

JULY 23 SUN

ROOM A

ROOM B

ROOM C

ROOM D

4:00 PM - 4:30 PM

Opening remarks

Chair : Hiroshi Masuhara

4:30 PM - 5:15 PM

[PL01] Prof. Ikuzo Tanaka Memorial Lecture

Spectra and Reactions of Criegee
Intermediates

*Yuan-Pern Lee¹ (1. National Yang Ming Chiao
Tung Univ. (Taiwan))

Chair : Hiroshi Masuhara

5:15 PM - 6:00 PM

[PL02] Prof. Saburo Nagakura Memorial Lecture

Hybrid Light – Matter States and their Impact
on Material and Chemical Properties

*Thomas W. Ebbesen¹ (1. Univ. of Strasbourg
(France))

JULY 24 MON

ROOM A	ROOM B	ROOM C	ROOM D
Chair : Hiroshi Miyasaka and Trevor Smith			
9:00 AM - 9:45 AM [PL03] Symmetry, disorder and the excited-state dynamics of multipolar conjugated molecules *Eric Vauthey ¹ (1. Univ. of Genev (Sweden))			
Chair : Hiroshi Miyasaka and Trevor Smith			
9:45 AM - 10:30 AM [PL04] Bridge between Ultrafast Dynamics and Ultrahigh-Resolution Spectroscopy of Atoms and Molecules *Kaoru Yamanouchi ¹ (1. Univ. of Tokyo (Japan))			
BREAK		BREAK	
Chair : Miki Hasegawa	Chair : Yutaka Nagasawa	Chair : Hiang Kwee Lee	Chair : Nobuhiro Ohta
11:00 AM - 11:25 AM [S1-01-KL] Downconversion and upconversion in Ln ^{III} ion complexes *Ana de Bettencourt-Dias ¹ (1. Univ. of Nevada, Reno (USA))	11:00 AM - 11:15 AM [S2-01-CL] Excited State Deactivation via Solvent to Chromophore Proton Transfer in Isolated 1:1 Molecular Complex: Experimental Validation by Measuring the Energy Barrier and Kinetic Isotope Effect *Ramesh Jarupula ¹ , Saurabh Khodia ¹ , Shabeeb Md. ¹ , Simran Baweja ¹ , Bhavika Kalal ¹ , Surajit Maity* ¹ (1. Indian Institute of Technology Hyderabad (India))	11:00 AM - 11:15 AM [S3-01-CL] Self-assembled Porous Organic Crystals with Multi-responsive Properties *Vonika Ka-Man Au ¹ (1. The Education Univ. of Hong Kong (Hong Kong))	11:00 AM - 11:15 AM [S4-01-CL] cancelled
Chair : Miki Hasegawa	Chair : Yutaka Nagasawa	Chair : Hiang Kwee Lee	Chair : Nobuhiro Ohta
11:25 AM - 11:40 AM [S1-02-CL] Synthesis and characterization of new luminescent iron complexes decorated with organic moieties *Fausto Puntoriero ¹ , Salvatore Genovese ^{1,2} , Ambra M. Cancelliere ¹ , Sebastiano Campagna ¹ (1. Univ. Messina (Italy), 2. Univ. Perugia (Italy))	11:15 AM - 11:30 AM [S2-02-CL] Exciton Relaxation Dynamics of Copper Phthalocyanine Single Nanocrystal Revealed by Femtosecond Pump-Probe Microspectroscopy *Yukihide Ishibashi ¹ , Yuto Shiraishi ¹ , Ryo Kihara ¹ , Tusyoshi Asahi ¹ (1. Ehime Univ. (Japan))	11:15 AM - 11:30 AM [S3-02-CL] Photodoped ultra small Titanium dioxide nanoparticles and their applications *Raivis Eglitis ¹ , Andris Šutka ¹ (1. Riga Technical Univ. (Latvia))	11:15 AM - 11:30 AM [S4-02-CL] Fluorescent probe molecules that “store” singlet oxygen detection *Yuta Takano ¹ , Devika Sasikumar ¹ , Hanjun Zhao ¹ , Yukiko Miyatake ¹ , Vasudevan pillai Biju ¹ (1. Hokkaido Univ. (Japan))
Chair : Miki Hasegawa	Chair : Yutaka Nagasawa	Chair : Hiang Kwee Lee	Chair : Nobuhiro Ohta
11:40 AM - 11:55 AM [S1-03-CL] Magnetic field effects on triplet paris in organic crystals *Tomoaki Yago ¹ (1. Saitama Univ. (Japan))	11:30 AM - 11:45 AM [S2-03-CL] Cancelled	11:30 AM - 11:55 AM [S3-03-KL] CdSe Nanocrystals - Spectroelectrochemistry and Hydrostatic Pressure Effects *Paul Mulvaney ¹ (1. Univ. of Melbourne (Australia))	11:30 AM - 11:45 AM [S4-03-CL] Single molecule study of electron transfer through DNA *Kiyohiko Kawai ¹ , Atsushi Maruyama ¹ , Mamoru Fujitsuka ² (1. Tokyo Institute of Technology (Japan), 2. Osaka Univ. (Japan))

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ROOM A	ROOM B	ROOM C	ROOM D
<p>Chair : Miki Hasegawa</p>	<p>Chair : Yutaka Nagasawa</p>		
<p>11:55 AM - 12:10 PM [S1-04-CL] Visible-to-UV photon upconversion: new chromophores and applications *Nobuhiro Yanai¹ (1. Kyushu Univ. (Japan))</p>	<p>11:45 AM - 12:00 PM [S2-04-CL] Deciphering Hidden Charge Carrier Dynamics in Perovskite Thin Films by fs-Microscopy *Jooyoung Sung¹ (1. DGIST (Korea))</p>		<p>11:45 AM - 12:00 PM [S4-04-CL] Presentation schedule has been changed</p>
<p>LUNCH BREAK</p>		<p>LUNCH BREAK</p>	
<p>Chair : Youngmin You and Trevor Smith</p> <p>1:30 PM - 1:50 PM [S1-05-IL] Delayed Fluorescence from Inverted Singlet and Triplet Excited States *Naoya Aizawa¹ (1. Osaka Univ. (Japan))</p>	<p>Chair : Mahesh Hariharan and Akira Yamakata</p> <p>1:30 PM - 1:50 PM [S2-05-IL] Charge Carrier Dynamics in Perovskite Nanocrystals *Anunay Samanta¹ (1. Univ. of Hyderabad (India))</p>	<p>Chair : Paul Mulvaney and Hiromi Okamoto</p> <p>1:30 PM - 1:50 PM [S3-04-IL] Cancelled</p>	<p>Chair : Tomoko Inose and Mikako Ogawa</p> <p>1:30 PM - 1:50 PM [S4-05-IL] Cancer specific cell death induced by nanosecond pulsed electric field: A possible key mechanism in cell-competition and photodynamic action *Nobuhiro Ohta¹ (1. National Yang Ming Chiao Tung Univ. (Taiwan))</p>
<p>Chair : Youngmin You and Trevor Smith</p> <p>1:50 PM - 2:05 PM [S1-06-CL] Role of pre-associated ion-pairs in NIR radical photopolymerization Juniy Zhou¹, Lena Pitzer², *Christian LEY¹, Thomas Roelle², Xavier Allonas¹ (1. Univ. of Haute Alsace - LPIM (France), 2. Covestro Deutschland AG (Germany))</p>	<p>Chair : Mahesh Hariharan and Akira Yamakata</p> <p>1:50 PM - 2:05 PM [S2-06-CL] Fast Swimmers: Ultrafast Dynamics in Third Generation Photo-molecular Motors *Stephen Meech¹, Palas Roy¹, Wesley Browne², Ben Feringa² (1. Univ. of East Anglia (UK), 2. Univ. of Groningen (Netherlands))</p>	<p>Chair : Paul Mulvaney and Hiromi Okamoto</p> <p>1:50 PM - 2:05 PM [S3-05-CL] Tailoring Charge Carrier Mobility by Interaction with Confined Light *Kuljeet Kaur¹, Pooja Bhatt¹, Ben Johns¹, Jino George¹ (1. IISER Mohali, Punjab (India))</p>	<p>Chair : Tomoko Inose and Mikako Ogawa</p> <p>1:50 PM - 2:05 PM [S4-06-CL] Charge transfer reactions in sub-50 fs timescales promote the photoprotection mechanism in eumelanin-like materials *Vasilis Petropoulos¹, Alexandra Mavridi Printezi², Arianna Menichetti², Piotr Kabacinski¹, Nathan G. Gianneschi³, Marco Montalti², Margherita Maiuri¹, Giulio Cerullo¹ (1. Politecnico di Milano, (Italy), 2. Univ. of Bologna (Italy), 3. Northwestern Univ. (USA))</p>
<p>Chair : Youngmin You and Trevor Smith</p> <p>2:05 PM - 2:20 PM [S1-07-CL] Power law decay with the exponent between -1/2 and -1 in the delayed fluorescence by triplet-triplet annihilation in solids *Kazuhiko Seki¹, Tomoaki Miura², Tadaaki Ikoma² (1. National Institute of Advanced Industrial Science and Technology (Japan), 2. Niigata Univ. (Japan))</p>	<p>Chair : Mahesh Hariharan and Akira Yamakata</p> <p>2:05 PM - 2:20 PM [S2-07-CL] Ultrafast Excited State Dynamics of <i>trans-cis</i> Photoisomerization of Indigo Derivatives *Yutaka Nagasawa¹, Takayuki Murai¹, Yu Kihara¹, Takahiro Teramoto² (1. Ritsumeikan Univ. (Japan), 2. Osaka Univ. (Japan))</p>	<p>Chair : Paul Mulvaney and Hiromi Okamoto</p> <p>2:05 PM - 2:20 PM [S3-06-CL] Cancelled</p>	<p>Chair : Tomoko Inose and Mikako Ogawa</p> <p>2:05 PM - 2:20 PM [S4-07-CL] Optical manipulation of cellular functions in neuronal networks using a focused laser beam *Chie Hosokawa¹, Tatsunori Kishimoto², Wataru Minoshima³, Kyoko Masui¹ (1. Osaka Metropolitan Univ. (Japan), 2. Toyohashi Univ. of Technology (Japan), 3. NICT (Japan))</p>

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ROOM A

Chair : Youngmin You and Trevor Smith

2:20 PM - 2:35 PM

[S1-08-CL] Peculiarities of the Kinetics of Photoreduction of Benzophenone
*Attila Demeter¹, György Lendvai¹ (1. Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences (Hungary))

Chair : Youngmin You and Trevor Smith

2:35 PM - 2:50 PM

[S1-09-CL] Luminescence properties of TiO₂ photocatalysts
*Ryuzi Katoh¹, Kazunari Takahashi¹ (1. Nihon Univ. (Japan))

Chair : Youngmin You and Trevor Smith

2:50 PM - 3:05 PM

[S1-10-CL] Photopolymerizable Coronene Derivatives Carrying Diacetylenic Side Chains: Synthesis, Face-on/Edge-on Alignment Control on Solid Substrates, and Application in Organic Electronics
*Hsiu-Hui Chen¹, Yu-Tai Tao² (1. National Taipei Univ. of Technology (Taiwan), 2. Academia Sinica (Taiwan))

Chair : Youngmin You and Trevor Smith

3:05 PM - 3:20 PM

[S1-11-CL] Structures and Optical Properties of Halide Perovskite Assemblies
*Takuya Okamoto¹, Vasudevanpillai Biju¹ (1. Hokkaido Univ. (Japan))

ROOM B

Chair : Mahesh Hariharan and Akira Yamakata

2:20 PM - 2:40 PM

[S2-08-IL] Singlet-Fission Dynamics of Tetracene and Pentacene Oligomers Elucidated by Ultrafast Time-Resolved Optical Spectroscopy
*Dongho Kim¹ (1. Yonsei Univ. (Korea))

Chair : Mahesh Hariharan and Akira Yamakata

2:40 PM - 2:55 PM

[S2-09-CL] Optical manipulation by using optical force due to transient absorption of molecules
*Syoji Ito^{1,2}, Takato Mizoguchi¹, Masato Mori¹, Masafumi Koga¹, Hikaru Sotome¹, Hiroshi Miyasaka¹ (1. Osaka Univ. (Japan), 2. Osaka Metropolitan Univ. (Japan))

Chair : Mahesh Hariharan and Akira Yamakata

2:55 PM - 3:10 PM

[S2-10-CL] Sensitivity of core-to-core x-ray emission spectroscopy to coherent structural dynamics in iron photosensitizer
Morgane Vacher¹, Johanna Rogvall², Roshan Singh³, *Marcus Lundberg² (1. Nantes Univ. (France), 2. Uppsala Univ. (Sweden), 3. Univ. of Oxford (UK))

Chair : Mahesh Hariharan and Akira Yamakata

3:10 PM - 3:30 PM

[S2-11-IL] Femtosecond Dynamics of Charge Transfer between Plasmonic Metal and Semiconductor Nanostructures
*Akihiro Furube¹, Yuto Tsurusaki¹, Kei Saika¹, Masaki Murase¹, Pankaj Koinkar¹, Tetsuro Katayama¹ (1. Tokushima Univ. (Japan))

