

Special Issue

Sediment Contamination and Metal Removal from Wastewater

Message from the Guest Editors

This Special Issue aims to explore the challenges and advances in the field of sediment contamination and metal removal technologies from wastewater. The contamination of sediments by heavy metals and other toxic substances poses a major environmental concern, compromising the quality of aquatic ecosystems and human health. Furthermore, the effective treatment of wastewater remains a priority to minimize the impacts of industrial, agricultural, and urban activities. Articles submitted to this Special Issue will address topics such as

- The transport and accumulation mechanisms of metals in sediments.
- Advanced analytical techniques for characterizing metals and their forms in sediment matrices.
- The environmental and ecotoxicological impacts associated with metals in sediments.
- The development and optimization of wastewater treatment technologies for metal removal, such as adsorption, chemical precipitation, electrochemical processes, and biological treatments.
- Innovative and sustainable approaches for the recovery and valorization of extracted metals.
- Case studies illustrating integrated solutions for managing contaminated sediments and treating wastewater.

Guest Editors

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