

## Oral Presentations

The duration of each category (inclusive of a brief Q&A session) is as follows:

- 1) Porter Medal: 45 minutes
- 2) Plenary: 40 minutes
- 3) Keynote: 30 minutes
- 4) Invited: 20 minutes
- 5) Contributed: 15 minutes

### Monday, 17<sup>th</sup> December, 2018

Welcome & Plenary Session (Convention Hall)		
09:00	<i>Welcome</i>	Welcome Speech by Conference Chair, <b>Huan-Cheng Chang</b> Greetings from the President of the Asian and Oceanian Photochemistry Association (APA), <b>Vivian Wing-Wah Yam</b>
09:10	<i>Welcome</i>	Welcome Speech by the Vice President of Academia Sinica, <b>Mei-Yin Chou</b> Welcome Speech by Chair Professor of Chemistry and the former Vice President of National Taiwan University, <b>Shie-Ming Peng</b>
09:30	<i>Plenary</i>	Benchmarking the Polyatomic Reactions of X + Methane, <b>Kopin Liu</b> (Academia Sinica)
10:10		Group Photo/Announcements
10:20	<b>Morning break</b>	
Plenary Session (Convention Hall)		
Chair: <b>Vivian Wing-Wah Yam</b>		
10:40	<i>Porter Medal</i>	Energy Flow in Chemical Reactions and Supra-Molecular Systems, <b>Haruo Inoue</b> (Tokyo Metropolitan University)
11:30	<i>Plenary</i>	Artificial Photosynthesis for Solar Energy Conversion, <b>Li-Zhu Wu</b> (University of Chinese Academy of Science)
12:10	<b>Lunch</b>	
Parallel Sessions		
Parallel Session 1: Photophysics and Photochemistry (Convention Hall)		
Chair: <b>Wen-Bih Tzeng</b>		
13:30	<i>Keynote</i>	Time-Resolved Spectroscopic Studies of Excited States and Reactive Intermediates of Selected Solution Phase Photochemical Reactions, <b>David Lee Phillips</b> (The University of Hong Kong)
14:00	<i>Invited</i>	Spectroscopic Diagnosis of Excited-State Aromaticity: Capturing Electronic Structures and Conformations upon Aromaticity Reversal, <b>Dongho Kim</b> (Yonsei University)
14:20	<i>Invited</i>	On-the-Fly Molecular Dynamics Approach to Photoisomerization of Stilbene Derivatives, <b>Tetsuya Taketsugu</b> (Hokkaido University)
14:40	<i>Invited</i>	Controlling Singlet Fission Yield of TIPS-Pentacene in a Polymer Matrix, <b>Tak Kee</b> (University of Adelaide)
Parallel Session 2: Solar Energy Materials and Photocatalysis (Conference Room)		
Chair: <b>Akihiko Kudo</b>		

13:30	<i>Keynote</i>	New Directions to Development of Photocatalytic CO <sub>2</sub> Reduction, <b>Osamu Ishitani</b> (Tokyo Institute of Technology)
14:00	<i>Invited</i>	Design of Semiconductor Hybrids for Water Oxidation and H <sub>2</sub> O <sub>2</sub> Production under Solar Irradiation, <b>Wonyong Choi</b> (Pohang University of Science and Technology)
14:20	<i>Invited</i>	Photocatalytic CO <sub>2</sub> Reduction by Ruthenium Bipyridyl Complexes toward Artificial Photosynthesis, <b>Hitoshi Ishida</b> (Kitasato University)
14:40	<i>Contributed</i>	Development of Hierarchical Mesocrystals for Efficient Photocatalysis, <b>Takashi Tachikawa</b> (Kobe University)

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### Parallel Session 3: Plasmonics and Nanophotonics (Meeting Room 203)

