Special Issue

Minerals Related to Biological Action and Their Potential Applications

Message from the Guest Editors

Biogenic minerals and organism–mineral interactions are found everywhere on the Earth surface, and play an important role in the evolution of the Earth system. Studying biogenic minerals and organism–mineral interactions is not only of major scientific importance for the field of geobiology, but also of great significance for sustainable development and human health. In-depth research in this field will have a profound impact on the progress of geobiology and even medical geology, and may lead to a major breakthrough in our understanding of ecosystems, the mechanisms of environmental change, and solutions to human health problems.

This Special Issue is organized into three sections:

Section 1: Minerals related to biological action: forming mechanisms, characteristics, and functions.
Section 2: Microbiological origin of minerals: formative process and mechanisms, biogeochemical analysis, and environmental effects.
Section 3: Mineral utilization in medicine: mineral carriers of drugs and new interpretations of mineral utilization in traditional medicine.

Guest Editors

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Deadline for manuscript submissions

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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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