

TICC 2022

JULY 20-22, 2022
Taipei, Taiwan

Poster Competition Award

TICC 2022

Poster Competition

Excellent Paper

JULY 20-22, 2022
Taipei, Taiwan

P1-A-011

Boosting Visible-Light-Driven Hydrogen Evolution of Polymer Photocatalysts by a Universal Main-Chain-Engineering Strategy of Hydrophilic Non-Conjugated Building Blocks

Chih-Li Chang (National Tsing Hua University & Academia Sinica, Taiwan); Wei-Cheng Lin, Li-Yu Ting (National Tsing Hua University, Taiwan); Chin-Hsuan Shih (National Cheng Kung University, Taiwan); Tse-Fu Huang (National Tsing Hua University, Taiwan); Che-Yi Chu (National Chung Hsing University, Taiwan); Chin-Wen Chen (National Taipei University of Technology, Taiwan); Chi-Hua Yu (National Cheng Kung University, Taiwan); Yu-Jung Lu (Academia Sinica, Taiwan); Ho-Hsiu Chou (National Tsing Hua University, Taiwan)

P1-B-029

Modulation of Coordination Environment Enhances Electrocatalytic Efficiency of Mo Single Atoms toward Hydrogen Evolution Reaction

Chih-Chieh Cheng, Yong-Xian Yeh, Yu-Chieh Ting, Shin-Hong Lin (National Tsing Hua University, Taiwan); Kotaro Sasaki (Brookhaven National Laboratory, United States of America); Yongman Choi (National Tsing Hua University, Taiwan); Shih-Yuan Lu (National Yang Ming Chiao Tung University, Taiwan)

P1-B-033

An Analytical Approach for Deriving Rate Expressions of Complex Reaction Networks

Tsai-Ho Li, Yi-Pei Li (National Taiwan University, Taiwan)

P1-C-038

Waste Batteries-Derived Multifunctional Zinc Catalysts for Polyethylene Terephthalate (PET) Glycolysis and Decolorization

Yu-Wen Chiao, Weisheng Liao (National Taiwan University, Taiwan); Chia-Wen Wu (National Taiwan University & Academia Sinica, Taiwan)

TICC 2022

Poster Competition Excellent Paper

JULY 20-22, 2022
Taipei, Taiwan

P1-C-048

Transition State Control of Single-Site Metal-Organic Framework Catalysts on Pore Size and Shape Selective Hydrogen-Involved Reactions

Jyun-Yi Yeh (National Taiwan University & Academia Sinica, Taiwan); Yi-Pei Li (National Taiwan University, Taiwan); Kevin C.-W. Wu (National Taiwan University & Academia Sinica, Taiwan)

P1-D-076

Preparation of Cerium-Iron Mixed Oxide for Oxygen Stripping of CO₂

Ruo-Yun Lin, Shawn D. Lin (National Taiwan University of Science and Technology, Taiwan)

P2-A-082

Plasmon-Induced Charged Separation for Photocatalytic Hydrogen Peroxide Production

Ssu-Ju Huang, Kun-Che Kao (National Changhua University of Education, Taiwan)

P2-A-086

Fabrication of conformal TiO₂ Protection Layers on Photoelectrodes for Water Splitting through biomimetic layer-by-layer mineralization

Ping-Chang Chuang, Hao-Wei Ho, Yi-Hsuan Lai (National Cheng Kung University, Taiwan)

TICC 2022

Poster Competition Excellent Paper

JULY 20-22, 2022
Taipei, Taiwan

P2-A-090

A Photocatalytic Reduction of Nitrate in Water over Metal Doped TiO₂

Fang Yu Liang, Yu Jie Chen, Po Jung Huang (National Sun Yat-sen University, Taiwan)

P2-B-104

Reconstruction of Platinum Surfaces Simulated with First-Principles Method

Cheng-Chau Chiu, Zhe-An Li (National Sun Yat-sen University, Taiwan)

P2-B-108

Redox-Active and Chemically Stable Metal–Organic Framework–Carbon Nanotube Nanocomposites for Electrocatalytic Water Oxidation

Tzu-En Chang, Cheng-Hsun Chuang, Yu-Hsiu Chen, Yi-Ching Wang, Yu-Juan Gu, Chung-Wei Kung (National Cheng Kung University, Taiwan)

P2-C-122

Preparation of Monolithic Adsorbents with DLP 3D Printing Skeleton

Chi-Ho Wu, Shawn D. Lin (National Taiwan University of Science and Technology, Taiwan)

