

A02. 纳米材料与新能源 A02. Nanomaterials and New Energy

分会主席：麦立强、张加涛、彭海琳、张桥

单元 A02-1: 7 月 13 日下午

主持人: Jiaxing Huang, Jieshan Qiu

地点: 会展中心 C3 馆观海厅

13:30-14:00 A02-01 Keynote

A Cut-and-paste Approach to 3D Graphene Oxide-based Architectures

Jiaxing Huang

Northwestern University

14:00-14:30 A02-02 Keynote

LDH Married to Carbon Materials to Create Novel Hybrids for Supercapacitors

Jieshan Qiu

1. School of Chemical Engineering, State Key Lab of Fine Chemicals, Liaoning Key Lab for Energy Materials & Chemical Engineering, Dalian University of Technology.

2. College of Chemical Engineering, Beijing University of Chemical Technology

14:30-14:50 A02-03 Invited

Raman Spectroscopy of Two-Dimensional Semiconductor Materials and Related Heterostructures

Pingheng Tan

Institute of Semiconductors

14:50-15:10 A02-04 Invited

Construction and Electrochemical Energy Storage of Inorganic Mesoscopic-Scale Assembly Structure

Shenglin Xiong

Shandong University

15:10-15:25 A02-05 Oral

Chloride-passivated Mg doped ZnO Nanoparticles for Improving the Performance of Cadmium-Free Quantum-Dots Light-Emitting Diodes

Fei Chen, Zhenyang Liu, Zhongyuan Guan, Zhenbo Deng, Feng Teng, Aiwei Tang

Beijing Jiaotong University

15:25-15:45 茶歇

15:45-16:15 A02-06 Keynote

Biomimetic Asymmetric Nanochannel Membranes for Energy Conversion

Liping Wen

The Technical Institute of Physics and Chemistry, Chinese Academy of Sciences

16:15-16:45 A02-07 Keynote

Functional Transition Metal and Its Compound Nanomaterials: Controllable Synthesis, Structure Characterization and Physicochemical Properties

Rongming Wang

University of Science and Technology Beijing

16:45-17:05 A02-08 Invited

Metal-organic Frameworks Based Materials for Energy Storage and Conversion

Guangqin Li

Sun Yat-sen University

17:05-17:25 A02-09 Invited

Newly Designed Cycloplatinated Polymer Dots as Photocatalysts for Visible Light-Driven Hydrogen Evolution

HO-HSIU CHOU

National Tsing Hua University

17:25-17:40 A02-10 Oral

Energy Storage Mechanism in Aqueous Zinc-ion Battery

Jiang Zhou

Central South University

17:40-17:55 A02-11 Oral

Atomic Layer Deposition of Transition Metal Sulfides and Its Applications in Energy Technology

Xinwei Wang

Peking University Shenzhen Graduate School

单元 A02-2: 7 月 14 日上午

主持人: Yadong Yin, Zhiqun Lin

地点: 会展中心 C3 馆观海厅

08:30-09:00 A02-12 Keynote

A Rich Variety of Nanocrystals with Precise Controlled Dimensions, Compositions, and Architectures Enabled by Nonlinear Block Copolymers for Solar Cells, Photocatalysis, LEDs and Batteries

Zhiqun Lin

Georgia Institute of Technology, USA

09:00-09:30 A02-13 Keynote

Smart Materials by Nanoscale Assembly

Yadong Yin

Department of Chemistry, University of California, Riverside

09:30-09:50 A02-14 Invited

Novel Two-Dimensional Oxide/Hydroxide Nanosheets for Energy Storage

Linfeng Hu*, Yingchang Jiang, Zhichang Pan

Fudan University

09:50-10:10 A02-15 Invited

Engineering of Active Sites for Efficient Non-Precious Metal Electrocatalysts

JinSong Hu

Institute of Chemistry, Chinese Academy of Sciences

10:10-10:25 A02-16 Oral

CO₂ to Fuels through the Electrochemical Reduction

Jing Shen^{*1}, Marc Koper²

1. Hunan Institute of Engineering

2. Leiden University

10:25-10:45 茶歇

10:45-11:15 A02-17 Keynote

Controlled Synthesis and Catalytic Studies of Energy Nanostructures: Active Sites Engineering and Bandgap Engineering

