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Heavy Metal Determination and Removal

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Message from the Guest Editors

The pollution of heavy metals is a special concern due to their non-biodegradability, persistence and tendency to accumulate in the environment. Several techniques have been reported for the removal of toxic heavy metal ions from aqueous solutions. Some of the methods are costly and inefficient in controlling the toxicity levels in wastewater, and all traditional techniques have advantages and disadvantages in terms of their effectiveness, cost, and environmental impact. Therefore, the development of efficient and cost effective material or a new technique for the detection and removal of heavy metal remains a challenging task for environmentalists. This Special Issue aims to present the latest research related to advanced techniques for the determination of heavy metal, and the development of a sustainable system for the removal of toxic metals from contaminated water. Research reports associated with the determination and removal of heavy metal from soil are also welcome.

Prof. Seung-Mok Lee
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Prof. Diwakar Tiwari
Guest Editors

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Special Issue

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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