

September 8 (Thu)		
	Room A	Room B
8 : 30	Registration 8:30~	
Chair	K. Koike (AIST)	Y. Araki (Tohoku Univ.)
9 : 00	3A01 Design of visible-light-responsive metal-organic framework photocatalysts for their application to photocatalytic H <sub>2</sub> and O <sub>2</sub> evolution reactions (Osaka Pref. Univ. • Hokkaido Univ.) ○ Y. Horiuchi • Y. Kamata • T. Toyao • M. Matsuoka	3B01 Development of pH-activatable porphyrin derivatives for photodynamic therapy (Gunma Univ.) ○ H. Horiuchi • A. Hirabara • R. Kuribara • T. Okutsu
9 : 20	3A02 Photocatalytic water oxidation and reduction reactions driven by photosensitizer-immobilized nanoparticles (Hokkaido Univ.) S. Furugori • A. Kobayashi • M. Yoshida • M. Kato	3B02 Protein oxidation and cytotoxicity via photo-induced electron transfer by tetrakis(4-methoxyphenyl)porphyrin phosphorus(V) complexes (Shizuoka Univ. • Univ. of Shizuoka • National Inst. of Tech., Ube College • The Univ. Tokyo • Hamamatsu Univ. School of Medicine) ○ K. Hirakawa • D. Ouyang • Y. Ibuki • S. Hirohara • J. Nakazaki • H. Segawa • S. Okazaki
9 : 40	3A03 Photosensitized hydrogen evolution from water using (8,3) single-walled carbon nanotube/fullerodendron coaxial nanohybrids (Okayama Univ. • Yamaguchi Univ.) N. Murakami • T. Tajima • Y. Tango • H. Miyake • Y. Takaguchi	3B03 Visible light ATR absorption spectroscopy for high concentration porphyrin derivative in ionic liquids (Tokyo Tech) ○ Z. Fu • S. Yanagibashi • A. Satake • A. Kawai
Chair	Y. Kuramochi (Tokyo Univ. of Science)	K. Hirakawa (Shizuoka Univ.)
10 : 00	3A04 Non-noble-metal nanoparticle supported on metal-organic framework as an efficient catalyst for promoting H <sub>2</sub> production from ammonia borane under visible light irradiation (Osaka Univ. • SICB Kyoto Univ. • JST-PRESTO) ○ M. Wen • Y. Kuwahara • K. Mori • H. Yamashita	3B04 Single molecule spectroscopy of photosynthetic reaction center protein, photosystem I, at liquid N <sub>2</sub> temperature (Tohoku Univ. • Nagoya Univ.) ○ Y. Shibata • T. Du • R. Nagao • T. Noguchi • S. Jana
10 : 20	3A05 Origin of Rh valence state and La doping level dependent H <sub>2</sub> evolution efficiency in doped SrTiO <sub>3</sub> photocatalyst (AIST • Tokyo Univ. • ARPChem • Tokushima Univ.) ○ M. Dharmapura • H. Matsuzaki • Q. Wang • Y. Suzuki • K. Seki • T. Hisatomi • T. Yamada • A. Kudo • K. Domen • A. Furube	3B05 Self-mediated charge-recombination of long-lived photo-induced charge-separated states in triphenylamine-naphthalenediimide dyads (Univ. of Toyama • Osaka City Univ. • Osaka Univ.) ○ K. Kimoto • T. Horikoshi • S. Suzuki • M. Kozaki • K. Okada • M. Iwamura • K. Nozaki
10 : 40	3A06 Photoelectrochemical water splitting using organic dyes (Tokyo Metropolitan Univ.) ○ O. Suryani • Y. Mulyana • Y. Kubo	3B06 The influence of circular birefringence on the circular dichroism spectroscopy with elliptically polarized light (Tohoku Univ.) ○ Y. Araki • M. Kuronuma • T. Sato • S. Sakamoto • T. Wada

September 8 (Thu)			
	Room C	Room D	
	Registration 8:30~		
	Q. Shen (The Univ. of Electro-Communications)	M. Morimoto (Rikkyo Univ.)	Chair
	3C01 Trap states analysis of mesoporous titania and its effects on electron transfer in photoelectric conversion (The Univ. Tokyo • Hokkaido Univ. • Tokyo Tech) ○ M. Maitani • A. Nitta • K. Kashibuchi • H. Segawa • Y. Wada • B. Ohtani	3D01 Fluorescent properties of diarylethene derivatives having donor-acceptor structure (Yokohama National Univ.) ○ T. Nakagawa • S. Takeuchi • Y. Yokoyama	9 : 00
