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Research Interests

- Agricultural Non-point source pollution control
- Phosphorus sorption materials
- Carbon and phosphorus cycling in farmland ecosystem

Publication

Irrigation and nitrogen fertiliser optimisation in protected vegetable fields of northern China: Achieving environmental and agronomic sustainability, Journal of Integrative Agriculture, 2024, DOI: 10.1016/j.jia.2023.12.019

Understanding phosphorus mobilization mechanisms in acidic soil amended with calcium-silicon-magnesium-potassium fertilizer, Science of the Total Environment, 2024, DOI: 10.1016/j.scitotenv.2024.170294

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Higher maize yields and lower ammonia emissions by replacing synthetic nitrogen fertiliser with manure in the North China plain, Nutrient Cycling in Agroecosystems, 2022, DOI: 10.1007/s10705-022-10252-y

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Leached phosphorus apportionment and future management strategies across the main soil areas and cropping system types in northern China, Science of the Total Environment,2022, DOI: 10.1016/j.scitotenv.2021.150441

Alum split applications strengthened phosphorus fixation and phosphate sorption in high legacy phosphorus calcareous soil, Journal of Environmental Sciences, 2021, DOI: 10.1016/j.jes.2020.08.007

Investigation of differential levels of phosphorus fixation in dolomite and calcium carbonate amended red soil, Journal of The Sciences of Food and Agriculture, 2021, DOI: 10.1002/jsfa.11405

Understanding phosphate sorption characteristics of mineral amendments in relation to stabilising high legacy P calcareous soil, Environmental Pollution, 2020, DOI: 10.1016/j.envpol.2020.114175

Strategic differences in phosphorus stabilization by alum and dolomite amendments in calcareous and red soils, Environmental Science and Pollution Research, 2019, DOI: 10.1007/s11356-018-3968-9

Fertigation combined with catch crop maximize vegetable yield and minimize N and P surplus, Nutrient Cycling in Agroecosystems, 2018, DOI: 10.1007/s10705-018-9932-8

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