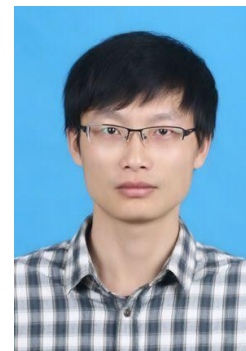


## Gang Zhao

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### **Education and Research Interest:**

Dr. Zhao received his Ph.D. from the College of Resources & Environment of Huazhong Agricultural University in 2013 and then joined Guangdong Institute of Microbiology. His research has been mainly focusing on fundamental and applied research in environmental microbiology. Current research projects examine the biogeochemical cycling of elements and redox transformations of pollutants in both natural and engineered systems. Research projects typically employ a series of cross-disciplinary and complementary techniques such as atomic force microscopy, bioelectrochemical system, X-ray diffraction and molecular microbiology for mineral-microbe interactions and extracellular electron transfer.

### **Selected Publications (last 3 years):**

1. Gang Zhao, Enze Li, Jianjun Li, Feifei Liu, Fei Liu and Meiyong Xu\*. Goethite hinders azo dye bioreduction by blocking terminal reductive sites on the outer membrane of *Shewanella decolorationis* S12, *Front. Microbiol.* 2019.
2. Gang Zhao, Enze Li, Jianjun Li, Fei Liu, Xunan Yang and Meiyong Xu\*. Effects of flavin-goethite interaction on goethite reduction by *Shewanella decolorationis* S12, *Front. Microbiol.* 2019.
3. Gang Zhao, Enze Li, Jianjun Li, Meiyong Xu\*, Qiaoyun Huang and Xingmin Rong\*. Effects of interfaces of goethite and humic acid-goethite complex on microbial degradation of methyl parathion, *Front. Microbiol.* 2018.

### **Research Grants (last 3 years):**

- National Natural Science Foundation of China, Mechanisms of anaerobic biodegradation of PAHs on microbes-mineral particles interfaces, 2016-2018 (PI)
- Natural Science Foundation of Guangdong Province, China, Adhesion characteristics of degrading bacteria on filler surface and its impact on VOCs degradation, 2016-2019 (PI)
- Guangzhou Municipal Science and Technology Project, Development and application of new BTF filler in VOCs biological treatment, 2017-2020 (PI)