



## 师资队伍

教授

产业教授

副教授

讲师

实验教师

行政人员

## 副教授



许晓光

1987年1月生

博士, 副教授, 无党派人士

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## 教育背景

2011.04-2014.03, 日本东北大学, 环境生态工程, 博士学位

2008.09-2010.10, 东南大学, 市政工程, 硕士学位

2004.09-2008.07, 东南大学, 给水排水工程, 学士学位

## 研究经历

2017.06-至今, 南京师范大学, 环境科学与工程, 副教授

2016.08-2017.05, 南京师范大学, 环境科学与工程, 讲师

2015.04-2015.10, 日本东北大学, 环境生态工程, 研究员 (合作导师: 须藤隆一、西村修教授)

2014.04-2015.03, 日本东京农工大学, 化学工程, 助教 (合作导师: 细见正明、寺田昭彦教授)

## 主要研究方向

1. 气候变化与浅水湖泊生物地球化学
2. 富营养化湖泊有机碳循环过程
3. 污染水体生物生态修复

## 主讲课程

环境工程学导论、高级环境生物技术、环境工程原理与技术

## 获奖情况

江苏省“双创博士”世界名校类人才计划、日本东北大学外国留学生校长奖、日本文部科学省外国人留学生学习奖、日本东北大学GCOE项目研究奖、东南大学研究生一等奖、东南大学研究生三好学生等

## 社会兼职、国内外学术团体任职

南京市侨联青委会第三届委员、江苏省环境科学学会环境生态委员、江苏省海洋湖沼学会会员、国际浅水湖泊学会会员、日本水环境学会会员等

SCI期刊Bulletin of Environmental Contamination and Toxicology编委，副主编（代）

## 主持的科研项目

11. 国家自然科学基金面上基金（42077294）：富营养化湖泊共代谢效应对沉积物碳库平衡的影响及其对气候变暖的响应，负责人，2021.01-2024.12

10. 国家自然科学基金青年基金（41703105）：气候变暖背景下富营养化湖泊沉积物有机碳来源和迁移转化机制，负责人，2018.01-2020.12

9. 国家水体污染控制与治理科技重大专项（2017ZX07203-003-004）：“高藻胁迫下梅梁湾周边河道水环境深度改善和良性生态系统构建技术与工程示范”子课题“滨湖城市河道生态清淤及基底改善技术与示范”，负责人，2017.01-2020.12

8. 江苏省高等学校自然科学研究面上项目（17KJB170009）：浅水湖聚藻区沉积物中有机碳来源解析和迁移转化机制，负责人，2017.09-2019.08

7. 国家自然科学基金面上项目（41573061）：富营养化湖泊藻积层有机碳积累动态及驱动机制研究，主研，2016.01-2019.12

6. 江苏省太湖水环境综合治理科研课题（TH2015202）：池塘蟹虾养殖场污染治理技术研究及工程示范，主研，2015.11-2017.10

5. 江苏省太湖水环境综合治理科研课题 (TH2014402) : 太湖流域底泥监测分析与评价研究, 主研, 2014.11-2017.01
4. 国家自然科学基金面上项目 (41773081) : 污染河道反硝化型甲烷厌氧氧化及其影响因素研究, 参与, 2018.01-2021.12
3. 江苏省太湖水环境综合治理科研课题 (TH2016198) : 区域农业面源污染控制技术与绿色乡村长效运管示范, 参与, 2016.10-2018.12
2. 日本学术振兴会科研费基础研究B, 基于太湖生态系统技能恢复的沉积物环境调查, 主研, 2011.04-2014.03
1. 日本学术振兴会国际前沿教育研究基地培育, 面向环境激变的生态系统适应性研究, 负责人, 2011.04-2014.03

### 发表论文、专利及著作

25. Jie Ma, Ruijie Shi, Ruiming Han, Min Ji, **Xiaoguang Xu\***, Guoxiang Wang. Comparative study on the community structure of epiphytic bacteria in association with *Potamogeton pectinatus* and the surrounding bacterioplankton in Hongze Lake. *Marine and Freshwater Research* 2020, MF20212.
24. Jing Chen, Qiu Jin\*, Ruijie Shi, **Xiaoguang Xu\***, Siyuan Zhao, Ming Ji, Ruge Chen, Yue Sha, Yifan Xu. Synchronous nutrient controlled-release of greenhouse gases during mineralization of sediments from different lakes. *Bulletin of Environmental Contamination and Toxicology* 2020, 105:76-85.
23. Yiwen Zhou, Kang Song, Ruiming Han, Shohei Riya, **Xiaoguang Xu\***, Senbati Yeerken, ShixiongGeng, You Ma, Akihiko Terada. Nonlinear response of methane release to increased trophic state levels coupled with microbial processes in shallow lakes. *Environmental Pollution* 2020, 114919.
22. Yan Yan, Yang Deng, Min Ji, **Xiaoguang Xu\***, Limin Zhang, Guoxiang Wang. Antibiotic pollution and risk assessment under different cultivation modes in aquaculture ponds of the Taihu Lake Basin, China. *Marine and Freshwater Research* 2020, 71:1234-1240.

