Special Issue

Mechanisms of Blocking, Controlling and Remediating Heavy Metal Pollution in Farmland

Message from the Guest Editors

Significant metal concentrations in soil (i.e. potentially toxic elements—PTEs) are a widespread problem, especially for the management of agricultural land. PTEs enter the soil and are persistent, with pollution accumulating. This results in a wider impact on the ecosystem; biological uptake within the soil biome and into the food chain as well as releases into soil–water systems. It presents a significant challenge to maintain and exploit soils for agriculture. Nature-based solutions to this issue are needed and are fundamental for sustainable development.

This Special Issue concerns the application of in situ techniques and nature-based solutions to tackle different concentrations of contaminants in farmland soils. We invite submissions of critical reviews and primary research papers addressing the impact of pollution on agricultural soils; strategies to manage and remediate PTEs; and long-term outlooks on regulation, food security, and public health. Ideally, these works should highlight sustainable development goals and the linkage between policy and public health.

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Deadline for manuscript submissions

closed (31 March 2025)

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