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Research Interests

- **Long-term soil nutrient (C, N, P and K) cycle**
- **Fertilization and environment (greenhouse gas)**
- **Soil fertility and improvement**

Publication

Links between potassium of soil aggregates and pH levels in acidic soils under long-term fertilization regimes, Soil and Tillage Research, 2020, DOI: 10.1016/j.still.2019.104480

Yield sustainability, soil organic carbon sequestration and nutrients balance under long-term combined application of manure and inorganic fertilizers in acidic paddy soil, Soil and Tillage Research, 2020, DOI: 10.1016/j.still.2019.104569

Interaction of liming and long-term fertilization increased crop yield and phosphorus use efficiency (PUE) through mediating exchangeable cations in acidic soil under wheat-maize cropping system, Scientific Reports, 2020, DOI: 10.1038/s41598-020-76892-8

Response of soil aggregate-associated potassium to long-term fertilization in red soil, Geoderma, 2019, DOI: 10.1016/j.geoderma.2019.06.007

The links between potassium availability and soil exchangeable calcium, magnesium, and

aluminum are mediated by lime in acidic soil, Journal of Soils and Sediments, 2019, DOI: 10.1007/s11368-018-2145-6

Tillage practices improve rice yield and soil phosphorus fractions in two typical paddy soils, Journal of Soils and Sediments, 2019, DOI: 10.1007/s11368-019-02468-3

Partial substitution of chemical fertilizers with organic amendments increased rice yield by changing phosphorus fractions and improving phosphatase activities in fluvo-aquic soil, Journal of Soils and Sediments, 2020, DOI: 10.1016/j.still.2019.04.009

Soil nutrients and heavy metal availability under long-term combined application of swine manure and synthetic fertilizers in acidic paddy soil, Journal of Soils and Sediments, 2020, DOI: 10.1007/s11368-020-02576-5

Soil microbial biomass and extracellular enzymes regulate nitrogen mineralization in a wheat-maize cropping system after three decades of fertilization in a Chinese Ferrosol, Journal of Soils and Sediments, 2020, DOI: 10.1007/s11368-020-02770-5

Soil carbon (C), nitrogen (N) and phosphorus (P) stoichiometry drives phosphorus lability in paddy soil under longterm fertilization: A fractionation and path analysis study, PLOS ONE, 2019, DOI: 10.1371/journal.pone.0218195