21. Yan Yan, Yangzang Pengmao, **Xiaoguang Xu\***, Limin Zhang, Guoxiang Wang\*, Qiu Jin, Liangang Chen. Migration of antibiotic ciprofloxacin during phytoremediation of contaminated water and identification of transformation products. *Aquatic Toxicology* 2020, 219:105374.
20. Zhichun Li, Xiang Li, Xuan Wang, Jie Ma, Jie Xu, **Xiaoguang Xu\***, Ruiming Han, Yiwen Zhou, Xingcheng Yan, Guoxiang Wang\*. Isotopic evidence revealing spatial heterogeneity for source and composition of sedimentary organic matters in Taihu Lake, China. *Ecological Indicators* 2020, 109:105854.
19. Jie Ma, **Xiaoguang Xu\***, Cencen Yu, Huichao Liu, Guoxiang Wang, Zhichu Li, Bin Xu, Ruijie Shi. Molecular biomarkers reveal co-metabolism effect of organic detritus in eutrophic lacustrine sediments. *Science of the Total Environment* 2020, 698:134328.
18. Yan Yan<sup>1</sup>, **Xiaoguang Xu**<sup>1</sup>, Chenfei Shi, Wang Yan, Limin Zhang, Guoxiang Wang. Ecotoxicological effects and accumulation of ciprofloxacin in *Eichhornia crassipes* under hydroponic conditions. *Environment Science and Pollution Research* 2019,26:30348-30355.
17. Yiwen Zhou<sup>1</sup>, **Xiaoguang Xu**<sup>1</sup>, Ruiming Han, Lu Li, Yu Feng, Senbati Yeerken, Kang Song, Qilin Wang. Suspended particles potentially enhance nitrous oxide (N<sub>2</sub>O) emissions in the oxic estuarine waters of eutrophic lakes: Field and experimental evidence. *Environmental Pollution* 2019, 252:1225-1234.
16. **Xiaoguang Xu**, Yiwen Zhou, Ruiming Han, Kang Song, Xiaohong Zhou, Guoxiang Wang, Qilin Wang. Eutrophication triggers the shift of nutrient absorption pathway of submerged macrophytes: Implications for the phytoremediation of eutrophic waters. *Journal of Environmental Management* 2019, 239:376-384.
15. Wei Li<sup>1</sup>, **Xiaoguang Xu**<sup>1</sup>, Jingmei Yao, Nobuyuki Tanaka, Osamu Nishimura, Hua Ma. Combined effects of elevated carbon dioxide and temperature on phytoplankton-zooplankton link: A multi-influence of climate change on freshwater planktonic communities. *Science of the Total Environment* 2019, 658:1175-1185.
14. Xingcheng Yan<sup>1</sup>, **Xiaoguang Xu**<sup>1</sup>, Ming Ji, Zhongqian Zhang, Mingyue Wang, Songjun Wu, Guoxiang Wang\*, Chi Zhang, Huichao Liu. Cyanobacteria blooms: A neglected facilitator of CH<sub>4</sub> production in eutrophic

lakes. Science of the Total Environment 2019, 651:466-474.

13. **Xiaoguang Xu**, Wei Li, Hui Deng, Megumu Fujibayashi, Munehiro Nomura, Osamu Nishimura, Guoxiang Wang. Approach deliberation for source identification of sedimentary organic matters via comparing freshwater lakes with multi-ecotypes. Science of the Total Environment 2019, 649:327-334.

12. Zhichun Li, Yanping Zhao, **Xiaoguang Xu\***, Ruiming Han, Mingyue Wang, Guoxiang Wang\*. Migration and transformation of dissolved carbon during accumulated cyanobacteria decomposition in shallow eutrophic lakes: a simulated microcosm study. PeerJ 2018, 6:e5922.

11. Zhichun Li, **Xiaoguang Xu\***, Ming Ji, Guoxiang Wang, Ruiming Han, Jie Ma, Xingcheng Yan, Jine Liu\*. Estimating sedimentary organic matter sources by multi-combined proxies for spatial heterogeneity in a large and shallow eutrophic lake. Journal of Environmental Management 2018, 224:147-155.

10. Heyong Huang, **Xiaoguang Xu\***, Chenfei Shi, Xiansheng Liu, Guoxiang Wang\*. Response of taste and odor compounds to elevated cyanobacteria biomass and temperature. Bulletin of Environmental Contamination and Toxicology 2018, 101:272-278.