ROOM C

Chair : Paul Mulvaney and Hiromi Okamoto

2:20 PM - 2:40 PM

[S3-07-IL] Chiro-optical effects of plasmonic materials: Microscopic imaging and chiral near-field interaction with molecules
*Hiromi Okamoto¹ (1. Institute for Molecular Science (Japan))

Chair : Paul Mulvaney and Hiromi Okamoto

2:40 PM - 2:55 PM

[S3-08-CL] Super Chiral Field on an Achiral Gold Nanostructure
*Tomoya Oshikiri^{1,2}, Hiromasa Niinomi¹, Masaru Nakagawa¹, Hiroaki Misawa^{2,3} (1. Tohoku Univ. (Japan), 2. Hokkaido Univ. (Japan), 3. National Yang Ming Chiao Tung Univ. (Taiwan))

Chair : Paul Mulvaney and Hiromi Okamoto

2:55 PM - 3:10 PM

[S3-09-CL] Plasmonic trapping-induced enantioselective crystallization of organic compounds with metal nanostructures
*An-Chieh Cheng¹, Teruki Sugiyama^{2,3}, Keiji Sasaki¹ (1. Hokkaido Univ. (Japan), 2. Department of Applied Chemistry and Center for Emergent Functional Matter Science, National Yang Ming Chiao Tung Univ. (Taiwan), 3. Division of Materials Science, Graduate School of Science and Technology (Japan))

Chair : Paul Mulvaney and Hiromi Okamoto

3:10 PM - 3:30 PM

[S3-10-IL] Development of visible-to-near infrared plasmonic nanomaterials by element substitution reactions
*Toshiharu Teranishi¹ (1. Kyoto Univ. (Japan))

ROOM D

Chair : Tomoko Inose and Mikako Ogawa

2:20 PM - 2:40 PM

[S4-08-IL] Spatiotemporally controlled fabrication of protein amyloid fibers using optical trapping
*Teruki Sugiyama^{1,2}, Shun Hirota² (1. National Yang Ming Chiao Tung Univ. (Taiwan), 2. NAIST (Japan))

Chair : Tomoko Inose and Mikako Ogawa

2:40 PM - 2:55 PM

[S4-09-CL] Elucidating pH-dependent excited-state dynamics leading to large Stokes shift in red fluorescent protein mBeRFP
*Garima Bhutani¹, Archit Gupta², Sasthi Paul¹, Sakshi Chawla¹, Purnananda Guptasarma², Arijit Kumar De¹ (1. Department of Chemical Sciences, Indian Institute of Science Education And Research, Mohali (India), 2. Department of Biological Sciences, Indian Institute of Science Education And Research, Mohali (India))

Chair : Tomoko Inose and Mikako Ogawa

2:55 PM - 3:10 PM

[S4-10-CL] Ultrafast Energy Transfer within Bio-inspired Light-Harvesting Supramolecular Assemblies of Chlorophyll a and Astaxanthin
*Sakshi Chawla¹, Arijit Kumar De¹ (1. Department of Chemical Sciences, Indian Institute of Science Education and Research Mohali (India))

Chair : Tomoko Inose and Mikako Ogawa

3:10 PM - 3:30 PM

[S4-11-IL] Mechanistic study on the firefly bioluminescence reaction based on photochemistry
*Takashi Hirano¹ (1. The Univ. of Electro-Communications (Japan))

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ROOM A	ROOM B	ROOM C	ROOM D
BREAK		BREAK	
<p>Chair : Youngmin You and Trevor Smith</p> <p>3:20 PM - 3:40 PM [S1-12-IL] Primary processes induced in four-stranded DNA structures by absorption of UV radiation: toward optoelectronic devices? *Dimitra Markovitsi¹ (1. CNRS (France))</p>	<p>Chair : Stephen Meech and Yukihide Ishibashi</p> <p>4:00 PM - 4:25 PM [S2-12-KL] Deciphering the Ultrafast Charge Separation, Phenyl Rings Rotation and C=C Bond Twisting in a New Tetraphenylethylene Derivative *Abderrazzak Douhal¹, Mario de la HOZ¹, Mao Yamaguchi², Boyko Cohen¹, Ichiro Hisaki² (1. Unversidad de Castilla la Mancha (Spain), 2. Osaka Univ. (Japan))</p>	<p>Chair : Toshiharu Teranishi and Daniel Gomez</p> <p>4:00 PM - 4:20 PM [S3-11-IL] Optimal Geometry for Plasmonic Hot-Carrier Extraction in Metal-Semiconductor Nanocrystals *Daniel Gomez¹ (1. RMIT Univ. (Australia))</p>	<p>Chair : Takashi Hirano and Teruki Sugiyama</p> <p>4:00 PM - 4:15 PM [S4-12-CL] Protection and Release of Small Molecules via Chemiluminescent Protection Groups (CLPGs) *Tim Lippold¹, Axel Griesbeck¹ (1. Univ. of Cologne (Germany))</p>
<p>Chair : Ryuzi Katoh and Dimitra Markovitsi</p> <p>4:20 PM - 4:35 PM [S1-14-CL] Enhanced S₂ Fluorescence of Metalloporphyrin on Surface of Silicate Nanosheet *Takuya Fujimura¹, Maina Nashimoto¹, Toui Tanaka¹, Tomoya Serizawa², Yoichi Kobayashi², Ryo Sasai¹ (1. Shimane Univ. (Japan), 2. Ritsumeikan Univ. (Japan))</p>	<p>Chair : Stephen Meech and Yukihide Ishibashi</p> <p>4:25 PM - 4:40 PM [S2-13-CL] Ultrafast Charge Carrier Dynamics on Powder Photocatalysts *Akira Yamakata¹, Kosaku Kato¹ (1. Okayama Univ. (Japan))</p>	<p>Chair : Toshiharu Teranishi and Daniel Gomez</p> <p>4:20 PM - 4:35 PM [S3-12-CL] Pseudo-correlation clustering identifies a specific characteristic time of fluorescence blinking in high-quality semiconductor films *Boris Louis^{1,2}, Sudipta Seth^{1,2}, Johan Hofkens^{1,5}, Yana Vaynzof³, Qingzhi An³, Pavel Frantsuzov⁴, Ivan G. Scheblykin² (1. KU Leuven (Belgium), 2. Lund Univ. (Sweden), 3. TU Dresden(Germany), 4. SB RAS (Russia), 5. Max Planck Institute for Polymer Research(Germany))</p>	<p>Chair : Takashi Hirano and Teruki Sugiyama</p> <p>4:15 PM - 4:30 PM [S4-13-CL] Long-term cytotoxic polymetallic ruthenium (II) photosensitisers as phototherapeutic anticancer agents *Gregory Smith¹, Athi Welsh¹, Tebello Nyokong, Sharon Prince¹ (1. Univ. of Cape Town (South Africa))</p>
<p>Chair : Ryuzi Katoh and Dimitra Markovitsi</p> <p>4:35 PM - 4:50 PM [S1-15-CL] Robust excited-state engineering through aggregate formation in donor-π-acceptor systems consisting of carbazole donor-unit *Hubert Marek Piwonski¹, Shuho Nozue¹, Nirmal Kumar Das¹, Tsuyoshi Michinobu², Satoshi Habuchi¹ (1. King Abdullah Univ. of Science and Technology (KAUST) (Saudi Arabia), 2. Tokyo Institute of Technology (Japan))</p>	<p>Chair : Stephen Meech and Yukihide Ishibashi</p> <p>4:40 PM - 4:55 PM [S2-14-CL] Active Role of Symmetry Breaking Revealed by Coherent Vibrational Spectroscopy *JunWoo Kim¹ (1. Chungbuk National Univ. (Korea))</p>	<p>Chair : Toshiharu Teranishi and Daniel Gomez</p> <p>4:35 PM - 4:50 PM [S3-13-CL] Improved water splitting efficiency of Au-NPs-loaded gallium oxide under modal strong coupling conditions *Xu SHI¹, Yaguang Wang¹, Tomoya Oshikiri², Hiroaki Misawa¹ (1. Hokkaido Univ. (Japan), 2. Tohoku Univ. (Japan))</p>	<p>Chair : Takashi Hirano and Teruki Sugiyama</p> <p>4:30 PM - 4:55 PM [S4-14-KL] Targeted cancer therapy using photochemical reactions *Mikako Ogawa¹ (1. Hokkaido Univ. (Japan))</p>

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ROOM A

Chair : Ryuzi Katoh and Dimitra Markovitsi

4:50 PM - 5:05 PM

[S1-16-CL] UV light generation and challenging photoreactions enabled by photon upconversion
*Christoph Kerzig¹ (1. Department of Chemistry, Johannes Gutenberg Univ. Mainz (Germany))

Chair : Ryuzi Katoh and Dimitra Markovitsi

5:05 PM - 5:25 PM

[S1-17-IL] Triplet Quantum Chain Reactions in Crystalline Dewar Benzenes
Indrajit Paul¹, *Miguel A Garcia-Garibay¹ (1. Univ. of California, Los Angeles (USA))

Chair : Ryuzi Katoh and Dimitra Markovitsi

5:25 PM - 5:40 PM

[S1-18-CL] Highly Efficient and Strong Photoluminescence of an Eu(III) Complex in a Host-guest film by Triplet Sensitization
*Shiori Miyazaki¹, Kiyoshi Miyata¹, Kenichi Goushi², Yuichi Kitagawa^{3,4}, Yasuchika Hasegawa^{3,4}, Chihaya Adachi², Ken Onda¹ (1. Kyushu Univ. (Japan), 2. OPERA, Kyushu Univ. (Japan), 3. Hokkaido Univ. (Japan), 4. WPI-ICReDD, Hokkaido Univ. (Japan))

ROOM B

Chair : Stephen Meech and Yukihide Ishibashi

4:55 PM - 5:10 PM

[S2-15-CL] Observation of Franz-Keldysh modulation in a $\text{CH}_3\text{NH}_3\text{PbBr}_3$ crystal by femtosecond transient absorption microscopy
*Tetsuro Katayama¹, Yuichi Ikura¹, Yuma Fujita¹, Akihiro Furube¹ (1. Tokushima Univ. (Japan))

Chair : Stephen Meech and Yukihide Ishibashi

5:10 PM - 5:25 PM

[S2-16-CL] Heterogeneous Singlet Fission in a Covalently Linked Pentacene Dimer: From Triplet Pair Formation to its Dissociation
*Woojae Kim¹, Naitik A. Panjwani², K. C. Krishnapriya³, Kanad Majumder³, Jyotishman Dasgupta⁴, Robert Bittl², Satish Patil³, Andrew J. Musser⁵ (1. Yonsei Univ. (Korea), 2. Freie Universität Berlin (Germany), 3. Indian Institute of Science (India), 4. Tata Institute of Fundamental Research (India), 5. Cornell Univ. (USA))

Chair : Stephen Meech and Yukihide Ishibashi

5:25 PM - 5:40 PM

[S2-17-CL] Elementary Exciton Processes of InP-based Core/Shell Quantum Dots Under Ultrahigh Pressure
*Daichi Eguchi¹, Naoto Tamai¹ (1. Kwansei Gakuin Univ. (Japan))

ROOM C

Chair : Toshiharu Teranishi and Daniel Gomez

4:50 PM - 5:05 PM

[S3-14-CL] Exploring nanostructure-assisted optical tweezers toward mechano-bactericidal activity analysis
*Tatsuya Shoji¹, Masashi Yoshida¹, Mayu Morimoto¹ (1. Kanagawa Univ. (Japan))

Chair : Toshiharu Teranishi and Daniel Gomez

5:05 PM - 5:25 PM

[S3-15-IL] A trivial pursuit in elucidating photocatalytic reaction mechanisms
Dario Bassani¹ (1. Univ. of Bordeaux (France))

Chair : Toshiharu Teranishi and Daniel Gomez

5:25 PM - 5:40 PM

[S3-16-CL] Modification of Ionic Conductivity of Aqueous Electrolytes by Vibrational Strong Coupling of Water
*Tomohiro Fukushima¹, Soushi Yoshimitsu¹, Daiki Ashizawa¹, Kei Murakoshi¹ (1. Hokkaido Univ. (Japan))

ROOM D

Chair : Takashi Hirano and Teruki Sugiyama

4:55 PM - 5:10 PM

[S4-15-CL] Photo-sensitive NO release plasmon nanowire probe toward a novel platform of intracellular material delivery systems
*Tomoko Inose^{1,2}, Javier Troyano¹, Qiang Zhang³, Shun Tokuda¹, Daisuke Yamaguchi³, Beatrice Fortuni⁴, Kenji Hirai³, Eli Sanchez-Gonzales¹, Hiroshi Uji-i^{3,4,1}, Shuhei Furukawa¹ (1. Kyoto Univ. (Japan), 2. JST-PRESTO (Japan), 3. Hokkaido Univ. (Japan), 4. KU Leuven (Belgium))