Chair: **Kei Murakoshi**

13:30	<i>Keynote</i>	Enhanced Water Splitting under Modal Strong Coupling Conditions, <b>Hiroaki Misawa</b> (Hokkaido University)
14:00	<i>Invited</i>	Toward Viable Plasmonics: From Optoelectronics, Catalysis to Theragnosis, <b>Dong Ha Kim</b> (Ewha Womans University)
14:20	<i>Invited</i>	Plasmon-Array Enhanced Raman Spectroscopy: Optical Traits and Applications, <b>Juen-Kai Wang</b> (National Taiwan University)
14:40	<i>Invited</i>	Surface-Enhanced Raman Scattering Platforms to Enable Tracking of Chemical Reactions and Solid-Gas Interactions, <b>Xing Yi Ling</b> (Nanyang Technological University)

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### Parallel Session 4: Spectroscopy and Dynamics (Meeting Room 202)

Chair: **Evan Bieske**

13:30	<i>Keynote</i>	Vacuum Ultraviolet Photoionization of Liquid Methanol and Solvated Electron Formation, <b>Toshinori Suzuki</b> (Kyoto University)
14:00	<i>Invited</i>	Observation of Fluorescence from Highly Vibrational Excited S <sub>1</sub> States of Gas-Phase Rhodamine Cations, <b>Kenji Honma</b> (University of Hyogo)
14:20	<i>Invited</i>	Investigation of Unimolecular Photodissociation Dynamics Using Synchrotron VUV Photoionization, <b>Shih-Huang Lee</b> (National Synchrotron Radiation Research Center)
14:40	<i>Invited</i>	Advantages of Spatial Map Ion Image and New Time-Resolved Photofragment Translational Spectroscopy, <b>Chi-Kung Ni</b> (Academia Sinica)

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### Parallel Session 5: International Symposium on Frontiers in Bioimaging (Meeting Room 201)

Chair: **Shi-Wei Chu**

13:30	<i>Keynote</i>	Applications of Luminescent Nitrogen-Vacancy Centers Imbedded in Diamond Nano-Crystals: Perspectives, Challenges and Limits, <b>Taras Plakhotnik</b> (The University of Queensland)
14:00	<i>Invited</i>	Sensors that Sense in Sensible Ways, <b>Edwin Yeow</b> (Nanyang Technological University)
14:20	<i>Invited</i>	Push-Pull Dyes for Quantifying Intracellular Polarity of Protein Environment, <b>Yuning Hong</b> (La Trobe University)
14:40	<i>Contributed</i>	Fluorescent Nanodiamonds as a Robust Temperature Sensor inside a Single Cell, <b>Shingo Sotoma</b> (Osaka University)

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15:00 **Afternoon break**

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### Parallel Sessions

### Parallel Session 6: Solar Energy Materials and Photocatalysis (Convention Hall)

Chair: **Shinsuke Takagi**

15:25	<i>Keynote</i>	Optical Micro(Spectro)scopic Characterization of Metal Halide Perovskites, <b>Maarten Roeffaers</b> (KU Leuven)
15:55	<i>Invited</i>	Stability Issue of Perovskite Solar Cells, <b>Seigo Ito</b> (University of Hyogo)
16:15	<i>Invited</i>	Carrier Dynamics in Cesium-Lead-Halide Perovskite Nanocrystals from Time-Resolved THz Spectroscopy, <b>Pankaj Mandal</b> (Indian Institute of Science Education and Research)
16:35	<i>Contributed</i>	Visualizing Phase Segregation in Single Mixed-Halide Perovskite Crystals, <b>Christopher R. Hall</b> (University of Melbourne)

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#### Parallel Session 7: Photoluminescent and Photochromic Materials (Conference Room)

Chair: **Chi Chiu Ko**

15:25	<i>Invited</i>	Manipulating the Functional Properties of Phosphorescent Metal Complexes by Ligands Containing Main-Group Elements, <b>Wai-Yeung Wong</b> (The Hong Kong Polytechnic University)
15:45	<i>Invited</i>	Photochromic Diarylethene Crystals That Exhibit Unusual Photomechanical Behavior, <b>Seiya Kobatake</b> (Osaka City University)
16:05	<i>Invited</i>	Stimuli-Responsive Fluorescent Organogelating Materials, <b>Shih-Sheng Sun</b> (Academia Sinica)
16:25	<i>Contributed</i>	Photomechanical Motion of Dibenzobarrelelene Crystals, <b>Hideko Koshima</b> (Waseda University)
16:40	<i>Contributed</i>	Supramolecular Assemblies of Sugar-Containing GFP Chromophore Analogs: Solid-State Solvatofluorochromicity and Hydrophobic-Induced Fluorochromic Effect, <b>Meng-Shiue Tsai</b> (National Taiwan University)

