

Symposia - A04
Advances in Eco-materials

October 15 (Sunday), 2023

Conference Room: 7th hall, room 1

9:00-10:15 Session I

Chair: Yiyao Ge, Zhiqi Huang

9:00-9:20 (A04-01)

TiO₂ Photocatalysis: Crystal Phase Engineering, Morphology Control and Applications(Invited)

Wenbin Cao, University of Science and Technology Beijing, China

9:20-9:40 (A04-02)

Highly Efficient g-C₃N₄ Based Heterojunctions towards Enhanced Photo- and electro-chemistry Activities (Invited)

Ping Yang, University of Jinan, China

9:40-10:00 (A04-03)

The Atomic Arrangement of Electrocatalysts on their Performance (Invited)

An-liang Wang, Shandong University, China

10:00-10:15 (A04-04)

Isolated Electron-Rich Ruthenium Atoms in Intermetallic Compounds for Boosting Electrochemical Nitric Oxide Reduction to Ammonia (Oral)

Huaifang Zhang, University of Science and Technology Beijing, China

10:15-10:30 Coffee Break

10:30-11:45 Session II

Chair: Wenbin Cao, Ping Yang

10:30-10:50 (A04-05)

Heteroatom-induced Cu-based catalysts for electrochemical CO₂ reduction (Invited)

Zhiqi Huang, Beijing Institute of Technology, China

10:50-11:10 (A04-06)

Controlled synthesis of unconventional-phase noble metal nanomaterials for electrocatalysis (Invited)

Yiyao Ge, Peking University, China

11:10-11:30 (A04-07)

Research on Viscoelasticity of Quartz Glass Materials Based on Regenerated Fiber Bragg Grating (Invited)

Tao Wang, China University of Petroleum (East China), Qingdao

11:30-11:45 (A04-08)

The Synergy of Tensile Strain and Ligand Effect in PtBi Nanorings for Boosting Electrocatalytic

Alcohol Oxidation (Oral)

Sumei Han, University of Science and Technology Beijing, China

12:00-14:00 Lunch

14:00-15:35 Session III

Chair: An-liang Wang, Fenglong Wang

14:00-14:20 (A04-09)

Photo-thermal catalysts for CO₂ conversion (Invited)

Fenglong Wang, Shandong University, China

14:20-14:40 (A04-10)

Crystal Structure-controlled Synthesis of Noble Metal Nanocrystals for Electrocatalytic Applications (Invited)

Qipeng Lu, University of Science and Technology Beijing, China

14:40-15:00 (A04-11)

Innovative eco-friendly materials for environmental remediation: when photocatalysis meets sustainability (Invited)

Claudia Bianchi, University of Milan, Italy

15:00-15:20 (A04-12)

Controllable synthesis of multi-morphology AlN fillers and their application in thermally conductive composites (Invited)

Qi Wang, University of Science and Technology Beijing, China

15:20-15:35 (A04-13)

Integrating g-C₃N₄ nanosheets with MOF-derived porous CoFe₂O₄ to form an S-scheme heterojunction for efficient pollutants degradation via the synergy of photocatalysis and peroxydisulfate activation (Oral)

Lijun Chen, Tianjin University, China

15:35-15:50 Coffee break

15:50-17:30 Session IV

Chair: Qi Wang, Qipeng Lu

15:50-16:10 (A04-14)

Synthesis approaches for Eco-SrTiO₃ photocatalyst: LCA in decision-making (Invited)

Claudia L. Bianchi, University of Milan, Italy

16:10-16:30 (A04-15)

Ordered Structure Regulation of Microporous Frame Materials (Invited)

Fangna Dai, China University of Petroleum (East China), Qingdao

16:30-16:45 (A04-16)

A hierarchical salt-rejection strategy for sustainable and high-efficiency solar-driven desalination (Oral)

Zhengyi Mao, City University of Hong Kong, China

16:45-17:00 (A04-17)

3D hierarchical Cu-MOF nanosheets-based antibacterial mesh (Oral)

Caihong He, University of Science and Technology Beijing, China

17:00-17:15 (A04-18)

Transition metal halide derived phase transition from Cs₄PbCl₆ to CsPb_xM_{1-x}X₃ for bright white light-emitting diodes (Oral)

Wenbin Shi, University of Jinan, China

17:15-17:30 (A04-19)

Complementary Ligand Decorated Cesium Lead Bromide Nanoplatelets for High Performance Light-Emitting Diodes (Oral)

Cong Xie, University of Jinan, China

17:30 Dinner