Leyu wang

Beijing University of Chemical Technology

11:15-11:45 A02-18 Keynote

One-Dimensional Semiconducting Nanostructures for Flexible Image Sensors

Guozhen Shen

Institute of Semiconductors, Chinese Academy of Sciences

11:45-12:00 A02-19 Oral

Negative/Zero Thermal Expansion in Black Phosphorus Nanotubes

Lei Wang^{*1}, Cong Wang², Qiang Gu¹

1. University of Science and Technology Beijing

2. Beihang University

单元 A02-3: 7 月 14 日下午

主持人: Elad Gross, Shuhui Sun

地点: 会展中心 C3 馆观海厅

13:30-14:00 A02-20 Keynote

High Spatial Resolution Mapping of Catalytic Reactions on Single Nanoparticles

Elad Gross

The Hebrew University

- 14:00-14:30 A02-21 Keynote**
Rational Design of Nanomaterials for Fuel Cell and Batteries
 Shuhui Sun
 Center for Energy, Materials and Telecommunications, Institut National de la Recherche Scientifique (INRS), Canada
- 14:30-14:50 A02-22 Invited**
Design of Nanostructured Arrays Electrodes for Energy Storage and Conversion
 Chuanwei Cheng
 Tongji University
- 14:50-15:10 A02-23 Invited**
Nano-Materials for Hydrogen Storage and Rechargeable Batteries
 Yu Zhang
 Key Laboratory of Bio-Inspired Smart Interfacial, Science and Technology of Ministry of Education, School of Chemistry, Beihang University
- 15:10-15:25 A02-24 Oral**
高通量微纳加工及 3D 分析加工平台
 王雪丽
 蔡司 (Zeiss) 中国
- 15:25-15:45 茶歇**
- 15:45-16:15 A02-25 Keynote**
2D Oxide Nanomaterials and Their Superior Electrochemical Properties
 Xudong Wang
 University of Wisconsin-Madison
- 16:15-16:35 A02-26 Invited**
Controlled Preparation of Porous Nanomaterials for Energy Storage and Conversion by Tunable Self-assembly of Block Copolymers in Solution
 Yiyong Mai
 Shanghai Jiao Tong University
- 16:35-16:55 A02-27 Invited**
Chirality-Related Applications of Helical Nanoparticles with Sub-10-nm Helical Pitches
 Zhifeng Huang
 Hong Kong Baptist University
- 16:55-17:15 A02-28 Invited**
Themally-Enhanced Generation of Solar Fuels
 Liming Zhang^{*1}, Xiaofei Ye², Madhur Boloor², Nicolas A. Melsosh², William C. Chueh²
 1. Department of Chemistry, Fudan University
 2. Department of Materials Science & Engineering, Stanford University
- 17:15-17:30 A02-29 Oral**
Preparation of Modified Polyacrylonitrile Nanofiber Membranes and Application as an Adsorbent
 Aiyong Zhang*, Ning Gao, Guiyi Cao, Lin Ye, Zengguo Feng
 Beijing Institute of Technology, School of Materials Science and Engineering
- 17:30-17:45 A02-30 Oral**
Applications of Novel Carbon Materials and Transition Metal Oxides/Sulfides as Electrode in Flexible and Wearable All-Solid-State Supercapacitors
 Shanglong Peng, Yuxiang Wen, Shuqi Lu
 Lanzhou University
- 17:45-18:00 A02-31 Oral**
Aerosol Synthesis of Crumpled Graphene/Tungsten Disulfide/Tungsten Trioxide Ternary Nanohybrids as an Efficient Electrocatalyst for Hydrogen Evolution Reaction
 Yantao Chen^{*1}, Ren Ren², Mao Shun³
 1. School of Materials Science and Engineering, Tianjin University of Technology
 2. Department of Mechanical Engineering, University of Wisconsin-Milwaukee
 3. State Key Laboratory of Pollution Control and Resources
- Reuse, College of Environmental Science and Engineering, Tongji University
- 单元 A02-4: 7 月 15 日上午**
主持人: Yiding Liu, Qi Chen
地点: 会展中心 C3 馆观海厅 A
- 08:30-08:50 A02-32 Invited**
Controlling the Electronic and Optical Properties of Transition Metal Metal Oxides by Doping/Defects for Electronics and Energy Applications
 Hongliang Zhang, Gaoliang Fu, Jiaye Zhang
 College of Chemistry and Chemical Engineering, Xiamen University
- 08:50-09:10 A02-33 Invited**
Optical Tuning of Gold Nanoparticle Chains: from Reversible Assembly to Interparticle Gap Engineering
 Yiding Liu
 Third Military Medical University
- 09:10-09:25 A02-34 Oral**
Mass-production of 3D Graphene-Like Carbon for Highly Efficient Solar Thermal Steam Generation
 Jinzhang Liu, Lu Sun, Yan Li
 Beihang University
- 09:25-09:40 A02-35 Oral**
Rational Design and Controllable Synthesis of Nano-Structured Cobalt-Based Electrocatalysts for Oxygen Evolution Reaction
 Fenglei Lv, Qiao Zhang
 Soochow University
- 09:40-09:55 A02-36 Oral**
Rh/Si, Os/Si and Ir/Si Nanocomposites as the Best Electrocatalysts designed for the Hydrogen Evolution Reaction
 Xing Fan, Haiping Lin, Youyong Li
 Soochow University
- 09:50-10:05 A02-37 Oral**
Interfacial Synthesis of Highly Stable CsPbX₃/Oxide Janus Nanoparticles
 Huicheng Hu¹, Linzhong Wu¹, Yeshu Tan¹, Qiao Zhang¹, Yadong Yin²
 1 Institute of Functional Nano & Soft Materials (FUNSOM), Soochow University
 2 Department of Chemistry, University of California, Riverside
- 10:05-10:20 A02-38 Oral**
Fabrication of Metal Sulfides with Hierarchical Micro/Nano-Structures and Their Applications in Energy Devices
 Meidan Ye, Xiaodan Hong, Qun Liu
 Xiamen University
- 10:20-10:40 茶歇**
- 10:40-11:00 A02-39 Invited**
Thin Film Fabrication in Perovskite Solar Cells
 Qi Chen
 Beijing Institute of Technology
- 11:00-11:20 A02-40 Invited**
Photocatalytic Hydrogenation of Carbon Dioxide with High Selectivity to Methanol at Atmospheric Pressure
 Le He
 Soochow University
- 11:20-11:40 A02-41 Invited**
Antipulverization Anodes by Stress-relieved Structure Design for Robust Lithium Storage
 Lianhai Zu, Ting He, Bingjie Cheng, Jinhu Yang
 School of Chemical Science and Engineering, Tongji University

11:40-11:55 A02-42 Oral

Facet-Dependent Performance of Palladium-Catalyzed Selective Hydrogenation of Light Alkynes to olefins

Yong Xu, Qiao Zhang
Soochow University

单元 A02-5: 7月15日上午

主持人: Zaicheng Sun, Hongbo Li

地点: 会展中心 C3 馆观海厅 B

08:30-08:50 A02-43 Invited

Quantum dots Luminescent Solar Concentrators: From Concept to Real Application

Hongbo Li
Beijing Institute of Technology

08:50-09:10 A02-44 Invited

Nano - A Nature Research Solution for Nanotechnology

Xiang Yan^{1*}, Jessie Xiao², Prathik Roy³, Amir Gheisi⁴, William Chiuman⁵

1. Database Research Group, Nanoscience & Technology, Springer Nature, Beijing
2. Database Research Group, Springer Nature Beijing
3. DRG, Springer Nature New York
4. DRG, Springer Nature, Heidelberg
5. DRG, Springer Nature, HongKong

09:10-09:25 A02-45 Oral

CdS Nanoribbon-Based Memory Photodetectors

Zhibin Shao, Tianhao Jiang, Jiansheng Jie
SooChow University

09:25-09:40 A02-46 Oral

pH Values Effects on Morphosynthesis of CaTi₂O₅ via a Facile Additive-Free Aqueous Strategy and its properties

Weixia Dong, Qifu Bao
Department of material Science and Engineering, Jingdezhen Ceramic Institute, Jingdezhen, 333001, P. R. China

09:40-09:55 A02-47 Oral

Cs₄PbX₆ (X = Cl, Br, I) Nanocrystals: Preparation, Water-Triggered Transformation Behavior, and Anti-Counterfeiting Application

