



Profile

Xianbo Sun, associate professor and master supervisor, is currently the deputy dean of the School of Resources and Environmental Engineering of East China University of Science and Technology. He graduated with a master degree from the Department of Environmental Science and Engineering of Fudan University in June 1999, and a PhD in environmental engineering from East China University of Science and Technology in June 2005. He has taught in the Department of Environmental Engineering at East China University of Science and Technology since July 1999 and has extensive teaching and research experience. In terms of teaching, he is mainly responsible for the teaching tasks of environmental engineering undergraduate courses "Environmental Engineering Microbiology" and "Environmental Engineering Microbiology Experiment", as well as the teaching tasks of "Modern Environmental Biotechnology" course. At present, the main research direction is the research of industrial wastewater treatment technology and the research and application of virtual reality technology. He has published more than 100 papers. He was selected as the "good mentor in my mind" in the fifth "Good Teachers and Friends" selection activity in 2019, and has guided students to win 7 provincial and ministerial competitions since 2018.

Research Field

1. Industrial wastewater treatment and resource utilization
2. Research on treatment technology of refractory organic pollutants
3. Development and Application of Virtual Reality Technology

Research results and selected published papers

1. Xi Shana, Sun Xianbo, Liu Yongdi, Gu Yong, Chen Qiang, Chen Ying. Effect of Fenton Treatment of DMF Wastewater and Inorganic Anions on the Reaction [J]. Journal of East China University of Science and Technology (Natural Science Edition), 2017, (01): 70-75.
2. Chen Qiang, Sun Xianbo, Chen Ying, Gu Yong, Yan Shana. Treatment of tertiary oil recovery wastewater by electroflocculation [J]. Journal of Environmental Engineering, 2017, (03): 1593-1598.
3. Gu, Yong, Chen, Ying, Sun, Xianbo, Liu, Yongdi. Comparison on mineralization of 2,4,6-tribromophenol by UV-based advanced oxidation processes: UV / Na₂S₂O₈ and UV / H₂O₂. Research on Chemical Intermediates. 2017 43 (5): 3095-3110
4. Huang Chunlin, Lu Zhihao, Sun Xianbo. Study on COD in aqueous paint waste liquid treated by nanofiltration-reverse osmosis membrane [J]. Coatings Industry, 2018, (2): 50-56.
5. Gu Yong, Sun Xianbo, Liu Yongdi. Degradation of Bisphenol A in Fe²⁺ / Na₂S₂O₈ System Enhanced by Hydroxylamine Hydrochloride and Tartaric Acid [J]. Journal of Environmental Engineering, 2018, 12 (10): 2732-2740.
6. Li Jiayi, Sun Xianbo, Liu Yongdi. Catalytic degradation of p-chlorophenol with N-117 supported Fe (II) heterogeneous Fenton system [J / OL]. Journal of East China University of Science and Technology (Natural Science Edition): 1-7 [2018-11 -14].
<https://doi.org/10.14135/j.cnki.1006-3080.20180110003>.
7. Sun Xianbo, Zhao Yaoyao, Liu Yongdi, Fu Dan. Study on treatment of ferricyanide wastewater by persulfate method [J]. Journal of Safety and Environment, 2018, 18 (04): 1463-1467.
8. Wu Yuhuan, Sun Xianbo, Xu Hongyong. Effect of metal complexation on HPLC analysis of oxalic acid and its elimination [J]. Journal of East China University of Science and Technology (Natural Science Edition), 2018 (05): 715-718 + 729.
9. Ding Sijia, Sun Xianbo, Liu Yongdi, Cai Zhengqing. Ozone oxidation characteristics and mechanism of sulfadiazine in livestock and poultry wastewater [J / OL]. Water Treatment Technology, 2020 (01): 32-37 [2020-01-12]. <https://doi.org/10.16796/j.cnki.1000-3770.2020.01.007>.
10. Meng Ning, Sun Xianbo, Tang Lin. Experimental Study on O₃ / H₂O₂ Oxidation Treatment of Oilfield Production Wastewater [J]. Industrial Water Treatment, 2019, 39 (08): 86-89.
11. Zhang Weiwei, Sun Xianbo. Determination of Four Tetracycline Antibiotics in Environmental Water and Their Stability by Solid Phase Extraction-High Performance Liquid Chromatography [J]. Heilongjiang Animal Science and Veterinary Medicine, 2019 (05): 130-135.
12. Zhengqing Cai, Xiaodi Hao, Xianbo Sun, Penghui Du, Wen Liu, Jie Fu, Highly active WO₃ @ anatase-SiO₂ aerogel for solar-light-driven phenanthrene degradation: Mechanism insight and toxicity assessment, Water Research, 2019, 162: 369-382.