Special Issue

Potentially Toxic Elements: Source, Distribution, Risk Assessment and Remediation

Message from the Guest Editors

This Special Issue will present research and review articles on potentially toxic elements (PTEs), with an emphasis on their sources and distribution in the environment, as well as the assessment of the risk they pose to ecosystems and human health. These elements include metals and metalloids that threaten the environment at high concentrations, especially in areas subject to anthropic activities such as agriculture, livestock, mining, industrialization and urbanization. Considering the proven risks of PTEs, knowledge of guiding values and the quantification of concentrations, contamination levels and risk indices are essential to mitigate the impacts of these contaminants and protect the environment. Potential topics for this Special Issue include, but are not limited to: PTE guiding values and background values; contamination by PTEs; environmental and human health risk assessment; the use of phytoremediation, organic residues and biochar in mitigating the impacts of PTEs; treatment of residues contaminated by PTEs; bioaccumulation and biomagnification of PTEs; bioavailability and bioaccessibility of PTEs.

Guest Editors

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Deadline for manuscript submissions

closed (26 July 2024)

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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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Journal Rank:

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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