



所属学院 资源与环境工程学院

学科领域 环境科学与工程

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个人简介

1998年毕业于华东理工大学精细化工专业，获工学博士学位。毕业后在华东理工大学资源与环境工程学院任教，2001年12月至2013年6月在香港大学土木工程系作访问学者，2006年晋升教授。现担任上海市净水技术学会理事、《净水技术》杂志编委。承担本科生课程“专业英语”、硕士生课程“工业水处理技术”等。已发表学术论文60多篇，合作编写4本专著和获得授权专利8项。目前主要从事废水电化学处理技术、核电厂放射性废液处理技术、微生物电化学、水体修复等方向的研究与应用工作。

研究方向

1. 水污染控制工程
2. 环境电化学

研究成果及主要发表文章

1. Yao Yin, Guangtuan Huang*, Yiran Tong, Yongdi Liu, Lehua Zhang. Electricity production and electrochemical impedance modeling of microbial fuel cells under static magnetic field. *Journal of Power Sources*, 2013, 237: 58-63
2. Zhihao Lu, Peter Girguis, Peng Liang, Haifeng Shi, Guangtuan Huang, Lankun Cai, Lehua Zhang*. Biological capacitance studies of anodes in microbial fuel cells using electrochemical impedance spectroscopy. *Bioprocess and Biosystems Engineering*, 2015, 38(7): 1325-1333
3. Zhihao Lu, Dingming Chang, Jingxing Ma, Guangtuan Huang, Lankun Cai, Lehua Zhang*. Behavior of metal ions in bioelectrochemical systems: A review. *Journal of Power Sources*, 2015, 275: 243-260
4. Lehua Zhang*, Willy Verstraete, Maria de Lourdes Mendoza, Zhihao Lu, Yongdi Liu, Guangtuan Huang, Lankun Cai. Decrease of dissolved sulfide in sewage by powdered natural magnetite and hematite. *Science of The Total Environment*, 2016, 573: 1070-1078
5. Yao Yin, Guangtuan Huang*, Ningbo Zhou, Yongdi Liu, Lehua Zhang. Increasing power generation of microbial fuel cell with nano-CeO₂ modified anode. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 2016, 38(9): 1212-1218
6. Yao Yin, Guangtuan Huang*, Mengjie Di, Cheng Xue, Weixin Li, Lehua Zhang, Yongdi Liu. Increased electroactive species concentration in anodic biofilm of *Geobacter*-inoculated microbial fuel cells under static magnetic field. *Research on Chemical Intermediates*, 2017, 43(2): 873-883
7. Guangtuan Huang*, Panpan Dou, Zhen Zhang, Jing Yan. Removal of cobalt from liquid radioactive waste by in situ electrochemical synthesis of ferrite. *Journal of Radioanalytical and Nuclear Chemistry*, 2018, 316(1): 61-70
8. Guangtuan Huang*, Ling Qu, Yi Ding. Birnessite modified graphite cathode toward efficient autotrophic denitrification of *Thiobacillus denitrificans* in bioelectrochemical system. *Desalination and Water Treatment*, 2019, 150: 367-373
9. Guangtuan Huang*, Lifeng Shao, Xiaohong He, Li Jiang. Treatment of simulated liquid radioactive waste containing cobalt by in-situ co-precipitation of Zn/Al layered double hydroxides. *Journal of Radioanalytical and Nuclear Chemistry*, 2019, 319(3): 847-854
10. Guangtuan Huang*, Li Huang, Liyuan Dong. Electrocatalytic deiodination of methyl iodide on a copper electrode. *Research on Chemical Intermediates*, 2019, 45(7): 3723-3737
11. Guangtuan Huang*, Li Huang. Particulate copper electrodeposited on carbon felt for degradation of low concentration of methyl iodide in liquid radioactive wastes. *Water Science and Technology*, 2019, 80(3): 397-407