

Department of Materials Science and Engineering



XIAO YUE 肖月

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Home Page: <https://js.chd.edu.cn/clkxygcxy/xy1/list.htm>

Research area or direction:

Pavement materials and road Engineering



CHEN HUAXIN 陈华鑫

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Research area or direction:

1. High-performance asphalt materials
2. Functional transportation materials



GENG JIUGUANG 耿久光

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Home Page:

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Research area or direction:

1. Eco-friendly Materials
2. Solid Waste Resource Utilization
3. Transportation Function Materials
4. Durability of Pavement Materials



GUAN BOWEN 关博文

Email: bguan@chd.edu.cn

Home Page: <https://js.chd.edu.cn/clkxygcxy/gbw/list.htm>

Research area or direction:

1. Preparation and application of intelligent responsive materials
2. Research and development of environmentally friendly low-emission materials
3. Material resource recycling and green preparation
4. Material life extension and sustainable development



YU JINCHENG 余金城

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Research area or direction:

1. Development and Research of Novel Materials and Technologies
2. High-performance cement-based composite materials
3. Resource Recovery and Recycling Technologies for Solid Waste
4. Eco-Building Materials



CONG PEILIANG 丛培良

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Research area or direction:

1. Development and Research of Novel Materials and Technologies
2. Organic/Inorganic Composite Materials
3. Resource Recovery and Recycling Technologies for Solid Waste
4. Eco-Building Materials



GAO LINING 高莉宁

Email: lngao@chd.edu.cn

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Research area or direction:

1. Photocatalytic materials
2. Self-cleaning coating
3. Superabsorbent polymer internal curing materials



SHENG YANPING 盛燕萍

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Research area or direction:

1. Durable road engineering materials
2. Functional materials for transportation and construction
3. Comprehensive utilization of waste from transportation and construction projects



FU ZHEN 傅珍

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Research area or direction:

- 1.Functional and environmentally friendly road engineering and materials
- 2.self-sufficiency in transportation energy
- 3.high-performance road materials



HE RUI 何锐

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Research area or direction:

- 1.Design and Fabrication of Low-Dimensional Carbon Nanomaterials
- 2.Clean Conversion and High-Efficiency Utilization of Solid Waste Resources
- 3.Intelligent Sensing Theory and Materials for Transportation Infrastructure



TIAN YAOGANG 田耀刚

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Research area or direction:

- 1.Development and Research of Novel Materials and Technologies
- 2.High-performance cement-based composite materials
- 3.Resource Recovery and Recycling Technologies for Solid Waste
- 4.Eco-Building Materials



XING MINGLIANG 邢明亮

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Research area or direction:

- 1.Functional Pavement materials and properties
- 2.Durable pavement structure and materials
- 3.Road engineering maintenance materials
- 4.Eco-friendly Materials



XIONG RUI 熊锐

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Research area or direction:

1. Development of Eco-Friendly Construction Materials and Resilience Enhancement
2. Lifespan Extension Design and Broad Applications of Functional Materials
3. Resource Recycling and Sustainable Development of Solid Waste



NIU DONGYU 牛冬瑜

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Research area or direction:

1. Smart road material design and evaluation
2. Research and development of sustainable ecological functional materials
3. Multi-scale numerical simulation of road materials



LI ZUZHONG 李祖仲

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Research area or direction:

1. Development and utilization of biomass materials
2. Electrode material



KUANG DONGLIANG 况栋梁

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Research area or direction:

1. Preparation, modification, and application of organic binders
2. High-performance and low-carbon materials for transportation infrastructure
3. Genomic technology for organic binders



QI LIN 齐琳

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Research area or direction:

1. Eco-friendly Materials
2. Functional Pavement materials
3. Solid Waste Resource Utilization



YIN YANPING 尹艳平

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Research area or direction:

1. Development and Research of Novel Materials and Technologies
2. High-performance cement-based composite materials
3. Resource Recovery and Recycling Technologies for Solid Waste
4. Eco-Building Materials



MA XIAOYAN 马晓燕

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Research area or direction:

1. Multi-scale performance prediction of asphalt materials
2. Development of colored binders
3. Development of polymer modifiers
4. MS simulation and computation



WU YONGCHANG 吴永畅

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Research area or direction:

1. Transportation functional materials
2. High performance structure materials
3. Materials design based on deep learning



LI JUN 李军

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Research area or direction:

1. Metal Corrosion and Protection
2. Solid Waste Recycling and Utilization
3. Intelligent Responsive Materials in Transportation



WANG RUIYANG 王瑞阳

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Research area or direction:

1. Self-healing concrete
2. Concrete durability
3. Solid waste utilization



WANG FENG 王凤

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Research area or direction:

1. Low-carbon pavement materials
2. quantitative characterization of aggregate morphology
3. high-performance design of asphalt mixtures.

