

ICCC2018 Program (S33)

| July 30, 2018 (Mon) | | July 31, 2018 (Tue) | | Aug 1, 2018 (Wen) | | Aug 2, 2018 (Thu) | | Aug 3, 2018 (Fri) | | Aug 4, 2018 (Sat) | |
|---------------------|--|---------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|
| | | 8:30 | Plenary Lecture Prof. Yi Lu | 8:30 | Plenary Lecture Prof. Gary Brudvig | 8:30 | Plenary Lecture Prof. Roland A. Fisher | 8:30 | Plenary Lecture Prof. Shie-Ming Peng | 8:30 | Plenary Lecture Prof. Mario Ruben |
| | | | | 9:15 | Coffee Break | 9:15 | Coffee Break | 9:15 | Coffee Break | | |
| | | | | 9:40 | Erwin Reisner | 9:40 | Gustav Berggren | 9:40 | Licheng Sun | | |
| | | | | 10:05 | Curtis Berlinguette | 10:05 | Sebastiano Campagna | 10:05 | Julio Lloret | | |
| | | | | 10:25 | Rong Xu | 10:25 | Etsuko Fujita | 10:25 | Javier Concepcion | | |
| | | | | 10:45 | Atsushi Kobayashi | 10:45 | Evan Guy Moore | 10:45 | Yuta Tsubonouchi | | |
| | | | | 11:00 | Yutaro Tsuji | 11:00 | Pau Farras | 11:00 | Vishwanath Mane | | |
| | | | | 11:15 | Mihaela Cibian | 11:15 | Tze Hao Tan | 11:15 | Subhasis Das Adhikary | | |
| | | | | 11:30 | Ming-Tian Zhang | 11:30 | Fausto Puntoriero | 11:30 | Kyriakos Stylianou | | |
| | | | | 11:45 | Sergio Fernandez | 11:45 | Biswanath Das | 11:45 | Akira Ikezaki | | |
| | | | | 12:00 | Sven Rau | 12:00 | Ken Onda | 12:00 | Hironobu Ozawa | 12:10 | Special Lecture:Prof. Jean-Pierre Sauvage |
| | | | | 12:15 | Lunch | 12:20 | Excursion | 12:15 | Lunch | | |
| | | 13:15 | Plenary Lecture Prof. Lee Cronin | 13:15 | Plenary Lecture Prof. Hideo Hosono | | | 13:15 | Plenary Lecture Prof. James Mayer | | |
| | | | | 14:00 | Coffee Break | | | 14:00 | Coffee Break | | |
| | | | | 14:25 | Stefan Bernhard | | | 14:25 | Elisabeth Gibson | | |
| | | | | 14:50 | Phong D. Tran | | | 14:50 | Christopher Chang | | |
| | | | | 15:10 | Tong-Bu Lu | | | 15:10 | Andrea Sartorel | | |
| | | | | 15:30 | Kazuhiko Maeda | | | 15:30 | Han Sen Soo | | |
| | | | | 15:50 | Carlo Nervi | | | 15:50 | Hiromu Kumagai | | |
| | | | | 16:05 | Jia-Wei Wang | | | 16:05 | Jane Leung | | |
| | | | | 16:20 | Coffee Break | | | 16:20 | Coffee Break | | |
| | | | | 16:45 | Nicolas Plumere | | | 16:45 | Ryu Abe | | |
| | | | | 17:10 | Alceo Macchioni | | | 17:10 | Sacha Ott | | |
| | | | | 17:30 | Greta Patzke | | | 17:30 | Masayuki Yagi | | |
| | | | | 17:50 | Shin-ya Takizawa | | | 17:50 | Yusuke Isaka | | |
| 18:00 | Special Lecture: Prof. Eiichi Negishi | | | 18:05 | Regina Frem | | | 18:45 | Banquet @ Hotel Metropolitan Sendai | | |
| | | | | 18:20 | Ryoichi Kanega | | | | | | |
| | | | | 18:35 | Poster Session of S33 (this session) | 18:30 | Poster Session | | | | |
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| | | | | 20:30 | | | | | | | |

| Session | Lecture | Poster Date | Code | Name | Affiliation | Title |
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| S33 | Organizer | | | Ken Sakai | Department of Chemistry, Faculty of Science, WPI-I2CNER (International Institute for Carbon-Neutral Energy Research), and CMS (Center for Molecular Systems) of Kyushu University, | |
| S33 | | | | Gary Brudvig | Department of Chemistry, Yale University | |
| S33 | | | | Licheng Sun | KTH & Dalian University of Technology | |
| S33 | | | | Gary Hanan | University of Montreal | |
| S33 | | | | Sebastiano Campagna | University of Messina | |
| S33 | | | | Vincent Artero | Univ Grenoble Alpes, CNRS and CEA-Grenoble | |
| S33 | | | | Julio Lloret | ICIQ | |
| S33 | | | | Masayuki Yagi | Niigata University | |
| S33 | | | | Ryu Abe | Department of Energy and Hydrocarbon Chemistry, Faculty of Engineering Kyoto University | |
| S33 | | | | Alceo Macchion | University Perugia | |
| S33 | Keynote | | A00186-LS | Licheng Sun | KTH Royal Institute of Technology | A New Proposal for Water Oxidation Mechanism in Photosystem II with a Complete Catalytic Cycle and Experimental Proofs |
| S33 | Keynote | | A00265-EG | Elizabeth Gibson | Newcastle University | Dye-sensitized photocathodes for solar fuel devices |
