



INSTITUTE OF AGRICULTURAL RESOURCES
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Research Interests

- **Biological nitrogen fixation of legume green manure**
- **Activating insoluble phosphorus of green manure**
- **Germplasm resources of green manure crops**

Publication

The chromosome-level genome assembly of *Astragalus sinicus* and comparative genomic analyses provide new resources and insights for understanding legume-rhizobial interactions, *Plant Communications*, 2022, DOI: 10.1016/j.xplc.2021.100263

Co-incorporating leguminous green manure and rice straw drives the synergistic release of carbon and nitrogen, increases hydrolase activities, and changes the composition of main microbial groups, *Biology and Fertility of Soils*, 2021, DOI: 10.1007/s00374-021-01547-3

Spectroscopic characteristics of water-extractable organic matter from different green manures, *Environmental Technology*, 2020, DOI:10.1080/09593330.2020.1738560

Archaea are the predominant and responsive ammonia oxidizing prokaryotes in a red paddy soil receiving green manures, *European Journal of Soil Biology*, 2018, DOI: 10.1016/j.ejsobi.2018.05.008



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Effects of incorporating Chinese milk vetch on reductive material characteristics and greenhouse gas emissions in paddy soil (CN) , Acta Prataculturae Sinica, 2018, DOI: 10.11686/cyxb2018029

Effects of planting and incorporation of Chinese milk vetch coupled with application of chemical fertilizer on active organic carbon and nitrogen in paddy soil (CN) , Acta Pedologica Sinica, 2017, DOI:10.11766/trxb201607050273

Long-Term Difference Fertilizations Changed the Chemical and Spectrum Characteristics of DOM of the Irrigation-Desert Soil in North-Western China (CN) , Spectroscopy and Spectral Analysis, 2016

Effects of Green Manures on Soil Dissolved Organic Matter in Moisture Soil in North China (CN) , Spectroscopy and Spectral Analysis, 2017

Nitrogen fixation and transfer efficiency of common vetch and hairy vetch in wheat-vetch intercropping system in northwest China (CN) , Journal of Plant Nutrition and Fertilizers, 2020, DOI: 10.11674/zwyf.20387

Symbiotic compatibility among different rhizobia strains and main Chinese milk vetch (*Astragalus sinicus*) cultivars (CN) , Acta Pedologica Sinica, 2022