

2024 Taiwan-Japan Joint Symposium
Beyond our Future with People, Intelligence and Materials



December 19-20, 2024
Nishijin Plaza, Kyushu University
2-16-23 Nishijin, Sawara-ku, Fukuoka, Japan

Program
Day 1 (December 19, 2024)

12:30 – 13:30 Refreshment

13:30 Opening Remarks Prof. Chain-Shu Hsu

13:35 – 13:45 Short Speech

Kaoru Tamada (Kyushu University)

Encouragement to submit quality papers to ACS journals

13:45 – 13:55 Short Speech

T. Randall Lee (University of Houston)

ACS Publications Applied Materials Journals

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 – Banquet Fukuoka Tower

Day 2 (December 20, 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 MoS₂ 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. Satoru Kidoaki