

淮北师范大学研究生导师简介表

姓名：李兵	性别：男	出生年月：1981.01	
导师类别：学术型		技术职称：副教授	
联系方式	binglir@mail.ustc.edu.cn		
招生专业名称	材料物理与化学		
主要研究方向	新能源材料		
	功能薄膜		
个人简历	<p>2017.12 -- 至今，淮北师范大学 物理与电子信息学院，副教授</p> <p>2019.08 -- 2020.08, 美国田纳西大学 物理系，访问学者</p> <p>2011.06 -- 2017.12, 淮北师范大学 物理与电子信息学院，讲师、副教授（内聘）</p> <p>2005.09 -- 2011.06, 中国科学技术大学 物理系，硕博</p> <p>2003.09 -- 2005.07, 鲁东大学 物理与光电工程学院，本科</p>		
主要学术成就	<p style="text-align: center;">主要从事纳米材料的合成及光电催化性能研究、磁电功能薄膜的制备及相关物性研究. 可招收材料、物理等专业硕士研究生.</p> <p>一、科研项目</p> <p>1. 安徽省高等学校优秀人才国外访学研修项目，批准号：gxgwfx2018083; 起止年月 2018.01 - 2020.12. (主持)</p> <p>2. 国家自然科学基金青年项目，垂直排列纳米复合 $\text{La}_{0.7}\text{Ba}_{0.3}\text{MnO}_3:\text{ZnO}$ 外延薄膜的制备及其物性研究；批准号:11504120; 起止年月 2016.01 - 2018.12. (主持)</p> <p>3. 安徽省自然科学基金青年项目，垂直排列纳米复合锰基氧化物薄</p>		

膜的制备和物性研究; 批准号:1608085QE90; 起止年月 2016.07 - 2018.06. (主持)

4.安徽省高校自然科学研究项目, 钙钛矿结构宽带宽锰氧化物薄膜应变效应研究; 批准号:KJ2013B244; 起止年月 2013.01 - 2014.12. (主持)

5.国家自然科学基金青年项目,具有空腔异质结构的 $\text{Cu}_2\text{O}@\text{void}@\text{TiO}_2$ 纳米复合材料的可控合成及其光催化性能研究; 批准号: 51302102 ; 起止年月:2014.01 - 2016.12. (参与)

6.国家自然科学基金面上项目, 宽带宽锰氧化物薄膜中应变导致的相分离和正磁电阻; 批准号:11174261; 起止年月2012.01 - 2015.12. (参与)

7.安徽省自然科学基金青年项目, 过渡金属离子掺杂锡酸盐薄膜的制备与物性研究; 批准号:1408085QA19; 起止年月 2014.01 - 2015.12. (参与)

二、代表论文

1. Shencheng Pan, Bing Li*, Juan Yu, Lulu Zhao, Yongxing Zhang. Composition controllable fabrication of ultrathin 2D CoMn layered double hydroxides for highly efficient electrocatalytic oxygen evolution, Applied Surface Science, 2021,535:148305.

2. Shencheng Pan, Xin Mao, Juan Yu, Lin Hao, Aijun Du, Bing Li*. Remarkably improved oxygen evolution reaction activity of cobalt

oxides by an Fe ion solution immersion process, *Inorganic Chemistry Frontiers*, 2020, 7(18):3327.

3. Shencheng Pan, JuanYu, Yongxing Zhang, BingLi*. Facile and novel strategy to fabricate 2D alpha-Co(OH)₂ nanosheets for efficient oxygen evolution reaction application, *Materials Letters*, 2020, 278:128414.

4. Shencheng Pan, JuanYu, Yongxing Zhang, Bing Li*. Pulsed laser deposited Cr-doped CoFe₂O₄ thin film as highly efficient oxygen evolution reaction electrode, *Materials Letters*, 2020, 202:127027.

5. Juan Yu, Shencheng Pan, Yongxing Zhang, Qinzhuang Liu, Bing Li*, Facile Synthesis of Monodispersed α -Ni(OH)₂ Microspheres Assembled by Ultrathin Nanosheets and Its Performance for Oxygen Evolution Reduction, *Frontiers in Materials*, 2019, 4:00124.

6. Bing Li, Yongxing Zhang, Zhongliang Liu, Lei Geng, Structural, electrical, and optical properties of Ba_{1-x}Sm_xSnO₃ epitaxial thin films on MgO substrates by pulsed laser deposition, *Journal of Alloys and Compounds*, 2017, 708:1117-1123.

7. Bing Li, Qinzhuang Liu, Yongxing Zhang, Zhongliang Liu, Lei Geng, Highly conductive Nb doped BaSnO₃ thin films on MgO substrates by pulsed laser deposition, *Journal of Alloys and Compounds*, 2016, 680:343-349.

8. Bing Li, Yongxing Zhang, Xiangbo Zhou, Zhongliang Liu, Qinzhuang Liu, Xuanhua Li, Different dye removal mechanisms between monodispersed and uniform hexagonal thin plate-like MgAlCO₃²⁻-LDH and its calcined product in efficient removal of Congo red from water, *Journal of Alloys and Compounds*, 2016, 673:265-271.

9. Qinzhuang Liu, Hong Li, Bing Li*, Wei Wang, Yongxing Zhang, Jianming Dai, Structure and band gap engineering of Fe-doped SrSnO₃ epitaxial films, EPL, 2014, 108(3): 37003.

10. Bing Li, Hong Zhu, Qinzhuang Liu, Zhongliang Liu, Yongxing Zhang, Low temperature electrical transport behavior of La_{0.7}Ba_{0.3}MnO₃ thin films on LaAlO₃ substrates, Journal of Magnetism and Magnetic materials, 2014, 366: 50-54.

11. Bing Li, Faliang Tian, Lei Yang, Xiaoping Wang, Hong Zhu, Tamio Endo, Strain effects and phase separation tendency in highly strained La_{0.7}Ba_{0.3}MnO₃ thin films on LaAlO₃ substrates, Thin Solid Films, 2011, 519: 2381-2384.

12. Bing Li, Lei Yang, Jinzeng Tian, Xiaoping Wang, Hong Zhu, Influence of compressive strain on oxygen distribution in La_{0.7}Ba_{0.3}MnO₃ thin films, Journal Applied Physics, 2011, 109:073922.

三、专利

1.李兵，俞娟，张永兴，潘申成. 一种氧化镧的制备方法，中国发明专利，授权公告日：2020.5.5，专利号：ZL 2018 1 0526942.1.

2.李兵，刘亲壮，张永兴，俞娟. 一种电极制作方法，中国发明专利，授权公告日：2020.1.21，专利号：ZL 2017 1 1377311.X.

3.李兵，张永兴，刘亲壮，王峰. 一种厚度可控的液相外延薄膜制备装置，实用新型专利，授权公告日：2018.3.23，专利号：ZL 2017 2 0965539.X.

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