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Mineralogy and Geochemistry of Fossils

Guest Editor:

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Deadline for manuscript submissions:
31 March 2025

Message from the Guest Editor

Fossils constitute the material evidence of past life, although they comprise only a small part of the paleobiodiversity of our planet. The current possibilities for their description and interpretation are largely due to the mineralogy and geochemistry of the organisms from which they originate. In this Special Issue, we intend to emphasize the importance of these two disciplines in their conservation, their practical application in environmental reconstructions, or their potential within industrial rocks, among other possibilities. Papers not limited to the following topics are welcome:

1. Mineralogical, microstructural and biogeochemical composition of fossils.
2. Mineralogical, microstructural and biogeochemical changes during the fossilization process.
3. Applications of mineralogy, microstructure and biogeochemistry in paleontology.
4. Use and applications of isotopes in fossils.
5. Mineralogy and geochemistry of industrial rocks of biogenic origin (diatomites, chalk, etc.).
6. The conservation of fossils in museums and collections: mineralogical and geochemical aspects.
7. Experimental designs for the longevity of fossils subjected to weathering processes.

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Editor-in-Chief

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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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