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Research Interests

- The returning of organic residues to fields
- Enhanced efficiency fertilizer
- Developing the fertilizer-recommendation method
- Impact of nutrient losses from fields on the environment
- The input limit of chemical N fertilizer

Publication

Optimizing rates and sources of nutrient input to mitigate nitrogen, phosphorus, and carbon losses from rice paddies, Journal of Cleaner Production, DOI: 10.1016/j.jclepro.2020.120603

Estimating regional N application rates for rice in China based on target yield, indigenous N supply, and N loss, Environmental Pollution, 2020, DOI: 10.1016/j.envpol.2020.114408

Improving yield and nitrogen use efficiency through alternative fertilization options for rice in China: A meta-analysis, Field Crops Research, 2018, DOI: 10.1016/j.fcr.2018.08.001



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Contribution and fate of maize residue-15N and urea-15N as affected by N fertilization regime,
PLoS ONE, 2019, DOI: 10.1371/journal.pone.0210176

**Bioavailability and fate of nitrogen from 15N-labeled corn straw as affected by nitrogen
management and straw microbial inoculants(CN),** Scientia Agricultura Sinica, 2016, DOI:
10.3864/j.issn.0578-1752.2016.14.007