Special Issue

Advances in Understanding the Incorporation and Preservation of Isotope Proxies

Message from the Guest Editor

The discussion of today's biodiversity crises has shifted from prevention to management, highlighting the need to understand the link between environmental and biodiversity changes. Rock and fossil records are the only available resources to investigate such a link on a long-term scale. Isotope proxies are used to reconstruct paleoclimate variability. However, past reconstructions' accuracy depend on a thorough understanding of the relevant controls of proxy behavior, such as diagenesis and vital effects. Hence, it is essential to understand the processes determining isotope signatures in rock and fossil records during their formation and post-deposition to reconstruct past climates and environments. This Special Issue invites submissions that include original scientific research relating to paleoenvironmental reconstructions utilizing isotope applications. We welcome submissions with insights on the following topics: (1) isotope fractionation during mineral precipitation; (2) fractionation behavior controlling the isotope signatures of fossils; and (3) post-depositional effects on the authigenic isotope signatures of rocks and fossils.

Guest Editor

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Deadline for manuscript submissions

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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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