Special Issue

Soil Renaissance: Revitalizing Heavy Metal-Impacted Land Through Sustainable Remediation

Message from the Guest Editor

Heavy metal contamination poses a severe and persistent threat to agricultural productivity and human health. Addressing this environmental challenge demands innovative, effective, and sustainable strategies. This Special Issue seeks to compile cutting-edge research and comprehensive reviews that advance this vital field. We invite contributions exploring novel remediation technologies for heavy metal-contaminated soils. Studies that address the ecotoxicological impacts of heavy metals on soil health, plant physiology, and soil microbial communities are equally essential. Studies on the interplay between remediation techniques and soil health/function restoration, as well as the fate of co-contaminants, are also relevant. Moreover, we welcome research evaluating the long-term stability of immobilized metals, the environmental footprint of remediation processes, the potential for resource recovery, and economic feasibility. This Special Issue aims to serve as a pivotal resource for researchers, practitioners, and policymakers, accelerating the development of deployable solutions for restoring metal-contaminated land.

Guest Editor

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Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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