



Microbial Biomineralization

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Deadline for manuscript
submissions:

closed (31 October 2018)

Message from the Guest Editors

We are inviting manuscript submissions for rapid, open-access publication of high-quality peer-reviewed studies in the field of microbial biomineralization. Microorganisms have been shaping the surface of the Earth at least for the past 3.8 Ga. Their ability to precipitate solid phases from aqueous species in a variety of environments has led to the deposition of mineral deposits of various sizes in the rock record and in modern environments. For this special issue, we encourage contributions from the laboratory or the field investigating the molecular mechanisms of induced and controlled microbial biomineralization, the impact of microbial biomineralization processes on biogeochemical cycles (e.g. C, Fe, Ca, P, S, Si), and the biosignatures of microbial biomineralization in the geological record. Studies focusing on the role of microbially-derived organic compounds (e.g. extracellular polymeric substances) in biomineral deposition are also welcome.





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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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