	3C02 Effects of bulky substituents of push-pull porphyrins on photovoltaic properties of dye-sensitized solar cells (Kyoto Univ.) ○ T. Higashino • K. Kawamoto • K. Sugiura • Y. Fujimori • Y. Tsuji • K. Kurotobi • H. Imahori	3D02 Polymorphic phase transition accompanying fluorescence color change of diarylethene crystals (Osaka City Univ. Aoyama Gakuin Univ. • Osaka Univ.) ○ D. Kitagawa • T. Nakahama • K. Mutoh • Y. Kobayashi • J. Abe • H. Sotome • S. Ito • H. Miyasaka • S. Kobatake	9 : 20
	3C03 Photovoltaic performances of dye-sensitized solar cells based on cyclic free-base porphyrin dimers bearing four 4-pyridyl groups and their inclusion complexes with fullerene C <sub>60</sub> (Hiroshima Univ. • Kyushu Univ.) ○ Y. Ooyama • K. Uenaka • T. Kamimura • S. Ozako • M. Kanda • T. Koide • F. Tani	3D03 Metal-species dependence of selective metal-vapor deposition/modulation on diarylethene surface (Osaka Kyoiku Univ.) ○ S. Matsumoto • T. Tsujioka	9 : 40
	Y. Ooyama (Hiroshima Univ.)	J. Abe (Aoyama Gakuin Univ.)	Chair
	3C04 Effect of Surface Coating of ZnSe-AgInSe <sub>2</sub> Quantum Dot Sensitized Solar Cells (Nagoya Univ. • Mikuni Color Ltd. • The Univ. Tokyo • Osaka Univ.) ○ H. Shibakawa • T. Kameyama • M. Kawaraya • H. Segawa • S. Kuwabata • T. Torimoto	3D04 Fluorescence Photoswitching of Photochromic Naphthopyran Derivatives Bearing a BODIPY Fluorophore (Yokohama National Univ.) ○ Y. Miyazawa • Y. Hiramoto • A. Kikuchi	10 : 00
	3C05 Photoinduced electron transfer dynamics from CdSe quantum dots to single crystal rutile TiO <sub>2</sub> : A basic study of quantum dot-sensitization system (Univ. Electro-Communication • Bunkoukeiki Co. Ltd. • Chuo Univ. • Kyoto Inst. Tech. • Kyushu Inst. Tech.) ○ T. Toyoda • W. Yindeesuk • K. Kamiyama • K. Katayama • H. Kobayashi • S. Hayase • Q. Shen	3D05 Elucidation of the photoswitching mechanism of semiconductor nanoparticle-photochromic molecule hybrid systems (Kwansei Gakuin Univ. • Rikkyo Univ.) ○ T. Katayama • K. Kinoshita • K. Uemoto • T. Okuhata • M. Morimoto • M. Irie • N. Tamai	10 : 20
	3C06 Charge generation dynamics in polymer solar cells with small photon energy loss (Kyoto Univ. • RIKENCEMS) ○ H. Ohkita • Y. Tamai • K. Kawashima • I. Osaka • K. Takimiya	3D06 Femtosecond transient absorption spectroscopy of aqueous diarylethene anocolloids (Ehime Univ. • Osaka Univ.) ○ Y. Ishibashi • S. Fujimura • K. Masuda • H. Miyasaka • T. Asahi	10 : 40

11 : 00	3A07 Organic and inorganic energy materials for light-powered hydrogen production from water (Tokyo Metropolitan Univ.) ○Y. Mulyana • Y. Kubo	3B07 Direct measurement of the propagation of the phase transition region in a liquid crystal induced by photochemical effect (Chuo Univ. • Toho Univ.) ○T. Sato • S. Kuwahara • W. Sohn • K. Katayama
11 : 25	Luncheon Symposium on Gender Equality and Young Researchers 11 : 25~12 : 50 【Room B】	
13 : 00	<p style="text-align: center;"><b>PL02 Plenary Lecture II (13:00-13:35)</b>  <b>The Japanese Photochemistry Association Lectureship Award (2016)</b>          Prof. Naoto Tamai (Kwansei Gakuin University)          “Photochemistry of noble metal and semiconductor nanoparticles          – Elementary relaxation processes and carrier transfer”          Chair : Osamu Ishitani (Tokyo Institute of Technology)</p> <p style="text-align: center;">【Room A】</p>	
Chair	M. Eguchi (NIMS)	T. Sato (Kyoto Univ.)