Xiaoya Yu, Qiao Zhang
Institute of Functional Nano and Soft Materials (FUNSOM), Jiangsu Key Laboratory for Carbon-Based Functional Materials and Devices, Soochow University

09:55-10:10 A02-48 Oral

A Core-Shell System Based on Binary Transition Metal Sulfide Toward Synergetic Electrocatalytic Water Splitting

Han Zhu, Songge Zhang, Chen Liu, Mingliang Du
Jiangnan University

10:10-10:25 A02-49 Oral

Crystal Surface Control of Photocatalysts Exhibiting Enhanced Photocatalytic Performance

Ping Li
Institute of Advanced Material, Nanjing Tech University

10:25-10:45 茶歇

10:45-11:05 A02-50 Invited

Nanostructured Transition Metal Nitrides for Advanced Electrochemical Energy Storage

Kaifu Huo
Huazhong University of Science and Technology

11:05-11:25 A02-51 Invited

Metal Halide Nanomaterials: the Synthesis and Optoelectronic Devices

Hongbin Yao, Kun-Hua Wang, Ji-Song Yao
University of Science and Technology of China

11:25-11:45 A02-52 Invited

All-solid-state Flexible Micro-Supercapacitor for Wireless Monitoring System

Weiqing Yang, Haichao Huang, Haitao Zhang
South west Jiaotong University

11:45-12:00 A02-53 Oral

Controlled Preparation of ZnCo₂O₄ Nanostructures for Asymmetric Supercapacitor with Ultrahigh Energy Density

Yan Zhao
Jiangsu University

单元 A02-6: 7月15日下午

主持人: Feng He, Zhongbin Zhuang

地点: 会展中心 C3 馆观海厅 A

13:30-13:50 A02-54 Invited

Chlorination of the π -conjugated Polymer: A Facile Way for Efficient Solar Energy Conversion

Feng He
Southern University of Science and Technology

13:50-14:10 A02-55 Invited

Ultrasmall/Ultrathin Noble Metal Nanomaterials for Energy-Related Catalytic Reactions

Chuanbo Gao
Xi'an Jiaotong University

14:10-14:25 A02-56 Oral

Piezo-electret Gated MoS₂ Field Effect Transistor for Sensory Application

Jing Zhao¹, Guangyu Zhang², Qijun Sun¹, Zhonglin Wang¹
1. Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences
2. Institute of Physics, Chinese Academy of Sciences

14:25-14:40 A02-57 Oral

Polymer Electrolyte Based All-Solid-Supercapacitors: Flexibility, Self-Healing and Integration with Functional Devices

Jian Yan¹, Yan Jian², Wu Yucheng²
1. Hefei University of Technology
2. School of Materials and Engineering, Hefei University of Technology

14:40-14:55 A02-58 Oral

Rod-like anatase TiO₂ Mesocrystals Compositd with Au Nanoparticles in Controlled Locations for Enhanced Photocatalytic Activity

Xiaxi Yao, Wenjun Zhang, Xiuli Hu, Xuhong Wang
Changshu Institute of Technology

14:55-15:10 A02-59 Oral

From Nonluminescent Cs₄PbX₆ (X = Cl, Br, I) Nanocrystals to Highly Luminescent CsPbX₃ Nanocrystals: Water-Triggered Transformation through a CsX-Stripping Mechanism

Linzhong Wu, Qiao Zhang
Institute of Functional Nano & Soft Materials, Soochow University

15:10-15:25 A02-60 Oral

Cd²⁺-doped Amorphous TiO₂ Hollow Spheres for Robust and Ultrasensitive Photoelectrochemical Sensing of Hydrogen Sulfide

Hongbo Li^{1,2}, Jing Li¹, Yunyun Zhu¹, Wenyu Xie¹, Rong Shao¹, Xiaxi Yao², Aiqin Gao², Yadong Yin²
1. Yancheng Institute of Technology
2. University of California, Riverside

15:25-15:45 茶歇

15:45-16:05 A02-61 Invited

Mineral Nanomaterials Enable High-Efficiency Electrocatalysis

Minrui Gao
University of Science and Technology of China

16:05-16:25 A02-62 Invited

Hydrogen Oxidation Reaction Electrocatalysts in Alkaline Electrolyte

Zhongbin Zhuang

Beijing University of Chemical Technology

16:25-16:45 A02-63 Invited

Defect Engineering of Two-Dimensional Layered Materials

Ruitao Lv

Key Laboratory of Advanced Materials (MOE), School of Materials Science and Engineering, Tsinghua University

16:45-17:00 A02-64 Oral

Atomic Configurations, Electronic Structures and Catalysis: Investigations from First Principles Calculations

Haiping Lin

Institute of Functional Nano & Soft Materials (FUNSOM), Soochow University

17:00-17:15 A02-65 Oral

Organic Conjugated Polymer for Emerging Perovskite Solar Cells

Jianyu Yuan, Wanli Ma

Soochow University

17:15-17:30 A02-66 Oral

Metal Charge Transfer Doped Carbon Dots with Reversibly Switchable, Ultra-High Quantum Yield Photoluminescence

Quan Xu, Rigu Su

China University of Petroleum (Beijing)

17:30-17:45 A02-67 Oral

Design and Engineering of Low-dimensional Transition-metal Chalcogenide Nanocrystals/Nanofibers and Their Electrocatalytic Applications

Mingliang Du, Chen Liu, Han Zhu

Jiangnan University

单元 A02-7: 7月16日上午

主持人: Feng Bai, Jiulin Wang

地点: 会展中心 C3 馆观海厅 A

08:30-08:50 A02-68 Invited

Self-Assembled Porphyrin Nanocrystals for Efficient Visible-Light-Driven Hydrogen Evolution

Feng Bai

Key Laboratory for Special Functional Materials of the Ministry of Education, Henan University

08:50-09:10 A02-69 Invited

Antipulverization Anodes by Stress-relieved Structure Design for Robust Lithium Storage

Lianhai Zu, Ting He, Bingjie Cheng

School of Chemical Science and Engineering, Tongji University

09:10-09:25 A02-70 Oral

Textile Energy Storage And Harvesting Devices as Wearable Power Sources

Xiong Pu

1. Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences

2. School of Nanoscience and Technology, University of Chinese Academy of Sciences

09:25-09:40 A02-71 Oral

Explorations of Electrocatalysts for Application in High Energy Density Lithium- or Zinc-air Batteries

