

YINGXUE SUN

Visiting scholar, April 2015 – present

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Professional

- 2009 – present: Associate professor, Department of Environmental Science and Engineering, Beijing Technology and Business University
- 2007 – 2009: Postdoctoral fellow, School of Environment, Tsinghua University
- 1995 –2004: Lecturer, School of Environmental and Municipal Engineering, Lanzhou JiaoTong University

Education

- 2004 –2007: Ph.D. in Environmental Engineering, Tianjin University, China
- 1998 –2001: M. E. in Environmental Engineering, Lanzhou JiaoTong University, China
- 1991 –1995: B. E. in Water Supply and Sewerage Engineering, Lanzhou JiaoTong University, China

Research Interests

- Water quality control technologies for wastewater reclamation and reuse
- Advanced treatment process and disinfection of water and wastewater

Major Awards and Honors

- Award of *the Importation and Development of High-Caliber Talents Project of Beijing Municipal Institutions* (No. CIT&TCD201304032) by Beijing Education Commission. (2013 – 2015)
- Award of *China Postdoctoral Science Foundation* (No.20070420356) by China Post- Doctoral Council. (2007 – 2009)
- The first grade of *Technology Advancement Award on Beijing Landscaping and Greening* (No. 2010YLJB-4-1) by Beijing Institute of Landscape Architecture. (2010)
- Title of *Outstanding Teacher of Lanzhou JiaoTong University*. (2001)

Project Leadership

- Principal investigator in the research of “Characterization and safety control principle of chemical pollutants in reverse osmosis concentrate for wastewater reclamation” supported by *the National Natural Science Foundation of China* (No. 21306003). (2014 – 2016)
- Principal investigator in the research of “Formation mechanism and control principle of bromide disinfection by-products in seawater reverse osmosis desalting system” supported by *the Natural Science Foundation of Beijing, China* (No. 21306003). (2014 – 2016)
- Principal investigator in the research of “Characterization biofilm microbial community structure of a denitrifying biofilter by T-RFLP combined clone library” supported by *the Open Foundation of Chinese State Environmental Protection Key Laboratory of Microorganism Application and Risk Control* (No. SMARC2013D002). (2014 – 2015)
- Principal investigator in the research of “Study on the denitrifying biofilter by microbial community structure analysis and biochemical mechanism on denitrification” supported by *the Science and Technology Project of Beijing Municipal Institutions* (No. KM2012 10011004)”. (2012 – 2013)
- Core team member in the research of *National Key Technologies R&D Program* of “Technological Integration and Demonstration on the Urban-Rural Domestic Pollution Control and Ecological Construction (No.

2009BAD2B04)", Ministry of Science and Technology of China. (2009 – 2011)

- Core team member in the *National Key Technologies R&D Program* of "Development and Application of Integrated Technologies for Water Quality Management of Olympic Forest Park (No. 2007BAC22B02)", Ministry of Science and Technology of China. (2007 – 2009)

Academic Achievement

• *Published Book*

Yingxue Sun and Yuan Tian. 2011. *Principle and Application of Lightly Polluted Drinking Water Treatment*, ISBN: 978-7-122-10571-4, Chemical Industry Press, Beijing, China. (In Chinese)

• *Chapter in Book*

Yingxue Sun, Hongying Hu, Josef Lahnsteiner, Yu Bai, Yiping Gan, Ferdinand Klegraf. 2013. Chapter 23: Creation of a new recreational water environment: the Beijing Olympic Park, in *Milestones in Water Reuse: The Best Success Stories*, Editor(s): Valentina Lazarova, Takashi Asano, Akica Bahri, and John Anderson. International Water Association (IWA) Publishing. ISBN: 9781780400075, pp.273-282. (In English)

• *Articles published in International Refereed Journals*

- [1] Ying-Xue Sun, Yue Gao, Hong-Ying Hu, Fang Tang. 2014. Characterization and biotoxicity assessment of dissolved organic matter in RO concentrate from a municipal wastewater reclamation reverse osmosis system. *Chemosphere* 117, 545-551.
- [2] Fang Tang, Hongying Hu, Qianyuan Wu, Xin Tang, Yingxue Sun, Xiaolei Shi, Jingjing Huang. 2013. Effects of chemical agent injections on genotoxicity of wastewater in a microfiltration-reverse osmosis membrane process for wastewater reuse. *Journal of Hazardous Materials* 260, 231- 237.
- [3] Qianyuan Wu, Yi Li, Hongying Hu, Yingxue Sun, Fengyun Zhao. 2010. Reduced effect of bromide on the genotoxicity in secondary effluent of a municipal wastewater treatment plant during chlorination. *Environmental Science & Technology* 44(13), 4924-4929.
- [4] Qianyuan Wu, Hongying Hu, Zhao Xin, Yingxue Sun. 2009. Effect of chlorination on the estrogenic/anti-estrogenic activities of biologically treated wastewater. *Environmental Science & Technology* 43(13), 4940-4945.
- [5] Yingxue Sun, Qianyuan Wu, Hongying Hu. 2009. Effect of bromide on the formation of disinfection by-products during wastewater chlorination. *Water Research* 43(9), 2391- 2398.
- [6] Yingxue Sun, Qianyuan Wu, Hongying Hu, Jie Tian. 2009. Effect of ammonia on the formation of THMs and HAAs in secondary effluent chlorination. *Chemosphere* 76(5), 631-637.
- [7] Yingxue Sun, Qianyuan Wu, Hongying Hu, Jie Tian. 2009. Effects of operating conditions on THMs and HAAs formation during wastewater chlorination. *Journal of Hazardous Materials* 168(2-3), 1290-1295.
- [8] Songliu Lu, Hongying Hu, Yingxue Sun, Jia Yang. 2009. Effect of carbon source on the denitrification in constructed wetlands. *Journal of Environmental Sciences* 21(8), 1036-1043.
- [9] Yingxue Sun and Ping Gu. 2007. Determination of haloacetic acids in hospital effluent after chlorination by ion chromatography. *Journal of Environmental Sciences* 19(7), 885-891.