

## Korea University (MSE) & Hokkaido University Joint Workshop

### Presentation List

**Location:** Building of Information Science and Technology, 11th floor, Meeting room

**(11-17).** (<https://maps.app.goo.gl/wjJ6H24w1mprVfCLA>)

**Day:** July 22, 2024 (10:00 ~ 17:00)

Time	Name	Title	Field
10:00 ~ 10:10	Prof. Toshihiro Shimada	Opening Remarks	
10:10 ~ 10:30	Prof. Soo Young Kim	MOF-based efficient catalysts for CO <sub>2</sub> electrochemical conversion	Catalyst
10:30 ~ 10:50	Prof. YongJoo Kim	Active learning based design of entropy alloy nanocatalyst	Catalyst
10:50 ~ 11:10	Prof. Kazuki Nagashima	Nanowire-based molecular selective filtration device	Analysis
11:10 ~ 11:30	Prof. Se-Ho Kim	Energy materials guided by 3D atomic-resolution tomography	Analysis
11:30 ~ 11:50	Prof. Dong Hoe Kim	Interface study for Sn-Pb mixed perovskite solar cells	Solar Cell
11:50 ~ 12:10	Prof. Fumitaro Ishikawa	III-V Nanowires on Si for wafer scale photoelectric conversion	Photoelectric
12:10 ~ 13:30	Lunch (Lunch Box)		
13:30 ~ 13:50	Prof. Yong-Mook Kang	Innovating layered cathode materials through the mechanistic understanding of its disorders	Battery
13:50 ~ 14:10	Prof. Ji-Hun Seo	Solid Phase Polymer Electrolytes with Mechanically/Chemically Dynamic Molecular Bonds	Battery

14:10 ~ 14:30	Prof. Soong Ju Oh	Nanocrystal based electronic and optoelectronic devices and sensors	Display
14:30 ~ 14:50	Prof. Yuichi Kitagawa	Highly luminescent lanthanide complexes with polycyclic aromatic ligands	Photochemistry
14:50 ~ 15:10	Prof. Jae-Seung Lee	Synthesis, properties, and applications of condensed DNA nanoparticles	Bio
15:10 ~ 15:30	Prof. Heemin Kang	Remote stimuli-responsive nanomaterials for regenerative and cancer therapy	Bio
15:30 ~ 15:50	Break		
15:50 ~ 16:10	Prof. Yuji Masubuchi	Pressure dependent crystal structure of metal carbodiimides and applications in pressure sensing	Inorganic
16:10 ~ 16:30	Prof. Seok Su Sohn	Multifunctional medium-entropy alloys and their potential applications	Multidisciplinary
16:30 ~ 16:50	Prof. Seokwoo Jeon	3D metamaterials in inch-scale for various applications	Multidisciplinary
16:50 ~ 17:00	Prof. Kuniharu Takei	Closing Remarks	