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#### Parallel Session 8: Photobiology and Photosynthesis (Meeting Room 203)

Chair: **Hiroshi Yoshikawa**

15:25	<i>Keynote</i>	Photochemistry of Porphyrins Based on Orbital and Spin Angular Momenta, <b>Kazuyuki Ishii</b> (The University of Tokyo)
15:55	<i>Invited</i>	A Photosynthetic Engine to Make Artificial Cells, <b>Tae Kyu Ahn</b> (Sungkyunkwan University)
16:15	<i>Invited</i>	Molecular Engineering for Photoinduced Charge Separation and Solar Energy Conversion, <b>Hiroshi Imahori</b> (Kyoto University)
16:35	<i>Invited</i>	Ultrafast Multidimensional Electronic Spectroscopy of Excitation Energy Transfer Processes in Photosynthetic Light Harvesting Complexes, <b>Howe-Siang Tan</b> (Nanyang Technological University)

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#### Parallel Session 9: Spectroscopy and Dynamics (Meeting Room 202)

Chair: **Asuka Fujii**

15:25	<i>Keynote</i>	Kinetics and Dynamics of Tunneling Predissociation, <b>Sang Kyu Kim</b> (Korea Advanced Institute of Science and Technology)
15:55	<i>Invited</i>	Laser Tunneling Ionization Imaging of D <sub>2</sub> in Circularly Polarized Intense Laser Fields, <b>Akiyoshi Hishikawa</b> (Nagoya University)
16:15	<i>Invited</i>	Probing the Conical Intersections of Photo-Excited Phenol and Aniline, <b>Chien-Ming Tseng</b> (National Chiao Tung University)
16:35	<i>invited</i>	Time-Resolved Photodissociation of Acetaldehyde at 267 nm, <b>Chung-Hsin Yang</b> (Academia Sinica)

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#### Parallel Session 10: International Symposium on Frontiers in Bioimaging (Meeting Room 201)

Chair: **Tzu-Ming Liu**

15:25	<i>Keynote</i>	Nano-Formulation Designed in Nanomedicine: Wound Healing, Vessel Dilation, and Malignant Tumor, <b>Chen-Sheng Yeh</b> (National Cheng Kung University)
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15:55	<i>Invited</i>	Deep-Tissue Super-Resolution with Nonlinear Plasmonic Microscopy, <b>Shi-Wei Chu</b> (National Taiwan University)
16:15	<i>Invited</i>	High-Speed, High-Precision, Multi-Color Imaging of Single Biomolecules with Plasmonic Nanoprobes, <b>Jun Ando</b> (National Institutes of Natural Science)
16:35	<i>Invited</i>	Nanoscope Membrane Dynamics Resolved by Ultrahigh-Speed Single-Particle Tracking, <b>Chia-Lung Hsieh</b> (Academia Sinica)
17:30	<b>Dinner and Posters</b>	

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Tuesday, 18<sup>th</sup> December, 2018

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**APA Award & APA Prize for Young Scientists (Convention Hall)**

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Chair: **George Thomas**

- 09:00 *APA Award* Photophysical Investigations Exploring the Ionic Liquids and Perovskite Nanocrystals, **Anunay Samanta** (University of Hyderabad)
- 09:40 *APA Prize for Young Scientists* Material Design and Device Engineering for Highly Efficient Polymer Solar Cells, **Jianhui Hou** (Chinese Academy of Sciences)
- 10:00 *Scientists* Development of Flapping Fluorophores and Photofunctional Materials, **Shohei Saito** (Kyoto University)

