

## 山东师范大学地理与环境学院

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### 个人简介

孔强，中共党员，副教授，工学博士，硕士研究生导师。中国环境学会会员，中国生态学会会员，Journal of Hazardous Materials、Science of the Total Environment、Chemosphere 和 Environmental Pollution 等 SCI 期刊审稿人。主讲《无机及分析化学》、《环境科学专业英语》等课程。

以第一或通讯作者发表 SCI 论文 28 篇，其中中科院分区一区 Top 期刊论文 7 篇，累计 IF>85，SCI 他引 200 余次，单篇他引最高为 27 次。主持承担国家科技重大专项子课题任务（2017ZX07101001-01）、国家自然科学基金（51708340）、中国博士后科学基金面上项目（2014M551950）、山东省优秀中青年科学家科研奖励基金（BS2014HZ019）和山东省高等学校科技计划项目（J15LE07）等科研项目 10 余项。获中国博士后科学基金第八批特别资助（2015T80738）；获博士后国际交流计划派出项目（20180063）；获国家公派访问学者项目（201808370067）；获山东省高等学校科学技术奖一等奖 1 项，山东省高校优秀科研成果奖（自然科学类）三等奖 1 项；山东师范大学接收博士研究生重点资助人选。

### 主持和参与科研项目

1. 国家科技重大专项子课题任务，2017ZX07101001-01，张家口水源涵养区山水林田湖综合数据库建设和数据挖掘技术研究，2017/1-2020/6，任务负责人
2. 国家自然科学基金，51708340，滨海湿地土壤微生物驱动氮素转化与消除研究，2018/1-2020/12，负责人
3. 中国博士后科学基金第八批特别资助，2015T80738，负责人
4. 中国博士后科学基金第 55 批面上项目，2014M551950，负责人
5. 山东省优秀中青年科学家科研奖励基金，BS2014HZ019，同步硝化反硝化生物脱氮工艺 N<sub>2</sub>O 释放机制研究，2014/12-2016/12，负责人
6. 山东省高等学校科技计划项目，J15LE07，黄三角盐碱生境下人工湿地系统 N<sub>2</sub>O 释放机理研究，2015/6-2017/5，负责人

## 代表性学术论文

1. Yu Feng, Qian Liu, Yang Yu, **Qiang Kong\***, Lu-lu Zhou, Yuan-da Du, Xiao-feng Wang. Norfloxacin removal from aqueous solution using biochar derived from luffa sponge. *Journal of Water Supply: Research and Technology - AQUA*, doi: 10.2166/aqua.2018.040. 通讯作者 (SCI, IF= 1.179)
2. Yuan-da Du, Yu Feng, Li Shu, Zhao-jie Ren, **Qiang Kong\***, Fei Xu, Qian Wang. A mesoporous biochar from bio-invasion alligator weed for adsorption of rhodamine B from aqueous solution. *Desalination and Water Treatment*, doi:10.5004/dwt.2018.22616. 通讯作者 (SCI, IF= 1.383)
3. Fei Xu, Fu-qian Cao, **Qiang Kong\***, Lu-lu Zhou, Qing Yuan, Ya-jie Zhu, Qian Wang, Yuan-da Du, Zhi-de Wang. Electricity production and evolution of microbial community in the constructed wetland-microbial fuel cell. *Chemical Engineering Journal*, 2018, 339: 479-486. 通讯作者 (SCI, IF= 6.735)
4. **Qiang Kong\***, Xiao He, Shuai-shuai Ma, Yu Feng, Ming-sheng Miao, Yuan-da Du, Fei Xu, Qian Wang. The performance and evolution of bacterial community of activated sludge exposed to trimethoprim in a sequencing batch reactor. *Bioresource Technology*, 2017, 244: 872-879. 第一作者/通讯作者 (SCI, IF= 5.807)
5. Ming-sheng Miao, Shuai-shuai Ma, Li Shu, **Qiang Kong\***, Yu-zhen Liu. Adsorption characteristics of antibiotics trimethoprim by activated carbon developed from low-cost alligator weed: kinetics, equilibrium and thermodynamic analyses. *Desalination and Water Treatment*, 2017, 96: 76-85. 通讯作者 (SCI, IF= 1.383)
6. Fei Xu, Xiao-yu Qi, **Qiang Kong\***, Li Shu, Ming-sheng Miao, Shiguo Xu, Yuan-da Du, Qian Wang, Qun Liu, Shuai-shuai Ma. Adsorption of Sunset Yellow by Luffa Sponge, Modified Luffa and Activated Carbon from Luffa Sponge. *Desalination and Water Treatment*, 2017, 96: 86-96. 通讯作者 (SCI, IF= 1.383)
7. **Qiang Kong\***, Xiao He, Ming-sheng Miao, Yu Feng. Ofloxacin adsorption by activated carbon derived from luffa sponge: Kinetic, isotherm, and thermodynamic analyses. *Process Safety and Environmental Protection*, 2017, 112: 254-264. 第一作者/通讯作者 (SCI, IF= 3.441)