Chair : Takashi Hirano and Teruki Sugiyama

5:10 PM - 5:25 PM

[S4-16-CL] (Time-Resolved) Spectroscopy Reveals Sequence-Dependent Interaction of Amotosalen with DNA
*Michelle Paulina Rademacher¹, Anna Theresa Ott¹, Wiebke Haselbach¹, Peter Gilch¹ (1. Heinrich Heine Univ. Duesseldorf (Germany))

Chair : Takashi Hirano and Teruki Sugiyama

5:25 PM - 5:40 PM

[S4-17-CL] Ultrafast Excited State Dynamics of Archae-Rhodopsin 3 and Its Mutants
Krystyna Herasymenko¹, Bogdan Marekha², Masae Konno-Inoue^{3,4}, Keichi Inoue³, *Stefan Haacke¹ (1. Univ. of Strasbourg - CNRS (France), 2. École Normale Supérieure de Lyon (France), 3. The Institute for Solid State Physics, Univ. of Tokyo (Japan), 4. PRESTO, Japan Science and Technology Agency (Japan))

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ROOM A

Chair : Ryuzi Katoh and Dimitra Markovitsi

5:40 PM - 5:55 PM

[S1-19-CL] Evidence of ultrafast intersystem crossing in Pt(TPBP) confirmed by near infrared transient spectroscopy

*Chiaki Takahashi¹, Mari Ichimura¹, Akira Takakado², Koichi Iwata² (1. Sony Semiconductor Solutions Corporation (Japan), 2. Gakushuin Univ. (Japan))

Chair : Ryuzi Katoh and Dimitra Markovitsi

5:55 PM - 6:10 PM

[S1-20-CL] Benzimidazolines (BIHs) for Visible-Light-Driven Functionalization of Unactivated Alkenes

*Yutaka Saga¹, Taito Watanabe¹, Yusuke Nakayama¹, Mio Kondo^{1,2}, Shigeyuki Masaoka¹ (1. Osaka Univ. (Japan), 2. JST PRESTO (Japan))

Chair : Ryuzi Katoh and Dimitra Markovitsi

6:10 PM - 6:30 PM

[S1-21-IL] Helical Assemblies of Square-Planar Pt (II) Complexes Produce Strong Circularly Polarized Luminescence

*Youngmin You¹ (1. Yonsei Univ. (Korea))

ROOM B

5:40 PM - 5:55 PM

[S2-18-CL] Cancelled

Chair : Stephen Meech and Yukihide Ishibashi

5:55 PM - 6:15 PM

[S2-19-IL] Greek Cross (+) Aggregate

*Mahesh Hariharan¹ (1. Indian Institute of Science Education and Research Thiruvananthapuram (India))

ROOM C

Chair : Toshiharu Teranishi and Daniel Gomez

5:40 PM - 5:55 PM

[S3-17-CL] Laser-induced hydrothermal synthesis of vanadium dioxide on gold thin films and nanostructures

*Christophe Pin¹, Hideki Fujiwara², Keiji Sasaki¹ (1. RIES, Hokkaido Univ. (Japan), 2. Hokkai-Gakuen Univ. (Japan))

Chair : Toshiharu Teranishi and Daniel Gomez

5:55 PM - 6:10 PM

[S3-18-CL] Supramolecular Regioselective Photocyclodimerization of 2-Anthracenecarboxylate in Confined Cavities of Organic-Silica Nanoribbons

*Wijak Yospanya^{1,2,3}, Masaki Nishijima³, Yasuyuki Araki³, Emilie Pouget², Thierry Buffeteau⁴, Reiko Oda^{1,2}, Takehiko Wada³ (1. AIMR, Tohoku Univ. (Japan), 2. CBMN, Univ. Bordeaux (France), 3. IMRAM, Tohoku Univ. (Japan), 4. ISM, Univ. Bordeaux (France))

Chair : Toshiharu Teranishi and Daniel Gomez

6:10 PM - 6:30 PM

[S3-19-IL] Visualization and selective excitation of plasmon modes in two-dimensional metal nanoplates studied by near-field and non-linear optical microscopy

*Kohei Imura¹ (1. Waseda Univ. (Japan))

ROOM D

Chair : Takashi Hirano and Teruki Sugiyama

5:40 PM - 5:55 PM

[S4-18-CL] Biocompatible and Photostable Photoacoustic Nanoparticulate Contrast Agents Based on Bodipy-Scaffold and Polylactide Polymers: Synthesis, Formulation and in vivo Evaluation

*Rachel Méallet¹, Jean-Baptiste Bodin¹, Jérôme Gateau³, Gilles Clavier⁴, Nicolas Tsapis² (1. Université Paris-Saclay, CNRS, Institut des Sciences Moléculaires d'Orsay(France), 2. Université Paris-Saclay, CNRS, Institut Galien Paris-Saclay(France), 3. Sorbonne Université, CNRS, INSERM, Laboratoire d'Imagerie Biomédicale, (France), 4. Université Paris-Saclay, ENS Paris-Saclay, CNRS (France))

Chair : Takashi Hirano and Teruki Sugiyama

5:55 PM - 6:10 PM

[S4-19-CL] Plasma treatment for titanium surface to promote osseointegration in alveolar bone

*Ji Suk Shim¹ (1. Department of Medicine, Korea Univ. (Korea))

Chair : Takashi Hirano and Teruki Sugiyama

6:10 PM - 6:30 PM

[S4-20-IL] Multi-target biosensor with a plasmonic chip promoting a photochemical reaction and providing the enhanced fluorescence

*Keiko Tawa¹, Shohei Horio¹, Koji Mizutani¹, Hirobumi Sunayama², Toshifumi Takeuchi² (1. Kwansai Gakuin Univ. (Japan), 2. Kobe Univ. (Japan))

JULY 25 TUE

ROOM A	ROOM B	ROOM C	ROOM D
Chair : Kei Murakoshi and Hiang Kwee Lee			
9:00 AM - 9:45 AM [PL05] Plasmon Induced Hot Electron Transfer to Semiconductor and Molecular Acceptors *Tim Lian ¹ (1. Emory Univ. (USA))			
Chair : Kei Murakoshi and Hiang Kwee Lee			
9:45 AM - 10:30 AM [PL06] Photophysics and Photochemistry of Individual Plasmonic Nanostructures *Stephan Link ¹ (1. Rice Univ. (USA))			
BREAK		BREAK	
Chair : Yasuhiro Kobori	Chair : Anunay Samanta	Chair : Kohei Imura	Chair : Asano Motoko
11:00 AM - 11:20 AM [S1-22-IL] Adaptive Down- and Up-Conversion *Dirk M Guldi ¹ (1. Univ. of Erlangen (Germany))	11:00 AM - 11:15 AM [S2-20-CL] The Femtosecond Photo-Physics of 2-Cyanoindole — a Promising Probe of Protein Hydration *Mahbobeh Morshedi ¹ , Oliver Nolden ¹ , Philipp Janke ¹ , Michael Schmitt ¹ , Peter Gilch ¹ (1. HHU Düsseldorf (Germany))	11:00 AM - 11:15 AM [S3-20-CL] Resolving ultrafast energy transfer in a fluorophore-functionalized gold nanocluster in atomistic detail Kyonglim Pyo ¹ , Maria F. Matus ² , *Tatu Kumpulainen ¹ , Hannu Häkkinen ¹ , Mika Pettersson ¹ (1. Department of Chemistry, Univ. of Jyväskylä (Finland), 2. Department of Physics, Univ. of Jyväskylä (Finland))	11:00 AM - 11:20 AM [S4-21-IL] Bioluminescent probes, a novel platform for disease diagnosis *Guoqiang Yang ¹ (1. Univ. of Chinese Academy of Sciences/Institute of Chemistry, Chinese Academy of Sciences (China))
Chair : Yasuhiro Kobori	Chair : Anunay Samanta	Chair : Kohei Imura	Chair : Asano Motoko
11:20 AM - 11:35 AM [S1-23-CL] Self-assembly of out-of-equilibrium artificial light-harvesting complexes Maxim S. Pshenichnikov ¹ , *Sundar Raj Krishnaswamy ¹ , Björn Kriete ¹ , Mar- ick Manrho ¹ , Ilias Patmanidis ^{2,3} , Alex H. de Vries ² , Marc C. A. Stuart ² , Siewert J. Marrink ² , Jasper Knoester ^{1,4} , Thomas L.C. Jansen ¹ (1. Univ. of Groningen (Netherlands), 2. Univ. of Groningen (Netherlands), 3. Aarhus Univ. (Denmark), 4. Leiden Univ. (Netherlands))	11:15 AM - 11:30 AM [S2-21-CL] Vibrational energy transfer between carbon nanotubes observed by ultrashort visible pulse laser *Atsushi Yabushita ^{1,2} , Nishant Kumar Pathak ³ , Yui Konno ⁴ , Ying Kuan Ko ¹ , Yutaka Maeda ⁴ , Takayoshi Kobayashi ¹ , Bhaskar Kanseri ³ (1. National Yang Ming Chiao Tung Univ. (Taiwan), 2. Kanagawa Univ. (Japan), 3. Indian Inst. Tech. Delhi (India), 4. Tokyo Gakugei Univ. (Japan))	11:15 AM - 11:30 AM [S3-21-CL] Importance of chemical structure in plasmon catalysis – mechanistic aspects *Olga Guselnikova ^{1,2} , Sylvain Marque ³ , Pavel Postnikov ² , Joel Henzie ¹ , Yusuke Yamauchi ⁴ (1. National Institute for Materials Science (Japan), 2. Tomsk Polytechnic Univeristy (Russia), 3. Aix-Marseille Univ. (France), 4. The Univ. of Queensland (Australia))	11:20 AM - 11:35 AM [S4-22-CL] Photodynamic therapy combined with immunotherapy: new possibilities for the treatment of immunogenic cancers *Janusz M. Dabrowski ¹ (1. Faculty of Chemistry, Jagiellonian Univ. (Poland))

JULY 25 TUE

ROOM A

Chair : Yasuhiro Kobori

11:35 AM - 11:50 AM

[S1-24-CL] Enhancing upconversion efficiency by fluorescence dopant approach for PbS quantum dot-sensitized NIR TTA-UC system with anthradithiophene transmitter/annihilator in solid state

*Neeti Tripathi¹, Kenji Kamada¹ (1. NMRI, National Institute of Advanced Industrial Science and Technology (Japan))

Chair : Yasuhiro Kobori

11:50 AM - 12:05 PM

[S1-25-CL] Deciphering charge dynamics of oxysulphide photocatalyst: Impact of heterogenous Sc doping

*Vikas Nandal¹, Ryota Shoji¹, Hiroyuki Matsuzaki¹, Hiroaki Yoshida⁴, Zhenhua Pan³, Lihua Lin³, Takashi Hisatomi³, Kazunari Domen³, Akihiro Furube², Kazuhiko Seki¹ (1. AIST (Japan), 2. Tokushima Univ. (Japan), 3. Shinshu Univ. (Japan), 4. Mitsubishi Chemical Corporation (Japan))

ROOM B

Chair : Anunay Samanta

11:30 AM - 11:55 AM

[S2-22-KL] Chemical Dynamics of Nonvalence-Bound State of the Molecule Anions
*Sang Kyu Kim¹ (1. KAIST (Korea))

ROOM C

Chair : Kohei Imura

11:30 AM - 11:45 AM

[S3-22-CL] Chiral Plasmonic Nanoprisms Created by Circular Polarized Light
*Tsumugi Miyashita¹, Tian Qiao¹, MingLee Tang¹ (1. Univ. of Utah (USA))

Chair : Kohei Imura

11:45 AM - 12:00 PM

[S3-23-CL] Cancelled

ROOM D

Chair : Asano Motoko

11:35 AM - 11:55 AM

[S4-23-IL] *In vivo* oxygen sensing of pancreatic tissues based on phosphorescence lifetime imaging microscopy
*Toshitada Yoshihara¹ (1. Division of Molecular Science, Graduate School of Science and Technology, Gunma Univ. (Japan))

Chair : Asano Motoko

11:55 AM - 12:15 PM

[S4-24-IL] Regulation of therapeutic cell kinetics by ligand modification to cell membranes
*Yuriko Higuchi¹ (1. Kyoto Univ. (Japan))

LUNCH BREAK

LUNCH BREAK

Chair : Dirk M. Guldi and Hiroshi Ikeda

Chair : Dongho Kim and Akihiro Furube

Chair : Christy Landes and Jino George

Chair : Toshitada Yoshihara and Guoqiang Yang

1:30 PM - 1:50 PM

[S1-26-IL] Designing Molecular Scaffolds for Evaluating New Excited State Photochemical Reactivity
*Jayaraman Sivaguru¹ (1. Bowling Green State Univ. / Center for Photochemical Sciences (USA))

1:30 PM - 1:50 PM

[S2-23-IL] Spin angular momentum and topological property of femtosecond structured surface plasmon polariton
*Atsushi Kubo¹ (1. Univ. of Tsukuba (Japan))

