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Monitoring Heavy Metal Pollution for Environmental Health and Safety

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Message from the Guest Editors

Dear Colleagues,

Environmental health and safety (EHS) is crucial for safeguarding human well-being and the environment. Heavy metals (HM), being toxic and possessing damaging attributes, are perilous for the environment. Long-term exposure to heavy metals can have serious health consequences and should be minimized. Heavy metals such as lead and arsenic can accumulate in the body over time, leading to various health issues. They can damage organs, disrupt biological processes, impair cognitive function, cause developmental abnormalities, and even lead to cancer. Consequently, priority research focus is on heavy metal exposure and environmental health; their ubiquitous presence, toxicity persistence, and cumulative effects; vulnerable populations; and establishing regulatory guidelines in various settings. Hence, it seems imperative to prioritize research on HM monitoring as a holistic approach to better understand exposure risks and human health effects, develop preventive measures, and establish effective regulations, to protect individuals, communities, and the ecosystem from the adverse effects of HM toxicity.

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Guest Editors



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Message from the Editor-in-Chief

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