Special Issue

Recent Advances in Bone Diagenesis

Message from the Guest Editors

In this Special Issue, we highlight recent groundbreaking advances in the study of diagenesis and the fossilization of bones, teeth, and other bioapatitic structures. Manuscripts are welcome which discuss topics including, but not limited to:
The transformation of bone from a living tissue to a stable fossil; Mineralogic transformations occurring during the fossilization of bones and teeth.; Novel applications of trace elements to understanding the diagenetic history of vertebrate fossils; New analytical approaches to studying the diagenesis of vertebrate remains; Results of new actualistic experiments concerning bone diagenesis; Recognition of diagenetic alterations to, and interpretation of, stable isotopic data from fossil bones, teeth, and other bioapatitic structures; Advances in constraining the types and timings of diagenetic events affecting vertebrate fossils; Microbial interactions with bone after death and burial; New insights into comparative taphonomy and diagenesis of bone in natural depositional environments (i.e., taphonomic modes); The molecular taphonomy of bones and teeth, including controls on biomolecule preservation within such fossils.

Guest Editors

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Deadline for manuscript submissions

closed (7 March 2025)

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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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