Special Issue

Effects of Temperature and Pressure on the Properties of Mineral Materials

Message from the Guest Editors

In this Special Issue, we are focusing on recent progress in the broad field of geomaterials, an important class of materials both from a scientific and a technological perspective. Geomaterials have exhibited a long-standing interest to the scientific community due to their diverse fields of applications, from the construction industry to implications for processes in the Earth's and planetary interiors. The properties of geomaterials under varying pressure and temperature conditions currently lie at the center of scientific attention worldwide, as a means of mapping out the phase diagrams of these systems. Notably, over the last few decades, geomaterials have continuously inspired and fueled the search for novel energy-related materials, to be exploited in a variety of applications (e.g., battery, thermoelectrics, photovoltaics). The potential topics of this Special Issue include but are not limited to the following:

- Complex structural–electronic properties and potential interplay;
- Synthesis and characterization of georelevant materials and analogs;
- Modeling of geomaterials;
- Temperature and/or pressure effects.

Relevant review articles are also welcome.

Guest Editors

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Prof. Dr. Elissaios Stavrou

Deadline for manuscript submissions

closed (30 April 2022)

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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.

Editor-in-Chief

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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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