1:30 PM - 1:50 PM

[S3-24-IL] *Polaritronics*: Controlling Electron/Energy Transport by Strong Light-Matter Coupling
*Jino George¹ (1. Indian Institute of Science Education and Research Mohali (IISER Mohali) (India))

1:30 PM - 1:45 PM

[S4-25-CL] Specific dissociations following core excitation of the peptide model molecules
*Chen-Lin Liu¹ (1. National Synchrotron Radiation Research Center (Taiwan))

Chair : Dirk M. Guldi and Hiroshi Ikeda

Chair : Dongho Kim and Akihiro Furube

Chair : Christy Landes and Jino George

Chair : Toshitada Yoshihara and Guoqiang Yang

1:50 PM - 2:05 PM

[S1-27-CL] From Ultrafast to Slow Dynamics in Novel Battery Electrolytes with Time-Resolved Infrared Spectroscopy: Multidimensional and Transient IR Study
*Bogdan Dereka¹ (1. Univ. of Zurich (Switzerland))

1:50 PM - 2:05 PM

[S2-24-CL] Enhancing the Efficiency of Solar cells through Photochemical Upconversion
*Elham Gholizadeh¹ (1. Univ. of Melbourne (Australia))

1:50 PM - 2:05 PM

[S3-25-CL] Control of photochemical processes using visible and infrared Purcell effects
*Kosei Ueno¹, Hiroki Takeuchi¹, Shimba Ushikoshi¹, Keisuke Imaeda¹, Sou Ryuzaki¹ (1. Hokkaido Univ. (Japan))

1:45 PM - 2:00 PM

[S4-26-CL] Flavins as photosensitizer of singlet oxygen and potential redox-sensitive agent
*Marek Sikorski¹, Anna Golczak¹, Gotard Burdzinski¹, Radek Cibulka², Lucyna Mrowczynska¹, Jacek Lukasz Kolanowski³ (1. Adam Mickiewicz Univ. (Poland), 2. Univ. of Chemistry and Technology, Prague (Czech Republic), 3. Institute of Bioorganic Chemistry, Polish Academy of Sciences (Poland))

JULY 25 TUE

ROOM A

Chair : Dirk M. Guldi and Hiroshi Ikeda

2:05 PM - 2:20 PM

[S1-28-CL] Performance Improvement of Randomly-Interleaved-Pulse-Train (RIPT) method for transient absorption: Its applications and new capabilities

*Tatsuo Nakagawa¹, Ryuzi Katoh²
(1. Unisoku Co., Ltd. (Japan), 2. Nihon Univ. (Japan))

Chair : Dirk M. Guldi and Hiroshi Ikeda

2:20 PM - 2:35 PM

[S1-29-CL] Intramolecular Charge Transfer in Fluoranthene Derivatives

*Sanchari Debnath¹, Aisworika Mohanty², Praveen Naik¹, Ulrike Salzner³, Jyotishman Dasgupta², Satish Patil¹ (1. Indian Institute of Science, Bengaluru (India), 2. Tata Institute of Fundamental Research, Mumbai (India), 3. Bilkent Univ., Ankara (Turkey))

Chair : Dirk M. Guldi and Hiroshi Ikeda

2:35 PM - 2:50 PM

[S1-30-CL] Tuning the emission and reactivity in cobalt(III) complexes by amino groups

*Athul Krishna¹, Lorena Fritsch¹, Miguel Arguello Cordero², Stefan Lochbrunner², Matthias Bauer¹ (1. Univ. of Paderborn (Germany), 2. Univ. of Rostock (Germany))

Chair : Dirk M. Guldi and Hiroshi Ikeda

2:50 PM - 3:05 PM

[S1-31-CL] Excitons' Diffusion Lengths: A Discussion of Approaches

*Catherine Suenne Pursglove De Castro¹, Wenchao Yang¹, Safakath Karutedath¹, Julien Gorenflot¹, Nisreen Alsehri¹, Si Chen¹, Yuliar Firdaus¹, Diego Villalva¹, Thomas Anthopoulos¹, Derya Baran¹, Frédéric Laquai¹ (1. KAUST (Saudi Arabia))

ROOM B

Chair : Dongho Kim and Akihiro Furube

2:05 PM - 2:20 PM

[S2-25-CL] Excited-state wavepacket dynamics of peryleneimide stacks

*Taeyeon Kim¹ (1. Sungkyunkwan Univ. (Korea))

Chair : Dongho Kim and Akihiro Furube

2:20 PM - 2:35 PM

[S2-26-CL] Enantioselective control of polymorphic transition via femtosecond pulsed laser irradiation

*Shun-Fa Wang^{1,2}, Teruki Sugiyama^{1,3} (1. National Yang Ming Chiao Tung Univ. (Taiwan), 2. National Taitung Univ. (Taiwan), 3. Nara Institute of Science and Technology (Japan))

Chair : Dongho Kim and Akihiro Furube

2:35 PM - 2:50 PM

[S2-27-CL] Joint Experimental and Theoretical Investigation of Excited State Vibrational Coherences in Mn Single Molecule Magnets

*Julien Eng¹, Kyle Barlow², Euan Brechin², Olof Johansson², Thomas Penfold¹ (1. Chemistry - SNES, Newcastle Univ. (UK), 2. EaStCHEM - School of Chemistry, Univ. of Edinburgh (UK))

Chair : Dongho Kim and Akihiro Furube

2:50 PM - 3:05 PM

[S2-28-CL] Efficiencies of Eu³⁺ to Eu²⁺ by Focused Laser Pulses; Filamentation Conditions by Femtosecond, Two Photon Excitation by Nanosecond Pulses

*Nobuaki Nakashima^{1,2}, Shohei Matsuda², Tomoyuki Yatsushashi¹ (1. Osaka Metropolitan Univ. (Japan), 2. Institute for Laser Technology (Japan))

ROOM C

Chair : Christy Landes and Jino George

2:05 PM - 2:20 PM

[S3-26-CL] Synthesis and surface-enhanced Raman scattering of crystal-controlled gold nanoparticle monomers and dimers

*Yukie Yokota¹, Mayu Yamamoto¹, Shuto Hirai¹, Asuka Fujita¹, Hiroshi Uchida¹ (1. Sophia Univ. (Japan))

Chair : Christy Landes and Jino George

2:20 PM - 2:35 PM

[S3-27-CL] Photoinduced Electron Dynamics of Nanomaterials Revealed by First-Principles Computational Method

*Kenji Iida¹, Takashi Takeuchi², Masashi Noda³ (1. Institute for Catalysis, Hokkaido Univ. (Japan), 2. Metamaterials Laboratory, RIKEN Cluster for Pioneering Research (Japan), 3. Center for Computational Sciences, Univ. of Tsukuba (Japan))

Chair : Christy Landes and Jino George

2:35 PM - 2:50 PM

[S3-28-CL] Heteroepitaxial junction-induced faceted gold nanoparticle-loaded radial titanium (IV) oxide heteromesocrystal type plasmonic photocatalyst

*Shin-ichi Naya¹, Ryota Kojima², Hisashi Sugime², Hiroaki Tada² (1. Env. Res. Lab., Kindai Univ. (Japan), 2. Grad. Sch. Sci. and Engin., Kindai Univ. (Japan))

Chair : Christy Landes and Jino George

2:50 PM - 3:05 PM

[S3-29-CL] Investigations of Electric Double Layer Capacitance under Localized Surface Plasmon Excitation

*Hiro Minamimoto¹, Futa Shiga¹, Hiroki Ohnishi¹, Minoru Mizuhata¹ (1. Kobe Univ. (Japan))

ROOM D

Chair : Toshitada Yoshihara and Guoqiang Yang

2:00 PM - 2:15 PM

[S4-27-CL] Reversibility in Photochemistry: Beyond Photoisomerization

*Tomas Slanina¹ (1. IOCB Prague (Czech Republic))

Chair : Toshitada Yoshihara and Guoqiang Yang

2:15 PM - 2:30 PM

[S4-28-CL] Electroabsorption and stark fluorescence spectroscopies of a fluorescent marker of amyloid fibrils: a case study on thioflavin T

*Toshifumi Iimori¹, Ahatashamul Islam¹, Yudai Kikuchi¹ (1. Muroran Institute of Technology (Japan))

Chair : Toshitada Yoshihara and Guoqiang Yang

2:30 PM - 2:45 PM

[S4-29-CL] Acceleration of Pseudo Triplet-Triplet Energy Transfer Rates in Porphyrin Dyads Involving an Unpaired Electron

*Motoko S. Asano¹, Ken Kobori¹, Hiroaki Hanada², Tatsuo Nakagawa² (1. Gunma Univ. (Japan), 2. Unisoku Co., Ltd. (Japan))

Chair : Toshitada Yoshihara and Guoqiang Yang

2:45 PM - 3:00 PM

[S4-04-CL] Sulfonylthioated-BODIPYs for Effective H₂S Release and Orthogonal Thiol Labeling.

*Lucie Wohlrábová¹ (1. IOCB Prague (Czech Republic))

[S4-30-IL] Cancelled

JULY 25 TUE

ROOM A	ROOM B	ROOM C	ROOM D
<p>Chair : Dirk M. Guldi and Hiroshi Ikeda</p>	<p>Chair : Dongho Kim and Akihiro Furube</p>	<p>Chair : Christy Landes and Jino George</p>	<p>Chair : Mio Kondo</p>
<p>3:05 PM - 3:25 PM [S1-32-IL] Key conformation dynamics for light-induced energy conversions: Transient EPR study *Yasuhiro Kobori¹ (1. Kobe Univ. (Japan))</p>	<p>3:05 PM - 3:25 PM [S2-29-IL] Infrared perturbation of photoinduced electron transfer in transition metal chromophores Guanzhi Wu¹, Martin V. Appleby¹, Iona I. Ivalo¹, Rory A. Cowin¹, Alexander Auty¹, Catherine E. Royle¹, Tao Cheng¹, Ricardo Fernandez-Teran¹, James D. Shipp¹, Dimitri Chekulaev¹, Igor V. Sazanovich², *Julia A. Weinstein¹ (1. Univ. of Sheffield (UK), 2. CLF, STFC (UK))</p>	<p>3:05 PM - 3:25 PM [S3-30-IL] Plasmonic-polymer hybrid nanomaterials for light harvesting *Christy Landes¹ (1. Rice Univ. (USA))</p>	<p>3:10 PM - 3:30 PM [S5-01-IL] Carborane derivative of perylene diimide for inverted perovskite solar cells with photo- and thermal stabilities *Won-Sik Han¹, Sunhee Lee¹, Jin Hyuck Heo², Sang Hyuk Im² (1. Seoul Women's Univ. (Korea), 2. Korea Univ. (Korea))</p>
<p>BREAK</p>		<p>BREAK</p>	
<p>Chair : Jayaraman Sivaguru</p> <p>4:00 PM - 4:20 PM [S1-33-IL] A possible explanation for the Cope rearrangement observed in the photosensitized reaction of diarylhexadiene using a TADF material *Hiroshi Ikeda¹ (1. Osaka Metropolitan Univ. (Japan))</p>	<p>Chair : Julia A. Weinstein</p> <p>4:00 PM - 4:15 PM [S2-30-CL] Triple phosphorescence. Electron transfer, intersystem crossing and adiabatic triplet photodissociation in spirocyclic donor-acceptor geometry *Jerzy Karpiuk¹, Elena Karpiuk¹ (1. Institute of Physics Polish Academy of Sciences (Poland))</p> <p>Chair : Julia A. Weinstein</p> <p>4:15 PM - 4:35 PM [S2-31-IL] Mechanism of photo-switchable proteins revealed by the synergy of time-resolved optical spectroscopy and crystallography *Michel Sliwa¹, Jacques-Philippe Colletier², Martin Weik² (1. CNRS, Univ. Lille (France), 2. CEA, CNRS, Univ. Grenoble Alpes (France))</p>	<p>Chair : James Hutchison</p> <p>4:00 PM - 4:15 PM [S3-31-CL] Mapping room-temperature polaron dynamics in double-perovskite nano-crystals by time-resolved impulsive stimulated Raman spectroscopy Amit Kumar¹, *Sakshi Chawla¹, Arijit K De¹ (1. Dept of Chemical Sciences, IISER Mohali (India))</p> <p>Chair : James Hutchison</p> <p>4:15 PM - 4:30 PM [S3-32-CL] Defect-induced Photoluminescence Enhancement in Single-Layer Graphene and Implication to Galactic Extended Red Emission *Yu-Jong Wu^{1,2}, Sheng-Lung Chou¹, Shu-Yu Lin², Tzu-Ping Huang¹, Meng-Yeh Lin¹, Yin-Yu Lee¹, Yuan-Pern Lee^{2,3} (1. National Synchrotron Radiation Research Center (Taiwan), 2. Department of Applied Chemistry and Institute for Molecular Science, National Yang Ming Chiao Tung Univ. (Taiwan), 3. Center for Emergent Functional Matter Science, National Yang Ming Chiao Tung Univ. (Taiwan))</p>	<p>Chair : Mio Kondo</p> <p>4:00 PM - 4:20 PM [S5-02-IL] Thermal Photocatalytic Dry Reforming of CH₄ and CO₂ using Ag-CrO₂ *Minoo Tasbihi¹, Sunil Kwon¹, Nguyen Anh Dung¹, Reinhard Schomäcker¹ (1. Technical Univ. of Berlin (Germany))</p> <p>Chair : Mio Kondo</p> <p>4:20 PM - 4:35 PM [S5-03-CL] Photon Upconversion in Aqueous Systems *Tatsuto Yui¹, Hibiki Umezawa¹, Tomoaki Miura¹, Tadaaki Ikoma¹ (1. Niigata Univ. (Japan))</p>

