Special Issue

Recent Advances in the Environmental Remediation Using Zeolites and Other Adsorbent Materials (2nd Edition)

Message from the Guest Editor

Natural zeolites and their modified forms, synthetic zeolites, and other adsorbent materials have received considerable attention in environmental remediation due to their remarkable physical and chemical properties. Water treatment with the aid of zeolites and adsorbent materials is one of the oldest applications; however, at the same time, there are many perspectives related to its future developments. One of the most promising soil remediation techniques is in situ stabilization using adsorbing amendments to incorporate and immobilize heavy metals to reduce their bioavailability and transfer to the biota. Zeolites and other adsorbent materials have potential in the purification and separation of gases based on their ability to act as molecular sieves. All these applications are based on porous characteristics which provide them with high adsorption capacities and ion exchangers properties.

This Special Issue will cover various topics ranging from reports on the zeolites and other porous materials' characterization, modifications and synthesis and their applications in wastewater treatment, soil remediation, and purification and separation of gases.

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Deadline for manuscript submissions

20 December 2025

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/235601

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Message from the Editor-in-Chief

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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