



TOHOKU UNIVERSITY & NATIONAL TAIPEI UNIVERSITY OF TECHNOLOGY

2022 ONLINE JOINT SYMPOSIUM

November 28, 2022

09:45-17:15 (JAPAN TIME)
08:45-16:15 (TAIWAN TIME)



AGENDA

2022 ONLINE JOINT SYMPOSIUM

TOHOKU Univ.



& TAIPEI TECH



---WELCOME & OPENING REMARKS---

09:45-10:00 (JP TIME) / 08:45-09:00 (TW TIME)

KEYNOTE SPEECH

10:00-11:00 (JP TIME) / 09:00-10:00 (TW TIME)



Prof. KENJI TSUDA

Nanometer-scale local crystal structure analysis using convergent beam electron diffraction



Prof. DA-HUA WEI

Fabrication of wide-bandgap semiconducting nanostructures for multifunctional nanodevices

SESSION I – YOUNG SCHOLAR (PART I)

11:00-12:00 (JP TIME) / 10:00-11:00 (TW TIME)



Prof. HIROAKI KOBAYASHI

Development of ultraporous and ultrasmall spinel cathodes toward room temperature magnesium rechargeable battery



Prof. HWAI-EN LIN

Solution-processed functional oxides as active materials for energy storage: strategy and challenges



Prof. TAKEHARU YOSHII

Advanced temperature-programmed desorption: a new analytical method for carbon materials for energy applications

---1 HOUR LUNCH & BREAK TIME---

SESSION II – POSTER COMPETITION

13:00-14:00 (JP TIME) / 12:00-13:00 (TW TIME)

---30 MIN BREAK---

SESSION III – COLLABORATIVE PROJECT PRESENTATION

14:30-16:00 (JP TIME) / 13:30-15:00 (TW TIME)

Prof. CHUNG & Prof. KASAI Team

Preparation and study on FeAuGd nanoparticle for cancer therapy

Creation and modification of nanoprodrugs for cancer therapy



Prof. LEE & Prof. OSUGA Team

Correlation between thickness of cathodic materials and hydrogen production performance for solid oxide electrolysis cells (SOECs)

Catalytic decomposition of ammonia over metal-containing zeolites



Prof. CHEN & Prof. AKUTAGAWA Team

Correlation between supramolecular order alignment of polymerizable hexa-peri-hexabenzocoronene derivatives

Dynamic hydrogen-bonded organic assemblies for functional materials

Prof. FANG & Prof. KAMEOKA Team

Investigating the effects of metallic alloys on antibacterial activity

Advanced metallic materials for catalysis

SESSION IV – YOUNG SCHOLAR (PART II)

16:00-17:00 (JP TIME) / 15:00-16:00 (TW TIME)



Prof. YUEH-TING SHIH

Accelerating the development of glass materials through computational methods



Prof. TAKUYA HASEGAWA

Development of NIR-luminescent nano-phosphor materials for enhancement of photovoltaic efficiency of c-Si solar cell



Prof. WING-KIU YEUNG

Progressive approach towards precise metal nanoarchitectonics synthesis

---5 MIN BREAK---

---CLOSING REMARKS---

17:05-17:15 (JP TIME) / 16:05-16:15 (TW TIME)