9. Xingcheng Yan, **Xiaoguang Xu\***, Mingyue Wang, Guoxiang Wang\*, Songjun Wu, Zhichun Li, Hao Sun, Ao Shi, Yunhao Yang. Climate warming and cyanobacteria blooms: Looks at their relationships from a new perspective. Water Research 2017, 125:449-457.

8. Yiwen Zhou, Xiaohong Zhou, Ruiming Han, **Xiaoguang Xu\***, Guoxiang Wang, Xiansheng Liu, Fengzhi Bi, Deyou Feng. Reproduction capacity of Potamogeton crispus fragments and its role in water purification and algae inhibition in eutrophic lakes. Science of the Total Environment 2017, 580:1421-1428.

7. Wei Li, **Xiaoguang Xu\***, Megumu Fujibayashi, Qigui Niu, Nobuyuki Tanaka, Yoshio Aikawa, Osamu Nishimura, Response of microalgae to elevated CO<sub>2</sub> and temperature: impact of climate change on freshwater ecosystems. Environment Science and Pollution Research 2016, 23:19847-19860.

6. Wensong Duan, Qigui Niu, **Xiaoguang Xu\***, Wei Li, Cheng Li, Yawen Zhu, Dafang Fu, Characteristics of submerged dynamic membrane bioreactors treating municipal wastewater: attapulgit addition effects on

the performance and microbial community shifts. Journal of Water Reuse and Desalination 2016,4:488-504.

5. Wensong Duan, **Xiaoguang Xu\***, Cong Ling, Genyan Xu, Sansan Su, "Preparation of acid-modified-attapulgite/ $\text{Al}_2(\text{SO}_4)_3$ adsorbent for enhanced removal of DOM in WWTP secondary effluent" . Fresenius Environmental Bulletin 2016, 25:4637-4644.

4. **Xiaoguang Xu**, Wei Li, Megumu Fujibayashi, Munehiro Nomura, Osamu Nishimura, Xianning Li, Asymmetric response of sedimentary pool to surface water in organics from a shallow hypereutrophic lake: The role of animal consumption and microbial utilization. Ecological Indicators 2015, 58:346-355.

3. Wensong Duan, Cong Ling, Fangfang Zhang, Weixi Tang, **Xiaoguang Xu\***, Control of dissolved organic matter fouling ultrafiltration membrane treating a WWTP secondary effluent via multi-pretreatments. Desalination and Water Treatment 2015, 0:1-9.

2. **Xiaoguang Xu**, Wei Li, Megumu Fujibayashi, Munehiro Nomura, Osamu Nishimura, Xianning Li, Predominance of terrestrial organic matter in sediments from a cyanobacteria-blooming hypereutrophic lake. Ecological Indicators 2014, 50C:35-43.

1. **Xiaoguang Xu**, Wei Li, Megumu Fujibayashi, Munehiro Nomura, Takashi Sakamaki, Osamu Nishimura, Xianning Li, Feedback of threshold via estimating sources and composition of sedimentary organic matter trophic gradients in freshwater lakes. Science of the Total Environment 2014, 500-501C:373-382.

### 授权专利

4. 许晓光, 史宸菲, 李丛杨, 陈赟, 程一, 王国祥。一种可用作植物种植基质的新型材料、其制备方法及应用。申请号: CN202011036476.2

3. 许晓光, 陈赟, 程一, 史宸菲, 李丛杨, 王国祥。一种利用蓝藻和底泥共发酵生产沼气的方。申请号: CN202011036484.7

2. 许晓光, 金秋, 李伟, 杨巍, 陈炼钢, 王国祥, 闫兴成, 季铭。一种同步实现螃蟹增产和水质净化回用的集约化养殖塘及养殖方法。申请号: CN201910338896.7

1. 许晓光, 金秋, 李伟, 王国祥, 任飞凡, 高照, 陈炼钢, 陈黎明, 李金刚。一种河流中藻类定点分层采集装置。授权专利号: ZL201920366559.4

### 指导学生 (\*共同指导)

5. 季铭\*, 《草/藻衰亡分解对浅水湖泊CH<sub>4</sub>和CO<sub>2</sub>排放的影响机制研究》, 硕士研究生, 2017.9—2020.6

4. 严岩\*, 《凤眼莲对环丙沙星吸收转运和生理生化响应机理研究》, 博士研究生, 2017.9—2020.6

3. 李致春\*, 《太湖蓝藻水华衰亡过程中有机碳在水-沉积物中的动态分布》, 博士研究生, 2015.9—2019.6

2. 闫兴成\*, 《蓝藻聚积衰亡对温室气体产生的影响及机制研究》, 硕士研究生, 2015.9—2018.6

1. 周裔文\*, 《沉水植物菹草对营养盐的吸收利用途径及其对水质净化效能分析》, 硕士研究生, 2014.9—2017.6

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