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10:20 **Morning break**

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**Parallel Sessions**

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**Parallel Session 11: Photophysics and Photochemistry (Convention Hall)**

Chair: **Ashok Kumar Mishra**

- 10:45 *Invited* Photon Upconversion in Molecular Assemblies, **Nobuhiro Yanai** (Kyushu University)
- 11:05 *Invited* Heavy Atom-Free Donor-Acceptor Dyads with Efficient and Tunable Intersystem Crossing for Biophotonics and Photon Upconversion, **Mikhail Filatov** (Dublin Institute of Technology)
- 11:25 *Invited* Triplet-Triplet Annihilation Up-Conversion Processes of 9,10-Diphenylanthracene in Solution and Solid Phases, **Yasuteru Shigeta** (University of Tsukuba)
- 11:45 *Contributed* Triplet Sensitization by Perovskite Nanocrystals for Visible-to-UV Photon Upconversion, **Keisuke Okumura** (Kyushu University)
- 12:00 *Contributed* Simultaneous Emission of THz Wave and X-ray from a Water Film under Femtosecond Laser Excitation, **Koji Hatanaka** (Academia Sinica)

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**Parallel Session 12: Photoluminescent and Photochromic Materials (Conference Room)**

Chair: **Chin-Ti Chen**

- 10:45 *Keynote* Versatile Chromophores and Excited States for Efficient Photoionization and Luminescent Functions, **Vivian Wing-Wah Yam** (The University of Hong Kong)
- 11:15 *Invited* A Leaning Amine-Ketone Dyad with a Nonconjugated Linker: Dual Fluorescence and Solvatofluorochromism Associated with Intramolecular Charge Transfer, **Hiroshi Ikeda** (Osaka Prefecture University)
- 11:35 *Invited* Supramolecular Assemblies of Diarylethenes Exhibiting Unconventional Photoresponse, **Kenji Matsuda** (Kyoto University)
- 11:55 *Invited* Efficient Photo- and Electro-Isomerization of Triangle Terarylenes, **Tsuyoshi Kawai** (Nara Institute of Science and Technology)

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**Parallel Session 13: Plasmonics and Nanophotonics (Meeting Room 203)**

Chair: **Juen-Kai Wang**

- 10:45 *Keynote* Exotic Electronic Excitation at Graphene via Localized Surface Plasmon Resonance, **Kei Murakoshi** (Hokkaido University)
- 11:15 *Invited* Molecular Vibrational Excitation by Gap-Plasmons, **Zee Hwan Kim** (Seoul National University)
- 11:35 *Invited* Fluorescence Properties of Organic Dye in Infrared Plasmon-Cavity Strong Coupling Systems, **Kosei Ueno** (Hokkaido University)

