

AI-Mat International Workshop: Sustainable Energy Materials

June 19th 2024

Venue: R212, Center for Condensed Matter Sciences, National Taiwan University

Topic	Speaker	Time
Opening Remarks (10:00-10:05)		
Session I (10:05-12:05)		
(Invited speaker) Vibrational Spectroscopy at Electrified Interfaces: Catalysts and Battery Materials	Prof. Heng-Liang Wu, Center for Condensed Matter Sciences, National Taiwan University	10:05-10:35 (25 min talk and 5 min Q&A)
(Invited speaker) Photocatalytic CO ₂ Reduction over 2D Semiconductors	Dr. Mohammad Qorbani, Center for Condensed Matter Sciences, National Taiwan University	10:35-11:05 (25 min talk and 5 min Q&A)
(Invited speaker) Enhancing Zinc-Air Battery Performance: Overcoming Challenges in ORR and OER with Advanced Electrode Designs	Prof. Soorathep Kheawhom, Department of Chemical Engineering, Chulalongkorn University	11:05-11:35 (25 min talk and 5 min Q&A)
(Invited speaker) Electrochemical relay: co-reduction and co-oxidation for C-heteroatom bond formation	Prof. Edmund Chun Ming Tse, Department of Chemistry, The University of Hong Kong	11:35-12:05 (25 min talk and 5 min Q&A)
Break (12:05-14:00)		
Session II (14:00-15:10)		
(Keynote speaker) High Concentration Electrolytes for Li and Multivalent Batteries	Prof. Andrew A. Gewirth, Department of Chemistry, University of Illinois at Urbana-Champaign, USA	14:00-14:40 (30 min talk and 10 min Q&A)
(Invited speaker) Probe the structure and dynamics of electrochemical interface with Vibrational Sum Frequency Spectroscopy	Prof. Yujin Tong, Faculty of Physics, University of Duisburg-Essen	14:40-15:10 (25 min talk and 5 min Q&A)
Coffee Break (15:10-15:25)		
Session III (15:25-16:25)		
(Invited speaker) Manipulation of Spin-polarizations and Ferroelectric polarizations of materials for photocatalytic CO ₂ reduction	Prof. Chun-Wei Chen Department of Materials Science and Engineering, National Taiwan University	15:25-15:55 (25 min talk and 5 min Q&A)
(Invited speaker) Curious Behaviors of Photogenerated Charge Carriers on Particulate Photocatalysts	Prof. Akira Yamakata Graduate School of Natural Science and Technology, Okayama University	15:55-16:25 (25 min talk and 5 min Q&A)
Summary and Closing Remarks (16:25-16:30)		