Special Issue

Geochemical and Mineralogical Characterization of Sediments in Aquatic Environments

Message from the Guest Editors

This Special Issue of Minerals discusses the indirect and direct factors affecting the ecological and toxicological characterization of aquatic sediments in recent and fossil geological records. It questions how climate change and Anthropocene activities indirectly and directly affect processes in sedimentation environments and whether their consequences can already be recorded and identified in the following recent environments: (i) Lacustrine sediments: what can we learn from the genesis of sediments in older geological records compared to recent lake/dam sedimentation environments? (ii) Lagoon sediments: how does climate change affect the sedimentation cycles and their mineral communities and trace elements concentration? (iii) Marine and river beds environments: what do the natural climate change records indicate, and can the data predict future sedimentation in the river deltas and their sediment characteristics? (iv) Cave sediments: in which cases can they be used as reference values to monitor changes in the environment, and can these sediments already be used as ecological indicators of the Anthropocene?

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Deadline for manuscript submissions

closed (30 September 2022)

Minerals

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CiteScore 4.1

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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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