

张帆/副教授

院系	物理系	性别	女
出生年月	1986	学位	工学博士
学历	博士研究生	毕业院系	中国科学院大学
职称	副教授	研究方向	环境功能纳米材料
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个人简介

2008年7月毕业于武汉理工大学，获得工学学士学位，以年级第一的成绩保送中国科学院大学硕博连读，于2013年6月获得材料物理与化学工学博士学位，2013年7月进入南京农业大学物理系任教，2014年12月为南京农业大学破格副教授。2015年入选第三批钟山学术新秀，2020年入选江苏省青蓝工程优秀青年教师，江苏省科技副总。研究方向为光电纳米材料及环境功能纳米材料的设计、表征、性能及机理研究。以第一作者或通讯作者身份发表SCI论文22篇，其中影响因子5.0以上5篇，申请专利3项，主持国家自然科学基金、江苏省自然科学基金、中央高校科研业务费等项目。欢迎硕士研究生、本科毕设及SRT项目的学生加入课题组。

教学信息

主讲《物理学》《物理学实验》两门课程

科研项目

1. 2015.01-2017.12, 国家自然科学基金 (51402153), 项目负责人
2. 2017.07-2020.06, 江苏省自然科学基金 (SBK2017020336), 项目负责人
3. 2019.08-2020.08, 横向课题(YH-TD-20190926) 52万, 项目负责人
4. 2017.01-2019.12, 中央高校基本科研业务费(KYZ201747), 项目负责人
5. 2015.01-2017.12, 中央高校基本科研业务费(KJQN201553), 项目负责人

所获奖项

- 2020.06 江苏省科技副总
- 2020.04 江苏省青蓝工程优秀青年教师
- 2015.10-2019.10 南京农业大学钟山学术新秀
- 2018.12 南京农业大学优秀留学回国人员一等奖
- 2018.06 江苏省优秀本科毕业设计三等奖指导教师
- 2017.06 南京农业大学优秀本科毕业设计特等奖指导教师
- 2017.05 理学院青年教师授课比赛第一名
- 2014.12 南京农业大学破格副教授

发表文章

(22). **Fan Zhang**^{#*}, Xiaoxiu Tang[#], Yuxiong Huang, Arturo A. Keller, Jing Lan, Competitive removal of Pb²⁺ and malachite green from water by magnetic phosphate nanocomposites, *Water Research*, 2019, 150, 442-451.(IF 9.130)

(21). **Fan Zhang**^{*}, Meng Hao Lee, Yuxiong Huang, Arturo A. Keller, Sanghamitra Majumdar, Pabel Cervantes-Avilés, Xiaoxiu Tang, Siqiao Yin, Effective water disinfection using magnetic barium phosphate

nanoflakes loaded with Ag nanoparticles, *Journal of Cleaner Production*, 218, 2019, 173-182. (IF 7.246)

(20). **Fan Zhang***, Xiaoxiu Tang, Jing Lan, Yuxiong Huang, Successive removal of Pb^{2+} and Congo red by magnetic phosphate nanocomposites from aqueous solution, *Science of the Total Environment*, 2019, 658, 1139-1149. (IF 6.551)

(19). **Fan Zhang***, Zhaozhao Wu, Yuxiong Huang, Arturo A. Keller, Successive removal of E. coli and a mixture of Pb^{2+} and malachite green from water via magnetic iron oxide/phosphate nanocomposites. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 2019, 578, 123598. (IF 3.990)

(18). Junyi Song[#], **Fan Zhang^{#*}**, Yuxiong Huang, Arturo A. Keller, Xiaoxiu Tang, Wanning Zhang, Weibin Jia, Jerome Santos, Highly efficient bacterial removal and disinfection by magnetic barium phosphate nanoflakes with embedded iron oxide nanoparticles, *Environmental Science: Nano*, 2018, 5, 1341-1349. (IF 7.704, 封面文章)

(17). **Fan Zhang***, Xin Chen, Wanning Zhang, Yuefei Ji, Dual-functionalized strontium phosphate hybrid nanopowder for effective removal of Pb^{2+} and malachite green from aqueous solution, *Powder Technology*, 2017, 318, 128-134. (IF 3.23)

(16). **Fan Zhang***, Zhong Wei, Wanning Zhang, Haiyan Cui, Effective adsorption of malachite green using magnetic barium phosphate composite from aqueous solution, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2017, 182, 116-122. (IF 2.88)

(15). **Fan Zhang***, Xiaoju Yin, Weihua Zhang, Development of magnetic $Sr_5(PO_4)_3(OH)/Fe_3O_4$ nanorod for adsorption of Congo red from solution, *Journal of Alloys and Compounds*, 2016, 657, 809-817. (IF 3.133)

(14). **Fan Zhang***, Xiaoju Yin, Weihua Zhang, Yuefei Ji, Optimizing decolorization of methyl blue solution by two magnetic hydroxyapatite nanorods, *Journal of the Taiwan Institute of Chemical Engineers*, 2016, 65, 269-275. (IF 4.217)

