

## Special Issue

# Life and Carbonate: Biotic and Abiotic Fingerprints in Past and Recent Carbonate Sediments

### Message from the Guest Editors

Carbonate sediments yield important information for understanding the evolution of environments, climate, and life through geological times. Therefore, gaining a deeper understanding of carbonate deposits is essential for unravelling some of the most controversial issues in Earth's history, such as which biogeochemical processes characterized the earliest forms of life, what favored the proliferation of complex organisms, and how the biosphere and the geosphere have interacted through time. On the other hand, the identification of original biological and environmental fingerprints in carbonate sediments is complicated by post-depositional processes and the limited availability of modern analogs for some ancient geological periods. Important advances in the study of carbonate systems can come from the integration of different approaches and techniques of various disciplines, such as sedimentology, paleontology, geochemistry, and geobiology, among others. We invite the submission of contributions that address carbonate sediments and sedimentary processes from various perspectives in recent and past environments.

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### Guest Editors

Dr. Martino Giorgioni

Prof. Dr. Luca Basilone

Dr. Tomaso Bontognali

Prof. Dr. Luigi Jovane

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### Deadline for manuscript submissions

closed (28 February 2025)



## Minerals

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Impact Factor 2.2  
CiteScore 4.4



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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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### Editor-in-Chief

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