Special Issue

Remediation of Heavy Metal Contaminated Water and Soil

Message from the Guest Editor

With the rapid development of economic society, many anthropogenic sources, including mining activities, agricultural activities, or industrial activities have greatly contributed to the high levels of heavy metals in aquatic and soil ecosystems, which are widely visible from local- to global-scale dimensionality. Accumulation of heavy metals in water and soil from anthropogenic sources could pose high environmental risks for the health of wildlife, plants, or humans. This has drawn increasing public attention worldwide, and remediation strategies of heavy-metal-contaminated water and soil are urgently needed. At present, there are many technological achievements and practical applications including physical, chemical, and biological methods. However, because the special instincts and behaviors of heavy metals in soil/sediment, combined with their large pollution area, these techniques are subject to many deficiencies in view of remediation efficiency, environmental friendliness, cost-effectiveness, and sustainability. These principles result in huge challenges for researchers in the practical remediation of heavy-metal-contaminated water and soil.

Guest Editor

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Deadline for manuscript submissions

closed (28 March 2023)

International Journal of Environmental Research and Public Health

an Open Access Journal by MDPI

CiteScore 8.5
Indexed in PubMed

mdpi.com/si/127350

International Journal of Environmental Research and Public Health
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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

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