

基础医学院研究生导师个人信息（模板）

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	出 生 年	1985 年	系/教研室	生化教研室
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学科专业	分析化学	研究方向	纳米材料用于生物医学分析研究	
人才称号				
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学习工作经历	2021/09-2022/07, 湖南大学, 访问学者 2013/08-至今, 山西医科大学, 基础医学院, 讲师 2008/07-2013/06, 湖南大学, 分子科学与生物医学实验室, 硕博连读 2004/09 - 2008/06, 山西师范大学, 化学化工学院, 学士			
主持的科研/教学项目	<ol style="list-style-type: none"> 1. 青年科技研究基金, 面上青年基金项目, 201901D211317; 多功能磁性聚多巴胺纳米诊疗探针的构建及其对肝癌的靶向治疗应用研究, 2019/09-2022/09, 3 万, 主持 2. 国家自然科学基金青年项目, 201405100, 基于 DNA 纳米结构的功能核酸荧光纳米探针的构建及其初步细胞内生物成像应用研究 2014/01-2017/12, 25 万元, 主持 3. 国家重点实验室开放基金, 基于自组装 DNA 纳米材料的构建及其生物医学应用研究 (2014003), 3 万, 主持 4. 校博士启动基金, 基于功能核酸-DNA 纳米材料荧光生物传感器的研究 (03201306), 5 万, 主持 			
代表性成果 (论文/专利/专著等)	<p>(1) Xuhua Zhao, Yanan Zhou, Xuzhen Lv, Hanxiao Zhang, Xiaohua Cui, Tao Gong, Hongmin Meng, Litian Yin, Gaopeng Li, Baofeng Yu. G-quadruplex molecular beacon: A versatile CRISPR/Cas12a reporter for rapid and label-free biosensing. <i>Sensors & Actuators: B. Chemical</i>, 380 (2023) 133310</p> <p>(2) Xuhua Zhao, Suya Zhao, Zhi-Ling Song, Xuanhao Zhang, Shi Zhang, Wenjuan Song, Zhuo Chen. Alkyne functionalized graphene-isolated-Au-nanocrystal for the ratiometric SERS sensing of</p>			

alkaline phosphatase with acetonitrile solvent as an internal standard. *Sensors & Actuators: B. Chemical*, 2021, 331, 129373.

(3) **XuHua Zhao**, XiaoChun Dai, YaNan Zhou, HanXiao Zhang, XiaoHua Cui, Xiang Zhai, BaoFeng Yu and ZhiLing Song. A sensitive fluorescence biosensor based on metal ion-mediated DNAzyme activity for amplified detection of acetylcholinesterase. *Analyst*, 2022, 147, 2575.

(4) Xuhua Zhao, Xiaochun Dai, Suya Zhao, Xiaohua Cui, Tao Gong, Zhiling Song, Hongmin Meng, Xiaobing Zhang, Baofeng Yu. Aptamer-based fluorescent sensors for the detection of cancer biomarkers. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2021, 247, 119038.

(5) **Xu-Hua Zhao***, Li-Zhuan Zhang, Su-Ya Zhao, Xiao-Hua Cui, Liang Gong, Rong Zhao, Bao-Feng Yu, Jun Xie*, Silver-Ion-Mediated Mg²⁺-dependent DNAzyme activity for amplified fluorescence detection of cysteine, *Analyst*, 2019,144, 1982-1987.

(6) **Xuhua Zhao**, Liang Gong, Yuan Wu, Xiaobing Zhang, Jun Xie*. Cationic-perylene-G-quadruplex complex based fluorescent biosensor for label-free detection of Pb²⁺. *Talanta*, 2016,149(1):98-102

(7) **Zhao Xuhua**, Hongmin Meng, Liang Gong, Liping Qiu, Xiaobing Zhang*, Weihong Tan. Recent progress of DNAzyme-Nanomaterial based Biosensors. *Chinese Journal of Analytical Chemistry*, 2015, 43(11), 1611-1619

(8) Gong Liang, Kuai Hailan, Ren Songlei, **Zhao Xu-Hua***, Huan Shuang-Yan, Zhang Xiao-Bing*, Tan Weihong, Ag nanocluster-based label-free catalytic and molecular beacons for amplified biosensing., *Chem Commun* ,2015, 51(60):12095-12098.

(9) **Xuhua Zhao**, Liang Gong, Xiaobing Zhang*, Bin Yang, Ting Fu, Rong Hu, Weihong Tan, and Ruqin Yu. Versatile DNAzyme-based amplified biosensing platforms for nucleic acid, protein and enzyme activity detection. *Analytical Chemistry*, 2013, 85 (7), 3614-3620.

(10) **Xuhua Zhao**, Qiujuan Ma*, Xiangxiang Wu, Xin Zhu. Graphene oxide-based biosensor for sensitive fluorescence detection of DNA based on exonuclease III-aided signal amplification. *Analytica Chimica Acta*, 2012, 727(21), 67-70.

	<p>(11) Xuhua Zhao, Rongmei Kong, Xiaobing Zhang*, Hongmin Meng , Weina Liu , Weihong Tan, Guoli Shen, and Ruqin Yu. Graphene–DNAzyme based biosensor for amplified fluorescence “Turn-On” detection of Pb²⁺ with a high selectivity. Analytical Chemistry, 2011, 83(13), 5062-5066.</p> <p>(12) Xuhua Zhao, Qiujuan Ma, Xiaobing Zhang*, Bo Huang, Qin Jiang, Jing Zhang, Guoli Shen, and Ruqin Yu. A highly selective fluorescent sensor for Cu²⁺ based on covalently immobilized derivative of naphthalimide. Analytical Sciences, 2010, 26(5), 585-590.</p>
获奖及个人荣誉	2014 年获湖南大学校优秀博士学位论文奖
研究生培养	已招收硕士 5 名

注：所填信息将上传到基础医学院网上，方便学生查阅及同行之间相互学习（可续页）。