Special Issue

Carbonate Petrology and Geochemistry

Message from the Guest Editors

The purpose of this Special Issue is to collect original research studies that can shed new light on the advances in stratigraphy, sedimentology, petrology, geochemistry, (paleo)climate, (pale)oceanography and hydrogeology of carbonate rocks and/or sediments. Contributions may embrace a broad spectrum of topics, because this Special Issue aims to show a comprehensive and up-to-date perspective of past and recent carbonates, whilst taking into account the fact that carbonate research is more focused on the assessment of processes and genetic relationships between textures and mineralogical, and geochemical compositions. Topics of interest include, but are not limited to, the following: 1) the architecture and interpretation of carbonate outcrops; 2) the diagenetic and geochemical controls regarding carbonate deposition; 3) carbonate rocks or sediments as an archive of ancient/recent (paleo)-environmental changes; 4) role of carbonates in (pale)oceanography and the global carbon cycle; 5) recognition of primary versus diagenetic overprint in carbonates; 6) carbonate significance as a source and reservoir rocks.

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Deadline for manuscript submissions

closed (18 October 2023)

Minerals

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Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/149195

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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).

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