11:55	<i>Invited</i>	Radiative Cooling of Surface-Modified Gold Nanostructures upon Photoexcitation, <b>Li-Kang Chu</b> (National Tsing Hua University)
<b>Parallel Session 14: Spectroscopy and Dynamics (Meeting Room 202)</b>		
Chair: <b>Toshinori Suzuki</b>		
10:45	<i>Keynote</i>	Infrared Spectroscopy Hemibonded Clusters of H <sub>2</sub> S, <b>Asuka Fujii</b> (Tohoku University)
11:15	<i>Invited</i>	Ab Initio Anharmonic Algorithms to Understand Structures and Vibrational Spectra of Molecular Systems, <b>Jer-Lai Kuo</b> (Academia Sinica)
11:35	<i>Invited</i>	Photochemistry of Icy Molecules Exposed to Far-Ultraviolet Synchrotron Radiation, <b>Bing-Ming Cheng</b> (National Synchrotron Radiation Research Center)
11:55	<i>Invited</i>	Photodissociation and Spectral Measurements of C <sub>3</sub> H <sub>4</sub> <sup>+</sup> and C <sub>3</sub> H <sub>3</sub> <sup>+</sup> Cations in Solid Ar, <b>Yu-Jong Wu</b> (National Synchrotron Radiation Research Center)
<b>Parallel Session 15: International Symposium on Frontiers in Bioimaging (Meeting Room 201)</b>		
Chair: <b>Jun Ando</b>		
10:45	<i>Keynote</i>	Single-Molecule Spectroscopy for CRISPR-Cas9 Chemistry, <b>Seong Keun Kim</b> (Seoul National University)
11:15	<i>Invited</i>	Visualization and Quantification of Mitochondrial Dynamics during Cell Division by Lattice Lightsheet Microscopy, <b>Bi-Chang Chen</b> (Academia Sinica)
11:35	<i>Invited</i>	Long-Range Slippery Hairpin Reconfiguration and Its Mechanism in Trinucleotide Repeats Revealed by Single-Molecule Spectroscopy, <b>I-Ren Lee</b> (National Taiwan Normal University)
11:55	<i>Invited</i>	Selective Luminescent Detection of Catecholamines in Biological Matrix, <b>Ho Yu Au-Yeung</b> (The University of Hong Kong)
12:15	<b>Lunch</b>	
<b>Plenary Session (Convention Hall)</b>		
Chair: <b>Edwin Yeow</b>		
13:40	<i>Plenary</i>	Alkyne-Tag Raman Imaging for Observation of Small Molecules in Living Cells, <b>Katsumasa Fujita</b> (Osaka University)
14:20	<i>Plenary</i>	Biomimetic Self-Aggregation of Synthetic (Bacterio)Chlorophylls for Photosynthetic Light-Harvesting Antennas, <b>Hitoshi Tamiaki</b> (Ritsumeikan University)
15:00	<b>Afternoon break</b>	
<b>Parallel Sessions</b>		
<b>Parallel Session 16: Solar Energy Materials and Photocatalysis (Convention Hall)</b>		
Chair: <b>Osamu Ishitani</b>		
15:25	<i>Keynote</i>	The Role of Excimer Formation in Singlet Fission, <b>Timothy Schmidt</b> (The University of New South Wales)
15:55	<i>Invited</i>	Photochemical Reaction System Sensitized by Metalloporphyrin with Efficient Light Harvesting Function on Inorganic Nanosheets, <b>Shinsuke Takagi</b> (Tokyo Metropolitan University)
16:15	<i>Invited</i>	Photophysical Quantum Dynamics of Light Harvesting Processes in Photosynthetic and Photovoltaic Systems, <b>Akihito Ishizaki</b> (Institute for Molecular Science)
16:35	<i>Contributed</i>	Ultrafast Photoexcitation Dynamics of Fused Ring Electron Acceptor Based Organic Photovoltaic Cells and Materials, <b>Kai Chen</b> (Victoria University of Wellington)

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**Parallel Session 17: Photoluminescent and Photochromic Materials (Conference Room)**Chair: **Tahsin Chow**

- 15:25 *Invited* Efficient Fluorescence Photoswitching in Photochromic Nanoparticles, **Tsuyoshi Fukaminato** (Kumamoto University)
- 15:45 *Invited* A Novel Molecular Approach for Enhancing In-Plane Orientation and Out-Coupling Efficiency of Thermally Activated Delayed Fluorescent Emitters without Red-Shifting Emission, **Chin-Ti Chen** (Academia Sinica)
- 16:05 *Invited* Photochromic Diarylethene Crystalline Systems Mimicking Impatiens, **Kingo Uchida** (Ryukoku University)
- 16:25 *Contributed* Nanosecond Laser-Induced Enhancement of Cycloreversion Reaction In Photochromic Diarylethene Nanoparticles, **Yukihide Ishibashi** (Ehime University)
- 16:40 *Contributed* Synthesis and Photophysical Studies of Inorganic-Organic Nanocomposite through Resonance Energy Transfer, **Naupada Preeyanka** (National Institute of Science Education and Research)
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**Parallel Session 18: Optical Trapping and Manipulation (Meeting Room 203)**Chair: **Teruki Sugiyama**