Chaohe Xu, Xiaolong Guo

Chongqing University

09:40-09:55 A02-72 Oral

Highly-efficient Nanocatalysts for the Chemical Transformation of CO and CO₂

Liangbing Wang

Central South University

09:55-10:10 A02-73 Oral

High-Capacity Electrode Materials for Advanced Lithium-Ion Batteries

Biao Gao¹, Kaifu Huo²

1. The State Key Laboratory of Refractories and Metallurgy and Institute of Advanced Materials and Nanotechnology, Wuhan University of Science and Technology

2. Wuhan National Laboratory for Optoelectronics (WNLO), Huazhong University of Science and Technology Wuhan

10:10-10:25 A02-74 Oral

Inorganic Energy Storage Materials for New Lithium Air Batteries

Jijing Xu, Xiaoxue Wang, Lina Song, Fei Li, Lijun Zheng, Nan Luo

Jilin university

10:25-10:50 茶歇

10:50-11:10 A02-75 Invited

Key Materials for Lithium Sulfur Batteries and Interface Modifications

Cheng Guo, Huijun Yang, Jingyu Lei, Weijia Zhou, Jiulin Wang
South China University of Technology (SCUT)

11:10-11:25 A02-76 Oral

Activating and Templating of Zn to Synthesize Zn/N co-doped MoC Porous Nanosheets as Electrocatalyst for Efficient Electrochemical Hydrogen Evolution

Jianjian Lin

Nanjing Tech University

11:25-11:40 A02-77 Oral

Design and Synthesis of Synergistic Components for Electrocatalytic Water Splitting

Jiahai Wang

Chemistry and Chemical Engineering Department, Guangzhou University

单元 A02-8: 7月16日上午

主持人: Qiaobao Zhang, Liming Zhang

地点: 会展中心 C3 馆观海厅 B

08:30-08:50 A02-78 Invited

Harnessing the concurrent reaction dynamics in active Si and Ge to achieve high performance lithium-ion batteries

Qiaobao Zhang, Huixin Chen, Ming-sheng Wang

Xiamen University

08:50-09:05 A02-79 Oral

Multiscale Simulation Methods for Metal Nanoparticles in Operando Conditions

Beien Zhu, Yi Gao

Shanghai Institute of Applied Physics, CAS

09:05-09:20 A02-80 Oral

Construction of Surface Microstructure and Adjusted HER Catalytic Activity Sites for Molybdenum Carbide

Weijia Zhou

South China University of Technology (SCUT)

09:20-09:35 A02-81 Oral

Interface Engineering in Planar Perovskite Solar Cells Within a Standard Structure

Chen Tao

Wuhan University

09:35-09:50 A02-82 Oral

Study on Thermoelectric Properties of Co-Evaporated Sn-Se Films with Different Phase Formations

Baohai Jia, Guojian Li, Shiyang Liu, Shan Liu, Yongjun Piao,

Qiang Wang

Northeastern University

09:50-10:05 A02-83 Oral

Gradient Ultra-Fine Grained Surface Layer in 6063 Aluminum Alloy Obtained by Means of Rotational Accelerated Shot Peening

Ying Liu¹, Hai Lu Xu², Yan Fang Liu¹, Zhong Cheng Liu

1. School of Materials Science and Engineering, Nanjing University of Science and Technology, Nanjing

2. PuJiang Institute, Nanjing Technology University, Nanjing

10:05-10:20 A02-84 Oral

A Ternary ZnGeP₂-TiC-C Nanocomposite as Large Capacity and Long Lifetime Anode for Lithium Ion Batteries

Guoping Liu, Zhicong Shi, Wenwu Li, Zaiping Guo
Guangdong Provincial Key Laboratory of Functional Soft Condensed Matter, Smart Energy Research Centre, School of Materials and Energy, Guangdong University of Technology

10:20-10:45 茶歇

10:45-11:05 A02-85 Invited

Carbide (M_xC_y) Derived Functional Nano-Carbon Electrocatalyst for Oxygen Reduction and Hydrogen Evolution Reactions

Zongkui Kou, Wenqiang Li, Shichun Mu
State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology

11:05-11:25 A02-86 Invited

Thermally-Enhanced Generation of Solar Fuels

Liming Zhang^{*1}, Xiaofei Ye², Madhur Boloor², Nicolas A. Melsosh², William C. Chueh²

1. Department of Chemistry, Fudan University
2. Department of Materials Science & Engineering, Stanford University

11:25-11:45 A02-87 Invited

g-C₃N₄ Embedded Carbon Dots for Visible Light Photocatalytic H₂ Production

Zaicheng Sun
Beijing University of Technology

墙展

A02-P01

Nanocellulose/Conductive Polymer Aerogel Electrodes for Supercapacitor Application with Higher Conductivity and Capacitance via Adding Vapor Grown Nano-Carbon Fiber as Conducting Networks

Yanping Chen^{1,2}, Shaoyi Lyu¹, Shenjie Han¹, Limin Guo¹, Wenjun Wang², Siqun Wang^{3,1}

1. Research Institute of Wood Industry, Chinese Academy of Forestry
2. Beijing Engineering Research Center of Cellulose and Its Derivatives, School of Materials Science and Engineering, Beijing Institute of Technology
3. Center for Renewable Carbon, University of Tennessee

A02-P02

CsPbBr₃ Nanocrystals Embedded in Cs₄PbBr₆ Host Matrices: Ion Concentration Difference Induced Formation and Application in White Light-Emitting Diodes

Wenkang Wang^{*1}, Tianjin Zhang¹, Duofa Wang¹, Song Wang²

1. Hubei University
2. Hubei University of Arts and Science

A02-P03

Efficient Hydrogen Isotopologues Separation through a Tunable Potential Barrier: The Case of a C₂N Membrane

Yuanyuan Qu^{*1}, Feng Li^{1,2}, Mingwen Zhao¹

1. Shandong University
2. University of Jinan

A02-P04

A New Approach to Produce a Nanocrystalline Layer on Surface of a Large Size Pure Titanium Plate

Quantong Yao
Northeastern University

A02-P05

Thermal Stability and Photocatalytic Activity of Highly Ordered Anodized TiO₂ Nanotube Arrays with Interstitial Nitrogen as Dominant Point Defect

