



CET

# 2024 CET-SNU-HU Joint Symposium:

# Electron Transfer in Chemical Sciences



August 29<sup>th</sup> and 30<sup>th</sup>, 2024 Mokam Hall and L-306 Lecture room

## 8.29 (THU) Oral Presentation

Time	Contents
10:00~10:10	<b>Welcome Remarks</b> Prof. Taek Dong Chung
10:10~10:40	<b>Molecular biochemistry of P-type ATPase active transporters</b> Prof. Kazuhiro Abe
10:40~11:10	<b>Ribosomally Derived Peptide Natural Products: Structural and Biosynthetic Diversity</b> Prof. Seokhee Kim
11:10~11:40	<b>Low-Temperature Synthesis of Layered Cathodes</b> Prof. Masaki Matsui
11:40~12:10	<b>Cation effects on electrocatalysis</b> Prof. Chang-Hyuk Choi
12:30~14:00	<b>Photo-time &amp; Lunch</b>
14:00~14:30	<b>Polaritonic Electrochemistry for Energy Conversions</b> Prof. Kei Murakoshi
14:30~15:00	<b>Non-thermal chemical activation in plasmon photo-catalysis</b> Prof. Zee Hwan Kim
15:00~15:10	<b>Closing Address</b> Prof. Kei Murakoshi
15:10~17:30	<b>Student poster presentation (Main Hall of Building 500)</b>
18:30~	<b>Dinner</b>

## 8.29 (THU) Poster Presentation (Students)

Time	Contents
15:10~17:30	<b>Evaluation of Oxygen Evolution Activity of Cavity-array Electrode</b> Daiki Ashizawa
	<b>Geometric-controlled plasmon-active molecular tunnel junctions form nanoscale light-emitting diodes</b> Danbi Lee
	<b>Measuring the PZC of metallic surfaces using a hybrid DFT-ML approach</b> Dongmin Park
	<b>Trigger of the Highly Resistive Layer Formation at the Cathode-Electrolyte Interface in All-Solid-State Lithium Batteries Using a Garnet-Type Lithium-Ion Conductor</b> Kana Onoue
	<b>Oxygen Poisoning of Copper Surfaces in the Presence of Cesium ions for Electrochemical Nitrate Reduction to Ammonia</b> Minyoung Shim
	<b>Infrared spectral properties of well-defined isolated graphene nanostructures</b> Naoya Nomoto
	<b>Mechanical Macrocyclic Effect by Self-Inclusion and Mutual Exclusion</b> Seungyeon Hyun
	<b>Photoelectrocatalytic System as a Reaction Platform for Selective Radical-Radical Coupling</b> Sunghwan Won
	<b>Systematic search of molecular crystal structures under high pressure using AFIR combined with molecular mechanics force fields</b> Syoya Kondo
	<b>Zn-installer: A protein designer tool to build Zn-binding sites</b> Woo Jae Jeong
	<b>Highly efficient dual photoredox/copper catalyzed atom transfer radical polymerization achieved through mechanism-driven photocatalyst design</b> Woojin Jeon
	<b>Computational study on the mechanism of self-assembly in the aggregation process</b> Youngbeom Jo



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## 8.30 (FRI) Oral Presentation (Students)

Time	Contents
09:30~09:35	<b>Opening Remarks</b> Prof. Kei Murakoshi & Prof. Zee Hwan Kim
09:35~09:50	<b>Trigger of the Highly Resistive Layer Formation at the Cathode-Electrolyte Interface in All-Solid-State Lithium Batteries Using a Garnet-Type Lithium-Ion Conductor</b> Kana Onoue
09:50~10:05	<b>Measuring the PZC of metallic surfaces using a hybrid DFT-ML approach</b> Dongmin Park
10:05~10:20	<b>Systematic search of molecular crystal structures under high pressure using AFIR combined with molecular mechanics force fields</b> Shoya Kondo
10:20~10:35	<b>Degradable acrylic adhesives via ring-opening radical polymerization of vinylcyclopropane analogues</b> Daewhan Kim
10:35~10:50	<b>Non thermal multi-quantum vibrational excitation of reactant in plasmon photocatalysis reaction</b> Jaeyoung Jeong
10:50~11:10	<b>Coffee Break</b>
11:10~11:25	<b>Infrared spectral properties of well-defined isolated graphene nanostructures</b> Naoya Nomoto
11:25~11:40	<b>Development of enzymatic biosensors for the real-time detection of electro-inactive neurotransmitter glutamate within the Janus synapse</b> Sun-Heui Yoon
12:30~13:30	<b>Lunch</b>
13:30~13:45	<b>Programming heterooligomeric protein self-assembly with interchangeability and reversibility</b> Soyeun Son
13:45~14:00	<b>Evaluation of Oxygen Evolution Activity of Cavity-array Electrode</b> Daiki Ashizawa
14:00~14:15	<b>Mutually Antagonistic Molecular Clips: Symmetry-Breaking Non-Covalent Bonds at the Chiral-Nonchiral Interface</b> Sungryul Bae