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Remediation of Heavy Metal Contaminated Water and Soil

Guest Editor:

Prof. Dr. Tianrong He
Key Laboratory of Karst Georesources and Environment (Ministry of Education), Guizhou University, Guiyang 550025, China

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Message from the Guest Editor

Dear Colleagues,

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.

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Editor-in-Chief

Prof. Dr. Paul B. Tchounwou
RCMI Center for Urban Health Disparities Research and Innovation, Richard Dixon Research Center, Morgan State University, 1700 E. Cold Spring Lane, Baltimore, MD 21251, USA

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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International Journal of Environmental Research and Public Health Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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