Qing Ma^{*1,2}, Zhiyuan Luo³, Shang Gao³, Dingning Ke¹, Ting Kuang¹, Linlin Song¹, Shishan Ji²

1. Experiment and Innovation Center, Shenzhen Graduate

School, Harbin Institute of Technology

2. Research Institute of Tsinghua University in Shenzhen

A02-P06

Synthesis of Open Helmet-Like Carbon Skeletons for Application in Lithium-Ion Batteries

Wentao Jing

A02-P07

Super-Sensitive O₂ Gas Sensor Based on La-SnO₂ Nanofibers through Temperature Modulation

Ya Xiong^{*}, Hui Li, Tianchao Guo, Qingzhong Xue
China University of Petroleum

A02-P08

Preparation of b-oriented MFI Zeolite Films in Neutral Synthesis Condition

Yong Peng
College of Science, Nanchang Institute of Technology

A02-P09

Superior Energy Storage Performance Achieved in Bismuth Ferrite-Based Film Capacitors via Domain Engineering

Hao Pan^{*1}, Jing Ma¹, Ji Ma¹, Qinghua Zhang², Lin Gu², Yang Shen¹, Yuan-Hua Lin¹, Ce-Wen Nan¹

1. State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science and Engineering, Tsinghua University
2. Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences

A02-P10

Mo₂C on Carbon Fiber Paper Synthesized in Molten Salt for Hydrogen Evolution Reaction

Wenjin Yuan^{*1,2}, Nianxiang Qiu², Qin Huang², Zhenduo Cui¹, Shengli Zhu¹, Zhaoyang Li¹, Yanqin Liang¹

1. School of Materials Science and Engineering, Tianjin University, Tianjin
2. Engineering Laboratory of Nuclear Energy Materials, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences

A02-P11

MoSe₂ Nanosheets Grown on Graphite as Effective Catalytic Hydrogen Evolution Electrodes

Xu Mao^{*}, Jianpeng Zou, Danni Li

State Key Laboratory of Powder Metallurgy, Central South University

A02-P12

Synthesis of Hierarchical Cd_{0.65}Zn_{0.35}Te Nanostructures via Self-Assembly of Quantum Dots

Wangwei Lu^{*}, Gaoling Zhao, Gaorong Han

School of material science and engineering, Zhejiang University,

A02-P13

SERS Performance of β-Sn/rGO Hybrid Structure

Hanhan Wu^{*}, Bin Li, Hong-Hai Zhong, Ying-Wei Lu

Hefei University of Technology

A02-P14

The Effects of Reductive Degree of Graphite Oxide on the Visible-Light-Driven Photocatalytic Activity of MnWO₄ for Water Splitting

Hongru Zhou^{*}, Yuanyuan Peng, Jun Ke

Wuhan Institute of Technology

A02-P15

Two-Step Vapor Deposition of Self-Catalyzed Large-Size PbI₂ Nanobelts for High-Performance Photodetectors

Mingming Han^{*}, Zai-xing Yang

Shandong University

A02-P16

Preparation and Enhanced Photoelectrocatalytic Activity of Ternary TiO₂-Fe₂O₃/Cu Nanocomposites

