Special Issue

Recent Advances in Metals Removal/Recovery from Industrial Wastes

Message from the Guest Editor

Heavy metals are raw materials employed in numerous industrial processes. Their demand in the modern world is increasing exponentially owing to their extensive use in electronics and other manufactured products. However, heavy metals are one of the major pollutants in the industrial waste waters. Therefore, metal removal from wastewater and metal recovery from readily available products are important and timely concern. Various methods have been developed to achieve heavy metal removal from wastewater, such as ion exchange, reverse osmosis, chemical precipitation, solvent extraction, and membrane processes. However, these methods are expensive, tedious, and cause secondary pollution, which limits their industrial application. Many scientific studies have been conducted for the recovery of metals from wastes including sludges, slags, fly ashes, shales, spent catalysts, and spent liquors; industrial-scale treatments units have also been developed recently. We kindly invite researchers worldwide to showcase their research results (in forms of research article, reviews, and comments) on this topic.

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Deadline for manuscript submissions

closed (10 May 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/133706

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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