8. **Qiang Kong\***, Xiao He, Yu Feng, Ming-sheng Miao, Qian Wang, Yuan-da Du, Fei Xu. Pollutant removal and microorganism evolution of activated sludge under ofloxacin selection pressure. *Bioresource Technology*, 2017, 241: 849-856. 第一作者/通讯作者 (SCI, IF= 5.807)
9. Xu Zhang, Baigang Ren, Shangge Li, Xiaodi Qu, Huanhuan Yang, Shiguo Xu, Zongming Ren\*, **Qiang Kong\***, Cheng Wang. Is sodium percarbonate a good choice in situ remediation of DM pollution? *Frontiers of Environmental Science & Engineering*, 2017, 11(3): 3. 共同通讯作者 (SCI, IF= 1.961)
10. **Qiang Kong**, Qun Liu, Ming-Sheng Miao, Yu-Zhen Liu, Qing-Feng Chen\*, Chang-Sheng Zhao. Kinetic and equilibrium studies of the biosorption of sunset yellow dye by alligator weed activated carbon. *Desalination and Water Treatment*, 2017, 66: 281–290. 第一作者 (SCI, IF= 1.383)
11. Zhi-ping Qi, Qun Liu, Zhuang-rui Zhu, **Qiang Kong\***, Qingfeng Chen, Chang-sheng Zhao, Yu-zhen Liu, Ming-sheng Miao, Cong Wang. Rhodamine B removal from aqueous solutions using loofah sponge and activated carbon prepared from loofah sponge. *Desalination and Water Treatment*, 2016, 57: 29421–29433. 通讯作者 (SCI, IF= 1.383)
12. Zhen Wang, Xu-dong Yao, Ming-sheng Miao, Qing-feng Chen, **Qiang Kong\***, Da-wei Shang, Jiang-ning Yu, Xiao-meng Fu. Effects of urban wastewater dilution on growth and biochemical properties of *Scenedesmus* sp. . *Desalination and Water Treatment*, 2016, 57: 29363–29370. 通讯作者 (SCI, IF= 1.383)
13. Yan-na Wang, Qun Liu, Li Shu, Ming-sheng Miao, Yu-zhen Liu, **Qiang Kong\***. Removal of Cr(VI) from aqueous solution using Fe-modified activated carbon prepared from luffa sponge: Kinetic, thermodynamic, and isotherm studies. *Desalination and Water Treatment*, 2016, 57: 29467–29478. 通讯作者 (SCI, IF= 1.383)
14. Zhi-bin Wang, Shou-Qing Ni, Jian Zhang, Tong Zhu, Yong-guang Ma, Xiao-lin Liu, **Qiang Kong\***, Ming-sheng Miao. Gene Expression and Biomarker Discovery of Anammox Bacteria in Different Reactors. *Biochemical Engineering Journal*, 2016, 115: 108-114. 通讯作者 (SCI, IF= 3.226)
15. Ming-sheng Miao, Qun Liu, Li Shu, Zhen Wang, Yu-zhen Liu, **Qiang Kong\***.

Removal of cephalexin from effluent by activated carbon prepared from alligator weed: Kinetics, isotherms, and thermodynamic analyses. *Process Safety and Environmental Protection*, 2016, 104: 481–489. 通讯作者 (SCI, IF= 3.441)