Hexi Zhao^{*}, Huiyuan Chen, Hui Nan

Qinghai University

- A02-P17**
Control of Microstructure and Properties of Graphene Aerogel via Manipulation of Ice Crystal Template by Freeze-Casting
 Xiangyu Zhu*, Pingwei Wu², Hailong Zhang*¹
 1. State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing
 2. School of Materials Science and Engineering, University of Science and Technology Beijing
- A02-P18**
Cost-Effective Ag nanorods/rGO for Oxygen Reduction in Alkaline Medium
 Dongxiang Zhu*, Ji-Gui Cheng, Ying-Wei Lu
 HeFei University of Technology
- A02-P19**
Controlled Aqueous Synthesis of Noble Metal/Semiconductor Hybrid Nanocrystals and their Applications
 Xinyuan Li*, Meng Xu¹, Hongzhi Wang¹, Muwei Ji², Jiatao Zhang¹
 1. Beijing Institute of Technology
 2. Graduate School at Shenzhen, Tsinghua University
- A02-P20**
Effect of Annealing on the Magnetic Properties of FeCoNiCuNbSiB Soft Magnetic Alloys
 Zhun Li*, Kefu Yao², Deren Li¹, Zhichao Lu¹
 1. Advanced Technology and Materials Co., Ltd
 2. Tsinghua University
- A02-P21**
Tuning the Electronic Structure of NiO via Li doping for Fast Oxygen Evolution Reaction
 Gaoliang Fu*, Xiaojian Wen, Jun Cheng, Kelvin H. L. Zhang
 College of Chemistry and Chemical Engineering, Xiamen University
- A02-P22**
Plasmon-Enhanced Photoelectrochemical Hydrogen Generation beyond Visible Region: The Case of Au/CdSe Hybrid Nanorods from Core/Shell to Nano-Dumbbell
 Hongzhi Wang*, Jia Liu, Jiatao Zhang
 Beijing Institute of Technology
- A02-P23**
Ligand Engineering on CdTe Quantum Dots in Perovskite Solar Cells for Suppressed Hysteresis
 Jiawen Xiao*, Ma Sai, Shijie Yu, Chenxiao Zhou, Yujing Li, Qi Chen
 Beijing Institute of Technology
- A02-P24**
Cross-Sized and Cross-dimensional Self-Assembly of Perovskite Nanocrystals on Flexible Substrate and Their Fluorescence Properties
 Wenyi Huang*, Jijia Liu, Jiatao Zhang
 Beijing Institute of Technology
- A02-P25**
Naphtho[1,2-b:4,3-b'] Dithiophene-Based Hole Transporting Materials for High-performance Perovskite Solar Cells: Molecular Engineering and Opto-electronic Properties
 Binbin Cui*, Ning Yang
 Beijing Institute of Technology
- A02-P26**
Thiols Initialization and Solvents Coordination Enabled Novel Cation Exchange Strategy for Tailoring Composition and Property of Semiconductor Nanostructures
 Bing Bai*, Meng Xu, Jiatao Zhang
 Beijing Institute of Technology
- A02-P27**
From In doped Ag₂S to AgInS₂ NCs: Synthesis and Optical Properties
 Huishan Shang*, Jiatao Zhang
 Beijing Institute of Technology
- A02-P28**
- Photoelectronic Properties of Cu₂O/Cu Semiconductor-Metal Hetero-Nanocrystals: Enhancement from Cu Metal Nanocrystals**
 Muwei Ji*^{1,2}, Yao Hu¹, Ziyi Liu¹, Yiqing He¹, Chaozheng Li³, Jijia Liu³, Jiatao Zhang³, Li Bo¹, Caizhen Zhu², Jin Wang¹
 1. Tsinghua University, Graduate School at Shenzhen
 2. College of Chemistry and Environment Engineering, Shenzhen University
 3. Beijing Key Laboratory of Construction Tailorable Advanced Functional Materials and Green Applications, School of Materials Science and Engineering, Beijing Institute of Technology
- A02-P29**
Reduction of Intrinsic Defects in Hybrid Perovskite Films via Precursor Purification
 Deliang Zhang*, Bin-bin Cui
 Beijing Institute of Technology
- A02-P30**
The effect of W modification on Structure Stability and Electrochemical Performance of Ni-rich LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode Material
 Ran Wang*¹, Jing Wang^{1,2,3}, Shi Chen^{1,2,3}, Yuefeng Su^{1,2,3}, Danhua Li¹, Ang Gao¹, Feng Wu^{1,2,3}
 1. Beijing Key Laboratory of Environmental Science and Engineering, School of Materials Science and Engineering, Beijing Institute of Technology
 2. Collaborative Innovation Centre for Electric Vehicles in Beijing
 3. National Development Centre of High Technology Green Materials
- A02-P31**
Graphene Quantum Dots/Bi₂MoO₆ Hybrid Photocatalyst with Efficient Physical and Chemical Simultaneous Co-catalysis for Photocatalytic Oxidation
 Yuchen Hao*, Xiaoli Dong, Yu Wang, Nan Zheng
 School of Light Industry and Chemical Engineering, Dalian Polytechnic University
- A02-P32**
Facile Synthesis of NiCo_{2-x}Fe_xO₄ Nanotubes/Carbon Textiles Composites for High-performance Electrochemical Energy Storage Devices
 Zhaohui Liu*, Longqiang Wang, Yufeng Cheng, Xiangyang Cheng, Bo Lin, Longfei Yue, Shougang Chen
 Ocean University of China
- A02-P33**
A Three-Dimensional Structure Si/Ni₃Si Anode with High Conductivity for Lithium-Ion Battery
 Wurigumula Bao*¹, Jing Wang^{1,2,3}, Shi Chen^{1,2,3}, Feng Wu^{1,2,3}
 1. Beijing Institute of Technology
 2. Collaborative Innovation Centre for Electric Vehicles in Beijing
 3. National Development Centre of High Technology Green Materials
- A02-P34**
Enhancing Gas Sensitivity and Sensing Mechanism at Atomic and Molecule Level of WO₃ Nanoparticles by Hydrogenation
 Qin Du*, Li Wang, Juan Yang, Junfang Liu, Yukun Yuan, Mengzhu Wang, Bin Liu, Xiao Zhang, Yan Ren, Hua Zhao, Heqin Yang
 Shanxi Normal University
- A02-P35**
Hydrogenated TiO₂ Nanosheet Based Flowerlike Architectures: Enhanced Sensing Performances and Sensing Mechanism
 Junfang Liu*, Ye Wang, Miao Wang, Cuijin Pei, Meng Cui, Yukun Yuan, Guoping Han, Bin Liu, Hua Zhao, Heqing Yang, Shengzhong Liu
 Shanxi Normal University
- A02-P36**
Metal Halide Perovskite Modified Garnet Electrolyte Enabled Enhanced-performance Solid State Li Metal Batteries
 Jiafeng Wu*, Xinyue Li, Lang Liu, Wenjie Qu, Rui Luo, Lei Wei, Renjie Chen, Yujing Li, Qi Chen
 Beijing Institute of Technology

A02-P37

A Strategy in Fabricating New 2D Cesium Lead Halide Perovskite Material with Anionic Spacers

Yizhou Zhao^{*1,2}, Siyu Zhang¹, Xiuxiu Niu¹, Yue Lu³, Zhu Cheng¹, Jiawen Xiao¹, Huachao Zai^{1,2}, Manling Sui³, uanping Zhou¹, Yujing Li¹, Qi Chen¹

1. Beijing Institute of Technology
2. China University of Petroleum
3. Beijing University of Technology
4. Peking University

A02-P38

Synthesis of p-Type Au@CdS by Cation Exchange Method and Its Utilization for Efficient Photoelectrochemical Water Splitting

Rongrong Pan*, Jia Liu, Jiatao Zhang
Beijing Institute of Technology

A02-P39

Pt-Ag Porous Alloy Nanotube Rich in Controlled Pt at the Surface with Enhanced Activity and Durability Toward Oxygen Reduction

Erhuan Zhang*, Jia Liu, Jiatao Zhang
Beijing Institute of Technology

A02-P40

X-ray Scattering Observation of Two-Dimensional Interfacial Colloidal Crystallization

Longlong Wu*, Xiao Wang, Gang Chen
Shanghai Tech University

A02-P41

Manipulation of Facet Orientation in Hybrid Perovskite Polycrystalline Films by Cation Cascade

Cheng Zhu^{*1,2}, Guanghaojie Zheng^{2,3,4}, Jingyuan Ma⁴, Xiaonan Zhang^{3,4}, Gang Tang¹, Yihua Chen², Liang Li¹, Jinsong Hu⁴, Jiawang Hong¹, Qi Chen¹, Xingyu Gao^{3,4}, Huanping Zhou²

1. Beijing institute of technology
2. Peking University
3. Shanghai Institute of Applied Physics Chinese Academy of Sciences
4. University of Chinese Academy of Sciences
5. Key Laboratory of Molecular Nanostructure and Nanotechnology
6. University of Science and Technology Beijing

A02-P42

Heterovalent Sb³⁺/Ag⁺ Doping in CdS Quantum Dots with Efficient Luminescence: Cation Exchange Enabled Ternary Ag₃SbS₃ Nanocrystals Conversion into Doped Binary CdS QDs

