



Crystallography and Related Research on Minerals and Their Synthetic Homologous for Geological Purposes

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Deadline for manuscript
submissions:

closed (22 October 2021)

Message from the Guest Editors

The aim of this Special Issue “Crystallography and Related Research on minerals and their synthetic homologous for geological purposes” is to address current challenges in studies of crystal-physics and crystal-chemistry to solve geological open questions.

For this issue we invite contributions that underline the key role of the crystallography and physical chemistry of minerals in geological processes. Minerals form in a variety of different geological environments, from solutions, melts, or vapor, or by solid–solid transitions. Crystalline features, as well as structural defects, represent records of geological events responsible of the mineral’s formation and/or mineral’s transformation/phase transition. Consequently, their study can help to shed light on complex geologic events.

We encourage to submit multidisciplinary paper in which the role of crystal characterization is marked. Research may also include spectroscopic studies of natural and synthetic crystals and crystal growth process.





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

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