JULY 25 TUE

ROOM A

Chair : Jayaraman Sivaguru

4:35 PM - 4:50 PM

[S1-35-CL] Experimental Evidence of Chloride-Induced Trap Passivation in Lead Halide Perovskites through Single Particle Blinking Studies Handong Jin¹, Amitrajit Mukherjee¹, Johan Hofkens^{1,2}, *Elke Debroye¹ (1. KU Leuven (Belgium), 2. MPIP Mainz (Germany))

ROOM B

ROOM C

Chair : James Hutchison

4:30 PM - 4:45 PM

[S3-33-CL] cancelled

ROOM D

Chair : Mio Kondo

4:35 PM - 4:50 PM

[S5-04-CL] Tantalum nitride-enabled solar water splitting with efficiency above 10% *Yuriy Pihosh¹, Vikas Nandal², Tomohiro Higashi³, Kazuhiko Seki², Kazunari Domen^{1,4} (1. The Univ. of Tokyo (Japan), 2. National Institute of Advanced Industrial Science and Technology (Japan), 3. Institute for Tenure Track Promotion (Japan), 4. Shinshu Univ. (Japan))

JULY 26 WED

ROOM A	ROOM B	ROOM C	ROOM D
<p>Chair : Haruo Inoue and Hiroshi Ikeda</p> <p>9:00 AM - 9:45 AM [PL07] Mechanism of light-induced water-splitting in natural photosynthesis *Jian-Ren Shen¹ (1. Okayama Univ. (Japan))</p> <p>Chair : Haruo Inoue and Hiroshi Ikeda</p> <p>9:45 AM - 10:30 AM [PL08] Photoredox mechanisms and photocatalyst development *Oliver Wenger¹ (1. Univ. of Basel, Switzerland (Switzerland))</p>			
BREAK		BREAK	
<p>Chair : Yasunori Matsui</p> <p>11:00 AM - 11:15 AM [S1-36-CL] Morphology-dependent fluorescence of complex emulsions as real-time flow sensors *Che-Jen Lin¹, Narani Rakesh¹, Po-Chun Chang¹, Sofani Gebreyesus², Hsiung-Lin Tu² (1. National Dong Hwa Univ. (Taiwan), 2. Academia Sinica (Taiwan))</p> <p>11:15 AM - 11:35 AM [S1-37-IL] Cancelled</p>	<p>Chair : Marine Louis</p> <p>11:00 AM - 11:20 AM [S9-01-IL] Hard and soft lanthanide coordination polymers for future luminescent materials *Yasuchika Hasegawa¹ (1. Hokkaido Univ. (Japan))</p> <p>Chair : Marine Louis</p> <p>11:20 AM - 11:35 AM [S9-02-CL] A Comprehensive Study of the Structural and Optoelectronic Characteristics of (NH₄)₃Sb₂I₉ Single Crystals *Donato Valli¹, Martin Ottesen², Martin Bremholm², Steffen Wiedmann³, Paul Tinnemans³, Joris Van de Vondel¹, Elke Debroye¹, Maarten Roeffaers¹, Johan Hofkens¹, Masoumeh Keshavarz¹ (1. KU Leuven (Belgium), 2. Aarhus Univ. (Denmark), 3. Radboud Univ. (Netherlands))</p>	<p>Chair : Kosei Ueno</p> <p>11:00 AM - 11:15 AM [S3-34-CL] Polymer Domain Immobilization for Improved Stability in Non-Fullerene Based Organic Solar Cells *Kyungkon Kim¹ (1. Ewha Womans Univ. (Korea))</p> <p>Chair : Kosei Ueno</p> <p>11:15 AM - 11:30 AM [S3-35-CL] Mid-infrared selective optical sorting of microspheres based on molecular vibrational resonance *Yoshua Albert Darmawan¹, Takuma Goto¹, Taiki Yanagishima², Takao Fuji¹, Tetsuhiro Kudo¹ (1. Toyota Technological Institute (Japan), 2. Kyoto Univ. (Japan))</p>	<p>Chair : Sadahiro Masuo</p> <p>11:00 AM - 11:20 AM [S7-01-IL] Nanoscopic imaging of polymer microgel environments using fluorescence spectra and lifetimes *Dominik Wöll¹, Silvia P. Centeno¹, Oleksii Nevskiy¹, Ashvini Purohit¹, Pia Lenssen¹, Eric Siemes¹ (1. RWTH Aachen Univ. (Germany))</p> <p>Chair : Sadahiro Masuo</p> <p>11:20 AM - 11:35 AM [S7-02-CL] Nanoscale Characterization of Blended Recycled Polymers through Hydrogen-Bond Assisted Single Molecule Fluorescence Imaging *Chao-Chun Hsu¹, Albert Manfred Brouwer¹, Daniel Bonn² (1. van 't Hoff Institute for Molecular Sciences, Univ. of Amsterdam (Netherlands), 2. van der Waals-Zeeman Institute, Univ. of Amsterdam (Netherlands))</p>

JULY 26 WED

ROOM A

Chair : Yasunori Matsui

11:35 AM - 11:50 AM

[S1-38-CL] Study on photodecarbonylation of heptacene diketone using freeze-trapping ESR method

Mikaru Masuda¹, Joel Hao Jorolan^{1,2}, Hironobu Hayashi³, Hiroko Yamada⁴, Tomoaki Miura¹, *Tadaaki Ikoma¹ (1. Niigata Univ. (Japan), 2. Mindanao State Univ. - Iligan Inst. of Tech. (Philippines), 3. National Inst. for Materials Sci. (Japan), 4. Kyoto Univ. (Japan))

Chair : Yasunori Matsui

11:50 AM - 12:05 PM

[S1-39-CL] In-Situ Observation of Vapor-Induced Structural Transformation Dynamics of Novel Rhenium(I) Molecular Crystals

*Yuki Matsuda¹, Ryota Nakamura¹, Yoshiaki Ozawa¹, Keishiro Tahara¹, Toshikazu Ono², Nobuto Yoshinari³, Takumi Konno³, Kunihisa Sugimoto⁴, Shintaro Kobayashi⁵, Shogo Kawaguchi⁵, Masaaki Abe¹ (1. Univ. of Hyogo (Japan), 2. Kyushu Univ. (Japan), 3. Osaka Univ. (Japan), 4. Kindai Univ. (Japan), 5. Japan Synchrotron Radiation Research Institute (JASRI) (Japan))

ROOM B

Chair : Marine Louis

11:35 AM - 11:50 AM

[S9-03-CL] Unveiling the Origin of Red Photoluminescence in Silver-Titanosilicate Phosphors for LED Applications

*Giacomo Romolini¹, Li Sun¹, Didier Grandjean¹, Francesco d'Acapito^{2,3}, Cristina Martin⁴, Loredana Latterini⁵, Maarten B. J. Roeffaers¹, Johan Hofkens^{1,6} (1. KU Leuven (Belgium), 2. CNR-IOM-OGG (Italy), 3. ESRF - LISA (France), 4. Universidad de Castilla-La Mancha (Spain), 5. Università degli Studi di Perugia (Italy), 6. Max Planck Institute for Polymer Research (Germany))

Chair : Marine Louis

11:50 AM - 12:05 PM

[S9-04-CL] Single-Fluorophore-Based Organic Crystals with Distinct Conformers Enabling Wide-Range Excitation-Dependent Emissions

*Xiaogang Liu¹ (1. Singapore Univ. of Technology and Design (Singapore))

ROOM C

Chair : Kosei Ueno

11:30 AM - 11:45 AM

[S3-36-CL] Role of microstructure on exciton dynamics in low-dielectric environment

*JaeHong Park¹ (1. Department of Chemistry and Nanoscience, Ewha Womans Univ. (Korea))

Chair : Kosei Ueno

11:45 AM - 12:05 PM

[S3-37-IL] Bio-inspired optical cavities for strong light-matter interactions

*James Andell Hutchison¹, Jianfei Yu¹, Laura Ospina-Rozo², Devi Stuart-Fox², Ann Roberts³ (1. School of Chemistry, Univ. of Melbourne (Australia), 2. School of Biosciences, Univ. of Melbourne (Australia), 3. School of Physics, Univ. of Melbourne (Australia))

ROOM D

Chair : Sadahiro Masuo

11:35 AM - 11:50 AM

[S7-03-CL] Improved super-resolution imaging with cucurbituril-encapsulated fluorophores

*Liza Briant¹, Alexandre Fürstenberg¹ (1. Department of Physical Chemistry / Department of Inorganic and Analytical Chemistry (Switzerland))

Chair : Sadahiro Masuo

11:50 AM - 12:05 PM

[S7-04-CL] Taking Ultrafast Transient Absorption Microscopy to Widefield

*Martin Hörmann¹, Federico Visentin¹, Andrea Zanetta², Johann Osmond³, Giulia Grancini², Niek F. van Hulst^{3,4}, Matz Liebel³, Giulio Felice Cerullo^{1,5}, Franco Valduga de Almeida Camargo⁵ (1. Politecnico di Milano (Italy), 2. Univ. of Pavia (Italy), 3. ICFO (Spain), 4. CREA (Spain), 5. IFN-CNR (Italy))

LUNCH BREAK

LUNCH BREAK

Chair : Che-Jen Lin and Tadaaki Ikoma

Chair : Minoo Tasbihi and Akihiko Kudo

Chair : Kirk S Schanze and Tatsuto Yui

Chair : Tamitake Itoh and Thomas Basché

1:30 PM - 1:45 PM

[S1-40-CL] Polymorphic and Polymetallic Europium (III) Coordination Compounds based on Tris-*b*-diketonate Ligands toward Visible Circularly Polarized Luminescence-

*Tsuyoshi Kawai¹, Yan Bin Tan¹, Pablo Reine¹, Marine Louis¹ (1. Nara Institute of Science and Technology (Japan))

1:30 PM - 1:45 PM

[S5-05-CL] Photoreduction of CO₂ on Composite Bi₂WO₆/Cu₂O

*Ren-Jang Wu¹, Yu-Cheng Zhang¹ (1. Providence Univ. (Taiwan))

1:30 PM - 1:55 PM

[S6-01-KL] Photophysics and Electron Transfer Reactivity of Organic Ion Radicals

*Kirk S Schanze¹ (1. Univ. of Texas at San Antonio (USA))

1:30 PM - 1:50 PM

[S7-05-IL] Nanoscale photophysical properties and real-time in situ dynamics of halide perovskite films and nanocrystals

*Martin Vacha¹, Anubha Agarwal¹, Xiayan Wu¹, Toranosuke Takagi¹, Shun Omagari¹ (1. Tokyo Institute of Technology (Japan))

JULY 26 WED

ROOM A

Chair : Che-Jen Lin and Tadaaki Ikoma

1:45 PM - 2:00 PM

[S1-41-CL] Antenna effect of ytterbium complex having low-lying ligand-to-metal charge-transfer state

*Atsuko Masuya-Suzuki¹, Ryo Tsunashima¹, Nobuhiko Iki² (1. Yamaguchi Univ. (Japan), 2. Tohoku Univ. (Japan))

Chair : Che-Jen Lin and Tadaaki Ikoma

2:00 PM - 2:15 PM

[S1-42-CL] Hexadentate molecular structure of the lanthanide complexes for the luminescence variety

*Miki Hasegawa¹, Hitomi Omagari¹ (1. Aoyama Gakuin Univ. (Japan))

Chair Che-Jen Lin and Tadaaki Ikoma

2:15 PM - 2:30 PM

[S1-43-CL] Transient absorption spectroscopic analysis of energy transfer process in the upconversion system based on polymer composite

*Yasunori Matsui¹, Takumi Takahashi¹, Masaya Kanoh¹, Takuya Ogaki¹, Hiroshi Ikeda¹ (1. Osaka Metropolitan Univ. (Japan))

Chair : Che-Jen Lin and Tadaaki Ikoma

2:30 PM - 2:45 PM

[S1-44-CL] Hydrogen Bonding-Induced H-Aggregation for Fluorescence Turn-On of the GFP Chromophore

*Shih-Sheng Sun¹ (1. Institute of Chemistry, Academia Sinica (Taiwan))

ROOM B

Chair : Minoo Tasbihi and Akihiko Kudo

1:45 PM - 2:05 PM

[S5-06-IL] Design of Metal-Organic Frameworks and Reaction Systems for Efficient Photocatalytic H₂O₂ Production

