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职称/职务: 讲师

专业: 分析化学

研究方向: 电化学发光生物传感与生化分析

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个人经历

教育经历:

- 2013.9-2017.6 学士 信阳师范大学 化学化工学院 化学
- 2017.9-2020.6 硕士 信阳师范大学 化学化工学院 分析化学 导师: 刘彦明教授、曹俊涛教授
- 2020.9-2024.6 博士 福州大学 化学学院 分析化学 导师: 董永强教授、林振宇教授

工作简历:

2024.10-至今 信阳师范大学化学化工学院 讲师

研究领域与兴趣

1. 电化学发光生物传感与生化分析
2. 生物纳米材料与技术

主讲课程

本科生: 《仪器分析实验》

代表性研究成果

期刊论文:

1. **Xiao-Long Fu**, Fang Hou, Fu-Rao Liu, Shu-Wei Ren, Jun-Tao Cao*, Yan-Ming Liu*. Electrochemiluminescence energy resonance transfer in 2D/2D heterostructured g-C₃N₄/MnO₂ for glutathione detection. *Biosensors and Bioelectronics*, 2019, 129, 72-78.
2. Jun-Tao Cao*, **Xiao-Long Fu**, Li-Zhen Zhao, Shu-Hui Ma, Yan-Ming Liu*. Highly efficient resonance energy transfer in g-C₃N₄-Ag nanostructure: Proof-of-concept toward sensitive split-type electrochemiluminescence immunoassay. *Sensors and Actuators B: Chemical*, 2020, 311, 127926.
3. Jun-Tao Cao*, **Xiao-Long Fu**, Fu-Rao Liu, Shu-Wei Ren, Yan-Ming Liu*. Reduced graphene oxide-gold nanoparticles-catalase-based dual signal amplification strategy in a spatial-resolved

- ratiometric electrochemiluminescence immunoassay. *Analyst*, 2020, 145, 91-96.
4. **Xiao-Long Fu**, Ju Huang, Xia-Jun Zhu, Jie-Feng Rong, Zhen-Yu Lin, Yong-Qiang Dong*, Feng-Fu Fu. False luminescence of molybdenum disulfide quantum dots from carbon dots. *Chemical Communications*, 2022, 58, 7180-7183.
 5. **Xiao-Long Fu**, Zhi-Hong Liu, Ya-Jie Jiao, Li-Chan Chen*, Zhen-Yu Lin, Feng-Fu Fu, Yong-Qiang Dong*. Enhancing the fluorescence activity of graphitic carbon nitride nanosheets by eliminating the active defect states: Implications for fluorescent sensing and biological imaging. *ACS Applied Nano Materials*, 2022, 5, 13002-13008.
 6. **Xiao-Long Fu**, Ju Huang, Xiao-Jing Lai, Jie-Feng Rong, Guo-Min Qi, Zhen-Yu Lin, Feng-Fu Fu, Yong-Qiang Dong*. Strategy and mechanism for strong and stable electrochemiluminescence of graphitic carbon nitride. *Electrochimica Acta*, 2023, 444, 142025.
 7. **Xiao-Long Fu**, Hui-Ying Wu, Zhi-Hong Liu, Peng-Zhao Wang,* Jie-Feng Rong, Feng-Fu Fu, Zhen-Yu Lin, Yong-Qiang Dong*. MoS₂ nanosheets as substrates for SERS-based sensing. *ACS Applied Nano Materials*, 2024, 7, 3988-3996.
 8. **Xiao-Long Fu**, Bi-Hang Su, Jin-Hua Xu, Cheng Pan, Shu-Ping Huang, Feng-Fu Fu, Zhen-Yu Lin, Yong-Qiang Dong*. Rapid detection of maleic hydrazide based on the hydrogel SERS platform. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2025, 325, 125080.

专利著作:

1. 国家发明专利: 董永强, **付晓龙**, 陈天文. 一种表面清洁的高缺陷密度单层二硫化钼纳米片的制备方法, 202311450963.7.

奖励及荣誉

信阳师范大学 2024 年理工科 A 类博士人才引进。

个人主页

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