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### Research Interests

- Resourcing by waste recycling
- Antibiotic reduction in the environment
- Agricultural resources and environment

### Publication

The in-feed antibiotic use changed the behaviors of oxytetracycline, sulfamerazine, and ciprofloxacin and related antibiotic resistance genes during swine manure composting, Journal of Hazardous Materials, 2021, DOI: 10.1016/j.jhazmat.2020.123710

Changes in microbial community structure during pig manure composting and its relationship to the fate of antibiotics and antibiotic resistance genes, Journal of Hazardous Materials, 2020, DOI: 10.1016/j.jhazmat.2020.122082

Fe<sup>3+</sup> enhanced degradation of oxytetracycline in water by pseudomonas, Water Research, 2019, DOI: 10.1016/j.watres.2019.05.058

Screening and degradation characteristics of a tylosin-degrading strain, Journal of Integrative Agriculture, 2020, DOI: 10.1016/S2095-3119(19)62764-4

Changes in arsenic and copper bioavailability and oxytetracycline degradation during the



**composting process**, *Molecules*, 2019, DOI: 10.3390/molecules24234240

**Uptake, translocation and distribution of three veterinary antibiotics in Zea mays L**,  
*Environmental Pollution*, 2019, DOI: 10.1016/j.envpol.2019.03.110

**Dynamics of oxytetracycline, sulfamerazine, and ciprofloxacin and related antibiotic resistance genes during swine manure composting**, *Journal of Environmental Management*, 2019, DOI: 10.1016/j.jenvman.2018.09.074

**Effects of the natural colloidal particles from one freshwater lake on the photochemistry reaction kinetics of ofloxacin and enrofloxacin**, *Environmental Pollution*, 2018, DOI: 10.1016/j.envpol.2018.06.017

**Quantitative models for predicting adsorption of oxytetracycline, ciprofloxacin and sulfamerazine to swine manures with contrasting properties**, *Science of the Total Environment*, 2018, DOI: 10.1016/j.scitotenv.2018.04.114

**Dynamics of bacterial composition and the fate of antibiotic resistance genes and mobile genetic elements during the co-composting with gentamicin fermentation residue and lovastatin fermentation residue**, *Bioresource Technology*, 2018, DOI: 10.1016/j.biortech.2018.04.008

**Environmental behavior and ecotoxicological effects of typical veterinary antibiotics(CN)**, Beijing/Science Press, 2020, ISBN: 978-7-03-066326-9