Special Issue

Advances in Heavy Metal Remediation Technologies

Message from the Guest Editors

Heavy metal contamination poses a threat to ecosystems and human health due to its toxicity, persistence, and bioaccumulation potential. Anthropogenic activities such as industrial discharges, mining, agricultural runoff, and improper electronic waste disposal have exacerbated the global burden of heavy metals in soil, water, and air. Despite advancements in remediation strategies, challenges remain in achieving efficient, cost-effective, and sustainable solutions, particularly for large-scale or complex contamination scenarios.

This Special Issue seeks contributions that explore innovative approaches and emerging technologies for heavy metal remediation. We welcome studies on novel materials, biological methods, and integrated engineering solutions. Research evaluating the ecological and socioeconomic impacts of remediation practices, policy frameworks for contamination management, or advancements in real-time monitoring and risk assessment tools is also encouraged. Both fundamental investigations and applied case studies are invited, with a focus on sustainability, and interdisciplinary synergies between environmental science, biotechnology, and engineering.

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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