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Research Interests

- **Transport and fate of hazardous materials in agro-environment**
- **Harmful effects of chemicals and materials**
- **Monitoring of hazardous materials and risk assessment in agro-environment**
- **Removal technology of contaminants**
- **Emerging contamination**

Publication

Source apportionment of heavy metals in sediments and soils in an interconnected river-soil system based on a composite fingerprint screening approach, Journal of Hazardous Materials, 2021, DOI: 10.1016/j.jhazmat.2021.125125

A coupled optimization of groundwater remediation alternatives screening under health risk assessment: An application to a petroleum-contaminated site in a typical cold industrial region in Northeastern China, Journal of Hazardous Materials, 2021, DOI: 10.1016/j.jhazmat.2020.124796

Highly efficient photocatalytic degradation of oil pollutants by oxygen deficient SnO2 quantum dots for water remediation, Chemical Engineering Journal, 2021, DOI: 10.1016/j.cej.2020.127146

Size effects of tin oxide quantum dot gas sensors: from partial depletion to volume depletion, Journal of Materials Research and Technology, 2020, DOI: 10.1016/j.jmrt.2020.11.107

Application of biochar and its composites in catalysis, Chemosphere, 2020, DOI: 10.1016/j.chemosphere.2019.124842

Ball-milled biochar for galaxolide removal: Sorption performance and governing mechanisms, Science of the Total Environment, 2019, DOI: 10.1016/j.scitotenv.2019.01.005

Internalization and toxicity: A preliminary study of effects of nanoplastic particles on human lung epithelial cell, Science of the Total Environment, 2019, DOI: 10.1016/j.scitotenv.2019.133794

Fluorescence characteristics of aqueous synthesized tin oxide quantum dots for the detection of heavy metal ions in contaminated water, Nanomaterials, 2019, DOI: 10.3390/nano9091294