Special Issue

In Situ Measurements of Physical Properties of Rocks, Minerals and Fluids at Extreme Conditions

Message from the Guest Editors

Measurements of physical properties of rocks, minerals and fluids at high pressures and high temperatures contribute to our understanding of planetary interiors. The primary goal of this field is to establish the physical properties of materials that control the structural and thermal state, processes and evolution of planets. Modern cutting-edge experimental and instrumental capabilities of the in situ determination of properties at extreme conditions have reached levels of accuracy and precision that allow for a much sharper comprehension of Earth's and other planetary interiors. The goal of this Special Issue is to collect contributions dedicated to experimental studies of rocks, minerals or fluids under elevated conditions (high pressures and/or non-ambient temperatures) employing various in situ techniques (ultrasonic interferometry, electrical conductivity, thermal diffusivity, Brillouin spectroscopy, synchrotron X-ray diffraction/radiography, etc.).

Guest Editors

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Dr. Martha G. Pamato

Deadline for manuscript submissions

closed (31 May 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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Author Benefits

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indexed within Scopus, SCIE (Web of Science), GEOBASE, GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Mineralogy) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

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