



## Carbonate Biomineralization, Environmental, and Diagenetic Significance

Guest Editors:

**Prof. Dr. Vincent V. Barbin**

GEGENAA, EA 3795, Université de  
Reims Champagne-Ardenne,  
51100 Reims, France

**Dr. Frédéric Marin**

UMR CNRS-EPHE 6282  
Biogéosciences, Université de  
Bourgogne-Franche-Comté, 6  
Boulevard Gabriel, 21000 Dijon,  
France

Deadline for manuscript  
submissions:

**closed (25 August 2022)**

### Message from the Guest Editors

Dear Colleagues,

Carbonate deposits usually originate from biomineralization and are frequently used in geochemistry to assess the composition of past seawater and environmental conditions. Therefore, understanding biomineralization and its diagenetic alterations is of prime interest for recording the world's history. Clearly, knowledge of biomineralization is crucial for the reconstruction of past environmental conditions and for the investigation on fossil records. Numerous new methods and apparatus have been developed in the last few years to investigate biominerals, i.e., their ultrastructures and composition. The importance of organic phases is now demonstrated, and the composite organization and the complex diagenetic evolution of biologically controlled mineralizations should be taken into account when environmental studies are performed. This Special Issue is dedicated to new insights into both calcium carbonate biomineralizations and their use as geochemical signatures.





## Editor-in-Chief

### **Prof. Dr. Leonid Dubrovinsky**

Bayerisches Geoinstitut,  
University Bayreuth, D-95440  
Bayreuth, Germany

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (*Mining & Mineral Processing*) / CiteScore - Q2 (*Geology*)

## Contact Us

---

*Minerals* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/minerals](http://mdpi.com/journal/minerals)  
[minerals@mdpi.com](mailto:minerals@mdpi.com)  
[X@Minerals\\_MDPI/](https://twitter.com/Minerals_MDPI/)