

The First Joint Thailand-Taiwan Workshop on Catalysis for Carbon Neutrality

July 3, 2023

Dr. Poe Lecture Hall,
Institute of Atomic and Molecular Sciences,
Academia Sinica



PROGRAM

	REGISTRATION
09:00-09:10	Opening: Dr. Jer-Lai Kuo (AS, Taiwan) Session Chair: Dr. Supawadee Namuangruk (NANOTEC, Thailand)
09:10-09:40	Dr. Kuei-Hsien Chen (AS, Taiwan) <i>Photo- and Electro-catalysts for CO₂ Reduction</i>
09:40-10:10	Assoc. Prof. Chularat Wattanakit (VISTEC, Thailand) <i>Alternative route for bioethanol upgrading to fine-chemicals and materials</i>
10:10-10:30	Group Photo and Break
10:30-11:00	Dr. Tsy-Yan Yu (AS, Taiwan) <i>The Reorientational Dynamics of A-site Cations in 2D Organic-Inorganic Hybrid Perovskite using Solid-state NMR</i>
11:00-11:30	Asst. Prof. Thana Maihom (Kasetsart University, Thailand) <i>Exploring Adsorption and Reaction Mechanisms on Advanced Materials through Quantum Chemical Computations</i>
11:30-12:30	Poster Presenters (Flash Talk)
12:30-14:30	Lunch and Poster Session Session Chair: Dr. Kaito Takahashi (AS, Taiwan)
14:30-14:50	Asst. Prof. Thidarat Imyen (Kyoto University, Japan) <i>Exploration of CP/MOF glasses as heterogeneous catalysts: The crystal-glass phase transformation for macroscopic shaping of monolithic catalyst</i>
14:50-15:10	Mr. Peernat Chaipornchalerm (VISTEC, Thailand) <i>Catalytic dehydroisomerization of butane to isobutene over zeolite composites</i>
15:10-15:30	Mr. Kajjana Boonpalit (NANOTEC/VISTEC, Thailand) <i>Graph Neural Networks Accelerated High-throughput Screening of Dual-atom Catalyst for Hydrogen Evolution Reaction</i>
15:30-15:50	Mr. Poobodin Mano (NANOTEC, Thailand) <i>Low C-C Coupling Barriers for Ethanol Synthesis on Boron-Doped Graphyne: Breaking of BEP Relationship and Bond Order Conservation</i>
15:50-16:10	Break Session Chair: Prof. Chun-Wei Chen (NTU, Taiwan)
16:10-16:30	Dr. Kaito Takahashi (AS, Taiwan) <i>Can electronic structure provide understanding on Carbon-Carbon coupling reaction on B-doped Graphyne?</i>
16:30-17:00	Prof. Chia-Wen (Kevin) Wu (NTU, Taiwan) <i>Metal-Organic Frameworks (MOFs)-Driven Carbon Neutral Society: Heterogeneous Catalysis of Waste Biomass and Plastics Conversion</i>
17:00	Closing: Dr. Kaito Takahashi (AS, Taiwan)