TICC 2022

Poster Competition Excellent Paper

JULY 20-22, 2022
Taipei, Taiwan

P2-C-128

Effect of Mesoporosity and Extra-framework Aluminum Species on the Cracking Activity of Zeolite Y

Shih-Cheng Li, Yen-Chun Lin, Yi-Pei Li (National Taiwan University, Taiwan)

P2-D-137

Sustainable Synthesis of Epoxides from Halohydrin Cyclization by Composite Solid Base Catalysts

Ching-Yuan Chang, Yu-Fan Chen (National Tsing Hua University, Taiwan); Yi-Ta Tsai, Chien-Fu Huang (Chang Chun Plastic Co., Taiwan); Yung-Tin Pan, De-Hao Tsai (National Tsing Hua University, Taiwan)

P2-D-141

The Influence of Alkaline Catalyst Supports on the Carbon Dioxide Reduction Reaction Catalyzed by Copper

Ding Huei Tsai (National Tsing Hua University, Taiwan); Tung Da Wu (National Taiwan University, Taiwan); Wei Chieh Liao (National Tsing Hua University, Taiwan); Wen Yueh Yu (National Taiwan University, Taiwan); Yung Tin Pan (National Tsing Hua University, Taiwan)

P2-D-147

Low-Temperature Methanol Synthesis via (CO₂ + CO) Combined Hydrogenation using Cu-ZnO@Al₂O₃ Hybrid Nanoparticle Cluster

Thanh Truc Nguyen Hoang, De-Hao Tsai (National Tsing Hua University, Taiwan)

TICC 2022

Poster Competition Best Paper

JULY 20-22, 2022
Taipei, Taiwan

P1-A-002

Sulfide Oxidation Tuning in 4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene Based Dual Acceptor Copolymers for Highly Efficient Photocatalytic Hydrogen Evolution

Wei-Cheng Lin, Ho-Hsiu Chou (National Tsing Hua University, Taiwan)

P1-A-014

Photocatalytic Degradation of (Micro) Plastics under Low pH and Temperature Using Ruthenium-Incorporated g-C₃N₄ as a Catalyst

Lely Ayu Ningsih (National Taiwan University of Science and Technology, Taiwan); Che-Chia Hu (National Taiwan University of Science and Technology & Chung Yuan Christian University, Taiwan); Yu-Cheng Chiu (National Taiwan University of Science and Technology, Taiwan)

P1-B-021

Calibrated Atomic Uncertainty Quantifications for Deep Learning-Based Molecular Property Prediction

Chu-I Yang, Yi-Pei Li (National Taiwan University, Taiwan)

P1-D-057

Fabrication of a Coking-Resistant, UiO-66(Ce)-derived NiO/CeO₂ Catalyst for Enhanced Hydrogen Production from Post-Consumer Plastic Wastes

Chang-Yen Hsu, Wei-Ting Chung (National Taiwan University, Taiwan); Ren-Xuan Yang (National Taipei University of Technology, Taiwan); Kevin C.-W. Wu (National Taiwan University, Taiwan)

TICC 2022

Poster Competition

Best Paper

JULY 20-22, 2022
Taipei, Taiwan

P2-B-097

Selective Formation of Poly(3,4-ethylenedioxythiophene) Confined in the Nanopores of a Porphyrinic Metal–Organic Framework for Electrocatalytic Nitrite Oxidation

Meng-Dian Tsai, Yi-Ching Wang, You-Liang Chen, Yu-Hsiu Chen, Cheng-Hui Shen, Chung-Wei Kung (National Cheng Kung University, Taiwan)

P2-C-119

Synchrotron Radiation Photosynthesis of Pd/MWCNTs for Formic Acid Electrooxidation and Study of the Kinetics

Sheng-Jung Tsou, Yuh-Jing Chiou, Hong-Ming Lin (Tatung University, Taiwan); Andrzej Borodzinski (Polish Academy of Sciences, Poland)

P2-C-131

One-Step Bio-Synthesis of Supramolecular Carbon Nitride in the Presence of Chitosan for Photoreforming of Biomass into H₂

Hieu Thao Vo, Van-Can Nguyena, Dao Nguyen Ngoc Hana, Hsisheng Teng (National Cheng Kung University, Taiwan)

P2-D-145

Aerosol-based Synthesis of CaO-Ni-CeO₂ Hybrid Nanoparticle for Calcium Looping-Integrated Carbon Capture and Utilization

Zhi Xuan Law, De-Hao Tsai (National Tsing Hua University, Taiwan)