16. **Qiang Kong**, Yu Feng, Yu-zhen Liu, Zhen Hu\*. Impact of COD/N ratio on nitrous oxide emission during livestock wastewater treatment via nitrite pathway. *Environmental Engineering and Management Journal*, 2016, 15(10): 2239-2244. 第一作者 (SCI, IF= 1.334)
17. Zhi-bin Wang, Ming-sheng Miao, **Qiang Kong**\*, Shou-qing Ni. Evaluation of microbial diversity of activated sludge in a municipal wastewater treatment plant of northern China by high-throughput sequencing technology. *Desalination and Water Treatment*, 2016, 57(50):23516-23521. 通讯作者 (SCI, IF= 1.383)
18. Ming-sheng Miao, Xu-dong Yao, Li Shu, Yu-jie Yan, Zhen Wang, Na Li, Xiao-tong Cui, Ya-min Lin, **Qiang Kong**\*. Mixotrophic growth and biochemical analysis of *Chlorella vulgaris* cultivated with synthetic domestic wastewater. *International Biodeterioration & Biodegradation*, 2016, 113:120-125. 通讯作者 (SCI, IF= 3.562)
19. **Qiang Kong**\*, Zhi-bin Wang, Peng-fei Niu, Ming-sheng Miao. Greenhouse gas emission and microbial community dynamics during simultaneous nitrification and denitrification process. *Bioresource Technology*, 2016, 210:94-100. 第一作者/通讯作者 (SCI, IF= 5.807)
20. Ming-sheng Miao, Yan-na Wang, **Qiang Kong**\*, Li Shu. Adsorption kinetics and optimum conditions for Cr(VI) removal by activated carbon prepared from luffa sponge. *Desalination and Water Treatment*, 2016, 57(17):7763-7772. 通讯作者 (SCI, IF= 1.383)
21. **Qiang Kong**, Yan-na Wang, Li Shu, Ming-sheng Miao\*. Isotherm, kinetic, and thermodynamic equations for cephalexin removal from liquids using activated carbon synthesized from loofah sponge. *Desalination and Water Treatment*, 2016, 57(17):7733-7742. 第一作者 (SCI, IF= 1.383)
22. **Qiang Kong**, Zhi-bin Wang, Li Shu, Ming-sheng Miao\*. Characterization of the extracellular polymeric substances and microbial of aerobic granulation sludge exposed to cephalexin. *International Biodeterioration & Biodegradation*, 2015,

102:375-382. 第一作者 (SCI, IF= 3.562)

23. **Qiang Kong\***. Impact of ammonium and salinity concentrations on nitrous oxide emission in partial nitrification system. KSCE Journal of Civil Engineering, 2015, 19(4):873-879. 第一作者/通讯作者 (SCI, IF= 0.94)
24. **Qiang Kong\***, Huu Hao Ngo, Li Shu, Rong-shu Fu, Chun-hui Jiang, Ming-sheng Miao\*. Enhancement of aerobic granulation by zero-valent iron in sequencing batch airlift reactor. Journal of Hazardous Materials, 2014, 279: 511-517. 第一作者/通讯作者(SCI, IF= 6.434)
25. Ming-sheng Miao, Yan-jun Zhang, Li Shu, Jian Zhang, **Qiang Kong\***, Na Li. Development and characterization of the 2,4,6-trichlorophenol (2,4,6-TCP) aerobic degrading granules in sequencing batch airlift reactor. International Biodeterioration & Biodegradation, 2014, 95:61-66. 通讯作者 (SCI, IF= 3.562)
26. **Qiang Kong**, Shuang Liang, Jian Zhang\*, Huijun Xie, Mingsheng Miao, Lin Tian. N<sub>2</sub>O emission in a partial nitrification system: Dynamic emission characteristics and the ammonium-oxidizing bacteria community. Bioresource Technology, 2013, 127: 400-406. 第一作者 (SCI, IF= 5.807)
27. **Qiang Kong**, Jian Zhang\*, Mingsheng Miao, Lin Tian, Ning Guo, Shuang Liang. Partial nitrification and nitrous oxide emission in an intermittently aerated sequencing batch biofilm reactor. Chemical Engineering Journal, 2013, 217:435-441. 第一作者 (SCI, IF= 6.735)
28. **Qiang Kong**, Jian Zhang\*, Huu Hao Ngo, Shouqing Ni, Rongshu Fu, Wenshan Guo, Ning Guo, Lin Tian. Nitrous oxide emission in an aerobic granulation sequencing batch airlift reactor at ambient temperatures. International Biodeterioration & Biodegradation, 2013, 85:533-538. 第一作者 (SCI, IF= 3.562)

#### 获奖及其他

1. 污水处理过程中温室气体 N<sub>2</sub>O 的产生机理及其减量化研究 (2016BK10051), 山东省教育厅, 山东省高等学校科学技术奖一等奖 (第柒位)
2. 降解典型有机污染物氯酚的好氧颗粒污泥制备与应用 (2015BZ30574), 山东省教育厅, 山东省高校优秀科研成果奖 (自然科学类) 三等奖 (第一位)