| S33 | Keynote | | A00356-GB | Gustav Berggren | Uppsala University | Synthetic chemistry as a tool for in vivo manipulation of [FeFe] hydrogenase |
| S33 | Keynote | | A00562-ER | Erwin Reisner | University of Cambridge | Solar-driven Catalysis with Metal Complex-Semiconductor Hybrid Systems |
| S33 | Keynote | | A00997-SB | Stefan Bernhard | Carnegie Mellon University | Metals as Solar Fuels: The Light-driven Reduction of Metal Cations |
| S33 | Keynote | | A02002-RA | Ryu Abe | Graduate School of Engineering, Kyoto University | Development of Stable Mixed-Anion Semiconductors for Photocatalytic Water Splitting under Visible Light |
| S33 | Keynote | | A03002-NP | Nicolas Plumeré | Center for Electrochemical Sciences, Ruhr-University Bochum | Matrix Confined Catalysts for H ₂ Oxidation |
| S33 | Invited | | A00612-MY | Masayuki Yagi | Niigata University | Inorganic ion cofactors inducing highly efficient heterogeneous catalysis for water oxidation |
| S33 | Invited | | A00617-SC | Sebastiano Campagna | University of Messina | Multicomponent systems based on Ru(II) polypyridine chromophores for light harvesting and photoinduced water oxidation |
| S33 | Invited | | A00663-AM | Alceo Macchioni | DCBB - University of Perugia | Organoiridium complexes as functional mimics of natural catalysts for artificial photosynthesis |
| S33 | Invited | | A00692-EF | Etsuko Fujita | Brookhaven National Laboratory | Hydrogen Production and Storage |
| S33 | Invited | | A01321-CC | Christopher Chang | University of California, Berkeley | Hybrid Molecular Catalysts for Sustainable Energy Conversion |
| S33 | Invited | | A01977-JL | Julio Lloret-Fillol | Institut Catala de Inverstigacio Quimica (ICIQ), ICREA Research Professor | Photo- and Electro-Catalytic Reductions Using Well-Defined Coordination Complexes |

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| S33 | Invited | | A03003-GP | Greta Ricarda Patzke | University of Zurich | Water Oxidation with Cobalt Cubanes: From Molecular to Oxide Catalysts |
| S33 | Invited | | A02004-CB | Curtis Berlinguette | The University of British Columbia | Bridging the Gap Between 3 Nobel Prizes for Electron Transfer |
| S33 | Invited | | A02066-JC | Javier Concepcion | Chemistry Division, Brookhaven National Laboratory | Artificial Photosynthesis: From Rational Catalyst Design to Functional Devices |
| S33 | Invited | | A05044-KM | Kazuhiko Maeda | Department of Chemistry, School of Science, Tokyo Institute of Technology | Visible-Light Reduction of Carbon Dioxide on Metal-Complex/Carbon Nitride Hybrid Photocatalysts |
| S33 | Invited | | A02083-RX | Rong Xu | School of Chemical & Biomedical Engineering, Nanyang Technological University | Molecular Solid Catalyst Design for Artificial Photosynthesis |
| S33 | Invited | | A02187-AS | Andrea Sartorel | Department of Chemical Sciences, University of Padova | Mechanistic insights in water oxidation catalysis with cobalt |
| S33 | Invited | | A02200-HS | Han Sen Soo | Nanyang Technological University | Artificial photosynthesis by light absorption, charge separation, and photoredox catalysis |
| S33 | Invited | | A03030-TL | Togbu Lu | Tianjin University of Technology | Water Splitting Catalysts |
| S33 | Invited | | A03049-SO | Sascha Ott | Uppsala University, Sweden | Hydrogen Evolution from Molecular Catalysts in Metal-Organic Frameworks |
| S33 | Invited | | A03050-PT | Phong D. Tran | Vietnam Academy of Science and Technology, Vietnam | Amorphous molybdenum sulfide/ selenide as viable catalysts for the hydrogen generation in water |
| S33 | Oral Talk | | A00417-VM | Vishwanath Mane | Department of Chemistry, Savitribai Phule Pune University, INDIA | Mononuclear Ruthenium-Bipyridine Glycouril Complex for Photocatalytic and Chemical Water Oxidation |
| S33 | Oral Talk | | A00849-YT | Yuta Tsubonouchi | Department of Materials Science and Technology, Faculty of Engineering, Niigata University | Synthesis and Characterization of Multinuclear Complexes as Active Water Oxidation Catalysts |