*Hiromi Yamashita¹, Yoshifumi Kondo¹, Yasutaka Kuwahara¹, Kohsuke Mori¹ (1. Osaka Univ. (Japan))

Chair : Minoo Tasbihi and Akihiko Kudo

2:05 PM - 2:20 PM

[S5-07-CL] Supramolecular Control of Intermolecular Singlet Fission within Aqueous Colloidal Nanoparticles

*Ilias Papadopoulos¹, Joseph Ka-Ho Hui¹, Masa-aki Morikawa^{1,3}, Kenji Kaneko¹, Kiyoshi Miyata², Ken Onda², Nobuo Kimizuka^{1,3} (1. Graduate School of Engineering, Kyushu Univ. (Japan), 2. Graduate School of Science, Kyushu Univ. (Japan), 3. Center for Molecular Systems (CMS), Kyushu Univ. (Japan))

Chair : Minoo Tasbihi and Akihiko Kudo

2:20 PM - 2:40 PM

[S5-08-IL] A critical view on photoelectrochemical conversion technologies for solar fuels production

*Vincent Artero¹ (1. Univ. Grenoble Alpes, CNRS, CEA, IRIG, Laboratoire de Chimie et Biologie des Métaux (France))

Chair : Minoo Tasbihi and Akihiko Kudo

2:40 PM - 2:55 PM

[S5-09-CL] Photoinduced Transmembrane Electron Transfer in Phospholipid Bilayer

*Novitasari Sinambela¹, Andrea Pannwitz¹ (1. Univ. of Ulm (Germany))

ROOM C

Chair : Kirk S Schanze and Tatsuto Yui

1:55 PM - 2:10 PM

[S6-02-CL] Cancelled

Chair : Kirk S Schanze and Tatsuto Yui

2:10 PM - 2:25 PM

[S6-03-CL] Heavy-Atom Hydrogen-Bond Interactions Enable Photo-Aerobic Selenium- π -Acid-Catalyzed Enantioselective Reconstitutive Alkene Oxygenations

Sooyoung Park¹, *Eduard Frank¹, Elias Harrer¹, Julia Rehbein¹, Alexander Breder¹ (1. Institute for Organic Chemistry, Univ. of Regensburg (Germany))

Chair : Kirk S Schanze and Tatsuto Yui

2:25 PM - 2:45 PM

[S6-04-IL] 2-(4-Nitrophenyl)-1*H*-indolyl-3-methyl chromophore: A versatile photocage that responds to visible-light one-photon and near-infrared-light two-photon excitations

*Manabu Abe¹ (1. Hiroshima Univ. (Japan))

Chair : Kirk S Schanze and Tatsuto Yui

2:45 PM - 3:00 PM

[S6-05-CL] Functionalized Benzothiadiazole Non-Fused A-D-A'-D-A Small Molecules for Effective Electron Mobilities and Metal-free Photocatalysis

*Narendra Pratap Tripathi¹, Sanchita Sengupta² (1. IISER Mohali (India), 2. IISER Mohali (India))

ROOM D

Chair : Tamitake Itoh and Thomas Basché

1:50 PM - 2:05 PM

[S7-06-CL] Rapid Raman spectroscopy for single nanoparticles

*Sou Ryuzaki¹, Rintaro Matsuda², Keisuke Imaeda¹, Kosei Ueno¹ (1. Hokkaido Univ. (Japan), 2. Kyushu Univ. (Japan))

Chair : Tamitake Itoh and Thomas Basché

2:05 PM - 2:30 PM

[S7-07-KL] Visualizing mechanical contact and friction using fluorescent molecules

*Albert M Brouwer¹, Chao Chun Hsu¹, Begüm Demirkurt¹, Bart Weber², Daniel Bonn¹ (1. Univ. of Amsterdam (Netherlands), 2. Advanced Research Center for Nanolithography (Netherlands))

Chair : Tamitake Itoh and Thomas Basché

2:30 PM - 2:45 PM

[S7-08-CL] Primeval optical evolving matter by optical binding inside and outside the photon beam

*Roger Bresolí Obach^{1,2}, Chih-Hao Huang³, Boris Louis², Jui-Kai Chen², Tetsuhiro Kudo⁴, Rafael Camacho⁵, Ivan G. Scheblykin⁶, Teruki Sugiyama³, Johan Hofkens², Hiroshi Masuhara³ (1. Institut Químic de Sarrià, Universitat Ramon Llull (Spain), 2. Katholieke Universiteit Leuven (Belgium), 3. National Yang Ming Chiao Tung Univ. (Taiwan), 4. Toyota Technological Institute (Japan), 5. Sahlgrenska Academy (Sweden), 6. Lund Univ. (Sweden))

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ROOM A

Chair : Che-Jen Lin and Tadaaki Ikoma

2:45 PM - 3:00 PM

[S1-45-CL] Inorganic Chain Mediated Excitonic Properties in One-Dimensional Lead Halide Hybrid Perovskites

*Chen Xue¹, Sadafumi Nishihara², Kiyonori Takahashi¹, Ruikang Huang¹, Takayoshi Nakamura¹ (1. Hokkaido Univ. (Japan), 2. Hiroshima Univ. (Japan))

Chair : Che-Jen Lin and Tadaaki Ikoma

3:00 PM - 3:15 PM

[S1-46-CL] Fluorescence modulation through click chemistry

*Jean Rouillon¹, Carlos Benitez-Martin¹, Morten Grøtli², Joakim Andréasson¹ (1. Chalmers, Univ. of Technology (Sweden), 2. Univ. of Gothenburg (Sweden))

ROOM B

Chair : Minoo Tasbihi and Akihiko Kudo

2:55 PM - 3:10 PM

[S5-10-CL] Identification of Dominant Factors Contributing to Photocurrent Density of BiVO₄ Photoanodes Using Machine Learning

*Kenji Katayama¹, Kazuki Kobayashi¹, Yuya Nagai¹, Zhenhua Pan¹ (1. Chuo Univ. (Japan))

Chair : Minoo Tasbihi and Akihiko Kudo

3:10 PM - 3:25 PM

[S5-11-CL] Electron Transfer in Preassembled Photocatalysts based on Earth-Abundant Metals – A Quantum Chemical Perspective

Jia-Wei Wang¹, Georgina E. Shillito², *Stephan Kupfer² (1. Barcelona Institute of Science and Technology, (Spain), 2. Friedrich Schiller Univ. (Germany))

ROOM C

Chair : Kirk S Schanze and Tatsuto Yui

3:00 PM - 3:15 PM

[S6-06-CL] Establishment of the determination method for electron potentials of surface-modified metal oxide nanoparticles with Ru(II) photosensitizer

*Megumi Okazaki^{1,2}, Yasuomi Yamazaki³, Osamu Ishitani¹, Kazuhiko Maeda¹ (1. Tokyo Inst. of Tech. (Japan), 2. Japan Society for the Promotion of Science (Japan), 3. Univ. of Tokyo (Japan))

ROOM D

Chair : Tamitake Itoh and Thomas Basché

2:45 PM - 3:00 PM

[S7-09-CL] Lifetime Blinking in InP/ZnSexS1-x/ZnS Quantum Dots – Auger Recombination Suppression via Shell Engineering

*Yu Jin Lee¹, Dae-Yeon Jo², Taehee Kim¹, Jungho Jo², Jumi Park¹, Heesun Yang², Dongho Kim¹ (1. Yonsei Univ. (Korea), 2. Hongik Univ. (Korea))

Chair : Tamitake Itoh and Thomas Basché

3:00 PM - 3:15 PM

[S7-10-CL] Cancelled

BREAK

BREAK

Chair : Ken-ichi Yuyama

3:45 PM - 4:00 PM

[S9-05-CL] Phthalimide-Based Charge Transfer Chromophores for Thermally Activated Delayed Fluorescence

*Pria Ramkisson¹, Sanchari Debnath², Ulrike Salzner³, Christopher Hall¹, Trevor Smith¹, Satish Patil² (1. Univ. of Melbourne (Australia), 2. Indian Institute of Science (India), 3. Bilkent Univ. (Turkey))

Chair : Ken-ichi Yuyama

4:00 PM - 4:15 PM

[S9-06-CL] Exploring new pathways towards increased spatial resolution

*Carlos Benitez-Martin¹, Jean Rouillon¹, Prabhakar Cherkupally², Morten Grøtli², Uwe Pischel³, Joakim Andréasson¹ (1. Chalmers Univ. of Technology (Sweden), 2. Univ. of Gothenburg (Sweden), 3. Univ. of Huelva (Spain))

Chair : Stefan Haacke

3:45 PM - 4:10 PM

[S5-12-KL] Heterogeneous photocatalysts for artificial photosynthesis aiming at carbon neutral

*Akihiko Kudo¹ (1. Tokyo Univ. of Science (Japan))

Chair : Manabu Abe

3:45 PM - 4:05 PM

[S6-07-IL] Surface-Fixation Induced Emission (S-FIE) of Organic Dyes on the Inorganic Flat Surface

Hakan Mori¹, Kyosuke Arakawa¹, Tamao Ishida¹, Tetsuya Shimada¹, Eietsu Hasegawa², *Shinsuke Takagi¹ (1. Tokyo Metropolitan Univ. (Japan), 2. Niigata Univ. (Japan))

Chair : Manabu Abe

4:05 PM - 4:20 PM

[S6-08-CL] Light intensity-dependence analysis of photocatalytic oxygen reduction by platinumized tungsten(VI) oxide

*Mai Takashima¹, Chiharu Yamada², Bunsho Ohtani^{3,2} (1. Nagoya Univ. (Japan), 2. Hokkaido Univ. (Japan), 3. touché NPO (Japan))

Chair : Dominik Wöll

3:45 PM - 4:05 PM

[S7-11-IL] The energy gap law at work: Emission yield and rate fluctuations of single NIR emitters

*Thomas Basché¹ (1. Department of Chemistry, Johannes Gutenberg-Univ. (Germany))

Chair : Dominik Wöll

4:05 PM - 4:20 PM

[S7-12-CL] Correlation between Single-Photon Emission and Size of Cesium Lead Bromide Perovskite Nanocrystals

*Sadahiro Masuo¹, Hina Igarashi¹, Mitsuaki Yamauchi² (1. Kwansei Gakuin Univ. (Japan), 2. Kyoto Univ. (Japan))

JULY 26 WED

ROOM A

Chair : Ken-ichi Yuyama

4:15 PM - 4:35 PM

[S9-07-IL] Three-State Negative Photochromism with a Single Photochromic Unit

*Jiro Abe¹ (1. Aoyama Gakuin Univ. (Japan))

Chair : Ken-ichi Yuyama

4:35 PM - 4:50 PM

[S9-08-CL] Transient Energy-resolved Photoluminescence Study of FAPbBr₃/Semiconductors Interfaces: TiO₂ vs SnO₂

*Xinjian Geng¹, Yawen Liu¹, Xianshao Zou¹, Erik M.J. Johansson¹, Jacinto Sá^{1,2} (1. Uppsala Univ. (Sweden), 2. Polish Academy of Sciences (Poland))

ROOM B

Chair : Stefan Haacke

4:10 PM - 4:25 PM

[S5-13-CL] Understanding the Charge Transportation in Different Interfacial Contact of Bi₂WO₆/WO₃ Heterojunction for Photo-Water Oxidation

*Hoi Ying Chung¹, Yun Hau Ng¹
(1. City Univ. of Hong Kong (Hong Kong))

Chair : Stefan Haacke

4:25 PM - 4:40 PM

[S5-14-CL] Plasmonic Nanoarchitectures to Concentrate Light for Efficient Nitrogen-to-Ammonia Conversion

*Hiang Kwee Lee¹
(1. Nanyang Technological Univ. (Singapore))

Chair : Stefan Haacke

4:40 PM - 4:55 PM

[S5-15-CL] Mystery solved: Multiscale approach reveals the first step in the molecular self-assembly of an artificial light-harvesting complex

*Mónica Karem Espinoza Cangahuala¹, Thomas la Cour Jansen¹ (1. Zernike Institute for Advanced Materials, Univ. of Groningen (Netherlands))

ROOM C

Chair : Manabu Abe

4:20 PM - 4:45 PM

[S6-09-KL] Controlling Photochemical Processes via Confinement: Space as a Tool in Photochemistry

*Vaidhyanathan Ramamurthy¹
(1. Univ. of Miami (USA))

ROOM D

Chair : Dominik Wöll

4:20 PM - 4:35 PM

[S7-13-CL] Electromagnetic enhancement induced by subradiant plasmon resonance examined by asymmetric silver nanoparticle dimers

*Tamitake Itoh¹, Yamamoto S. Yuko²
(1. National Institute of Advanced Industrial Science and Technology (AIST) (Japan), 2. Japan Advanced Institute of Science and Technology (JAIST) (Japan))

Chair : Dominik Wöll

4:35 PM - 4:50 PM

[S7-14-CL] Luminescent lanthanide complexes reveal tunable second harmonic generation and sub-terahertz Raman response

