

Tongji-iCeMS International Graduate Symposium

co-organized by Kyoto University Shanghai Lab

"Advanced Materials and Technology for Carbon Neutrality."

Date: August 27th -28th, 2024

Venue: Seminar Room on the 2nd floor of KUIAS-iCeMS Main Building

*Lunch will be provided for those who [register \(click here\)](#) before August 20 (limited availability).

Program on August 27th

Time	Programme
9:30–10:10	Registration
10:00–10:10	Opening Remarks Prof. Susumu Kitagawa <i>Executive Vice President and Distinguished Professor Kyoto University</i>
10:10–10:20	Introduction of International Graduate Symposium Assoc. Prof. Yinan Wu <i>Assistant to the Dean of CESE; the Associate head of the department, Tongji University</i>
10:20–10:50	“Introduction of iCeMS, and soft porous crystals for carbon neutrality” Assoc. Prof. Kenichi Otake <i>Kyoto University, iCeMS</i>
10:50–11:20	“Synthesis and semiconductivity of thiolate-based coordination polymers” Prof. Daisuke Tanaka <i>Professor Kwansei Gakuin University</i>
11:20–11:30	Group Photos
11:30–13:00	Group Lunch and Break
13:00–13:15	Presentation Tongji 1 “Continuous and Efficient Photosynthesis of H ₂ O ₂ by Single-atom Coordinated Covalent Organic Frameworks” Lei FANG
13:15–13:30	Presentation Tongji 2 “Enhanced Conductivity Zn-based Metal-organic Framework for Selective CO ₂ Electroreduction to Ethyl Acetate” Luyao WANG
13:30–13:45	Presentation Tongji 3 “Efficient removal of per- and polyfluoroalkyl substances by a metal-organic framework membrane with high selectivity and stability” Kunpeng ZHANG
13:45–14:00	Presentation iCeMS 1 “Title” Name
14:00–14:15	Presentation Tongji 4 “A Revisit of Choosing the Counter Electrode for Hydrogen Evolution Reaction”

	Zipei CUI
14:15-14:30	Presentation Tongji 5 “Biochar promotes microbial CO ₂ fixation by regulating feedback inhibition of metabolites” Xiaodi ZHAO
14:30-15:00	Coffee break
15:00-15:15	Presentation Tongji 6 “Revealing the key stages in the formation of UiO-66(Zr) gel through multifaceted time-resolved in-situ characterizations” Ziqi WANG
15:15-15:30	Presentation iCeMS 2 “Title” Name
15:30-15:45	Presentation Tongji 7 “Green synthesis and application study of amorphous iron based MOFs” Jian PENG
15:45-16:00	Presentation Tongji 8 “The Construction of Photoelectrochemical Sensor Based on Tungsten Sulfide Composite Material for the Detection of DNA Formylation” Qian WANG
16:00-16:15	Presentation Tongji 9 “Continuous and In Situ Photosynthesis of Hydrogen Peroxide by Sulfur-Functionalized Polymer Catalyst for Water Treatment” Chengcheng CHU
16:15-16:30	Presentation iCeMS 3 “Title” Name
16:30-17:30	Group Discussion 1 Topic: Low-carbon Nanotechnology in Environmental Cleanup
17:30-19:00	Welcome Reception, Mixer @ iCeMS MB, 2F lounge room

Program on August 28th

Time	Programme
9:30–10:00	How to get published in Nature Portfolio”” Jet-Sing Lee (M) Associate Editor, Communications Materials, Springer Nature Group
10:00-10:30	“TBA” Prof. Yanling Liu <i>Tongji University</i>
10:30-10:45	Presentation Tongji 10 “Constructing and studying the photocatalytic performance of hybrid coordination metal sulfide (halide) materials” Ziyi WANG
10:45-11:00	Presentation Tongji 11 “Lattice oxygen induced d band shifting for enhanced hydrogen oxidation on nickel” Chang SUN
11:00-11:15	Presentation Tongji 12 “The Potential of UiO-66(Zr) Frameworks for the Efficient Removal of Multiple Heavy Metal Complexes: Performance Evaluation and Mechanistic Insights” Lina HE
11:15-11:30	Presentation iCeMS 4 “Title” Name
11:30-13:00	Group Lunch and Break
13:00-13:15	Presentation Tongji 13 “Organosilicon-based metal-organic framework materials for ultrasensitive in situ detection of nitro antibiotics” Hui XU
13:15–13:30	Presentation Tongji 14 “Treating waste with waste: Activated H ₂ O ₂ degradation of tetracycline by aged microplastics” Shuangyu WU
13:30–13:45	Presentation Tongji 15 “A Luminescent Lanthanide Hydrogel Fluorescent Sensor for Portable and Quantitative Detection of Copper and Iron Ions” Shuang MENG
13:45–14:00	Presentation iCeMS 5 “Title” Name
14:00–14:15	Presentation Tongji 16 “Boosting C ₂ H ₆ /C ₂ H ₄ separation via the precise electrostatic modulation of synthetic 1-D channel at atomic level” Ainiwaner SALAMANTI
14:15–14:30	Presentation Tongji 17 “Few-layer MoS ₂ nanosheets modified by PEG for enhanced piezoelectric catalysis degradation of carbamazepine” Zhuzhuo WANG

14:30–14:45	Presentation Tongji 18 “Three-dimensional active metal-microbial hybrid cathodes catalytic carboxylation of carbon dioxide in electrosynthesis system: substrate utilization, electrochemical behavior and microbial community” Rujing LIN
14:45-15:15	Coffee Break
15:15-16:15	Group Discussion 2 Topic: Sustainable Materials for Carbon Capture and Utilization
16:15-17:00	Closing Remarks Assoc. Prof. Yinan Wu, Prof. Yifan Gu, Assoc. Prof. Yanling Liu <i>Tongji University</i>