13 : 40	3A08 Identification of reaction intermediates for the photocatalytic conversion of CO <sub>2</sub> by H <sub>2</sub> O as an electron donor over Ag/ZnGa <sub>2</sub> O <sub>4</sub> /Ga <sub>2</sub> O <sub>3</sub> (Kyoto Univ.) ○K. Teramura • K. Hori • Y. Terao • Z. Huang • S. Iguchi • Z. Wang • H. Asakura • S. Hosokawa • T. Tanaka	3B08 A full-color emissive ESIPT fluorophore that changes color as a response to anion recognition (CIST • Tohoku Univ.) ○S. Tsuchiya • K. Yasuhara • K. Sakai • T. Akutagawa
14 : 00	3A09 Photocatalytic CO <sub>2</sub> Reduction Using Cu(I) Complex Photosensitizers with a Fe(II) Complex Catalyst (Tokyo Tech) ○H. Takeda • O. Ishitani	3B09 Evaluation of terahertz waves generated from organic electro-optic polymers by irradiating 1.5-micrometer-band pulsed light (NICT • Osaka Univ.) ○T. Kaji • T. Yamada • S. Saito • I. Morohashi • Y. Yoneda • Y. Tominari • I. Aoki • S. Tanaka • A. Otomo
14 : 20	3A10 Iridium(III) 1-Phenylisoquinoline Complexes as a Photosensitizer for Photocatalytic CO <sub>2</sub> Reduction (Tokyo Univ. of Science • Tokyo Tech) ○Y. Kuramochi • O. Ishitani	3B10 A time-resolved fluorescence study on star-shaped PFV polymers consisting of three branch chains – interaction between chains and with end functional groups (Gunma Univ. • Tokyo Metropolitan Univ.) ○M. Asano • M. Morita • T. Shinozuka • T. Shinozuka • K. Nomura
Chair	K. Teramura (Kyoto Univ.)	M. Asano (Gunma Univ.)
14 : 40	3A11 Development of a photoelectrochemical catalytic system for reduction of CO <sub>2</sub> with a cobalt chlorin-modified electrode in combination with oxidation of water (Osaka Univ. • Meijo Univ.) ○S. Aoi • K. Ohkubo • T. Suenobu • S. Fukuzumi	3B11 Theoretical analysis on magnetic field effects on singlet fission (Saitama Univ.) ○T. Yago • M. Waka

3C07 Geminant Charge Recombination at Donor/Acceptor Interface in Conjugated Polymer Films (Kyoto Univ.) ○H. Bente • K. Yamamoto • H. Ohkita • S. Ito	3D07 Temperature-Sensitive Luminescent Mechanochromism of Gold Isocyanide Complex (Hokkaido Univ.) ○T. Seki • K. Kobayashi • H. Ito	11 : 00
Luncheon Symposium on Gender Equality and Young Researchers 11 : 25~12 : 50 【Room B】		11 : 25
<p style="text-align: center;"><b>PL02 Plenary Lecture II (13:00-13:35)</b>  <b>The Japanese Photochemistry Association Lectureship Award (2016)</b>          Prof. Naoto Tamai (Kwansei Gakuin University)          “Photochemistry of noble metal and semiconductor nanoparticles          – Elementary relaxation processes and carrier transfer”          Chair : Osamu Ishitani (Tokyo Institute of Technology)</p> <p style="text-align: center;">【Room A】</p>		13 : 00
H. Ohkita (Kyoto Univ.)	A. Kikuchi (Yokohama National Univ.)	Chair
