

淮北师范大学研究生导师简介表

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导师类别：学硕、专硕		技术职称：副教授	
联系方式	13053083636		
招生专业名称	材料科学与工程、电子信息		
主要研究方向	智能响应的低维固体材料可控制备及应用研究		
	功能型复合材料的设计与开发		
个人简历	<p>杨波，博士，淮北师范大学副教授，硕士生导师，技术转移经理人。研究方向集中在智能响应的低维固体材料的表界面研究与应用。主持中国博士后科学基金特别资助项目、中国科大先进技术研究院重点培育项目、安徽省高校自然科学研究重点项目，以第一/通讯作者身份发表 SCI 论文 12 篇，相关工作被 <i>Advances in Engineering (AIE)</i> 遴选为关键科学文章、封面论文等。已申请发明专利二十余项，已获授权 13 项，包括 1 项美国专利和 1 项日本专利。作为技术骨干和专利主要发明人所研发的十项专利成果已与企业对接转化，另有 3 项专利技术与企业签订技术开发合同，一项成果被列为“合肥综合性国家科学中心 2018 年度突破性成果”，应邀参加“安徽省庆祝改革开放 40 周年科技创新成果展”和“安徽省创新馆科技创新成果展”。</p>		
主要学术成就	承担科研项目		
	<p>[1] “无机功能纳米材料的绿色化、宏量化制备与应用”，中国博士后科学基金特别资助（站前），18 万元，2019.07 ~ 2021.06；主持，结题。</p> <p>[2] “纳米钨钨青铜材料产业化应用”，中国科学技术大学先进技术研究院应用型科技成果培育项目，40 万元，2019.12 ~ 2021.12；主持，结题。</p> <p>[3] “碳/氮化钛杂化材料的制备及太阳能界面水蒸发的研究”安徽省高校自然科学研究重点项目，10 万元，2023.01~2024.12；主持，在研。</p>		
	著作/论文		
<p>[1] Bo Yang*, Ying Feng, Wenjing Wang, Min Zhang, Xiangkai Kong, Qiangchun Liu, Haifeng Xu, Jixin Yao, Guang Li, Sheng-Qi Guo*, Interface engineering of amorphous boron for high-efficiency interfacial solar steam generation. <i>New Journal of Chemistry</i>, 2023, 47, 1059-1065. (Cover paper)</p> <p>[2] Bo Yang*, Xinyi He, Haifeng Xu*, Jixin Yao, Guang Li, Ultrasensitive visualization detection of sodium borohydride based on surface treated transparent molybdenum oxide quantum dots. <i>Materials Letters</i>, 2023, 331: 133431.</p>			

