



师资力量

概况

教师名录

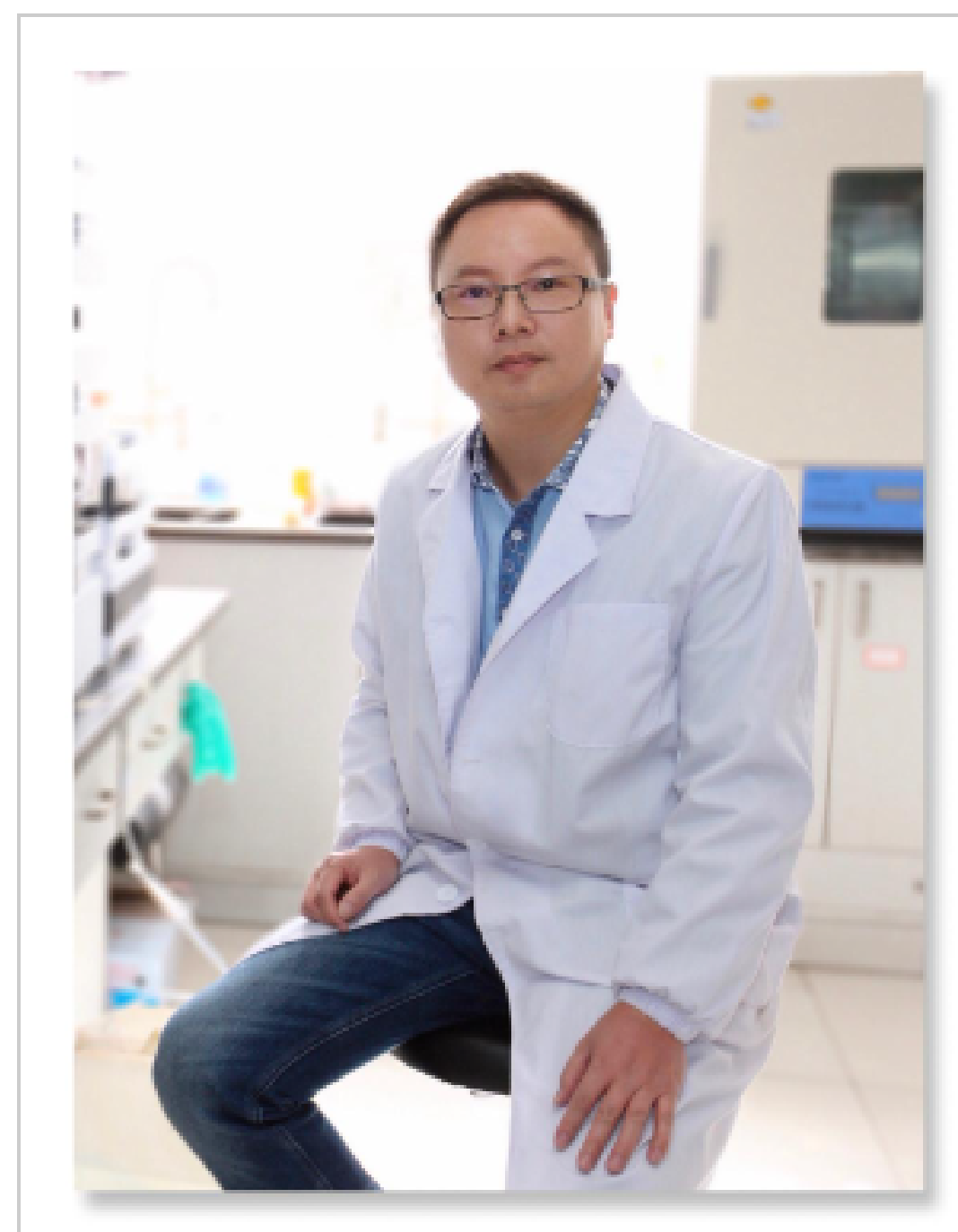
招贤纳士

副教授

当前位置: 首页 > 师资力量 > 教师名录 > 化学系 > 副教授 > 正文

肖志东

发布时间: 2015-05-12 作者: 浏览次数: 7864



肖志东, 中共党员, 湖南衡阳人。理学博士, 副教授, 硕士研究生导师, 中国化学学会会员。Nanotechnology, Advanced Functional Materials, Small, Materials Letter等学术期刊的稿件审稿人 (Manuscript Reviewer)。

研究领域: 我的实验室主要开展纳米生物分析材料与器件设计应用研究。包括: 1.复杂纳米结构材料的化学可控合成和材料体系的物化性能研究。重点针对多孔性功能材料的可控制备以及该类材料体系在生物医药 (微纳米载药胶囊、疫苗佐剂、纳米抗菌剂) 领域的应用基础研究。2.研究方向包括: 发展复杂纳米结构的可控合成技术, 探讨功能性纳米材料结构形貌演化规律, 揭示相关纳米材料的生长机制, 研究相关产物的物性及潜在应用 (新型纳米佐剂、纳米载药胶囊、高效纳米抗菌剂开发应用)。We synthesize nanomaterials and study their fundamental chemistry, photochemistry, electrochemistry, optical, and biomaterials properties. Our emphasis is on the development of biocompatible materials from natural and synthetic polymers, porous nanostructures. Research topics include drug delivery materials, next generation adjuvant for vaccine delivery, in vivo imaging with luminescent or magnetic nanoparticles, batteries, and chemical or biochemical sensors.

