

Li Xu

Associate Professor of soil and ecology

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Education:

- Ph. D.; Institute of soil sciences, Chinese academy of sciences; 2008
- M. S.; College of life sciences, Nanjing normal university; 2005
- B. A.; College of life sciences, Nanjing normal university; 2002

Research interests and expertise:

My research focuses on the bioremediation processes including phytoremediation and bioaugmentation used to treat contaminated soils, especially for the persistent organic pollutants polluted soils. Meanwhile, the changes of the structure, diversity and activities of soil microbial communities are also explored. Currently, ecotoxicity testing with the important terrestrial organisms-earthworms is also of my interesting.

Current teaching:

- Soil and fertility,
- Pollution ecology,
- Experiments of ecology.

Selected publications:

- Lihao Zhang, Nannan He, Dali Chang, Xiaoya Liu, Xuhui Zhang, Yuanzhou Xu, Chenyu Zhao, Jing Sun, Weiming Li, Huixin Li, Feng Hu, Li Xu*. Does ecotype matter? The influence of ecophysiology on benzo[a]pyrene and cadmium accumulation and distribution in earthworms. *Soil Biology and Biochemistry*, 2018, 121, 24-34
- Jiaguo Jiao, Kun Shi, Peng Li, Zhen Sun, Dali Chang, Xueshan Shen, Di Wu, Xiuchao Song, Manqiang Liu, Huixin Li, Feng Hu, Li Xu*. Assessing of an irrigation and fertilization practice for improving rice production in the Taihu Lake region (China). *Agricultural Water Management*, 2018, 201: 91-98
- Lihao Zhang, Xiaochen Duan, Nannan He, Xu Chen, Jinli Shi, Weiming Li, Li Xu*, Huixin Li. Exposure to lethal levels of benzo[a]pyrene or cadmium trigger distinct protein expression patterns in earthworms (*Eisenia fetida*). *Science of the Total Environment*, 2017, 595: 733-742
- Xiaochen Duan, Xiuyong Fu, Jing Song, Huixin Li, Mingming Sun, Feng Hu, Li Xu*, Jiaguo Jiao*. Physiological and molecular responses of the earthworm *Eisenia fetida* to polychlorinated biphenyl contamination in soil. *Environmental Science and Pollution Research*, 2017, 24(22): 18096-18105
- Li Xu, Xiong Chen, Huixin Li, Feng Hu, Mingxiang Liang*. Characterization of the biosorption and biodegradation properties of *Ensifer adhaerens*: A potential agent to remove polychlorinated biphenyls from contaminated water. *Journal of Hazardous*

Materials, 2016, 302(25): 314–322