

Xuhui Zhang

Professor of Soil Science

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Education:

- Bachelor, Nanjing Agricultural University, 1999
- Ph.D., Nanjing Agricultural University, 2005

Research interests and expertise:

- Soil C changes under environmental change

Current projects:

- Effects of heavy metal pollution on the stability of soil organic carbon, NSFC, 2015-2018

Current teaching:

- Soil Science, ARGE3104, spring term
- Experiment in Resource and Environmental Analysis I (Soil Science) , spring term
- Global Change, ARGE3113, autumn term
- General Introduction to Soil-Fertilizer Science, ARGE3001, autumn term
- Laboratory Course in General Introduction to Soil- Fertilizer Science, ARGE3002, autumn term

Selected publications:

- Chen J, He F, Zhang X*, Sun X, Zheng J, Zheng J, Heavy metal pollution decreases microbial abundance, diversity and activity within particle-size fractions of a paddy soil, FEMS Microbiol Ecol, 2014, 87(1): 164-181
- Song X, Li L, Pan G*, Zhang X, Zheng J, Hussain Q, Han X, Yu X., Sequestration of maize crop straw C in different soils: role of oxyhydrates in chemical binding and stabilization as recalcitrance, Chemosphere, 2012, 87(6): 649-654
- Hussain Q, Liu Y, Zhang A, Pan G*, Li L, Zhang X, Song X, Cui L, Jin Z. Variation of bacterial and fungal community structures in the rhizosphere of hybrid and standard rice cultivars and linkage to CO₂ flux, FEMS Microbial Ecology, 2011, 78(1): 116-128
- Liao Q, Zhang X, Li Z, Pan G*, Smith P, Jin Y, Wu X. Increase in soil organic carbon stock over the last two decades in China's Jiangsu Province. Global Change Biology, 2009, 15:861-875
- Zhang X, Li L, Pan G*, Topsoil organic carbon mineralization and CO₂ evolution of three paddy soils from South China and the temperature dependence. Journal of Environmental Sciences, 2007, 19:319-326

Prizes, awards, honors:

- Excellence award for teaching quality, Nanjing Agricultural University, 2017