Qiumei Di*, Jiatao Zhang
Beijing Institute of Technology

A02-P43

Inkjet-Printed Thermochromic Vanadium Dioxide Nanoparticle Films for Smart Windows

Haining Ji^{*1,2}, Dongqing Liu², Haifeng Cheng², Chaoyang Zhang²

1. School of Physics and Optoelectronic, Xiangtan University
2. Science and Technology on Advanced Ceramic Fibers and Composites Laboratory, National University of Defense Technology

A02-P44

Dynamic Hosts for High-Performance Li-S Batteries Studied by Cryo-STEM and in Situ XRD

Xiaochen Liu^{*1}, Yao Yang², Héctor D Abruña², Fu-Sheng Ke¹

1. College of Chemistry and Molecular Sciences, Wuhan University
2. Department of Chemistry and Chemical Biology, Baker Laboratory, Cornell University

A02-P45

One-Pot Solvothermal Synthesis of Graphene/ α -MnS Nanocomposite for Electrochemical Capacitor Electrodes

Xianfu Li^{*1,2}, Jianyu Zhou¹, Yingsong Yu¹, Kaixuan Zhou¹, Jianfeng Shen², Mingxin Ye²

1. Anhui Polytechnic University
2. Fudan University

A02-P46

Grain Boundary "Patches" by in Situ Conversion to

Enhance Perovskite Solar Cells Stability

Lang Liu^{*1}, Sheng Huang¹, Yue Lu², Pengfei Liu¹, Yizhou Zhao¹, Congbo Shi¹, Siyu Zhang¹, Jiafeng Wu¹, Haizheng Zhong¹, Manling Sui², Huanping Zhou³, Haibo Jin¹, Yujing Li¹, Qi Chen^{1,4}

1. Beijing Key Laboratory of Nanophotonics and Ultrafine Optoelectronic Systems, School of Materials Science & Engineering, Beijing Institute of Technology, Beijing 100081, China
2. Institute of Microstructure and Properties of Advanced Materials, Beijing University of Technology, Beijing 100124, China
3. Department of Materials Science and Engineering, College of Engineering, Peking University, Beijing 100871, China
4. Advanced Research Institute for Multidisciplinary Science, Beijing Institute of Technology, Beijing 100081, China

A02-P47

Direct Anodic Exfoliation of Graphite onto High-density Aligned Graphene for Large Capacity Supercapacitors

Liangsheng Hu*, Kwok-Yin Wong
The Hong Kong Polytechnic University

A02-P48

Mn₇C₃ Confined in the Mesoporous Carbon Sphere for High Rate Lithium-Sulfur Batteries

Xiaoqiang Liang^{*1,2}, Xiong Pu^{1,2}

1. Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences
2. University of Chinese Academy of Science, Academy of nanoscience and nanotechnology

A02-P49

Controllable Preparation of Tungsten / Tungsten Carbide Nanowires Using Carbon Nanotubes as Templates

Xiaona Ren*, Min Xia, Qing-Zhi Yan, Chang-Chun Ge, Xian-Ran Xing
University of Science and Technology Beijing

A02-P50

One-Pot Synthesis of Pt₇₂Ru₂₈ Porous Nanoalloy Assembled with Sub-4.0 nm Particles for Methanol Oxidation

Fengling Zhao*, Wei yue Zhao, Qiang Yuan
Guizhou University

A02-P51

Enhanced Upconversion Based on the Ultrahigh Local Field Enhancement in a Multilayered UCNPs-Metamaterial Composite System

Shiping Zhan^{*1}, Xiaofeng Wu¹, Chao Tan¹, Jian Xiong², Shigang Hu¹, Junshan Hu¹, Shaobin Wu¹, Yongyi Gao¹, Yunxin Liu¹

1. Hunan University of Science and Techology
2. Guilin University of Electronic Technology

A02-P52

Enhanced Gas Separation Performance of Ionic Liquid Nanoconfined in MoS₂ Nanochannels

Danke Chen*, Xinsheng Peng
State Key Laboratory of Silicon Materials, School of Materials Science and Engineering, Zhejiang University, Hangzhou, China

A02-P53

Ionic Liquid Selectively Facilitates CO₂ Transport through Graphene Oxide Membrane

Wen Ying*, Xinsheng Peng
School of Materials Science and Engineering, Zhejiang University

A02-P54

Fe₂N Encapsulated in n-doped Porous Carbon Derived from MOFs as Synergistic Catalyst for ORR

Xiaoxiao Huang*, Yanglong Hou
Peking University

A02-P55

Stable p-type ZnO Nanowires for Photoelectrochemical and Photocatalytic Water Splitting

Chang Cao*, Shiwei Lin
Hainan University, State Key Laboratory of Marine Resource Utilization in South China Sea

A02-P56**Free-Standing n-doped Carbon Nanofibers/Carbon Nanotubes Hybrid Film for Flexible, Robust Half and Full Lithium-Ion Batteries**Ling Huang^{*1,2}, Qun Guan^{1,2}, Jianli Cheng^{1,2}, Bin Wang^{1,2}

1. Institute of Chemical Materials, China Academy of Engineering Physics
2. Sichuan R&D Center of New Materials

A02-P57**High-throughput Preparation and Characterization of Perovskite Microflakes Based on Microdroplet Array**

Huigang Du

Shanghai University

A02-P58**Boosting the Deep Discharging/Charging Lithium Storage Performances of Li₃VO₄ through Double-Carbon Decoration**Huan Cheng Liu^{*}, Ping Hu, Qiang Yu, Zhenhui Liu, Ting Zhu, Wen Luo, Liang Zhou, Liqiang Mai

Wuhan University of Technology

A02-P59**Composition-Driven Shape Evolution to Cu-rich PtCu Octahedral Alloy Nanocrystals as Superior Bifunctional Catalysts for Fuel Cell**Fang Yang^{*}, Chaozhong Li, Qiang Yuan

Guizhou University

A02-P60**Controlled Cation Exchange Reaction between Cu²⁺ and Bi₂Te₃ Nanoplate: Controlled Synthesis, Characterization and Mechanism**Xiangyun Bai^{*}, Ning Su, Shuai Guo, Yuxiong Chen, Jin Wang, Muwei Ji, Bo Li

Graduate School at Shenzhen, Tsinghua University

A02-P61**Monodispersed Sub-5.0 nm PtCu Nanoalloys: Composition-Tunable Synthesis and their Applications for Oxygen Reduction Reaction and Ethanol Oxidation Reaction**Tengyue Ma^{*}, Taiyang Liu, Qiang Yuan

