

# Yonggang Yang

## ADDRESS

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## CONTACT INFORMATION:

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## EDUCATION:

2008-2011, **PhD**, South China University of Technology, Guangzhou, China

2005-2008, **MS**, Henan University of Technology, Zhengzhou, China

2001-2005, **BS**, Henan Institute of Science and Technology, Xinxiang, China

## ACADEMIC POSITIONS:

2017-present, Professor, Guangdong Institute of Microbiology, Guangzhou, China

2013-2017, Associate Professor, Guangdong Institute of Microbiology, Guangzhou,  
China

2011-2013, Postdoc, Guangdong Institute of Microbiology, Guangzhou, China

## AREAS OF RESEARCH INTEREST:

- Environmental microbiology;
- Microbial electrochemistry;

## Research Grants (2016-2019):

1. Natural Scientific Foundation of China, Long-distance electron transfer mechanism of the filamentous *Lysinibacillus varians* GY32, 2020-2023

2. Natural Scientific Foundation of China, The regulation and mechanisms of microbial electrode respiration on the electric field in contaminated sediments, 2016-2019
3. Natural Scientific Foundation of Guangdong for Outstanding Young Scholars, Microbial electron transfer networks in polluted water environments and their regulation strategies, 2016-2020

### **Honors & Awards**

1. The First Prize of Guangdong Award for Advances on Science and Technology, Guangdong Province, 2018.
2. The First Prize of Guangzhou Award for Advances on Science and Technology, Guangzhou City, 2016.
3. Award for Outstanding Young Scholars of Guangdong Province, 2016.
4. Award for Scientific and Technological Innovation Youth of Guangdong Province, 2014.

### **Representative publications (selected from 36 papers)**

1. **Yang Y.G.**, Yan L., Lin X., Li P., Xu M.Y.\*. Effects of unit distance and number on sediment microbial fuel cell stacks for practical power supply. *International Journal of Energy Research*. 2019, 43:7287–7295.
2. Fang Y., Liu J., Kong G. N., Liu X. D., **Yang Y. G.**, Li E. Z., Chen X. J., Song D., You X. J., Sun G. P., Guo J., Xu M. Y.\*. Adaptive responses of *Shewanella decolorationis* to toxic organic extracellular electron acceptor azo dyes in anaerobic respiration, *Applied and Environmental Microbiology*, 2019, 85(16): e00550-19.
3. **Yang Y.G.**, Kong G, Chen X, Lian Y, Liu W and Xu M\*. Electricity Generation by *Shewanella decolorationis* S12 without Cytochrome c. *Frontiers in Microbiology*. 2017, 8:1115.
4. **Yang Y. G.**, Xiang Y. B., Sun G. P., Wu W-M, Xu M. Y.\*. Electron acceptor-dependent respiratory and physiological stratifications in biofilms. *Environmental Science & Technology*, 2015, 49:196-202.

5. **Yang Y. G.**, Lu Z. J., Lin X. K., Xia C. Y., Sun G. P., Xu M. Y.\* , Enhancing the bioremediation by harvesting electricity from the heavily contaminated sediments, *Bioresource Technology*, 2015, 179: 615-618.
6. Xia C., Xu M., Liu J., Guo J., **Yang Y.G.** \*, Sediment microbial fuel cell prefers to degrade organic chemicals with higher polarity. *Bioresource Technology*, 2015, 190: 420-423.
7. **Yang Y.G.**, Xiang Y.B., Xu M.Y.\*, From red to green: the Propidium iodide-permeable membrane of *Shewanella decolorationis* S12 is repairable, *Scientific Reports*, 2015, 5:18583.
8. **Yang Y. G.**, Xiang Y. B., Xia C. Y., Wu W-M, Sun G. P., **Xu M. Y.\***, Physiological and electrochemical effects of different electron acceptors on bacterial anode respiration in bioelectrochemical systems, *Bioresource Technology*, 2014, 164: 270-275.
9. **Yang Y.G.**, Xu M.Y.\* , Guo J., Sun G.P., Bacterial extracellular electron transfer in bioelectrochemical systems. *Process Biochemistry*, 2012, 47:1707-1714.
10. **Yang Y. G.**, Sun G. P., Guo J., Xu M. Y. \*, Differential biofilms characteristics of *Shewanella decolorationis* microbial fuel cells under open and closed circuit conditions, *Bioresource Technology*, 2011, 102: 7093-7098.