Special Issue

Advanced Materials for Heavy Metal Adsorption in Wastewater Treatment

Message from the Guest Editors

Environmental pollution, particularly from heavy metal ions in wastewater, is one of the most serious concerns the world faces. Therefore, there is an urgent need for fast and efficient heavy metal removal technology that can respond to emergency heavy metal leakages quickly. At present, common heavy metal wastewater treatment technologies include chemical precipitation, membrane separation, coagulation–flocculation, and other physical, chemical, and biological methods. Sorption techniques are widely used to remove heavy metal ions from large volumes of aqueous solutions. The key to removing heavy metals by adsorption is the adsorbent; many adsorbents have been developed to remove different heavy metal ions from wastewater, especially those which are detrimental to living organisms. This Special Issue aims to gather original review articles on their application for the adsorption of heavy metal ions. Both new materials and novel applications of known materials are welcome.

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Deadline for manuscript submissions

20 February 2026

Separations

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.5

mdpi.com/si/244372

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