*Kunal Kumar¹, Olaf Stefanczyk¹, Koji Nakabayashi¹, Kenta Imoto¹, Yurie Oki¹, Shin-ichi Ohkoshi¹
(1. The Univ. of Tokyo (Japan))

JULY 27 THU

ROOM A	ROOM B	ROOM C	ROOM D
<p>Chair : Akihiko Kudo and Tetsuya Taketsugu</p> <p>9:00 AM - 9:45 AM [PL09] Supramolecular Architectures for Artificial Photosynthesis: The Quantasome Vision *Bonchio Marcella¹ (1. Univ. of Padova (Italy))</p> <p>Chair : Akihiko Kudo and Tetsuya Taketsugu</p> <p>9:45 AM - 10:30 AM [PL10] Comparative Quantum-Classical Dynamics of Natural and Synthetic Molecular Rotors Reveals the Determinants of Photoisomerization Quantum Efficiency *Massimo Olivucci¹ (1. Univ. of Sienna, Italy & Bowling Green State Univ., USA (Italy))</p>			
BREAK		BREAK	
<p>Chair : Kei Ohkubo</p> <p>11:00 AM - 11:25 AM [S9-09-KL] Dynamic Exciton: Fundamental and Applications *Hiroshi Imahori¹ (1. Kyoto Univ. (Japan))</p> <p>Chair : Kei Ohkubo</p> <p>11:25 AM - 11:40 AM [S9-10-CL] Toward photoinduced reversible switching of charge mobility in the solid state *Chiara Taticchi^{1,2}, Federico Nicoli^{1,2}, Mattia Zangoli², Serena Silvi^{1,2}, Alberto Credi^{1,2}, Francesca Di Maria², Massimo Baroncini^{1,2} (1. Univ. of Bologna (Italy), 2. Istituto ISOF-CNR (Italy))</p>	<p>Chair : Ryu Abe</p> <p>11:00 AM - 11:20 AM [S5-16-IL] Manipulation of Charge Transportation in Oxide Photocatalysts for Solar Fuels Production *Yun Hau Ng¹ (1. City Univ. of Hong Kong (Hong Kong))</p> <p>Chair : Ryu Abe</p> <p>11:20 AM - 11:35 AM [S5-17-CL] Efficient green hydrogen production by a customized double-junction GaAs photovoltaic device and a water splitting electrolyzer *Masayuki Yagi¹, Zaki N. Zahran¹, Yugo Miseki², Yuta Tsubonouchi¹, Kikuo Makita², Takeyoshi Sugaya², Kazuhiro Sayama² (1. Niigata Univ. (Japan), 2. National Institute of Advanced Industrial Science and Technology (Japan))</p>	<p>Chair : Vaidhyanathan Ramamurthy</p> <p>11:00 AM - 11:15 AM [S6-10-CL] Protein photodamaging mechanism by hydrophobic and cationic porphyrins and phthalocyanines *Kazutaka Hirakawa¹, Takahisa Ikeue², Shigetoshi Okazaki³ (1. Shizuoka Univ. (Japan), 2. Shimane Univ. (Japan), 3. Hamamatsu Univ. School of Medicine (Japan))</p> <p>Chair : Vaidhyanathan Ramamurthy</p> <p>11:15 AM - 11:30 AM [S6-11-CL] Visible-light driven photocatalytic CO₂ reduction promoted by organic photosensitizers and a Mn(II) catalyst *Yusuke Tamaki¹, Elena Bassan², Rei Inoue¹, Francesco Calogero², Pier Giorgio Cozzi², Paola Ceroni², Osamu Ishitani^{1,3} (1. Tokyo Tech. (Japan), 2. Univ. Bologna (Italy), 3. Hiroshima Univ. (Japan))</p>	<p>Chair : Martin Vacha</p> <p>11:00 AM - 11:20 AM [S7-15-IL] Cooperative optical trapping dynamics of protein at solution interface *Hiroshi Masuhara¹ (1. National Yang Ming Chiao Tung Univ. (Taiwan))</p> <p>Chair : Martin Vacha</p> <p>11:20 AM - 11:35 AM [S7-16-CL] Unraveling Structural Dynamics of G-quadruplex DNA Labeled with Single Cyanine Dye Using Single-Molecule Spectroscopy *Chao-Han Cheng¹, Chih-Chieh Ko¹, Yong-Zhan Hong¹ (1. National Pingtung Univ. (Taiwan))</p>

JULY 27 THU

ROOM A

Chair : Kei Ohkubo

11:40 AM - 11:55 AM

[S9-11-CL] Optimizing Charge Transfer-Mediated Intersystem Crossing in Triplet Sensitizers for Application in Photopolymerizable Materials

*Mikhail Filatov¹ (1. Technological Univ. Dublin (Ireland))

Chair : Kei Ohkubo

11:55 AM - 12:10 PM

[S9-12-CL] Enhanced luminescence and thermal stability of Eu(III) hybrid material linked by tetramethylammonium acetate

*Ziying Li¹, Kazuki Nakamura¹, Norihisa Kobayashi¹ (1. Chiba Univ. (Japan))

ROOM B

Chair : Ryu Abe

11:35 AM - 11:50 AM

[S5-18-CL] Ultrafast spectroscopy for understanding CO₂ reduction mechanisms of photosensitizer-catalyst dyad molecular systems

*Kiyoshi Miyata¹, Yuushi Shimoda¹, Kei Kamogawa², Yasuomi Yamazaki³, Yusuke Tamaki⁴, Osamu Ishitani^{2,5}, Takumi Ehara¹, Teruyuki Honda¹, Ren Sato⁶, Yusuke Kuramochi⁶, Akiharu Satake⁶, Ken Onda¹ (1. Kyushu Univ. (Japan), 2. Tokyo Institute of Technology (Japan), 3. The Univ. of Tokyo (Japan), 4. National Institute of Advanced Industrial Science and Technology (Japan), 5. Hiroshima Univ. (Japan), 6. Tokyo Univ. of Science (Japan))

Chair : Ryu Abe

11:50 AM - 12:15 PM

[S5-19-KL] Visible light induced two-electron water splitting into H₂/H₂O₂ in molecular catalyst sensitized system

*Haruo Inoue¹ (1. Tokyo Metropolitan Univ. (Japan))

ROOM C

Chair : Vaidhyanathan Ramamurthy

11:30 AM - 11:45 AM

[S6-12-CL] Compartmentalization and light harvesting for artificial photosynthesis

*Roland Nau¹, Julian Bösking¹, Andrea Pannwitz¹ (1. Univ. of Ulm (Germany))

ROOM D

Chair : Martin Vacha

11:35 AM - 11:50 AM

[S7-17-CL] Similar, yet so different - silver nanoclusters on similar bifunctional DNA strands exhibit different optical properties

*Patrycja Filipczuk¹, Anna Dembska¹ (1. Bioanalytical Chemistry Department, Faculty of Chemistry, Adam Mickiewicz Univ. (Poland))

Chair : Martin Vacha

11:50 AM - 12:10 PM

[S7-18-IL] Blinking in perovskites: friend or foe?

*Johan Hofkens^{1,2,3,4}, Elke Debroye¹, Maarten Roeffaers¹, Bapi Pradhan¹, sudipta Seth¹, Boris Louis¹, Lata Chouhan¹, Amitrajit Amitrajit¹ (1. KULeuven (Belgium), 2. MPIP Mainz (Germany), 3. Zhejiang Univ. (China), 4. Jiangnan Univ. (China))

JULY 28 FRI

ROOM A

Chair : Dominik Wöll and Tsukasa Torimoto

9:00 AM - 9:45 AM

[PL11] Materials Design for Implementing High Voltage Perovskite Solar Cells

*Tsutomu Miyasaka¹

(1. Toin Univ. of Yokohama (Japan))

Chair : Dominik Wöll and Tsukasa Torimoto

9:45 AM - 10:30 AM

[PL12] Development of Exciton Processes Aimed at High-Performance TADF and Hyperfluorescence OLEDs

*Chihaya Adachi¹ (1. Kyushu Univ. (Japan))

ROOM B

BREAK

Chair : Ayumi Ishii

11:00 AM - 11:15 AM

[S9-13-CL] Binaphthalimide motif as chiral scaffold for thermally activated delayed fluorescence and circularly polarized luminescence activity

*Marine Louis¹, Yugo Tsuji¹, Natsuko Kanno², Katsuyuki Shizu², Hironori Kajii², Tsuyoshi Kawai¹

(1. Nara institute of Science and Technology (Japan), 2. Kyoto Univ. (Japan))

Chair : Ayumi Ishii

11:15 AM - 11:30 AM

[S9-14-CL] Human brain tumor diagnosis using luminescent Eu(III) complex

*Mengfei Wang^{1,3}, Masaya Kono², Yusaku Yamaguchi², Sunao Shoji^{1,3}, Yuichi Kitagawa^{1,3}, Koji Fushimi³, Masumi Tsuda^{1,4}, Shinya Tanaka^{1,4}, Yasuchika Hasegawa^{1,3} (1. Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Hokkaido Univ. (Japan), 2. Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ. (Japan), 3. Fac. of Eng., Hokkaido Univ. (Japan), 4. Fac. of Med., Hokkaido Univ. (Japan))

Chair : Hisanao Usami

11:00 AM - 11:15 AM

[S5-20-CL] Strategies to enhance the photostability of coordination complexes, from single molecule to complex materials

*Pau Farràs¹, Roberto Gonzalez-Gomez¹, Sean Hennessey¹ (1. Univ. of Galway (Ireland))

Chair : Hisanao Usami

11:15 AM - 11:30 AM

[S5-21-CL] Red-light-driven CO₂ reduction using an osmium complex as a panchromatic self-photosensitized catalyst

*Jieun Jung¹, Kenji Kamada¹, Susumu Saito^{1,2} (1. Graduate School of Science, Nagoya Univ. (Japan), 2. Integrated Research Consortium on Chemical Sciences, Nagoya Univ. (Japan))

ROOM C

Chair : Kyung-Ryang Wee

11:00 AM - 11:15 AM

[S6-13-CL] Morphology-Controlled Synthesis of Metalloporphyrin Coordination Polymer Particles (CPPs) for Photocatalytic Reactions and its Trace-Identification by Surface Enhanced Raman Spectroscopy (SERS)

*Yu Sun¹ (1. Hokkaido Univ. (Japan))

Chair : Kyung-Ryang Wee

11:15 AM - 11:30 AM

[S6-14-CL] The electron donating behavior of DMSO in the excited state intermolecular proton transfer reaction of pyrene-urea compounds

*Leyun Huang¹, Mayu Yoshida¹, Yoshinobu Nishimura¹ (1. Univ. of Tsukuba (Japan))

ROOM D

BREAK

Chair : Yasutaka Kitagawa

11:00 AM - 11:25 AM

[S8-01-KL] Explaining, Predicting and Discovering Photochemistry from First Principles

*Todd Martinez^{1,2} (1. Stanford Univ. (USA), 2. SLAC National Accelerator Laboratory (USA))

Chair : Yasutaka Kitagawa

11:25 AM - 11:40 AM

[S8-02-CL] Modeling ultrafast charge-transfer in organic photovoltaic materials from first-principles: the role of quantum vibrations, environment disorder and light pulse shape

*Elisa Palacino Gonzalez¹, Thomas la Cour Jansen¹ (1. Univ. of Groningen (Netherlands))

