沈晓凤 个人简介

1. 基本信息：

沈晓凤，女，出生于 1991 年 1 月，博士，环境与资源学院副教授。

地址：浙江省杭州市西湖区留和路 318 号浙江科技大学实验大楼 603 室。

Email：shenxiaofeng@zust.edu.cn

2. 学习简历：

2014.09-2019.06 东华大学，博士研究生

2010.09-2014.06 山东师范大学，本科

3. 研究方向：

（1）高级氧化技术；

（2）柔性半导体滤膜状光催化剂的制备及其在流动废水处理中的研究；

（3）光催化降解水体中有机物和还原重金属及机理的研究；

（4）吸附-光催化协同处理重金属和有机污染物；

（5）废弃生物质的资源化利用。

4. 取得的研究成果：

至 2020 年 9 月，以第一作者或者通讯作者身份在 *Applied Catalysis B: Environmental*、*Journal of Hazardous Materials*、*Separation and Purification Technology*、*Journal of Colloid and Interface Science*、*ChemCatChem* 等国际知名期刊累计发表 SCI 论文 9 篇。

5. 主持项目：

[1] 国家自然科学基金-青年基金，24 万，2021.01-2023.12，活性炭/半导体平板的构筑及其在光催化净化流动废水中的应用。

6. 第一或通讯作者代表性论文：

[1] **X. Shen**, Y. Zhang, Z. Shi, S. Shan, J. Liu, L. Zhang, Construction of C3N4/CdS nanojunctions on carbon fiber cloth as a filter-membrane-shaped photocatalyst for degrading flowing wastewater, J. Alloy. Compd., 2021, 851, 156743. (SCI:二区)

[2] **X. Shen,** J. Yang, T. Zheng, Q. Wang, H. Zhuang, R. Zheng, S. Shan, S. Li, Plasmonic p-n heterojunction of Ag/Ag2S/Ag2MoO4 with enhanced Vis-NIR photocatalytic activity for purifying wastewater, Sep. Purif. Technol., 2020, 251, 117347. (SCI:一区)

[3] **X. Shen**, T. Zheng, J. Yang, Zhun Shi, Q Xue, W. Liu, S. Shan, M. Wong, Removal of Cr(VI) from acid wastewater by BC/ZnFe2O4 magnetic

nanocomposite via the synergy of absorption-photocatalysis, ChemCatChem, 2020, 12, 4121-4131. (SCI:二区)

[4] **X. Shen**, Y. Zhang, G.·Duoerkun, Z. Shi, J. Liu, Z. Chen, P. Wong, L. Zhang, Vis-NIR light-responsive photocatalytic activity of C_3N_4-Ag-Ag_2O heterojunction-decorated carbon-fiber cloth as efficient filter-membrane-shaped photocatalyst, ChemCatChem, 2019, 11, 1-13. (IF: 4.674, SCI:二区)

[5] **X. Shen**, L. Song, L. Luo, Y. Zhang, B. Zhu, J. Liu, Z. Chen, L. Zhang, Preparation of TiO2/C3N4 heterojunctions on carbon-fiber cloth as efficient filter-membrane-shaped photocatalyst for removing various pollutants from the flowing wastewater, J. Colloid Interface Sci., 2018, 532, 798-807. (IF: 5.091, SCI:二区)

[6] **X. Shen**, T. Zhang, P. Xu, L. Zhang, J. Liu, Z. Chen, Growth of C3N4 nanosheets on carbon-fiber cloth as flexible and macroscale filter-membrane-shaped photocatalyst for degrading the flowing wastewater, Appl. Catal. B: Environ., 2017, 219, 425-431. (IF: 11.698, SCI:一区)

[7] Y. Jin[#], **X. Shen**[#], Z. Liu, Z. Wang, B. Zhu, P. Xu, L. Luo, L. Zhang, Synthesis of NiTiO3-Bi2MoO6 core-shell fiber-shaped heterojunctions as efficient and easily recyclable photocatalysts, New J. Chem., 2018, 42, 411-419. (SCI:三区)

[8] Q. Tian[#], **X. Shen**[#], Z. Wang, N. Yu, Z. Chen, L. Zhang, Growth of Cu2O Spherical Superstructures on g-C3N4 as Efficient Visible-Light-Driven p-n Heterojunction Photocatalysts for Degrading Various Organic Pollutants, J. Nanosci. Nanotechnol., 2018, 18, 1-8. (SCI:三区)

[9] Y. Chang[#], Z. Liu[#], **X. Shen**[#], B. Zhu, D. Macharia, Z. Chen, L. Zhang, Synthesis of Au nanoparticle-decorated carbon nitride nanorods with plasmon-enhanced photoabsorption and photocatalytic activity for degrading organic pollutant, J. Hazard. Mater., 2017, 344, 1188-1197. (SCI:一区)