Department of Material Forming and Control Engineering



CHEN YONGNAN 陈永楠

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Research area or direction

1. Light Alloy Surface Treatment



XU YIKU 徐义库

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Research area or direction

1. Advanced Material Processing and Forming
2. Crystal Growth and Properties
3. Surface Strengthening of Light Metals
4. 3D Printing - Laser Additive Manufacturing



GUO YAJIE 郭亚杰

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Research area or direction

1. Heterogeneous Material Joining Technology and Interfaces
2. Metal Matrix Composites
3. Electrocatalytic Hydrogen Production Functional Metals
4. Material Protection



ZHOU LIANG 周亮

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Research area or direction

1. Magnesium Alloy Design and Preparation
2. Aluminum-Magnesium Alloy Surface Treatment
3. Electromagnetic Wave Absorption and Shielding Materials



ZHANG FENGYING 张凤英

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Research area or direction

1. Metal additive manufacturing
2. Laser surface treatment
3. Titanium alloy



XING YAZHE 邢亚哲

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Research area or direction

1. Material surface strengthening and functional coatings
2. Preparation of the materials for SOFC/SOEC and TBCs
3. Advanced material joining technology



LIU SHENGLIN 刘胜林

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Research area or direction

1. Metal Corrosion Prevention
2. surface technology



YUAN ZHANWEI 袁战伟

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Research area or direction

1. metal matrix composites
2. metal additive manufacture
3. computer simulations



ZHAO QINYANG 赵秦阳

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Research area or direction

1. Titanium alloys



CHEN HONG 陈宏

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Research area or direction

1. Light Alloy Surface Treatment
2. Protective coating of metals and alloys



JIANG CHAOPING 姜超平

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Research area or direction

1. Metal additive manufacturing
2. Light Alloy Surface Treatment



ZHANG XUEMIN 张学敏

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Research area or direction

1. Material failure analysis and life prediction
2. Material forming simulation



TIAN XIAODONG 田晓东

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Research area or direction

1. Metal surface strengthening
2. Oxidating resistant coating



ZHANG YONG 张勇

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Research area or direction

1. Preparation of the materials for SOFCs;
2. Surface modification of materials.



SUN ZHIPING 孙志平

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Research area or direction

1. Additive manufacturing of refractory alloys
2. Surface protection of structural metals



LI HONGWEI 李红伟

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Home Page: <https://js.chd.edu.cn/clkxygcxy/lhw100/list.htm>

Research area or direction

1. Thermal management materials
2. Surface modification of materials
3. Engineering applications of new materials



AI CHENG 艾诚

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Research area or direction

1. Advanced metals and alloys
2. Protective coating of metals and alloys



LI YAO 李尧

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Research area or direction

1. Laser/electron beam 3D printing of Ni-based superalloys
2. Surface strengthening of structural alloys
3. Application and software development of synchrotron radiation X-ray microbeam diffraction characterization technology



GUO TING 邬婷

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Research area or direction

1. Microstructural Control and Performance Optimization of Advanced Nanometals
2. Laser/electron beam 3D printing of Ni-based superalloys high-entropy alloys



JIA HONGYAO 贾宏耀

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Research area or direction

1. Microwave absorption materials and characterization
2. Microwave heating



WANG NAN 王楠

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Research area or direction

1. Metal Deformation and Strengthening
2. Light Alloy Surface Treatment

Department of Inorganic Non-Metallic Materials Engineering



WANG ZHENJUN 王振军

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Research area or direction

1. New carbon materials and their composites
2. Intelligent and functional pavement materials
3. High-performance road materials
4. Advanced traffic materials based on safety functions
5. Recycling of solid waste materials for transportation applications
6. Computational materials and identification



LI HUI 李辉

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Research area or direction

1. Computational Materials Science
2. Ultra-high-temperature ceramics and ceramic matrix composites
3. MAX phases, MXenes, and research on their battery and electrochemical performance
4. Advanced functional ceramics (e.g., lead-free piezoelectric ceramics such as KNN, BNT)



SUN GUODONG 孙国栋

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Research area or direction

1. Preparation and properties of carbon/carbon composites
Preparation and properties of antioxidant coatings for carbon/carbon composites
2. Finite element simulation
3. Preparation and characterization of functional ceramics



SU XINGHUA 苏兴华

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Research area or direction

Advanced structural-functional integrated ceramic materials, Flash sintering, High-entropy ceramics, Non-equilibrium preparation of ceramic materials, Design nuclear waste solidification materials.



