Special Issue

Research Progress in Heavy Metal Migration and Transformation and Ecological Restoration

Message from the Guest Editor

Due to its high toxicity and nondegradability, heavy metal pollution has brought significant potential risks to food security and human health, which has received extensive attention in recent years. It is important to have a deep understanding of the migration and transformation of heavy metals between and within different environmental media (including artificial remediation materials) for effective prevention and control of heavy metal pollution, such as the transfer of heavy metals between different environmental media and interfaces, the stable isotope fractionation of heavy metals in the soil–plant system, and the migration and control mechanism of heavy metals in the soil–crop system. In view of its environmental friendliness, ecological remediation based on ecosystem theory, including phytoremediation, microbial remediation, biochar-enhanced remediation technologies, and so on has become widely popular for heavy metal pollution remediation and environment improvement. However, further exploring their mechanisms, environmental effects, and practical application is necessary.

Guest Editor

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Deadline for manuscript submissions

closed (15 September 2023)

International Journal of Environmental Research and Public Health

an Open Access Journal by MDPI

CiteScore 8.5
Indexed in PubMed

mdpi.com/si/150576

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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