Fluorescent Diarylethene Derivatives in Water (Rikkyo Univ.) T. Inatome • A. Yagi • M. Morimoto • M. Irie
- 2P100** Enhancement of hydrogen production from ammonia borane under visible light irradiation using Ce ions doped metal-organic framework (Osaka Univ., Kyoto Univ.) M. Wen • Y. Kuwahara • K. Mori • H. Yamashita
- 2P101** A sub-micron step closer to spatially resolving the magnetosensitivity of photochemically induced electron transfer reactions of flavins (The Univ. of Tokyo) L. Antill • J. Beardmore • J. Woodward