| S33 | Oral Talk | | A00868-YI | Yusuke Isaka | Graduate School of Engineering, Osaka University | Visible-Light Induced H ₂ O ₂ Production Catalyzed by MIL-125-NH ₂ Deposited with Ni Oxide Nanoparticles |
| S33 | Oral Talk | | A00954-SD | Subhasis Das Adhikary | IIT Ropar, Punjab-140001, India | Stabilization of sandwich polyoxometalate catalysts by poly(ionic liquid) towards electrocatalytic water oxidation and HCl electrolysis |
| S33 | Oral Talk | | A01246-AK | Atsushi Kobayashi | Department of Chemistry, Faculty of Science, Hokkaido University | Importance of molecular arrangement and orientation of photosensitizing dye on the semiconductor surface |
| S33 | Oral Talk | | A01294-CN | Carlo Nervi | Department of Chemistry, University of Torino | Electrodes Functionalized by Organometallic Complexes for Electrochemical Reduction of CO ₂ |
| S33 | Oral Talk | | A01473-ST | Shin-ya Takizawa | The University of Tokyo | Photocatalytic hydrogen generation sensitized by iridium complexes in vesicles |
| S33 | Oral Talk | | A01534-EM | Evan Guy Moore | The University of Queensland | Transient Insights into Ru(II) Mediated Photocatalysis |
| S33 | Oral Talk | | A01685-MC | Mihaela Cibian | Kyushu University | Toward Better Molecular Photosensitizers and Catalysts in Photocatalytic Systems for Solar Energy Conversion |
| S33 | Oral Talk | | A01712-KS | Kyriakos Stylianou | Institute of Chemical Sciences and Engineering (ISIC), Ecole polytechnique federale de Lausanne (EPFL Valais), Rue de l'Industrie 17, CH-1950 Sion (Switzerland) | Photocatalytic Hydrogen Generation from Visible-Light Responsive Metal-Organic Framework Systems |

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| S33 | Oral Talk | | A01963-HO | Hironobu Ozawa | Kyushu University | Solar Driven Hydrogen Production in a Molecular-Based Photoelectrochemical Cell Consisting of Two TiO ₂ electrodes |
| S33 | Oral Talk | | A03004-TT | Tzehao Tan | The University of New South Wales | Plasmon assisted activation of CO ₂ at the interface of NiO _x -La ₂ O ₃ interface for hydrogenation reaction. |
| S33 | Oral Talk | | A03010-HK | Hironobu Kumagai | Department of Chemistry, School of Science, Tokyo Institute of Technology | Photoreduction of CO ₂ by Ru(II)-Re(I) Binuclear Complex in Hybrid Photoelectrochemical Systems |
| S33 | Oral Talk | | A01542-AI | Akira Ikezaki | Department of Chemistry, School of Medicine, Toho University | Novel Electronic Structure of One-Electron Oxidized Product from High-Spin Manganese(III) Porphyrin Complex |
| S33 | Oral Talk | | A01625-YT | Yutaro Tsuji | Department of Chemistry, Faculty of Science, Kyushu University | Near-Infrared Light-Driven Hydrogen Evolution Photosensitized by a Polypyridyl Triruthenium Photosensitizer |
| S33 | Oral Talk | | A00468-BD | Biswanath Das | Post Doctoral Researcher at UNSW, School of Chemistry | Multi-Electron Redox Catalysts for CO ₂ reduction and Water Oxidation |
| S33 | Oral Talk | | A01366-JL | Jane Leung | University of Cambridge | Immobilising 3d-Metal Complexes on Silicon Towards Photocathodes for Solar Fuel Production in Aqueous Media |
| S33 | Oral Talk | | A03031-JW | Jia-Wei Wang | School of Chemistry, Sun Yat-sen University | Molecular Catalysis toward CO ₂ -to-CO Conversion: Modulations of Ligands and Reaction Conditions |
| S33 | Oral Talk | | A00257-PF | Pau Farras Costa | National University of Ireland Galway | What to expect from the dicarbollide ligand in water oxidation catalysis |
| S33 | Oral Talk | | A00894-FP | Fausto Punzorio | Dip. Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali - University of Messina | New Ru(II)-based hybrid assemblies for photo-induced water oxidation |
| S33 | Oral Talk | | A01792-RF | Regina Frem | INSTITUTE OF CHEMISTRY, SAO PAULO STATE UNIVERSITY, UNESP | The concerted role of TiO ₂ nanotubes and ZIF-8 in the formation of MeOH and EtOH. The first report on photoelectroreduction of CO ₂ using MOFs |
