



INSTITUTE OF AGRICULTURAL RESOURCES  
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### Research Interests

- Understand nitrogen cycling in agricultural systems
- Harness soil biological fertility through green manure/cover crops
- Integrated soil-crop system management

### Publication

Quantifying soil N pools and N<sub>2</sub>O emissions after application of chemical fertilizer and straw to a typical chernozem soil, *Biology Fertility Soils*, 2020, DOI: 10.1007/s00374-019-01422-2

Diazotroph abundance and community structure are reshaped by straw return and mineral fertilizer in rice-rice-green manure rotation, *Applied Soil Ecology*, 2019, DOI: 10.1016/j.apsoil.2018.12.015

Integrated application of February Orchid (*Orychophragmus violaceus*) as green manure with chemical fertilizer for improving grain yield and reducing nitrogen losses in spring maize system in northern China, *Journal of Integrative Agriculture*, 2015, DOI: 10.1016/S2095-3119(15)61212-6

Integrated soil-crop system management for food security, *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*, 2011, DOI: 10.1073/pnas.1101419108



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**Evaluation of NASA Satellite- and Model-Derived Weather Data for Simulation of Maize Yield Potential in China**, Agronomy Journal, 2010, DOI: 10.2134/agronj2009.0085

**Screening of drought-resistance index and drought-resistance evaluation of common vetch (*Vicia sativa* L.) germplasm at germination stage(CN)**, Journal of Plant Nutrition and Fertilizers, 2020, DOI: 10.11674/zwyf.20498

**Effects of different nitrogen supply levels on the yield of *Orychopragmus violaceus*, soil residual inorganic nitrogen, and nitrogen balance(CN)**, Chinese Journal of Applied Ecology, 2018, DOI: 10.13287/j.1001-9332.201810.030

**Nutrient characteristics of four kinds of winter green manure and their influences on soil mineral nitrogen before incorporation(CN)**, Plant Nutrition and Fertilizer Science, 2013, DOI: 10.11674/zwyf.2013.0218

**Effect and mechanism of green manure application in red soil of rice planting region-revelation from the long-term winter green manure double cropping rice rotation in Hunan Province (CN)**, Beijing/China Agriculture Publishing & Media Ltd, 2019, ISBN: 978-7-109-25773-3

**Theory and practice of nutrient resource management in wheat-maize rotation system (CN)**, Beijing/China Agriculture University Publishing & Media Ltd, 2006, ISBN: 7-81117-098-1