ZHAO PENG 赵鹏

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Research area or direction

1. Basic Engineering of Inorganic Non-metallic Materials
2. Inorganic Nanomaterials and Electronic Information Materials
3. Road Engineering Materials and Computational Materials



ZHANG WENXUE 张文雪

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Research area or direction

Preparation and design of new energy materials, electromagnetic property modulation of graphene-like materials, and surface/interface adsorption and catalysis.



YU PENGFEI 俞鹏飞

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Research area or direction

Growth methods and techniques, performance tuning, and device preparation of novel compound semiconductor crystals; Design, preparation, and performance tuning of nanopowder materials and novel functional ceramics.



JIANG ZIQIANG 蒋自强

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Research area or direction

R&D, synthesis, and applications of inorganic luminescent materials; processing methods and applications of advanced functional ceramics



ZHENG JIAHONG 郑佳红

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Research area or direction

New energy materials, nanomaterials, and new semiconductor materials



AI TAO 艾涛

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Research area or direction

Green renewable self-healing composites and multifunctional Epoxy/Polyurethane Interpenetrating network material



SUN ZHIHUA 孙志华

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Research area or direction

Mineral and functional materials



WEN JIURAN 温久然

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Research area or direction

For many years, she has been working on the research and teaching of inorganic non-metallic materials. Primary research focuses on composite materials, solid waste utilization, and advanced hydrogen storage materials.



YAN XIN 阎鑫

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Research area or direction

Functional inorganic materials preparation and their application in the fields of environmental and energy.



BAI MIN 白敏

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Research area or direction

1. Properties of cement-based materials
2. Prediction of material properties based on computer simulation
3. Preparation and performance study of transparent ceramics



ZHENG XUEPING 郑雪萍

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Research area or direction

New energy direction: Solid-state hydrogen storage alloys, new solid-state working materials, coordinated hydride hydrogen storage materials.

Inorganic non-materials direction: concrete materials, concrete admixtures, ceramic materials, etc.



LI XIAOYU 李晓玉

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Research area or direction

Energy and Environmental Materials; Carbon Dioxide Capture, Catalytic Reduction and Resource Utilization; Calcium Cycle Thermochemical Energy Storage; Functionalization Applications of Natural Minerals, High-Value Resource Utilization of Industrial Solid Waste.



LUO WEIHUA 罗伟华

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Research area or direction

Development of mineral composite materials and new technology research; Advanced cement-based composite materials; Solid waste resource recycling technology; Biological ceramics materials.



XIE JING 解静

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Research area or direction

1. Study on matrix modification of carbon/carbon composites
2. Research on high-temperature oxidation-resistant and ablation-resistant coatings



XU XIQING 许西庆

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Research area or direction

Nanostructured amorphous ceramics and their plastic deformation, 3D printing technology of ceramic materials, ceramic cores for investment casting of aircraft engine blades, research on ceramic armor protective materials and dynamic mechanics.



JIA YAN 贾研

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Research area or direction

Design, preparation and performance regulation of carbon/carbon (C/C) and carbon ceramic composites; Mechanical and anti-ablation properties of high-entropy ceramics (HEC).



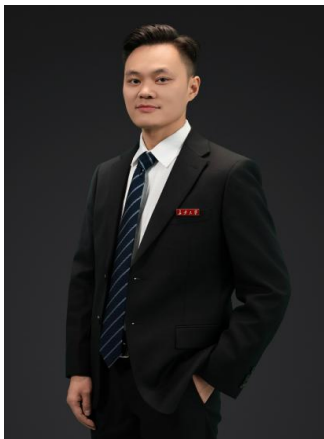
GUO HAOYAN 郭豪彦

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Research area or direction

1. Organic/inorganic composites
2. Functional materials
3. Low-carbon and zero-carbon recycled materials
4. Ultra-long-service materials with extreme environment tolerance



XIA JUNCHAO 夏俊超

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Research area or direction

1. Electron and phonon transport in thermoelectric materials
2. Multi-scale structural characterization of materials
3. Ceramic-based nanocomposites
4. New materials for energy-transport integration



Zhang Ting 张婷

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Research area or direction

Regulation of hydration heat effect of cementitious, and utilization of solid waste resources

Department of Polymer Materials and Engineering



XU PEIJUN 许培俊

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Research area or direction

1. Thermosetting Resin Preparation and Modification.
2. Polymer Matrix Composites Optimization and Intelligentization.
3. Polymer Modification on Paving Materials.



XIA HUIYUN 夏慧芸

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Research area or direction

1. Self-cleaning functional coating.
2. Polymer modified road engineering materials.
3. Synthesis and application of superabsorbent polymer.
4. Photocatalytic materials for adsorption and separation.



YAN NI 晏妮

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Research area or direction:

1. Organic optoelectronic materials
2. Fluorescent sensors



Chen Xi 陈曦

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Research area or direction

Functional polymer membrane materials. Hydrogel preparation and biological applications.