JULY 28 FRI

ROOM A	ROOM B	ROOM C	ROOM D
<p style="text-align: right;">Chair : Ayumi Ishii</p> <p>11:30 AM - 11:45 AM [S9-15-CL] Development of Indigos as Red-Light Photoswitches *Chung-Yang (Dennis) Huang¹, Amit Kumar Jaiswal¹, Priya Saha¹, Anna Jasny², Stefan Hecht² (1. ICRReDD, Hokkaido University (Japan), 2. Humboldt Univ. at Berlin (Germany))</p> <p style="text-align: right;">Chair : Ayumi Ishii</p> <p>11:45 AM - 12:00 PM [S9-16-CL] Cancelled</p>	<p style="text-align: right;">Chair : Hisanao Usami</p> <p>11:30 AM - 11:55 AM [S5-22-KL] Mixed-Anion Photocatalysts for Visible-Light-Induced Water Splitting *Ryu Abe¹ (1. Kyoto Univ. (Japan))</p>	<p style="text-align: right;">Chair : Kyung-Ryang Wee</p> <p>11:30 AM - 11:45 AM [S6-15-CL] Polymetallic Ir(III) and Ru(II) Photosensitisers for Photoredox Catalysed Organic Transformation Reactions *Tara Kelly Davids¹, Nozuko Motimani², Siyabonga Ngubane³, Wade Petersen⁴, Gregory Smith⁵ (1. Univ. of Cape Town (South Africa), 2. Univ. of Cape Town (South Africa), 3. Univ. of Cape Town (South Africa), 4. Univ. of Cape Town (South Africa), 5. Univ. of Cape Town (South Africa))</p> <p style="text-align: right;">Chair : Kyung-Ryang Wee</p> <p>11:45 AM - 12:05 PM [S6-16-IL] High-yield triplet exciton generation through singlet fission for efficient light energy conversion *Taku Hasobe¹ (1. Faculty of Science and Technology, Keio Univ. (Japan))</p>	<p style="text-align: right;">Chair : Yasutaka Kitagawa</p> <p>11:40 AM - 11:55 AM [S8-03-CL] Photochemistry, photophysics and spectroscopy using high-dimensional quantum wave packets and <i>ab initio</i> potential energy surfaces *David Picconi¹ (1. Zernike Institute for Advanced Materials, Univ. of Groningen (Netherlands))</p> <p style="text-align: right;">Chair : Yasutaka Kitagawa</p> <p>11:55 AM - 12:10 PM [S8-04-CL] Excited-state density functional tight-binding for simulation and virtual screening of molecular photophysical properties Megan Y. Deshayes¹, Zoe A. Pollard¹, Gunnar J. Carlson¹, Alex T. Wrede¹, Reuben A. Szabo¹, *Tim Kowalczyk¹ (1. Western Washington Univ. (USA))</p>
LUNCH BREAK		LUNCH BREAK	
<p style="text-align: right;">Chair : Vincent Chi-Chiu Ko and Yasuchika Hasegawa</p> <p>1:30 PM - 1:45 PM [S9-17-CL] Up-conversion Induced Near-infrared Light Detection in Lead Halide Perovskite with Core-shell Lanthanide Nanoparticles *Ayumi Ishii¹ (1. Waseda Univ. (Japan))</p>	<p style="text-align: right;">Chair : Shigeyuki Masaoka and Wei-Yin Sun</p> <p>1:30 PM - 1:45 PM [S5-23-CL] Solar fuel production by photo-redox-cascade catalyst composing dual photosensitizers and transparent hole acceptor *Atsushi Kobayashi¹, Nobutaka Yoshimura¹, Masaki Yoshida² (1. Hokkaido Univ. (Japan), 2. Kwansei Gakuin Univ. (Japan))</p>	<p style="text-align: right;">Chair : Yu Sun and Yoshinobu Nishimura</p> <p>1:30 PM - 1:50 PM [S6-17-IL] Development of Stable Dye-sensitized Photoelectrosynthesis Cell by Electropolymerization Strategy for Solar Fuel Production *Kyung-Ryang Wee¹ (1. Daegu Univ. (Korea))</p>	<p style="text-align: right;">Chair : Miho Hatanaka</p> <p>1:30 PM - 1:45 PM [S8-05-CL] <i>In silico</i> frontier orbital energy design of photosensitizer by multivariate analysis and density functional theory calculation *Yasutaka Kitagawa^{1,2,3,4,5}, Kazuaki Tokuyama¹, Hiromasa Sato¹, Mitsuhiro Nishida¹, Naoka Amamizu¹, Yuta Hayashi¹, Keisuke Sasaki¹, Masahiro Tsuda¹, Ryohei Kishi^{1,2,3,5} (1. Graduate School of Engineering Science, Osaka Univ. (Japan), 2. IQIB, Osaka Univ. (Japan), 3. ICS-OTRI, Osaka Univ. (Japan), 4. SRN-OTRI, Osaka Univ. (Japan), 5. RCSEC, Osaka Univ. (Japan))</p>

JULY 28 FRI

ROOM A

Chair : Vincent Chi-Chiu Ko and
Yasuchika Hasegawa

1:45 PM - 2:00 PM

[S9-18-CL] Paper-based fluorescent microarray devices for pattern recognition-driven chemical sensing

*Tsuoyoshi Minami¹ (1. Univ. of Tokyo (Japan))

Chair : Vincent Chi-Chiu Ko and
Yasuchika Hasegawa

2:00 PM - 2:15 PM

[S9-19-CL] Metal Acyclic Carbene Complexes: Luminescent Mechanochromism and Applications

*Vincent Chi-Chiu Ko¹ (1. Department of Chemistry, City Univ. of Hong Kong (Hong Kong))

Chair : Vincent Chi-Chiu Ko and
Yasuchika Hasegawa

2:15 PM - 2:35 PM

[S9-20-IL] Tunable Optical Properties of Less-toxic Multinary Quantum Dots Composed of Ag–In–Ga–S Alloys and Related Compounds

*Tsukasa Torimoto¹, Tatsuya Kameyama¹, Taro Uematsu², Susumu Kuwabata² (1. Graduate School of Engineering, Nagoya Univ. (Japan), 2. Graduate School of Engineering, Osaka Univ. (Japan))

ROOM B

Chair : Shigeyuki Masaoka and Wei-Yin Sun

1:45 PM - 2:00 PM

[S5-24-CL] Enhancing Electrocatalytic Oxygen Reduction Reaction through Laser Excitation of Plasmonic Metal – Semiconductor Metal Oxide Heterojunctions

*Joey Andrew Arquisola Valinton¹, Min-Chuan Chung¹, Wei-Quan Chen¹, Chun-Hu Chen¹ (1. National Sun Yat-sen Univ. (Taiwan))

Chair : Shigeyuki Masaoka and Wei-Yin Sun

2:00 PM - 2:15 PM

[S5-25-CL] Multi-dentate Coordination of Triethanolamine to Zn Porphyrin and Re Complex Enhancing Photocatalytic CO₂ Reduction

*Yusuke Kuramochi¹, Yuto Suzuki¹, Akiharu Satake¹ (1. Tokyo Univ. of Science (Japan))

Chair : Shigeyuki Masaoka and Wei-Yin Sun

2:15 PM - 2:35 PM

[S5-26-IL] Development of Molecular Catalysts for Photosynthetic Reactions

*Shigeyuki Masaoka¹ (1. Osaka Univ. (Japan))

ROOM C

Chair : Yu Sun and Yoshinobu Nishimura

1:50 PM - 2:05 PM

[S6-18-CL] Photoexcited charge manipulation in π -conjugated polymers bearing metal-complex catalysts for visible-light CO₂ reduction

*Akinobu Nakada^{1,2}, Chen Zhang¹, Ryuichi Miyakawa³, Hajime Suzuki¹, Kosaku Kato⁴, Akinori Saeki⁵, Akira Yamakata⁴, Hiromi Nakai⁶, Ho-Chol Chang³, Ryu Abe¹ (1. Kyoto Univ. (Japan), 2. PRESTO/JST (Japan), 3. Chuo Univ. (Japan), 4. Okayama Univ. (Japan), 5. Osaka Univ. (Japan), 6. Waseda Univ. (Japan))

Chair : Yu Sun and Yoshinobu Nishimura

2:05 PM - 2:20 PM

[S6-19-CL] Effects of doping of rare earth elements on activity of SrTiO₃-based photocatalysts for overall water splitting

*Shigeru Ikeda¹, Riku Okamoto¹, Ryota Tomizawa², Taizo Masuda², Koichiro Nakatani² (1. Konan Univ. (Japan), 2. TOYOTA MOTOR CORPORATION (Japan))

Chair : Yu Sun and Yoshinobu Nishimura

2:20 PM - 2:35 PM

[S6-20-CL] Photoaerobic Oxidative *N*-Allylation of Azoles Enabled by Selenium- π -Acid Catalysis

*Theresa Appleson¹, Tao Lei¹, Alexander Breder¹ (1. Univ. of Regensburg (Germany))

ROOM D

Chair : Miho Hatanaka

1:45 PM - 2:00 PM

[S8-06-CL] "In-silico" Modelling of Fluorescence

*Daniel Escudero¹ (1. KU Leuven (Belgium))

Chair : Miho Hatanaka

2:00 PM - 2:20 PM

[S8-07-IL] Valence configuration interaction analysis for excitation properties of open-shell singlet molecules and molecular aggregates

*Ryohei Kishi^{1,2,3,4}, Yasutaka Kitagawa^{1,2,3,4,5} (1. Graduate School of Engineering Science, Osaka Univ. (Japan), 2. QIQB, Osaka Univ. (Japan), 3. ICS-OTRI, Osaka Univ. (Japan), 4. RCSEC, Osaka Univ. (Japan), 5. SRN-OTRI, Osaka Univ. (Japan))

Chair : Ryohei Kishi

2:20 PM - 2:40 PM

[S8-08-IL] On-the-fly molecular dynamics and reduced dimensionality analysis of excited-state branching reactions of stilbene derivatives

*Tetsuya Taketsugu¹ (1. Hokkaido Univ. (Japan))

JULY 28 FRI

ROOM A

Chair : Vincent Chi-Chiu Ko and
Yasuchika Hasegawa

2:35 PM - 2:50 PM

[S9-21-CL] Photothermally driven natural vibration of molecular crystal actuators

*Yuki Hagiwara¹, Shodai Hasebe¹, Hiroki Fujisawa², Junko Morikawa², Toru Asahi¹, Hideko Koshima¹ (1. Waseda Univ. (Japan), 2. Tokyo Institute of Technology (Japan))

Chair : Vincent Chi-Chiu Ko and
Yasuchika Hasegawa

2:50 PM - 3:05 PM

[S9-22-CL] Microprinting of hemispherical droplet laser array with optical vortex laser-induced forward transfer

*Ken-ichi Yuyama¹, Haruki Kawaguchi², Rong Wei², Takashige Omatsu² (1. Osaka Metropolitan Univ. (Japan), 2. Chiba Univ. (Japan))

ROOM B

Chair : Shigeyuki Masaoka and Wei-Yin Sun

2:35 PM - 2:50 PM

[S5-27-CL] Development of Function-Integrated Catalytic Systems for Photochemical CO₂ Reduction

*Mio Kondo^{1,2} (1. Graduate School of Engineering, Osaka Univ. (Japan), 2. JST PRESTO (Japan))

Chair : Shigeyuki Masaoka and Wei-Yin Sun

2:50 PM - 3:05 PM

[S5-28-CL] Redox-mediated Z-scheme water splitting utilizing CuLi_{1/3}Ti_{2/3}O₂ as H₂-evolving photocatalyst

*Hideki Kato¹, Tanya Kurutach¹, Qingshan Liu¹, Toshiki Yamanaka¹, Shunya Yoshino¹, Makoto Kobayashi² (1. Tohoku Univ. (Japan), 2. Nagoya Univ. (Japan))

3:05 PM - 3:20 PM

[S5-29-CL] Cancelled

Chair : Shigeyuki Masaoka and Wei-Yin Sun

3:20 PM - 3:35 PM

[S5-30-CL] Photochemical Conversion of Biogas to Liquid Bioenergy with Chlorine Dioxide

*Kei Ohkubo¹ (1. Osaka Univ. (Japan))

ROOM C

Chair : Yu Sun and Yoshinobu Nishimura

2:35 PM - 2:50 PM

[S6-21-CL] Elucidation of carrier dynamics in visible light absorbing photocatalyst for overall water splitting by transient absorption spectroscopy

*Ryota Shoji¹, Vikas Nandal¹, Hiroyuki Matsuzaki¹, Kazuhiko Seki¹, Hiroaki Yoshida², Lishua Lin³, Pan Zhenhua³, Aihiro Furube⁴, Takashi Hisatomi³, Kazunari Domen^{3,5} (1. Tsukuba AIST (Japan), 2. Mitsubishi Chemical Corp. (Japan), 3. Shinshu Univ. (Japan), 4. Tokushima Univ. (Japan), 5. Office of Univ. professors., Tokyo Univ. (Japan))

Chair : Yu Sun and Yoshinobu Nishimura

2:50 PM - 3:05 PM

[S6-22-CL] Triplet-triplet annihilation up-conversion sensitizes metal oxide nanoparticles for photocatalytic reactions

*Sandra Patricia Gonzalez Lopez^{1,2}, Julien Gorenflot^{1,2}, Patrick Murton³, Maximilian Moser³, Iain McCulloch³, Frédéric Laquai^{1,2} (1. King Abdullah Univ. of Science and Technology (KAUST) (Saudi Arabia), 2. KAUST Solar Center (KSC) (Saudi Arabia), 3. Univ. of Oxford (UK))

3:05 PM - 3:20 PM

[S6-23-CL] Cancelled

Chair : Yu Sun and Yoshinobu Nishimura

3:20 PM - 3:35 PM

[S6-24-CL] Mechanistic insights to the photocatalytic reduction of CO₂ in humid vapor phase on Pt/TiO₂: an *operando* FTIR study

*Joudy Dankar^{1,2}, Céline Pagis¹, Mickael Rivallan¹, Mohamad El Roz² (1. IFPEN (France), 2. LCS (France))

ROOM D

Chair : Ryohei Kishi

2:40 PM - 2:55 PM

[S8-09-CL] A global prediction of the Kataura plot for chiral carbon nanotubes: Topological family effect revealed in the natural helical crystal lattice scheme

Chi-You Liu¹, Jung-Yin Hsiao¹, *Elise Yu-Tzu Li¹ (1. National Taiwan Normal Univ. (Taiwan))

Chair : Ryohei Kishi

2:55 PM - 3:15 PM

[S8-10-IL] Phosphorescent Intensity of Cyclometalated Iridium(III) Complexes: A Combined DFT and Machine Learning Approach

*Miho Hatanaka¹ (1. Keio Univ. (Japan))