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Research Interests

- Agricultural non-point source pollution
- Carbon & Nitrogen cycling in farmland ecosystem

Publication

A critical review on livestock manure biorefinery technologies: sustainability, challenges, and future perspectives, Renewable & Sustainable Energy Reviews, 2021, DOI: 10.1016/j.rser.2020.110033

Life cycle assessment of anaerobic digestion of pig manure coupled with different digestate treatment technologies, Environment International, 2020, DOI: 10.1016/j.envint.2020.105522

Plastic pollution in croplands threatens long-term food security, Global Change Biology, 2020, DOI: 10.1111/gcb.15043

A multi-criteria evolutionary-based algorithm as a regional scale decision support system to optimize nitrogen consumption rate: A case study in North China Plain, Journal of Cleaner Production, 2020, DOI: 10.1016/j.jclepro.2020.120213

Human waste anaerobic digestion as a promising low-carbon strategy: Operating performance, microbial dynamics and environmental footprint, JOURNAL OF CLEANER PRODUCTION, 2020, DOI: 10.1016/j.jclepro.2020.120414



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The overlooked role of diffuse household livestock production in nitrogen pollution at the watershed scale, Journal of Cleaner Production, 2020, DOI: 10.1016/j.jclepro.2020.122758

Co-culture of rice and aquatic animals: An integrated system to achieve production and environmental sustainability, Journal of Cleaner Production, 2020, DOI: 10.1016/j.jclepro.2019.119310

CN-China:Revised runoff curve number by using rainfall-runoff events data in China, Water Research, 2020, DOI: 10.1016/j.watres.2020.115767

Characteristics of nitrogen losses from a paddy irrigation-drainage unit system, Agriculture, Ecosystems & Environment, 2019, DOI: 10.1016/j.agee.2019.106629

Effect of irrigation-drainage unit on phosphorus interception in paddy field system, Journal of Environmental Management, 2019, DOI: 10.1016/j.jenvman.2019.01.059