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专业：物理化学

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简介：裴晓燕，女，1988 年 9 月生，博士，副教授，硕士生导师，入选南湖学者奖励计划 A 类人才。

个人经历

教育经历：

2008.9-20012.6	学士	河南师范大学	化学化工学院	化学
2012.9-2018.6	博士	河南师范大学	化学化工学院	物理化学

工作经历：

2018.7-至今	信阳师范学院	化学化工学院	讲师
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研究领域与兴趣

1. 功能溶液化学
2. 刺激响应性材料

主讲课程

本科生：《结构化学》、《统计热力学》、《物理化学实验》等

主持科研项目

纵向项目：

1. 国家自然科学基金：离子液体功能化 MOF 稳定的 CO₂ 响应 Pickering 乳液的微结构和相行为调控，22003055，24 万，2021.1-2023.12，主持
2. 河南省科技攻关项目：基于离子液体的微流反应连续制备 MOFs 材料及结构调控研究，232102230076，2023.1-2024.12，主持

代表性研究成果

期刊论文：

1. Xiaoyan Pei*, Wangyue Song, Yunlei Shi, Yang Zhao, Zhiyong Li*, CO₂-triggered (3-aminopropyl)triethoxysilane-functionalized M-MOF-74 stabilized Pickering emulsions, Journal of Molecular Liquids, **2024**, 405, 125022.
2. Xiaoyan Pei, Wangyue Song, Yang Zhao, and Zhiyong Li*, CO₂-switchable amidine-modified ZIF-90-stabilized Pickering emulsions for controllable Knoevenagel condensation reactions, Molecular Systems Design & Engineering, **2024**, 9, 278-285.
3. Xiaoyan Pei*, Wangyue Song, Yunlei Shi, Chao Xu, Zhe Wang, Xiantao Ma, Dong-Li Xu, and

- Zhiyong Li*, CO₂ Switchable Emulsification and Demulsification of Pickering Emulsion Stabilized by Zirconium-Based Metal-Organic Frameworks, *ACS Sustainable Chemistry & Engineering*, **2023**, 11, 796-803.
4. **Xiaoyan Pei*** and Wangyue Song, CO₂ Triggered Hierarchical-Pore UiO-66-Based Pickering Emulsions for Efficient and Recyclable Suzuki-Miyaura Cross-Coupling in Biphasic Systems, *Langmuir*, **2023**, 39, 15046-15054.
 5. **Xiaoyan Pei***, Wangyue Song, Zongwen Zhang, Yang Zhao, and Zhiyong Li*, CO₂ Responsive CuI-Ionic Liquid/Zeolitic Imidazolate Frameworks Stabilized Pickering Emulsions for Azide-Alkyne Click Reaction, *ACS Applied Nano Materials*, **2023**, 6, 19972-19980.
 6. **Xiaoyan Pei***, Wangyue Song, Dong-Li Xu, Qiuju Zhou, Yang Zhao, and Zhiyong Li*, CO₂ Induced Phase Transfer of Amino-Modified ZIF-90 between Immiscible Liquid Phases for Recyclable Efficient Synergistic Catalysis, *ACS Applied Nano Materials*, **2023**, 6, 11291-11298.
 7. **Xiaoyan Pei***, Jiang Liu, Wangyue Song, Dongli Xu, Zhe Wang, and Yanping Xie, CO₂-Switchable Hierarchically Porous Zirconium-Based MOF-Stabilized Pickering Emulsions for Recyclable Efficient Interfacial Catalysis, *Materials*, **2023**, 16, 1675-1686.
 8. **Xiaoyan Pei**, Zhiyong Li,* Huiyong Wang, Qiuju Zhou, Zuodong Liu, and Jianji Wang*, CO₂-Switchable Phase Separation of Nonaqueous Surfactant-Free Ionic Liquid-Based Microemulsions, *ACS Sustainable Chemistry & Engineering*, **2022**, 10, 1777-1785.
 9. **Xiaoyan Pei***, Chunyu Tian, Yanning Wang, Zhenzhen Li, Zhiyan Xiong, Huiyong Wang, Xiantao Ma, Xinhua Cao, and Zhiyong Li, CO₂-Driven Reversible Transfer of Amine-Functionalized ZIF-90 between Organic and Aqueous Phases, *Chemical Communication*, **2022**, 58, 10372-10375.
 10. **Xiaoyan Pei,*** Jiang Liu, Weihao Rao, Xiantao Ma, and Zhiyong Li,* CO₂-Switchable Reversible Phase Transfer of Carbon Dots, *Industrial & Engineering Chemistry Research*, **2021**, 60, 25, 9296-9303.
 11. **Xiaoyan Pei**, Dazhen Xiong, Huiyong Wang, Shuaiqi Gao, Xinying Zhang, Suojian Zhang, and Jianji Wang,* Reversible Phase Transfer of Carbon Dots between an Organic Phase and Aqueous Solution Triggered by CO₂, *Angewandte Chemie International Edition*, **2018**, 57, 14, 3687-3691.
 12. **Xiaoyan Pei**, Dazhen Xiong, Yuanchao Pei, Huiyong Wang, and Jianji Wang,* Switchable oil-water phase separation of ionic liquid-based microemulsions by CO₂, *Green Chemistry*, **2018**, 20, 18, 4236-4244.
 13. **Xiaoyan Pei**, Dazhen Xiong, Jing Fan, Zhiyong Li, Huiyong Wang, and Jianji Wang,* Highly efficient fluorescence switching of carbon nanodots by CO₂, *Carbon*, **2017**, 117, 147-153.
 14. Jie Yang, Huiyong Wang, Jianji Wang, Xiaojia Guo, and **Xiaoyan Pei**, Structural Transition of Cinnamate-Based Light-Responsive Ionic Liquids in Aqueous Solutions and Their Light-Tunable Rheological Properties, *Langmuir*, **2016**, 32, 66-72.

奖励及荣誉

入选南湖学者奖励计划 B 类人才，主持国家自然科学基金和河南省科技攻关项目各 1 项，指导本科生获批省级创新创业训练计划项目 1 项。近年来已在 *Angewandte Chemie International Edition*、*ACS Sustainable Chemistry & Engineering*、*Green Chemistry* 等国际知名分析化学期刊杂志上发表学术论文数十篇。

裴晓燕 副教授 博士 硕士生导师

个人主页

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