

Special Issue

Integrated Approaches to the Successful Remediation of Soils Polluted with Metal: Progress, Obstacles, and Sustainability Implications

Message from the Guest Editors

Soil pollution by metals poses a critical threat to ecosystem health, agricultural productivity, and food safety. Heavy metals can accumulate in soils to toxic levels, affecting soil fertility, microbial diversity, plant development, etc. Over recent decades, various remediation strategies (physical, chemical, and biological approaches) have been developed to address this issue. However, the complexity of soil systems and metal behavior often limits the effectiveness and sustainability of the remediation approaches. This Special Issue aims to gather advances in the development and application of integrated strategies for the remediation of metal-polluted soils. We welcome contributions that address scientific, technological, and practical challenges, including novel techniques, combined approaches, field-scale applications, and performance assessments. In addition, integrated and multidisciplinary methods are encouraged, particularly those that enhance remediation efficiency, minimize environmental impact, and promote long-term sustainability. Original research studies, reviews, and case studies are invited.

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