SONG JIALE 宋家乐

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Research area or direction

1. Polymer synthesis and modification
2. Material surface modification and protection



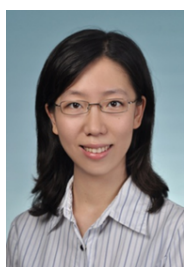
WU LEI 吴蕾

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Research area or direction

1. Preparation and Properties of Composite Materials.
2. Synthesis and Applications of Porous Functional Materials.



TIAN YEFEI 田野菲

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Research area or direction

1. Functional Polymers and Biomacromolecules
2. Micro/Nano sensors



YAN LUKE 颜录科

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<http://www.polymer.cn/ss/yanluke/index.html>

Research area or direction

Green & functional polymer materials, polymer membranes for wastewater treatment, green recycling and high-value utilization of waste plastics, polymer composites, special engineering plastics, traffic functional materials



DENG JUANLI 邓娟利

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Research area or direction

1. Ceramic Matrix Composite Materials
2. Friction Materials
3. Environmental Barrier Coating
4. Material Calculation and Simulation



SONG LIFANG 宋莉芳

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Research area or direction:

1. Nano-modified waterborne functional coating.
2. Polymer modified road engineering materials.
3. High-performance polymers.
4. MOFs materials for adsorption and separation.



CHAO MIN 晁敏

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Research area or direction

1. Resin-based composites
2. Advanced nano-functional materials



Li Jiang 李江

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Research area and direction

1. Metal-organic Frameworks
2. Membrane separation Technology
3. Bionic ion Channel



LUO CHUNJIA 骆春佳

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Research area or direction:

1. Molecular Design and Synthesis of Advanced Silicone Polymers
2. Advanced Precursor Materials for High-Temperature Ceramics
3. Multifunctional Materials for Microwave Absorption and Electromagnetic Interference Shielding

Department of New Energy Materials and Devices



Ni Lei , 倪磊

Associate Professor , Master's Supervisor, Director of the Department of New Energy Materials and Devices

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Research Interests:

- 1) Functional ceramic materials;
- 2) High-performance functional composite materials;
- 3) Solid-state electrolyte materials;
- 4) Chemical battery materials



DUAN LI, 段理

Professor, Ph.D. Supervisor

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Research area or direction

Computer Simulation of Advanced Semiconductor Materials and Devices



Luan Lijun, 栾丽君

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Research Focus

1. II-VI semiconductor crystal growth & radiation detectors
2. Garnet ferrite materials & multi-scale characterization
3. Computational materials design (photocatalysis, photovoltaics, novel materials)



Xiaochen Yu 于晓晨

Associate Professor, Master's Supervisor

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Research area or direction

1. Design and development of rare-earth luminescent materials and related devices.
2. Preparation and performance regulation of photocatalytic materials.
3. Computational studies integrating first-principles calculations with machine learning methods.

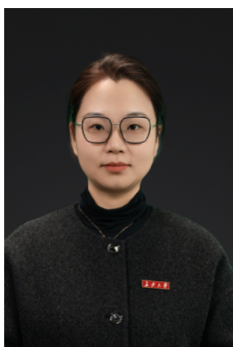


FAN JIBIN 樊继斌

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Research area or direction

1. Next-Generation CMOS high-k Gate Dielectric Integration Technology;
2. Semiconductor Materials and Devices.



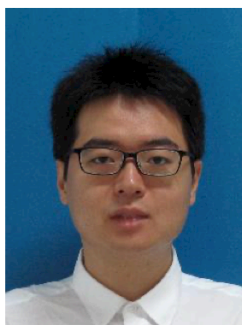
Zhang Yan, 张研

Associate Professor, Director of the International Exchange Center

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Research Interests:

- 1) Fundamentals and applications of functional ceramic materials;
- 2) Performance research and applications of high-performance 2D materials;
- 3) Fundamentals and applications of novel environmentally friendly energy materials.



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research interests :

- 2-dimensional materials
- electrowetting materials and devices
- photoanode materials for next-generation solar cells



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Research area or direction:

1. Preparation and optimization of functional thin film materials.
2. Resistive Random-Access Memory and Memristor.



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Research area:

Focuses on electrocatalysis and energy storage, with an emphasis on regulating the intrinsic activity and mass transport of metal-based electrocatalysts, as well as theoretical modeling and analysis.



LUO QIAOMEI 罗巧梅

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Research area or direction

1. Multi-functional micro-nano composite structures and their efficient applications in the field of electrocatalysis (hydrogen evolution/oxygen evolution/water splitting);
2. Design of hollow porous hierarchical structure and modification of their surface/interfaces.