硕士培养: 肖志东博士研究组与美国弗吉尼亚大学、清华大学、中科院化学研究所、中国科学技术大学、中科院宁波材料技术与工程研究所、中科院苏州纳米技术与纳米仿生研究所、中科院合肥物质科学研究院、苏州大学等著名研究院所的相关研究团队有紧密的学术合作, 指导的学生有机会去上述研究机构开展研修交流。欢迎具有物理、化学、生物及材料等学科背景, 崇尚学术研究生活方式, 有学术追求激情的本科生报考我实验室的研究生。

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研究项目: 先后主持教育部博士点基金、湖北省自然科学基金、中央高校基本科研业务费专项资金项目等。参与农业部公益性行业 (农业) 专项等课题。

教学情况: 为本科生和研究生讲授“无机及分析化学、基础化学实验、材料化学、功能材料、仪器分析、化学研究进展”等课程。

获奖情况: 先后获得原冶金工业部科技进步二等奖; 教学优秀奖; 校级青年教师讲课比赛三等奖; 本科生毕业论文设计优秀指导教师奖; 校级优秀班主任; 教学质量奖; 湖北省优秀学士论文指导奖; 华中农业大学研究生导师教书育人奖; 华中农业大学硕士研究生优秀论文指导奖等。

学术成果: 在国际知名学术刊物发表SCI论文20余篇, 指导硕士研究生发表正封面论文 (Cover image paper)。参编专著1部, 获国家发明专利授权1项。

志东博士SCI学术论文清单

1. Yuan, C; Deng, Y.; Li, X.; Li, C.; **Xiao, Z.***; Liu, Z., Synthesis of Monodisperse Plasmonic Magnetic Microbeads and Their Application in Ultrasensitive Detection of Biomolecules. *Analytical Chemistry* **2018**, 90, 8178-8187. (IF: **6.042**)
2. Song, L.; Zhang, L.; Huang, Y.; Chen, L.; Zhang, G.; Shen, Z.; Zhang, J.; **Xiao, Z.***; Chen, T., Amplifying the signal of localized surface plasmon resonance sensing for the sensitive detection of Escherichia coli O157:H7. *Scientific Reports* **2017**, 7, DOI: 10.1038/s41598-017-03495-1. (IF: **4.122**)
3. Chen, L.; Song, L.; Zhang, Y.; Wang, P.; **Xiao, Z.***; Guo, Y.; Cao, F., Nitrogen and Sulfur Codoped Reduced Graphene Oxide as a General Platform for Rapid and Sensitive Fluorescent Detection of Biological Species. *ACS Applied Materials & Interfaces* **2016**, 8 (18), 11255-11261. (IF: **8.097**)
4. Hu, Y.; Huang, S.; Zheng, X.; Cao, F.; Yu, T.; Zhang, G.; **Xiao, Z.**; Liang, J.; Zhang, Y., Synthesis of core-shell structured Ag₃PO₄@benzoxazine soft gel nanocomposites and their photocatalytic performance. *RSC Advances* **2016**, 6 (67), 62244-62251. (IF: **2.936**)
5. Huang, S.; Song, L.; **Xiao, Z.***; Hu, Y.; Peng, M.; Li, J.; Zheng, X.; Wu, B.; Yuan, C., Graphene quantum dot-decorated mesoporous silica nanoparticles for high aspirin loading capacity and its pH-triggered release. *Analytical Methods* **2016**, 8 (12), 2561-2567. (Front Cover Image Paper) (IF: **12.073**)
6. Zhang, G.; Lu, W.; Cao, F.; **Xiao, Z.**; Zheng, X., N-doped graphene coupled with Co nanoparticles as an efficient electrocatalyst for oxygen reduction in alkaline media. *Journal of Power Sources* **2016**, 302, 114-125. (IF: **6.945**)
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10. Huang, X.; Guan, J.; **Xiao, Z.**; Tong, G.; Mou, F.; Fan, X. a., Flower-like porous hematite nanoarchitectures achieved by complexation-mediated oxidation-hydrolysis reaction. *Journal of Colloid and Interface Science* **2011**, 357 (1), 36-45. (IF: **5.091**)
11. Mou, F.; Guan, J.; **Xiao, Z.**; Sun, Z.; Shi, W.; Fan, X.-a., Solvent-mediated synthesis of magnetic Fe₂O₃ chestnut-like amorphous-core/gamma-phase-shell hierarchical nanostructures with strong As(V) removal capability. *Journal of Materials Chemistry* **2011**, 21 (14), 5414-5421. (IF: **9.931**)
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21. Fang, X.; Ye, C.; Zhang, L.; Li, Y.; **Xiao, Z.**, Formation and optical properties of thin and wide tin-doped ZnO nanobelts. *Chemistry Letters* **2005**, 34 (3), 436-437. (IF: **1.625**)
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23. **Xiao, Z.***; Zhang, L.; Tian, X.; Fang, X., Fabrication and structural characterization of porous tungsten oxide nanowires. *Nanotechnology* **2005**, 16 (11), 2647-2650. (Highlighted by Small, 2005, 1, 1145) (IF: **3.404**)