- [3] **Bo Yang***, Le Luo, Shanshan Zhu, Fengxian Jin, Sheng-Qi Guo, Interfacial modulation of TiN nanoribbons/graphene oxide for high performance photoactuators. *Smart Materials and Structures*, **2022**, 31, 105023.(**Key Scientific Article, Advances in Engineering**)
- [4] **Bo Yang**, Wentuan Bi*, Fengxian Jin, Xiaojia Ma, Sheng-Qi Guo*, Surface molecular engineering of CsPbBr₃ perovskite nanosheets for high-performance photodetector. *Composites Communications*, **2022**, 29, 101032.
- [5] Sheng-Qi Guo, **Bo Yang***(**通讯作者**), Zhenzhong Hu, Mengmeng Zhen, Bingchuan Gu, Boxiong Shen*, Uncovering mechanism of photocatalytic performance enhancement induced by multivariate defects on SnS₂, *Nano Research*, **2022**, 1-9.
- [6] Qiang Ma⁺, **Bo Yang**⁺ (**共同一作**), Huihui Li, JianJun Guo, ShenQiang Zhao, GuoHua Wu*, Preparation and properties of photochromic regenerated silk fibroin/Tungsten trioxide nanoparticles hybrid fibers, *Composites Communications*, **2021**, 27,100810.
- [7] **Bo Yang**, Wentuan Bi, Cheng'an Zhong, Mingcan Huang, Yong Ni, Linghui He, Changzheng Wu*, Moisture-triggered actuator and detector with high-performance: interface engineering of graphene oxide/ethyl cellulose. *Science China Materials*, **2018**, 61, 1291-1296.
- [8] **Bo Yang**⁺, Wentuan Bi⁺, Yangyang Wan⁺, Xiaogang Li, Mingcan Huang, Ruilin Yuan, Huanxin Ju, Wangsheng Chu, Xiaojun Wu, Linghui He, Changzheng Wu*, Yi Xie, Surface Etching Induced Ultrathin Sandwich Structure Realizing Enhanced Photocatalytic Activity, *Science China Chemistry*, **2018**, 61:12, 1572-1580.
- [9] **Bo Yang**, Xueqin Zuo, Peng Chen, Lei Zhou, Xiao Yang, Haijun Zhang, Guang Li*, Mingzai Wu, Yongqing Ma, Shaowei Jin, Xiaoshuang Chen, Nanocomposite of tin sulfide nanoparticles with reduced graphene oxide in high-efficiency dye-sensitized solar cells. *ACS applied materials & interfaces*, **2015**, 7: 137-143.
- [10] **Bo Yang**, Peng Chen, Xueqin Zuo, Lei Zhou, Guang Li*, Mingzai Wu, Yongqing Ma, Shaowei Jin, Kerong Zhu, Structural Phase Transition from Tin (IV) Sulfide to Tin (II) Sulfide and the enhanced Performance by Introducing Graphene in Dye-sensitized Solar Cells. *Electrochimica Acta*, **2015**, 176: 797-803.
- [11] **Bo Yang**, Peng Chen, Xueqin Zuo, Lei Zhou, Xiao Yang, Guang Li*, Mingzai Wu, Yongqing Ma, Shaowei Jin, Kerong Zhu, Graphene assistance enhanced dye-sensitized solar cell performance of tin sulfide microspheres. *Applied Surface Science*, **2015**, 353: 300-306.
- [12] **Bo Yang**, Xueqin Zuo, Xiao Yang, Lei Zhou, Guang Li*, Effects of pH values on crystal growth and photoluminescence properties of ZnO hexagonal rods with cones. *Materials Letters*, **2014**, 130: 123-126.
- [13] **Bo Yang**, Xueqin Zuo, Hongjing Xiao, Lei Zhou, Xiao Yang, Guang Li*, Mingzai Wu, Yongqing Ma, Shaowei Jin, Xiaoshuang Chen, SnS₂ as low-cost counter-electrode materials for dye-sensitized solar cells. *Materials Letters*, **2014**, 133: 197-199.
- [14] **杨波**, 左学勤, 周雷, 杨晓, & 李广*. SnS₂作为一种新型低成本对电极材料在染料敏化太阳能电池中的应用[C]. **第一届新型太阳能电池暨钙钛矿太阳能电池学术研讨会论文集**, **2014**.

	<p>授权专利</p> <p>[1] 杨波, 吴长征, 谢毅; 一种退火装置。ZL 2019 2 877544.0.</p> <p>[2] 杨波, 吴长征, 谢毅; 取液装置。ZL 202020731169.5.</p> <p>[3] 杨波, 罗乐, 陈鹏鹏, 吴长征, 谢毅; 净化因子催化剂评价装置。ZL 202021509556.0.</p> <p>[4] 杨波, 罗乐, 吴长征, 谢毅; 一种除尘装置。ZL 202022361339.8.</p> <p>[5] 杨波, 吴长征, 谢毅; 一种量子点材料及其制备方法与应用。ZL 201910903147.4.</p> <p>[6] Changzheng Wu, Bo Yang, Yi Xie, Photochromic lens capable of blocking ultraviolet rays, and preparation method and application thereof (Japanese Patent, Patent Number: 6764940)</p> <p>[7] Changzheng Wu, Bo Yang, Yi Xie, Photochromic lens capable of blocking ultraviolet rays, and preparation method and application thereof (US Patent, Publication Number: 11008220)</p> <p>[8] 吴长征, 杨波, 谢毅; 氧化钛量子点材料及其宏量制备方法和应用。ZL 2018 1 1350110.5.</p> <p>[9] 吴长征, 杨波, 谢毅; 光致动复合薄膜的制备方法、光致动复合薄膜及光致动器。ZL 2017 1 0422042.8.</p> <p>[10] 吴长征, 杨波, 谢毅; 紫外线感应的致变色指示标志的制备方法和应用。ZL 2017 1 0902736.1.</p> <p>[11] 吴长征, 杨波, 谢毅; 可阻断紫外线的光致变色镜片的制备方法和应用。ZL 2017 1 0902738.0.</p> <p>[12] 吴长征, 杨波, 谢毅; 可阻断紫外线的光致变色车窗的制备方法和应用。ZL 2017 1 0902704.1.</p> <p>[13] 吴长征, 杨波, 谢毅; 可阻断紫外线的光致变色建筑物窗的制备方法和应用。ZL 2017 1 0902702.2.</p> <p>[14] 吴长征, 杨波, 谢毅; 可阻断紫外线的光致变色纳米材料及其制备方法和用途。ZL 201710733741.4.</p>
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