雷菊英

所属学院 资源与环境工程学院

学科领域 环境催化与污染控制

邮箱 leijuying@ecust.edu.cn

个人简介

教育经历

2013 年，博士，应用化学专业，华东理工大学

2007 年，学士，化学工程与工业专业，东南大学

学术经历

2016 年至今，副教授，华东理工大学资源与环境工程学院

2013 年 -2016 年，博士后 / 讲师，华东理工大学资源与环境工程学院

2010 年 -2012 年，访问学者，美国西北大学化学院

学术兼职

中国化学会会员

美国化学会会员

SCI 期刊 Research on Chemical Intermediates 的编委

荣誉和奖励

2014 年，入选上海市浦江人才计划

2016 年，华东理工大学资源与环境工程学院优秀青年教师

2019 年，入选华东理工大学青年英才培育计划

研究方向

1. 高级氧化技术在水污染、大气污染治理方面的应用研究
2. 光催化、异相芬顿等环境功能材料的开发及应用研究

研究成果及主要发表文章

(1) Liang Zhou, Zhihang Liu, Zhipeng Guan, Baozhu Tian, Lingzhi Wang, Yi Zhou, Yanbo Zhou, Juying Lei*, Jinlong Zhang, Yongdi Liu. 0D/2D plasmonic Cu2-xS/g-C3N4 nanosheets harnessing UV-vis-NIR broad spectrum for photocatalytic degradation of antibiotic pollutant. Applied Catalysis B: Environmental, 2020, 263, 118326. (IF: 14.229)

(2) Liang Zhou, Jianrui Feng, Bocheng Qiu, Yi Zhou, Juying Lei*, Mingyang Xing, Lingzhi Wang, Yanbo Zhou, Yongdi Liu*, Jinlong Zhang*. Ultrathin g-C3N4 nanosheet with Hierarchical Pores and Desirable Energy Band for Highly Efficient H2O2 Production. Applied Catalysis B: Environmental, 2019, DOI: https://doi.org/10.1016/j.apcatb.2019.118396 (IF: 14.229)

(3)Zhenying Jiang, Lingzhi Wang,Juying Lei*, Yongdi Liu, Jinlong Zhang*. Photo-Fenton degradation of phenol by CdS/rGO/Fe2+ at natural pH with in situ-generated H2O2.Applied Catalysis B: Environmental 2019,241, 367–374. (IF: 14.229)

(4)Liang Zhou,Juying Lei*, Lingzhi Wang, Yongdi Liu*, Jinlong Zhang, Highly efficient photo-Fenton degradation of methyl orange facilitated by slow light effect and hierarchical porous structure of Fe2O3-SiO2 photonic crystals.Applied Catalysis B: Environmental, 2018,237, 1160-1167. (IF: 14.229)

(5)Fenghui Liu, Jie Yu, Guangyuan Tu, Ling Qu, Jiacheng Xiao, Yongdi Liu, Lingzhi Wang,Juying Lei*, Jinlong Zhang*. Carbon nitride coupled Ti-SBA15 catalyst for visible-light-driven photocatalytic reduction of Cr (VI) and the synergistic oxidation of phenol.Applied Catalysis B: Environmental, 2017,201, 1-11. (IF: 14.229)

(6)Juying Lei, Lingzhi Wang*, Jinlong Zhang* □ Superbright Multifluorescent Core-shell Mesoporous Nanospheres as Trackable Transport Carrier for Drug □ ACS Nano 2011,5(5), 3447-3455.(IF: 13.903)

(7)Zhichang Liu#, Juying Lei#, Marco Frasconi, Xiaohu Li, Dennis Cao, Zhixue Zhu, Severin T. Schneebeli, George C. Schatz, J. Fraser Stoddart*.A Square □ Planar Tetracoordinate Oxygen □ Containing Ti4O17 Cluster Stabilized by Two 1, 1′ □ Ferrocenedicarboxylato Ligands. Angewandte Chemie International Edition. 2014, 53(35), 9193–9197.(IF: 12.257)

(8)Juying Lei, Lingang Yang, Deli Lu, Xuefeng Yan, Chen Cheng, Yongdi Liu, Lingzhi Wang*, Jinlong Zhang*.Carbon Dot-Incorporated PMO Nanoparticles as Versatile Platforms for the Design of Ratiometric Sensors, Multichannel Traceable Drug Delivery Vehicles, and Efficient Photocatalysts. Advanced Optical Materials,2015,3(1), 57-63. (IF: 7.125)

(9)Yunhao Tian, Liang Zhou, Qiaohong Zhu, Juying Lei,* Lingzhi Wang, Jinlong Zhang *, Yongdi Liu*. Hierarchical macro-mesoporous g-C3N4 with an inverse opal structure and vacancies for high-efficiency solar energy conversion and environmental remediation. Nanoscale, 2019,11, 20638-20647. (IF: 6.97)

(10) Juying Lei, Bin Chen, Weijia Lv, Liang Zhou, Lingzhi Wang, Yongdi Liu*, Jinlong Zhang*. Robust photocatalytic H2O2 production over inverse opal g-C3N4 with carbon vacancy under visible light. ACS Sustainable Chemistry & Engineering, 2019, 7, 19, 16467-16473. (IF: 6.97)

(11)Juying Lei,Lingzhi Wang* and Jinlong Zhang*; Ratiometric pH sensor based on mesoporous silica nanoparticles and Förster resonance energy transfer; Chemical Communication. 2010,46(44), 8445-8447. (IF: 6.164)

(12)Liang Zhou, Yunhao Tian,Juying Lei*, Lingzhi Wang, Yongdi Liu*, Jinlong Zhang*.Self-modification of g-C3N4 with its quantum dots for enhanced photocatalytic activity. Catalysis Science & Technology, 2018,8, 2617-2623. (IF: 5.726)

(13)Weijia Lv, Zhihang Liu, Jinjing Lan, Ziyu Liu, Wenxin Mi, Juying Lei, Lingzhi Wang, Yongdi Liu*, Jinlong Zhang *.Visible-light-induced reduction of hexavalent chromium utilizing cobalt phosphate (Co-Pi) sensitized inverse opal TiO2 as a photocatalyst. 2017, Catalysis Science & Technology. 2017, 7, 5687-5693. (IF: 5.726)