



Biominerals Crystal Structure

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Message from the Guest Editor

Biom mineralization—the formation of minerals by organisms—is a subject of significant interest in chemistry, structural biology, engineering, physics, and geology. The study of biominerals has been recently driven by the development of novel biomaterials and the application of biomineralization studies in medicine. Biomineralization research has placed an important emphasis in the analysis of biomineral formation, from the atomic scale to the macroscale assembly, resulting in complex hierarchical structures with excellent physico-chemical properties. Yet, our understanding of how organisms control the set of processes leading to the formation of biominerals is quite incomplete. This Special Issue aims to bring together novel studies to elucidate the biological control on the biomineral crystal structure. Scientific contributions in the characterization and analysis of biominerals, including laboratory experiments and modeling leading to a better understanding of biomeral assembly, are welcomed for this Special Issue.

The Keywords are:

- biomineralization
- crystallography
- biological control
- biochemistry
- nano- and microstructures





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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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