(13). **Fan Zhang***, Xin Chen, Fenghuang Wu, Yuefei Ji, High adsorption capability and selectivity of ZnO nanoparticles for dye removal, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2016, 509, 474-483. (IF 2.714)

(12). **Fan Zhang***, Baoliang Ma, Xiping Jiang, Yuefei Ji, Dual function magnetic hydroxyapatite nanopowder for removal of malachite green and Congo red from aqueous solution, *Powder Technology*, 2016, 302, 207-214. (IF 2.942)

(11). **Fan Zhang**, Xiaoju Yin, Jing Lan, Weihua Zhang*, Application of $Ba_3(PO_4)_2/Fe_3O_4$ as a novel magnetic adsorbent to remove methyl blue from aqueous solution, *Journal of Materials Science*, 2016, 51, 3525-3535. (IF 2.599)

- (10). **Fan Zhang***, Weijie Song, Jing Lan, Effective removal of methyl blue by fine-structured strontium and barium phosphate nanorods, *Applied Surface Science*, 2015, 326, 195-203. (IF 3.15)
- (9). Xiaojun Yin, **Fan Zhang***, Weihua Zhang, Fabrication of hybrid magnetic $\text{Sr}_{5x}\text{Ba}_{3x}(\text{PO}_4)_3(\text{OH})/\text{Fe}_3\text{O}_4$ nanorod and its highly efficient adsorption performance for acid fuchsin dye, *Applied Surface Science*, 2015, 359, 714-722. (IF 3.15)
- (8). **Fan Zhang***, Yuanji Shi, Zongshan Zhao, Weijie Song, and Yang Cheng, Influence of semiconductor/insulator/semiconductor structure on the photo-catalytic activity of $\text{Fe}_3\text{O}_4/\text{SiO}_2/\text{polythiophene}$ core/shell submicron composite, *Applied Catalysis B: Environmental*, 2014, 150-151, 472-478. (IF 7.435)
- (7). **Fan Zhang***, Yuanji Shi, Zongshan Zhao, Weijie Song, and Yang Cheng, The photo-catalytic activities of MP (M = Ba, Ca, Cu, Sr, Ag; P = PO_4^{3-} , HPO_4^{2-}) microparticles, *Applied Surface Science*, 2014, 292, 570-575. (IF 2.711)
- (6). **Fan Zhang***, Weijie Song, Zongshan Zhao, Yang Cheng, Photo-catalytic properties of doped or substituted polyaniline-coated Fe_3O_4 nanoparticles, *Journal of Nanoparticle Research*, 2014, 16: 2666. (IF 2.184)
- (5). **Fan Zhang***, Yuanji Shi, Zongshan Zhao, Baoliang Ma, Liangshu Wei and Liping Lu, Amino-functionalized $\text{Fe}_3\text{O}_4/\text{SiO}_2$ magnetic submicron composites and the In^{3+} ion adsorption properties, *Journal of Materials Science*, 2014, 49, 3478-3483. (IF 2.371)
- (4). **Fan Zhang**, Jing Lan, Ye Yang, Tiefeng Wei, Ruiqin Tan, and Weijie Song*, Adsorption behavior and mechanism of methyl blue on zinc oxide nanoparticles, *Journal of Nanoparticle Research*, 2013, 15(11). (IF 2.278)
- (3). **Fan Zhang**, Zongshan Zhao, Ruiqin Tan, Yanqun Guo, Lujie Cao, Liang Chen, Jia Li, Wei Xu, Ye Yang, and Weijie Song*, Selective and effective adsorption of methyl blue by barium phosphate nano-flake, *Journal of Colloid and Interface Science*, 2012, 386(1), 277-284. (IF 3.172)
- (2). **Fan Zhang**, Jing Lan, Zongshan Zhao, Ye Yang, Ruiqin Tan, and Weijie Song*, Removal of heavy metal ions from aqueous solution using $\text{Fe}_3\text{O}_4\text{-SiO}_2\text{-poly}(1,2\text{-diaminobenzene})$ core-shell sub-micron particles, *Journal of Colloid and Interface Science*, 2012, 387(1), 205-212. (IF 3.172)
- (1). **Fan Zhang**, Zongshan Zhao, Ruiqin Tan, Wei Xu, Guibin Jiang, and Weijie Song*, Efficient and selective immobilization of Pb^{2+} in highly acidic wastewater using strontium hydroxyapatite nanorods, *Chemical Engineering Journal*, 2012, 203, 110-114. (IF 3.473)

专利

张帆, 范凤茹, 唐小秀, 一种多功能磁性净水剂及其制备方法和应用, 2018, 专利号 201810721469.2

张帆, 张皖宁, 陈鑫, 磁性纳米材料在溶液中吸附大肠杆菌的应用, 2017, 专利号 201710346199.7

张帆, 尹晓菊, 章维华, 一种去除水中染料的磁性吸附剂及其制备方法和应用, 2015, 专利号
201510674423.6