Guizhou University

A02-P62**Low Temperature Derived Atomic Cobalt on n-doped Graphene as an Efficient Electrocatalyst for the Oxygen Reduction Reaction and Zn-Air Batteries**

Haoyun Liu

Wuhan University of Technology

A02-P63**Defect Engineering of Molybdenum Disulfide to Tunable Hydrogen Evolution Behavior through Ion Irradiation**Engang Fu^{*1,2}, Peipei Wang^{1,2}, Cheng Sun³, Hao Wang³, Guifu Zou³

1. School of Physics, Peking University
2. State Key Laboratory of Nuclear Physics and Technology, Peking University
3. Soochow Institute for Energy and Materials Innovation & Key Laboratory of Advanced Carbon Materials and Wearable Energy Technologies of Jiangsu Province, Soochow University

A02-P64**Hybrid Electrodes with High Capacity for Lithium Ion Battery Anodes**Siguang Guo^{*1}, Biao Gao¹, Kaifu Huo^{1,2}

1. Wuhan University of Science and Technology
2. Huazhong University of Science and Technology

A02-P65**Enhancing Efficiency and Stability of Perovskite Solar Cells via a High Mobility p-type PbS Buffer Layer**Qi Zhang^{*}, Xiaolu Zheng, Guojia Fang

Wuhan University

A02-P66**Defects and Interfaces on PtPb Nanoplates Boost Fuel Cell****Electrocatalysis**Engang Fu^{*1,2}, Yanxia Liang^{1,2}, Yingjun Sun^{3,4}, Xinyu Wang^{5,6}, Xiaodong Wen⁶, Shaojun Guo⁴

1. School of Physics, Peking University
2. State Key Laboratory of Nuclear Physics and Technology, Peking University
3. College of Chemistry and Molecular Engineering, Qingdao University of Science and Technology
4. Department of Materials Science and Engineering, College of Engineering, Peking University
5. College of Chemistry and Molecular Engineering, Peking University
6. State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences

A02-P67**Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction**

Zhi Li

Tsinghua University

A02-P68**Resolving the Local Electrochemistry of Lithium-Ion Battery Electrode Materials via ESM**Aolin Li^{*1}, Kai Pan¹, Yunya Liu¹, Chihou Lei², Jiangyu Li³

1. School of Materials Science and Engineering, Xiangtan University
2. Department of Aerospace and Mechanical Engineering, Saint Louis University
3. Department of Mechanical Engineering, University of Washington

A02-P69**Scalable Synthesis of Co_{0.5}Ni_{0.5}MoO₄ Double-Shelled Hollow Spheres for High-Performance Supercapacitors and Lithium-Ion Batteries**Wei Chen^{*}, Lun Li

State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology

A02-P70**Effect of Different Rare Earth Element (Gd³⁺Y) on the Microstructure and High Temperature Tensile Properties of Mg-xGd-yY-0.5Zr Alloys**

Hamid Reza Jafari Nodoshan, Xiaoqin Zeng, Dejiang Li, Wencai Liu, Guohua Wu, Wenjiang Ding

National Engineering Research Center of Light Alloy Net Forming and Key State Laboratory of Metal Matrix Composite, Shanghai Jiaotong University

A02-P71**High Specific Capacity Carbon Coated Silicon/Graphene Nanocomposite Anode Materials for Li-Ion Batteries**

Si Xiao, Xi Ke, Jun Liu, Zhicong Shi

New Energy Materials and Devices Department, School of Materials and Energy, Guangdong University of Technology

A02-P72**Broadband Antireflection Sub-Microstructures on 4H-SiC**

Jun Yuan, Xing Huang, Weijiang Ni

Beijing Century Goldray Semiconductor Co.Ltd

A02-P73**Controllable Synthesis of Ultrathin CsPbBr₃ Nanoplatelets and Their Reversible Transformation into Cs₄PbBr₆ Nanocrystals**

Wei Zhai, Jing Lin, Yang Huang, Chengchun Tang

1. School of Materials Science and Engineering, Hebei University of Technology
2. Hebei Key Laboratory of Boron Nitride Micro and Nano Materials, Hebei University of Technology

A02-P74**High-Performance Lithium-Sulfur Batteries with a Carbonized Chitosan Modified Separator**Lei Tan, Xinhai Li^{*}, Zhixing Wang, Huajun Guo, Jiexi Wang, Guochun Yan

School of Metallurgy and Environment, Central South University

A02-P75

Mesoporous Lamellar-Shaped Lithium-Rich Cathode Material for Lithium-Ion Batteries with Exceptional Rate Capability and Stability

Min Li^{1,2}, Yi Zhou^{1,2}, Xiaoyan Wu², Lei Duan², Chunming Zhang², Fang Zhang², Dannong He^{1,2*}

1. School of Material Science and Engineering, Shanghai Jiao Tong University
2. National Engineering Research Center for Nanotechnology

A02-P76

Controllable Synthesis of Non-Stoichiometric Copper Chalcogenide Nanocrystals with Tunable Near-Infrared Localized Surface Plasmon Resonance Absorption

Dongxu Zhu, Feng Teng, Aiwei Tang
Beijing JiaoTong University

A02-P77

石墨烯负载纳米银复合材料的制备及性能研究

周懿涵
济南大学

A02-P78

In situ Growth of Heterostructured Sn/SnO Nanospheres Embedded in Crumpled Graphene as an Anode Material for Lithium-ion Batteries

Jing-Feng Wang¹, Dan-Nong He^{1,2}

1. National Engineering Research Center for Nanotechnology
2. School of Materials Science and Engineering, Shanghai Jiao Tong University

A02-P79

Facile *In-Situ* Synthesis of Crystalline VOOH-Coated VS₂ Microflowers with Superior Sodium Storage Performance

Wenbin Li, Jianfeng Huang, Liangliang Feng, Liyun Cao
School of Materials Science & Engineering, Shaanxi University of Science and Technology

A02-P80

***In situ* grown of Ni(OH)₂ nanosheets on nickel foam as binder-free electrode for electrochemical pseudocapacitor**

Yu Liu, Yonghong Liu
School of Science, Nanchang Institute of Technology,
Nanchang, 330099, China