

Wang Meng



Research Interests

- •Speciation and transformation of heavy metals in soil
- •Heavy metal uptake, translocation and detoxification in crops
- •Remediation of contaminated soil

Publication

Microbial mechanisms responsible for the variation of soil Cd availability under different pe+pHenvironments,EcotoxicologyandEnvironmentalSafety,2020,DOI:10.1016/j.ecoenv.2020.111057

Responses of soil microbial communities and their network interactions to saline-alkalinestressinCd-contaminatedsoils,EnvironmentalPollution,2019,DOI:10.1016/j.envpol.2019.06.082

The responses of a soil bacterial community under saline stress are associated with Cd availability in long-term wastewater-irrigated field soil, Chemosphere, DOI: 2019,10.1016/j. chemosphere.2019.124372

Responses of soil aggregates and bacterial communities to soil-Pb immobilization induced by biofertilizer, Chemosphere, 2019, DOI: 10.1016/j.chemosphere.2018.12.214

Saline stress modifies the effect of cadmium toxicity on soil archaeal communities,



INSTITUTE OF AGRICULTURAL RESOURCES AND REGIONAL PLANNING , CAAS

Ecotoxicology and Environmental Safety, 2019, DOI: 10.1016/j.ecoenv.2019.109431

Manipulation of the rhizosphere bacterial community by biofertilizers is associated with mitigation of cadmium phytotoxicity, Science of the Total Environment, 2018, DOI: 10.1016/j.scitotenv. 2018.08.174

Foliar spraying of melatonin confers cadmium tolerance in Nicotiana tabacum L, Ecotoxicology and Environmental Safety, 2019, DOI: 10.1016/j.ecoenv.2018.11.127

Iron fractions responsible for the variation of Cd bioavailability in paddy soil under variable **pe+pH conditions**, Chemosphere. 2020, DOI: 10.1016/j.chemosphere.2020.126355

Microalgal cell disruption in a high-power ultrasonic flow system, Bioresource Technology, 2015, DOI: 10.1016/j.biortech.2015.06.040

Modeling bubble dynamics and radical kinetics in ultrasound induced microalgal cell disruption, Ultrasonics Sonochemistry, 2016, DOI: 10.1016/j.ultsonch.2015.06.025

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Concept and types of bioremediation // In: HANDBOOK OF BIOREMEDIATION: Physiological, Molecular and Biotechnological Interventions, Academic Press/Elsevier, USA. 2020, ISBN: 978-0-12- 819382-2