3C08 Computational study on excited states of naphthalene dimer utilizing advanced ab initio multireference theory: DMRG-CASPT2. (Toyota Central R&D Labs., Inc. • Kobe Univ., PRESTO • IMS) ○S. Shirai • Y. Kurashige • T. Yanai	3D08 Photochromism of fluorescent diarylethenes in the single-crystalline phase (Rikkyo Univ. • Aoyama Gakuin Univ. • Osaka Univ.) ○R. Kashiwara • M. Morimoto • K. Mutoh • Y. Kobayashi • J. Abe • H. Sotome • S. Ito • H. Miyasaka • M. Irie	13 : 40
3C09 Intracellular and tissue oxygen imaging based on phosphorescence lifetime microscopy (Gunma Univ. • Akita Prefectural Univ.) ○I. Takahashi • K. Mizukami • S. Hirano • M. Hosaka • T. Yoshihara • S. Tobita	3D09 Photoformation of Micropatterning in Spirooxazine Crystalline Film (Yokohama National Univ.) M. Ito • ○T. Ubukata	14 : 00
3C10 Ultrafast dynamics of proton pump sub-channels in bacteriorhodopsin (National Chiao Tung Univ. • National Taiwan Univ.) ○A. Yabushita • C. Hung • Y. Ko • C. Yang • T. Kobayashi	3D10 Regio- and stereoselective photochemical [2+2] cycloaddition reaction (Paternò-Büchi Reaction) of aromatic carbonyl compounds with pyrrole derivatives (Hiroshima Univ.) ○J. Xue • M. Abe • R. Takagi	14 : 20
H. Ohkita (Kyoto Univ.)	T. Ubukata (Yokohama National Univ.)	Chair
3C11 Transparent and nonflammable photon upconversion ionogels and their solute transport Properties (Tokyo Tech • Nippon Kayaku) ○Y. Murakami • Y. Himuro • T. Ito • K. Niimi • R. Morita • N. Kiyoyanagi	3D11 Laser trapping-controlled crystallization of lysozyme (National Chiao Tung Univ.) ○T. Sugiyama • P. Peng • K. Yuyama • H. Masuhara	14 : 40

15 : 00	3A12 Hydrogen peroxide generation through two-electron water oxidation on earth-abundant aluminum porphyrins (Tokyo Metropolitan Univ.) ○F. Kuttassery • S. Mathew • S. Sagawa • D. Yamamoto • S. Onuki • Y. Nabetani • H. Tachibana • H. Inoue	3B12 Theoretical study for charge carrier dynamics on BiVO <sub>4</sub> : Rationalizing electron and hole decay in transient absorption spectroscopy (AIST • Tokushima Univ. • The Univ. • ARPChem) ○ Y. Suzuki • M. Dharmapura • H. Matsuzaki • A. Furube • Q. Wang • T. Hisatomi • T. Yamada • K. Domen • K. Seki
15 : 20	3A13 Construction of Light-harvesting / Photochemical Conversion Combined System Using Clay Nano-sheet as a Reaction Field (Tokyo Metropolitan Univ.) ○ D. Tatsumi • T. Tsukamoto • T. Shimada • S. Takagi	3B13 A novel mechanism of electroluminescence via higher triplet states with the suppressions of nonradiative transitions (Kyoto Univ.) ○ T. Sato
15 : 40	Poster Presentation (105) 100min Odd number (15 : 40 ~ 16 : 30) Even number (16 : 30 ~ 17 : 20)	

	3D12 Aggregation-induced emission of polycyclic aromatic hydrocarbons caused by severely twisted N,N-dialkylamino groups (Tokyo Tech • Kyoto Univ. • Kyusyu Univ.) ○ S. Sasaki • S. Suzuki • K. Morokuma • K. Igawa • G. Konishi	15 : 00
	3D13 The Higher Excited State Involved with Photochemical Ring-opening Reaction of a Cyclopropane Possessing Benzophenone Moiety (Osaka Pref. Univ.) ○ Y. Matsui • T. Oishi • E. Ohta • H. Ikeda	15 : 20
	Poster Presentation (105) 100min Odd number (15 : 40 ~ 16 : 30) Even number (16 : 30 ~ 17 : 20)	15 : 40