

师资队伍

环境生态系

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王森

2017-04-26 11:50 环境科学与工程学院



王森，男，博士，副教授，硕士生导师，青岛大学特聘教授，2016年6月毕业于中国海洋大学环境工程专业，获得工学博士学位。

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1. 工作经历:

2020.12—至今: 青岛大学环境科学与工程学院 副教授

2016.09—2020.11: 青岛大学环境科学与工程学院 讲师

2. 科研领域:

- (1) 人工湿地生态工程
- (2) 污水生物处理与资源化利用
- (3) 污染物迁移、转化与归趋

3. 科研项目:

- (1) 山东省自然科学基金面上项目, DOM对纳米颗粒在人工湿地中迁移转化及其生物毒性的影响机制研究, 2019.07-2022.06, 负责人
- (2) 山东省高校科技计划项目, DOM与纳米银相互作用对人工湿地堵塞及其运行效果的影响研究(40218010214), 2018/03-2020/02, 负责人
- (3) 水体污染控制与治理科技重大专项, 2009ZX07317-008-02, 多产业型小城镇水污染控制与治理共性关键技术研究工程示范, 2009/01-2011/12, 合作单位项目负责人

4. 教学工作:

讲授环境经济学(双语)、工程制图与环境工程设计I等本科生课程、生态修复理论与技术等研究生课程。

5. 科研团队:

详见湿地生态与环境研究团队主页<http://www.wetland-eco-env.com/>

6. 代表性成果:

[1] Liyan Di, Yue Li, Likai Nie, Fanlong Kong*, Sen Wang*. Influence of plant radial oxygen loss in constructed wetland combined with microbial fuel cell on nitrobenzene removal from aqueous solution. *Journal of Hazardous Materials*, 2020, 394, 122542.

[2] Zijin Huang, Fanlong Kong, Yue Li, Guangming Xu, Ruoyu Yuan, Sen Wang*. Advanced treatment of effluent from municipal wastewater treatment plant by strengthened EFB. *Bioresource Technology*, 2020, 309, 123358.

[3] Ruoyu Yuan, Yue Li, Jihua Li, Shuhua Ji, Sen Wang*, Fanlong Kong*. The allelopathic effects of aqueous extracts from *Spartina alterniflora* on controlling the *Microcystis aeruginosa* blooms. *Science of the Total Environment*, 2020, 712, 136332.

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- [5] Sen Wang*, Mengchun Gao, Bingrui Ma, Min Xi, Fanlong Kong. Size-dependent effects of ZnO nanoparticles on performance, microbial enzymatic activity and extracellular polymeric substances in sequencing batch reactor. *Environmental Pollution*, 2020, 257, 113596.
- [6] Ruoyu Yuan, Jihua Li, Yue Li, Ling Ren, Sen Wang*, Fanlong Kong*. Formation mechanism of the *Microcystis aeruginosa* bloom in the water with low dissolved phosphorus. *Marine Pollution Bulletin*, 2019, 148, 194–201.
- [7] Sen Wang, Mengchun Gao*, Zonglian She, Liang Guo, Dong Zheng, Yangguo Zhao, Bingrui Ma, Feng Gao, Xuejiao Wang. Long-term effects of nickel oxide nanoparticles on performance, microbial enzymatic activity, and microbial community of a sequencing batch reactor. *Chemosphere* 2017, 169, 387–395.
- [8] Sen Wang, Zhiwei Li, Mengchun Gao*, Zonglian She, Bingrui Ma, Liang Guo, Dong Zheng, Yangguo Zhao, Chunji Jin, Xuejiao Wang, Feng Gao. Long-term effects of cupric oxide nanoparticles (CuO NPs) on the performance, microbial community and enzymatic activity of activated sludge in a sequencing batch reactor. *Journal of Environmental Management*, 2017, 187, 330–339.
- [9] Sen Wang, Mengchun Gao*, Zonglian She, Dong Zheng, Chunji Jin, Liang Guo, Yangguo Zhao, Zhiwei Li, Xuejiao Wang. Long-term effects of ZnO nanoparticles on nitrogen and phosphorus removal, microbial activity and microbial community of a sequencing batch reactor. *Bioresource Technology*, 2016, 216, 428–436.
- [10] Sen Wang, Mengchun Gao*, Zhiwei Li, Zonglian She, Juan Wu, Dong Zheng, Liang Guo, Yangguo Zhao, Feng Gao, Xuejiao Wang. Performance evaluation, microbial enzymatic activity and microbial community of a sequencing batch reactor under long-

term exposure to cerium dioxide nanoparticles. *Bioresource Technology*, 2016, 220, 262–270.

[11] Sen Wang, Mengchun Gao*, Zhe Wang, Zonglian She, Qingbo Chang, Changqing Sun, Jian Zhang, Yun Ren, Ning Yang. The effects of divalent copper on performance, extracellular polymeric substances and microbial community of an anoxic-aerobic sequencing batch reactor. *RSC Advances*, 2015, 5(39), 30737–30747.

[12] Sen Wang, Mengchun Gao*, Zhe Wang, Zonglian She, Chunji Jin, Yangguo Zhao, Liang Guo, Qingbo Chang. Effect of oxytetracycline on performance and microbial community of an anoxic-aerobic sequencing batch reactor treating mariculture wastewater. *Rsc Advances*, 2015, 5, 53893–53904.

[13] Yuanyuan Li, Sen Wang*, Yue Li, Fanlong Kong, Houye Xi, Yanan Liu. Corn straw as a solid carbon source for the treatment of agricultural drainage water in horizontal subsurface flow constructed wetlands. *Water*, 2018, 10(4):511.

[14] Sen Wang, Mengchun Gao*, Zichao Wang, Zonglian She, Yanjun Xin, Dong Ma, Qingbo Chang, Zhiwei Li, Jian Zhang. Effect of COD/N ratio on performance and microbial community of a sequencing batch reactor treating saline wastewater. *Environmental Engineering and Management Journal*, 2018, 5(17), 1161–1168.

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community of an aerobic granular sequencing batch reactor. Separation and Purification Technology, 2015, 144: 223-231.

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[25] 王森, 任伶, 刘琳琳, 李颖, 张振, 孔范龙*. 纳米氧化锌粒径对人工湿地性能及微生物群落的影响, 环境科学, 2019, 40 (11).

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