Special Issue

Minerals under Extreme Conditions

Message from the Guest Editors

Dear colleagues, Investigations of minerals at extreme conditions—high pressures and non-ambient temperatures—is the way to address the structure, dynamics, and evolution of any planetary body in our Solar System and beyond. Modern cutting-edge instrumental capabilities allow illuminating behavior of minerals at various thermodynamic conditions, covering a large portion of the P–T diagram from few to several thousand kelvins and up to terapascal pressures. Thus, the fate of minerals along a wide span of possible P–T profiles can be investigated in situ, advancing our knowledge on the interior of the Earth and other planetary bodies. The goal of the current Special Issue is to collect contributions dedicated to experimental studies of minerals under extreme conditions (high pressures and/or non-ambient temperatures) employing various analytical techniques (X-ray and neutron diffraction, Raman/ Mössbauer spectroscopy, etc.).

Guest Editors

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closed (16 April 2021)

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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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