

Special Issue

Mineralogy and Geochemistry of Sediments in Light of Environmental and Climate Changes

Message from the Guest Editors

Information on past environment and climate is generally well recorded in sedimentary rocks. In sediments in various environments, however, this information could be obscured by various and constant processes dictated by naturally or anthropogenically induced changes in natural conditions. These changes can significantly alter the physico-chemical conditions in sediments and, consequently, their mineralogy and geochemistry. The mineral and chemical composition of sediments can thus serve as a good tool to observe the impacts of environmental and climate changes. Furthermore, minerals in sediments are commonly carriers of potentially toxic elements (PTEs) of natural or anthropogenic origin. Thus, they also enable insights into the fate of PTEs and their solid carriers, as well as the assessment of their environmental impact. This Special issue aims to gain detailed insight into the mineralogical and geochemical characteristics of sediments in aquatic and terrestrial environments, including stream, suspended, lacustrine and marine sediments, and sediments in soils, bogs and caves.

Guest Editors

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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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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).