Special Issue

Understanding Bacterial Mineralization

Message from the Guest Editor

Bacterial mineralization or biomineralization is such a wide phenomenon in nature. In this process, bacteria are able to induce the precipitation of minerals, either through highly controlled biomineralization (so-called "biologically controlled biomineralization") exerting a high control over the whole process or by inducing the precipitation of minerals (so-called "biologically-induced biomineralization") through processes that involve little control. Bacterial mineralization is attracting an increasing amount of interest when it comes to understanding the mechanisms involved in such a process...This Special Issue on "Understanding Bacterial Mineralization" will focus on recent advances in bacterial mineralization, from the fundamental to the applied science, including different areas, e.g., environmental science, molecular microbiology, and geochemistry. Papers providing experimental data and omics-based studies down to the molecular scale to provide a comprehensive picture of bacterial mineralization process are also welcome.

Guest Editor

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Deadline for manuscript submissions

closed (15 November 2020)

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About the Journal

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 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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