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Research Interests

- Simulation for the cycle of carbon and nitrogen in soil of agro-ecosystem
- Global climate change and biogeochemistry cycle
- Agroecological environment quantitative evaluation
- Regional agricultural development and the management and utilization of agricultural resources
- Soil fertilizers training

Publication

Management practices to improve economic benefit and decrease greenhouse gas intensity in a green onion-winter wheat relay intercropping system in the North China Plain, Journal of Cleaner Production, 2019, DOI: 10.1016/j.jclepro.2018.10.122

Effect of full substituting compound fertilizer with different organic manure on reactive nitrogen losses and crop productivity in intensive vegetable production system of China, Journal of Environmental Management, 2019, DOI: 10.1016/j.jenvman.2019.05.026

Substituting organic manure for compound fertilizer increases yield and decreases NH₃ and N₂O emissions in an intensive vegetable production systems, Science of the Total Environment, 2019,



DOI: 10.1016/j.scitotenv.2019.03.191

Impacts of nitrogen management and organic matter application on nitrous oxide emissions and soil organic carbon from spring maize fields in the North China Plain, Soil & Tillage Research, 2020, DOI: 10.1016/j.still.2019.104441

Multiple-year nitrous oxide emissions from a greenhouse vegetable field in China: Effects of nitrogen management, Science of the Total Environment, 2018, DOI: 10.1016/j.scitotenv.2017.10.206

Different characteristics of greenhouse gases and ammonia emissions from conventional stored dairy cattle and swine manure in China, Science of the Total Environment, 2020, DOI: 10.1016/j.scitotenv.2020.137693

Assessment of nitrogen hotspots induced by cropping systems in the Bohai Rim region in China by integrating DNDC modelling and the reactive nitrogen spatial intensity (NrSI) framework, Environmental Research Letters, 2005, DOI: 10.1088/1748-9326/abb052

Assessing impacts of nitrogen management on nitrous oxide emissions and nitrate leaching from greenhouse vegetable systems using a biogeochemical model, Geoderma, 2020, DOI: 10.1016/j.geoderma.2020.114701

Characteristic of black soil respiration and its influencing factors under long-term fertilization regimes(CN), Transactions of the Chinese Society of Agricultural Engineering, 2018, DOI: 10.11975/j.issn.1002-6819.2018.04.018

Emission of NH₃ and N₂O from Spinach Field Treated with Different Fertilizers, ENVIRONMENTAL SCIENCE, 2018, DOI: 10.13227/j.Hjlx.201803005

Agricultural Sources of Greenhouse Gas Monitoring Technology Research Procedures and Control Technology(CN), Beijing/China Science Press. 2016, ISBN: 978-7-03-046680-8

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