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职称/职务：讲师

专 业：分析化学

研究方向：反应界面构筑及电化学传感

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个人经历

教育经历：

2016.9-2020.6 学士 河南师范大学 化学化工学院 化学
2020.9-2025.6 博士 苏州大学 材料与化学化工学部 化学 导师：封心建教授

工作简历：

2025.7-至今 信阳师范大学 化学化工学院 讲师

研究领域与兴趣

1. 反应界面构筑
2. 电化学生物传感

主讲课程

主持科研项目

代表性研究成果

期刊论文：

1. **Yifan Zhou**,¹ Zhenyao Ding,¹ Qinghao Sun, Liping Chen*, Dandan Wang, Xiaoguang Bao, and Xinjian Feng*, Surface Defect and Wettability Engineering of Porous SnO_x for Reliable Bioassays with High Selectivity and Wide Linear Dynamic Range. *Journal of the American Chemical Society* **2024**, *146*, 16581-16589.
2. **Yifan Zhou**, Liping Chen*, Yimeng Sun, Zhenyao Ding, Weihai Ni, and Xinjian Feng*, Engineering Hollow Nanospheres with Hydrophobic@Hydrophilic Amphiphilic Properties for Enhanced Enzymatic Reactions and High-Performance Bioassays. *ACS Applied Materials & Interfaces* **2025**, *17*,

- 34733-34740. 3. Yimeng Sun,[§] **Yifan Zhou**,[§] Liping Chen*, Dandan Wang, Haiyan Liu, Weihai Ni, and Xinjian Feng*, Triphase Enzyme Electrode Based on ZIF-8 with Enhanced Oxidase Catalytic Kinetics and Bioassay Performance. *ACS Applied Materials & Interfaces* **2024**, *16*, 44341-44349.
4. Fei Li, **Yifan Zhou**, Dandan Wang, Zhenyao Ding, Liping Chen*, and Xinjian Feng*, Oxygen Vacancy Engineering of FeO_x toward Oxygen-Tolerant Hydrogen Peroxide Reduction for Reliable Bioassays. *Langmuir* **2024**, *40*, 3241-3247.
5. Yaolan Li, Zhenyao Ding, **Yifan Zhou**, Zhiping Liu, Lihui Huang, Liping Chen*, and Xinjian Feng*, High O₂ Tolerant Metal-based Catalysts for Selective H₂O₂ Reduction by Constructing an Ultra-thin Oxide Passivation Layer. *Materials Horizons* **2025**, *12*, 6938-6944.
6. Zhenyao Ding, Dandan Wang, Liping Chen, Huijun Yu, Hang Zhou, **Yifan Zhou**, Xinjian Feng*, and Lei Jiang, Oxygen Vacancy-Mediated Catalysts toward Selective H₂O₂ Reduction in Cellular Environment. *Advanced Functional Materials* **2022**, *33*, 2210674.
7. Zhiyong Li, Anqi Li, **Yifan Zhou**, Lujun Zhang, Yang Zhao*, Xiaopeng Xuan*, From Hydrophobicity to Hydrophilicity: Design, Synthesis, Structural Transformation and Distinguishment of Highly Symmetric 1,3-Bis(carboxymethyl)imidazolium Bis(trifluoromethyl)sulfonyl)amide Ionic Liquids. *Journal of Molecular Structure* **2021**, *1231*, 129688.

专利著作:

1. 封心建, **周一帆**, 陈礼平。基于多孔锡氧化物的富氧电化学生物传感器与应用, 国家发明专利, 专利申请号: CN202310830716.3

奖励及荣誉

近年来已在 *Journal of the American Chemical Society*, *ACS Applied Materials & Interfaces* 等国际知名期刊发表 SCI 学术论文 7 篇。

个人主页

<http://www.xynu.edu.cn/>