

# ***2024 Taiwan-Japan Joint Symposium***

*Beyond our Future with People, Intelligence and Materials*

*19-20 December 2024*

**Kyushu University, Nishijin Plaza**

*2-16-23 Nishijin, Sawara-ku, Fukuoka, Japan*



## **Program**

**Day 1 (19 December 2024)**

**12:30 – 13:30 Refreshment**

**13:30 Opening remarks and Announcement** Prof. Chain-Shu Hsu

**13:35 Short Speech** Prof. Tamada

**13:45 Short Speech** Prof. Lee

*Chair: Hikari Sakaebe*

**14:00 – 14:30 Invited lecture 1**

**Mu-Huai Fang (Academia Sinica)**

Sustainable Halide-Based Solid-State Electrolyte by Coprecipitation Strategy and Atmospheric-Dependent In-Situ Analysis

**14:30 – 15:00 Invited lecture 2**

**Hirokazu Kobayashi (Kyushu University)**

Development of Novel Metal Nanostructured Materials for Energy and Catalysis Applications

**15:00 – 15:30 Invited lecture 3**

**Yoshitaka Tateyama (Institute of Science Tokyo)**

Advanced MD Study on Ion Transport in Battery Solid Electrolyte

**15:30 – 15:50 Coffee break**

*Chair: Yoichiro Kuninobu*

**15:50 – 16:40 Plenary lecture 1**

**Hiroyuki Isobe (University of Tokyo)**

Exploring Chemistry with Phenine Nanocarbon Molecules

*Chair: Mitsuru Shindo*

**16:45 – 17:00 Student lecture 1**

**Chia-Shen Tsai (National Yang Ming Chiao Tung University)**

Synthesis of Multisubstituted Tellurophenes by S,O-Ligand Promoted Pd-Catalyzed C–H Olefination

**17:00 – 17:15 Student lecture 2**

**Yukiho Hashimoto (Kyushu University)**

Synthesis and Stereochemical Analysis of Disubstituted Azacyclophenes

**17:15 – 17:45 Invited lecture 4**

**Ken Albrecht (Kyushu University)**

Luminescent Carbazole Dendrimer Materials

**18:30 – Dinner Fukuoka Tower**

**Day 2 (20 December 2024)**

**8:30– 9:00 Refreshment**

*Chair: Katsuhiko Fujita*

**9:00 – 9:30 Invited lecture 5**

**Takuya Okamoto (Hokkaido University)**

Emission Modulation of Zero-Dimensional Hybrid Copper Halides

**9:30 – 10:00 Invited lecture 6**

**Hsin-Fei Meng (National Yang Ming Chiao Tung University)**

Organic semiconductors for solar energy and environmental applications

**10:00 – 10:30 Invited lecture 7**

**Wen-Hao Chang (National Yang Ming Chiao Tung University)**

Toward Wafer-Scale Integration of 2D Semiconductors  
for Transistor Scaling

**10:30 – 10:50 Coffee break**

*Chair: Masaru Tanaka*

**10:50 – 11:40 Plenary lecture 2**

**Shang-Hsiu Hu**

Brain immune therapy and repair through functional materials

**11:40 – 13:20 Photo session Lunch**

*Chair: Kaoru Tamada*

**13:20 – 13:50 Invited lecture 8**

**Yuichi Negishi (Tohoku University)**

Structure Control of Metal Clusters and Their Application in Energy and  
Environmental Catalysts

**13:50 – 14:05 Student lecture 3**

**Chun-Hao Chang (National Yang Ming Chiao Tung University)**

Au/SiC Microfluidic Devices Fabricated by Rapid Laser Cladding for  
Photocatalytic Degradation of Water Pollutants

**14:05 – 14:20 Student lecture 4**

**Yubo Huang (Kyushu University)**

All-optical Control of Polarization Change in Electronic Ferroelectrics

**14:20 – 14:35 Student lecture 5**

**Yuan-Chun Su (National Yang Ming Chiao Tung University)**

Improved Characteristic Variation of Bilayer CVD MoS<sub>2</sub> Transistor via Layer-by-Layer Vacuum Stacking

**14:35 – 15:05 Invited lecture 9**

**Yung-Jung Hsu (National Yang Ming Chiao Tung University)**

Yolk@Shell Nanocrystals for Photocatalytic Hydrogen Production

**15:05 – 15:25 Coffee break**

***Chair:Satoru Kidoaki***

**15:25 – 15:55 Invited lecture 10**

**Yu-Jung Lin (Academia Sinica)**

Reprogramming Pathological Microenvironments with Drug Delivery Systems for Advanced Healthcare

**15:55 – 16:25 Invited lecture 11**

**Masaharu Somiya (Osaka University)**

Computational design of synthetic fusogens for targeted delivery

**16:25 – 16:40 Student lecture 6**

**Masaki Yamaguchi (Kyushu University)**

Nanostructured Polymer-Dispersed Liquid Crystals

**16:40 – 17:10 Invited lecture 12**

**Bor-Ran Li (National Yang Ming Chiao Tung University)**

Microfluidic device for Clinical use

**17:10 – 17:20 Closing Remarks Prof. Shiyoshi Yokoyama**