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教育经历:

南京工学院无线电工程系, 主修测量与仪器技术(1978年10月-1982年7月)

工作经历:

中国科学院南京土壤研究所(1982年8月-)

中国科学院南京土壤研究所, 高级工程师(1995-2008)

中国科学院南京土壤研究所, 正高级工程师(2009)

科研项目[TOP](#)

设计制造水盐动态模拟实验数据采集监测系统(1986-1989)

合作研究土壤温室气体数据采集(1993年7月-9月)

合作研究土壤氮素(2000年7月-12月)

主持二氧化碳FACE实验平台系统工作(2001-)

设计建立了臭氧FACE实验平台系统(2007-)

著作论文[TOP](#)

- Hongliang Ma, Jianguo Zhu, Zubin Xie, Gang Liu, Qing Zeng, Yong Han. Responses of rice and winter wheat to free-air CO₂ enrichment(China FACE)at rice/wheat rotation system. *Plant Soil*, 2007, 294:37-146
- Hongliang Ma, Jianguo Zhu, Gang Liu, Zubin Xie, Yulong Wang, Lianxin Yang, Qing Zeng. Availability of soil nitrogen and phosphorus in a typical rice-wheat rotation system under elevated atmospheric [CO₂]. *Field Crops Research*, 2007, 100: 44-51
- Lianxin Yang, Jianye Huang, Hongjian Yang, Guichun Dong, HongjiangLiu, Gang Liu, Jianguo Zhu, Yulong Wang. Seasonal changes in the effects of free-air CO₂enrichment (FACE) on nitrogen (N) uptake and utilization of rice at three levels of N fertilization. *Field Crops Research*, 2007, 100:189-199
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- Lianxin Yang, Yulong Wang, Jianye Huang, Jianguo Zhu, Hongjie Yang, Gang Liu, Hongjiang Liu, Guichun Dong, Jian Hu. The impact of free-air CO₂ enrichment(FACE) and nitrogen supply on grain quality of rice. *Field Crops Research*, 2007, 102: 128-140
- Zubin Xie, Jianguo Zhu, Gang Liu, Chunmei Chen, Hui Feng Sun, Haoyan Tang, Qing Zeng. Soil organic carbon stocks in China and changes from 1980s to 2000s. *Global Change Biology*, 2007, 13(9), 1989-2007

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8. Tang HY, Liu G, Han Y, et al.. A system for free-air ozone concentration elevation with rice and wheat: Control performance and ozone exposure regime. *Atmospheric Environment*, 2011, 45(35): 6276-6282.
9. Ji Y, Liu G, Ma J, Xu H, Yagi K. Effect of controlled-release fertilizer on nitrous oxide emission from a winter wheat field. *Nutrient Cycling in Agroecosystems*, 2012, 94(1): 111-122
10. Zhang GB, Ji Y, Ma J, Liu G, Xu H, Yagi K. Pathway of CH₄ production, fraction of CH₄ oxidized, and ¹³C isotope fractionation in a straw incorporated rice field. *Biogeosciences Discuss.*, 2012, 9: 14175-14215

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