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Studies of Microbial Biomineralization

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Deadline for manuscript submissions:
closed (30 January 2024)

Message from the Guest Editors

Bacteria can mediate the formation of a variety of minerals (e.g., oxides, sulphides, carbonates, etc.) in a variety of environments, including caves, tidal flats, deep ocean floors, the human body, and possibly extraterrestrial settings. Since abiotic precipitation can result in crystal morphologies similar to those resulting from bacterial biomineralization, geochemical indicators are extremely important for the diagnosis of bacterial biominerals. For this Special Issue, we invite contributions from authors applying stable isotopes to unravel the complexity of bacterial biomineralization, including (but not limited to) isotopic signatures of early or extraterrestrial life, the formation of deep-sea minerals, carbon sequestration, the immobilization of pollutants, and the restoration of historical monuments.

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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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Journal Rank: JCR - Q2 (*Geochemistry and Geophysics*) / CiteScore - Q2 (*Geology*)

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