- 15:25 *Invited* Photon Pressure-Induced Aggregation of Polymers from Solution, **Trevor Smith** (University of Melbourne)
- 15:45 *Invited* Non-Plasmonic Nanostructured Semiconductor assisted (NASSCA) Optical Tweezers, **Yasuyuki Tsuboi** (Osaka City University)
- 16:05 *Invited* Spatiotemporal Control of Growth of Organic Single Crystals by Laser Ablation, **Hiroshi Yoshikawa** (Saitama University)
- 16:25 *Contributed* Crystallization of Methylammonium Lead Halide Perovskites Controlled by Laser Trapping at Solution Surface, **Ken-ichi Yuyama** (Hokkaido University)
- 16:40 *Contributed* Laser Trapping-Induced Assembling, Rearrangement, and Transformation of Polystyrene Particles Leading to Dynamic Ejection of Linearly Aligned Particles, **Jia-Syun Lu** (National Chiao Tung University)
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**Parallel Session 19: Spectroscopy and Dynamics (Meeting Room 202)**Chair: **Sang Kyu Kim**

- 15:25 *Keynote* Photoisomerization of Molecular Ions in a Tandem Ion Mobility Spectrometer, **Evan Bieske** (University of Melbourne)
- 15:55 *Invited* Synergistic Effect of Hydrogen Bonding in the Reactions of Criegee Intermediates, **Jim Jr-Min Lin** (Academia Sinica)
- 16:15 *Invited* How Big is the Substituent Dependence of the Solar Photolysis Rate of Criegee Intermediates?, **Kaito Takahashi** (Academia Sinica)
- 16:35 *Invited* Two-Color Resonant Two-Photon Mass-Analyzed Threshold Ionization Spectroscopy of Aromatic Molecules, **Wen-Bih Tzeng** (Academia Sinica)
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**Parallel Session 20: International Symposium on Frontiers in Bioimaging (Meeting Room 201)**Chair: **I-Ren Lee**

- 15:25 *Keynote* Near Infrared Light Initiated Nanomaterial-Mediated Photodynamic Therapy (NIR NpPDT) for Cancer Treatments, **Kuo Chu Hwang** (National Tsing Hua University)
- 15:55 *Invited* Photochemical Release of 2,2,6,6-Tetramethylpiperidine-1-oxyl (TEMPO) Radical from Caged Nitroxides by Near Infrared Two-Photon Irradiation and Its Cytocidal Effect on Lung Cancer Cells, **Manabu Abe** (Hiroshima University)

16:15	<i>Invited</i>	Bio-Lasers: An Emerging Field Bridging Laser Photonics and Biomedicine, <b>Yu-Cheng Chen</b> (Nanyang Technology University)
16:35	<i>Contributed</i>	Saturated Excitation Microscopy with Improved Signal to Noise Ratio, <b>Yasunori Nawa</b> (Academia Sinica)
17:30	<b>Dinner and Posters</b>	

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Wednesday, 19<sup>th</sup> December, 2018

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**Masuhara Lectureship Award Session (Convention Hall)**

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Chair: **Trevor Smith**

- 09:00 *Masuhara Lectureship* Spectroscopy, Kinetics, and Dynamics of Free Radicals that Are Important in Atmospheric, Combustion, and Astronomical Chemistry, **Yuan-Pern Lee** (National Chiao Tung University)
- 09:40 *Masuhara Lectureship* Laser Photochemistry; Photosynergetic Response induced by Multiple Excitation and Multiphoton Absorption, **Hiroshi Miyasaka** (Osaka University)

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10:20 **Morning break**

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**Parallel Sessions**

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**Parallel Session 21: Solar Energy Materials and Photocatalysis (Convention Hall)**

Chair: **Timothy Schmidt**

- 10:45 *Keynote* Development of Photocatalyst Materials for Water Splitting and CO<sub>2</sub> Reduction of Artificial Photosynthesis, **Akihiko Kudo** (Tokyo University of Science)
- 11:15 *Invited* Photocatalytic Activation of Less Active Bonds and Their Functionalization via Hydrogen-Evolution Cross-Couplings, **Chen-Ho Tung** (Chinese Academy of Sciences)
- 11:35 *Invited* Visible-Light Driven C-H bond Activation and Carboxylation with CO<sub>2</sub> Using Biocatalyst/Photocatalytic Dye Hybrid System, **Yutaka Amao** (Osaka City University)
- 11:55 *Contributed* Singlet-Fission-Born Quintet State: Sublevel Selections and Trapping by Entropy Enhancement in Disordered Aggregates, **Yasuhiro Kobori** (Kobe University)