| S33 | Oral Talk | | A03084-MZ | Ming-Tian Zhang | Center of Basic Molecular Science (CBMS), Department of Chemistry, Tsinghua University | Water Oxidation Catalysis : Bimetallic Cooperative O-O Bond Formation |
| S33 | Oral Talk | | A01330-SF | Sergio Fernandez | Institute of Chemical Research of Catalonia (ICIQ), The Barcelona Institute of Science and Technology, Avinguda Paisos Catalans 16, 43007, Tarragona, Spain | [(CoI-CO)], the sink resting state in the electrochemical CO ₂ reduction process catalyzed by pyridylamino Co complexes. |
| S33 | Oral Talk | | A01670-RK | Ryoichi Kanega | National Institute of Advanced Industrial Science and Technology | Ir Complexes Bearing Picolinamide Ligands Catalyze Mutual Conversion of CO ₂ and Formic Acid |
| S33 | Oral Talk | | | Sven Rau | | |
| S33 | Oral Talk | | | Ken Onda | Department of Chemistry, Faculty of Science, Kyushu University | Realtime Observation of Photoenergy Conversion Processes using Metal Complexes |
| S33 | Poster | August 1 | S33-P01 | Qi-Fa Chen | Center of Basic Molecular Science (CBMS), Department of Chemistry, Tsinghua University | A Bio-Inspired Tri-Nickel Catalyst for Water Oxidation |
| S33 | Poster | August 1 | S33-P02 | Hao-Yi Du | Center of Basic Molecular Science (CBMS), Department of Chemistry, Tsinghua University | Redox-Active Ligand Assisted Multi-Electron Catalysis: A Case of Co(III) Complex as Water Oxidation Catalyst |

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| S33 | Poster | August 1 | S33-P03 | Han Li | Center of Basic Molecular Science (CBMS), Department of Chemistry, Tsinghua University | Probing Mechanism of Excited-State Proton-Coupled Electron Transfer for the Oxidation of X-H Bond (X=C, O, N) by Ru(II) Polypyridyl Complex |
| S33 | Poster | August 1 | S33-P04 | Wen-Wen Yong | Center of Basic Molecular Science (CBMS), Department of Chemistry, Tsinghua University | Photocatalytic Hydrogen Production with Conjugated Polymers as Photosensitizers |
| S33 | Poster | August 1 | S33-P05 | Fei Xie | Center of Basic Molecular Science (CBMS), Department of Chemistry, Tsinghua University | Bimetallic Cooperated Water Oxidation by a Di-Co(III) Complex of a Binucleating Ligand with 5- and 6- Coordinate Sites |
| S33 | Poster | August 1 | S33-P06 | Sayuri Okunaka | TOTO LTD. | Facile Water-based Fabrication of Nanoporous BiVO ₄ Photoanodes for Solar Water Oxidation |
| S33 | Poster | August 1 | S33-P07 | Hiroki Otsuka | Department of Chemistry, Hokkaido University | Photocatalytic water oxidation by pyridyl-anchor-modified Ru(II) photosensitizers |
| S33 | Poster | August 1 | S33-P08 | Akira Kitase | Osaka City University | Activity of Core-Shell Nanoparticles Composed of Cyano-Bridged Metal Complexes Containing Co Ions for Photocatalytic Water Oxidation |
| S33 | Poster | August 1 | S33-P09 | Yesub Koum | Department of Emerging Materials Science, DGIST | Metal-Organic Framework Built up of a Ti-oxo Chain Cluster |
| S33 | Poster | August 1 | S33-P10 | Katsuhiko Akamine | Kyushu university | Electrochemical Oxygen Evolution Catalyzed by a Cobalt Porphyrin Modified TiO ₂ Electrode |
| S33 | Poster | August 1 | S33-P11 | Xinyi Cheng | Department of Chemistry, Faculty of Science, Kyushu University | Catalytic Activity of Some Water-soluble Metal Porphyrins for CO ₂ Reduction in Aqueous Media |
| S33 | Poster | August 1 | S33-P12 | Nobutaka Yoshimura | Department of Chemistry Faculty of Science, Hokkaido University | Photocatalytic hydrogen production by nanoparticle photocatalyst immobilized multilayered ruthenium(II) photosensitizers |
| S33 | Poster | August 1 | S33-P13 | Kohei Morita | Department of Chemistry, Faculty of Science, Kyushu University | Solar Driven Hydrogen Production in a Photoelectrochemical Cell Using a Pt Porphyrin Modified TiO ₂ Cathode |
| S33 | Poster | August 1 | S33-P14 | Marina Freitag | Department of Chemistry, Uppsala University | Copper Complexes for Dye-Sensitized-Solar Cells |