Special Issue

Innovations in Adsorption Processes and Adsorbent Materials for Mineral Recovery and Environmental Remediation

Message from the Guest Editors

Mineral recovery and environmental remediation are among the most difficult tasks confronting modern science and engineering. Adsorption has emerged as a potential technology for addressing such crucial concerns, specifically environmental contamination removal and efficient metal recovery. However, ongoing advances in adsorption methods and the development of new adsorbent materials are required to improve the efficiency, sustainability, and industrial usability of these solutions. This Special Issue of Minerals will gather innovative research addressing the latest developments in adsorption processes and adsorbent materials, with a focus on mineral recovery and environmental remediation applications.

This Special Issue provides a forum for discussing sustainable and effective solutions to industrial and environmental concerns, while also encouraging multidisciplinary knowledge exchange across engineering, materials science, chemistry, and environmental sciences. Contributions that investigate the technological and environmental impact of materials and processes are strongly encouraged.

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About the Journal

Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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