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**Parallel Session 22: Photoluminescent and Photochromic Materials (Conference Room)**

Chair: **Kenji Matsuda**

- 10:45 *Keynote* Synthesis of Conjugated Polymers and Non-Fullerene Acceptors for High Performance OPV Applications, **Chain-Shu Hsu** (National Chiao Tung University)
- 11:15 *Invited* Luminescent Eu(III) Coordination Polymers for Organic EL Devices, **Yasuchika Hasegawa** (Hokkaido University)
- 11:35 *Invited* Photophysics and Photocatalysis of Luminescent Transition Metal Carbene and Isocyanide Complexes, **Chi Chiu Ko** (City University of Hong Kong)
- 11:55 *Contributed* Observation of Photodynamics of a Phototunable Polar Liquid Crystalline Surface, **Satoshi Aya** (RIKEN Center for Emergent Matter Science)

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**Parallel Session 23: Photophysics and Photochemistry (Meeting Room 203)**

Chair: **Howe-Siang Tan**

- 10:45 *Keynote* Using Inner Filter Effect to Advantage, **Ashok Kumar Mishra** (Indian Institute of Technology Madras)
- 11:15 *Invited* Real Time Deactivation Pathways and Effects of Substitution and Solvation on Excited State Dynamics of Nucleic Bases, **Wai-Ming Kwok** (The Hong Kong Polytechnic University)
- 11:35 *Invited* Specific Peptide-Bond Dissociation and Effects of a Phenyl Group of Some Peptide Model Molecules, **Chen-Lin Liu** (National Synchrotron Radiation Research Center)

11:55 *Contributed* Photochromic Crystallization in the Diarylethene Film on the Plasmonic Chip Under the Polarized UV Light, **Keiko Tawa** (Kwansei Gakuin University)

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**Parallel Session 24: Spectroscopy and Dynamics (Meeting Room 202)**

Chair: **Xing Yi Ling**

10:45 *Invited* Electron Transfer from Higher Excited States of Noncovalently Bound Porphyrin-CdS/ZnS Core/Shell Nanocrystals Induced by Stepwise Two-Photon Absorption, **Yoichi Kobayashi** (Ritsumeikan University)

11:05 *Invited* Blinking Suppression of CdSe/ZnS Quantum Dots by Photoinduced Electron Transfer under Large Positive Free Energy Change, **Vasudevanpillai Biju** (Hokkaido University)

11:25 *Invited* Photoluminescence Blinking beyond Quantum-Confinement: Spatiotemporally Correlated Intermittency over Entire Perovskite Microcrystals, **Arindam Pushan Chowdhury** (Indian Institute of Technology Bombay)

11:45 *Contributed* Ultra-Low Frequency SERS Spectroscopy for Characterizing and Controlling Metal/Molecule Junctions, **Katsuyoshi Ikeda** (Nagoya Institute of Technology)

12:00 *Contributed* Silver Nanowires as SERS Substrates for Monitoring the Zinc Oxide/UV Photodegradation of Rhodamine B, **Horace Andrew Fernandez Husay** (University of the Philippines)

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**Parallel Session 25: International Symposium on Frontiers in Bioimaging (Meeting Room 201)**

Chair: **Chia-Lung Hsieh**

10:45 *Keynote* Exploitation of Luminescent Transition Metal Polypyridine Complexes as Bioorthogonal Probes, Cellular Imaging Reagents, and Photocytotoxic Agents, **Kenneth Kam-Wing Lo** (City University of Hong Kong)

11:15 *Invited* Third Harmonic Generation Angiography with FeOOH Mesostructures, **Tzu-Ming Liu** (University of Macau)

