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Research Interests

- **Fertilizer recommendation methodology and approach**
- **Nutrient management and soil health**
- **Crop-soil modelling and nutrient optimization**

Publication

Cutting environmental footprints of maize systems in China through Nutrient Expert management, Journal of Environmental Management, 2021, DOI: 10.1016/j.jenvman.2021.111956

Assessing the impacts of diversified crop rotation systems on yields and nitrous oxide emissions in Canada using the DNDC model, Science of the Total Environment, 2021, DOI: 10.1016/j.scitotenv.2020.143433

Identifying the critical nitrogen application rate for optimum yield and minimum nitrate leaching in a typical field radish system in China, Environmental Pollution, 2021, DOI: 10.1016/j.envpol.2020.115004

Estimation of nitrogen supply for winter wheat production through a long-term field trial in China, Journal of Environmental Management, 2020, DOI: 10.1016/j.jenvman.2020.110929



Space-time statistical analysis and modelling of nitrogen use efficiency indicators at provincial scale in China, European Journal of Agronomy, 2020, DOI: 10.1016/j.eja.2020.126032

Optimizing rates and sources of nutrient input to mitigate nitrogen, phosphorus, and carbon losses from rice paddies, Journal of Cleaner Production, 2020, DOI: 10.1016/j.jclepro.2020.120603

Substituting ecological intensification of agriculture for conventional agricultural practices increased yield and decreased nitrogen losses in North China, Applied Soil Ecology, 2020, DOI: 10.1016/j.apsoil.2019.103395

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Estimating Nutrient Uptake Requirements for Potatoes Based on QUEFTS Analysis in China, Agronomy Journal, 2019, DOI: 10.2134/agronj2018.09.0572

Establishment and Validation of Nutrient Expert System for Radish Fertilization Management in China, Agronomy Journal, 2019, DOI: 10.2134/agronj2019.01.0005

Fertilizer recommendation based on yield response and agronomic efficiency (CN), Beijing/China Science Publishing & Media Ltd., 2018, ISBN: 978-7-03-054994-5

Principle and application of fertilizer nutrient recommendation (CN), Beijing/China Science, Publishing & Media Ltd., 2021, ISBN: 978-7-03-067983-3

Fertilizer saving and efficiency improvement in intensified farmland (CN), Beijing/China Science, Publishing & Media Ltd., 2012, ISBN: 978-7-03-032652-2