

## **Guanyu Zheng**

### **Associate Professor of Department of Environmental Engineering**

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#### **Education:**

- Ph.D., Biology, Hong Kong Baptist University, China, 2011
- M.S., Environmental Engineering, Nanjing Agricultural University, China, 2007
- B.S., Microbiology, Nanjing Agricultural University, China, 2004

#### **Research interests and expertise:**

My research interests focus in the general fields of Environmental Engineering including treatment of sewage sludge, remediation of contaminated soils and environmental microbiology. I have published over 30 papers in peer-reviewed journals, such as Environmental Science and Technology, Water Research, etc. I have earned one First-Class Award for Technological Invention of MOE of China in 2016. Currently, I serve as editorial board member of Environmental Technology (Taylor & Francis, SCI journal).

#### **Current projects:**

- Degradation of PAHs in Sludge Bioleaching Process: Role of Fenton-like Reaction Catalyzed by Secondary Fe Minerals and Its Regulation, from National Natural Science Foundation of China
- Enhancing Sludge Dewaterability by Bioleaching Technique Based on the Cooperation between Filamentous Fungi and *Acidithiobacillus* sp., from National Natural Science Foundation of China

#### **Selected publications:**

1. Yan, S., **Zheng, G.**,\* Meng, X., Zhou, L., 2017. Assessment of catalytic activities of selected iron hydroxysulphates biosynthesized using *Acidithiobacillus ferrooxidans* for the degradation of phenol in heterogeneous Fenton-like reactions. Separation and Purification Technology, 185: 83-93.
2. **Zheng, G.**, Wang, Z., Wang, D., Zhou, L., 2016. Enhancement of Sludge Dewaterability by Sequential Inoculation of Filamentous Fungus *Mucor circinelloides* ZG-3 and *Acidithiobacillus ferrooxidans* LX5. Chemical Engineering Journal, 284: 216-223.
3. **Zheng, G.**, Huo, M., Zhou, L., 2015. Extracellular Polymeric Substances Level Decides

the Sludge Dewaterability in Bioleaching Process. Journal of Environmental Engineering-ASCE, DOI: 10.1061/(ASCE)EE.1943-7870.0001008.

4. **Zheng, G.**, Selvam, A., Wong, J.W.C., 2012. Enhanced solubilization and desorption of organochlorine pesticides (OCPs) from soil by oil-swollen micelles formed with a nonionic surfactant. Environmental Science & Technology, 46 (21): 12062-12068.
5. **Zheng, G.**, Zhou, L., Wang, S., 2009. An acid-tolerant heterotrophic microorganism role in improving tannery sludge bioleaching conducted in successive multibatch reaction systems. Environmental Science & Technology, 43 (11): 4151-4156.

**Prizes, awards, honors:**

First-Class Award for Technological Invention of MOE of China, 2016