11:35 *Invited* Selective Ion-Binding Properties of Rhodamine-Transition Metal Bichromophoric Hybrid and Novel Rhodamine Derivatives, **Keith Man-Chung Wong** (South University of Science and Technology of China)

11:55 *Contributed* Local Environment Mapping of Lipid Bilayer Membranes Using Magnetic Field Effects, **Manabu Sakurai** (Kobe University)

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12:15 **Lunch**

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**Plenary Session (Convention Hall)**

Chair: **Yuan-Pern lee**

13:40 *Plenary* Viewing Ultrafast Photochemistry through the Vibrations, **Stephen Meech** (University of East Anglia)

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14:20 **Excursion to National Palace Museum**

17:00 **Open bar at Silk Palace**

Chair: **Yoyo Liu**

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17:30 **Award Ceremony at Silk Palace**

Chair: **Tsuyoshi Kawai**

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18:00 **Banquet at Silk Palace**

Chair: **Chi-Kung Ni**

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Thursday, 20<sup>th</sup> December, 2018

### Parallel Sessions

#### Parallel Session 26: Solar Energy Materials and Photocatalysis (Convention Hall)

Chair: **Kaito Takahashi**

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| 09:00 | <i>Keynote</i>     | Tackling the Challenge for Artificial Photosynthesis: 2D Materials for Enhancing Productivity and Selectivity in Solar Fuels, <b>Kuei-Hsien Chen</b> (Academia Sinica)               |
| 09:30 | <i>Invited</i>     | Development of Molecular Modules for Artificial Photosynthesis, <b>Shigeyuki Masaoka</b> (National Institutes of Natural Sciences)   |
| 09:50 | <i>Invited</i>     | Modification of Organic Molecule Structure for Photocatalytic Hydrogen Production in Water Medium, <b>Motonori Watanabe</b> (Kyushu University)                                      |
| 10:10 | <i>Contributed</i> | Controlling Chemical Composition of Dumbbell-Shaped ZnS-AgInS <sub>2</sub> Nanocrystals for Efficient Photocatalytic Hydrogen Evolution, <b>Tatsuya Kameyama</b> (Nagoya University) |

#### Parallel Session 27: Photophysics and Photochemistry (Conference Room)

Chair: **Anunay Samanta**

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| 09:00 | <i>Invited</i>     | Luminescent Metal Nanoclusters: The Next Generation Fluorophores, <b>Saptarshi Mukherjee</b> (Indian Institute of Science Education and Research Bhopal) |
| 09:20 | <i>Invited</i>     | Carbon Dot: A Unique Nanomaterial with Near Unity PLQY in Aqueous Medium, <b>Prasun K. Mandal</b> (Indian Institute of Science Education and Research)   |
| 09:40 | <i>Contributed</i> | Absorption and Fluorescence Microspectroscopic Study of Protein Crystals as Nanoporous Materials, <b>Takayuki Uwada</b> (Josai University)               |
| 09:55 | <i>Contributed</i> | Ultrafast Dynamics of Oxy-Hemoglobin Measured by UV Short Pulse Laser, <b>Atsushi Yabushita</b> (National Chiao Tung University)                         |
| 10:10 | <i>Contributed</i> | Organic Chromophores with Twisted Geometry as Amorphous Materials for Light-Emitting Devices, <b>Tahsin Chow</b> (Tunghai University)                    |

10:25 **Morning break**

### Plenary Session (Convention Hall)

Chair: **Jye-Shane Yang**

- |       |                                       |  |
|-------|---------------------------------------|--|
| 10:50 | <i>APA Prize for Young Scientists</i> | Development of Photofunctional Luminescent Complexes, <b>Junpei Yuasa</b> (Tokyo University of Science)  |
| 11:10 | <i>Scientists</i>                     | Optimizing Photoinduced Charge Generation in Organic Materials for Energy and Catalysis, <b>Jyotishman Dasgupta</b> (Tata Institute of Fundamental Research) |

### Closing Ceremony (Convention Hall)

12:00 **Lunch**

13:00 **Bus for sign-up tours departs**