

## Special Issue

# High-Pressure and High-Temperature Mineral Physics

### Message from the Guest Editors

Recent progress in HPHT mineral physics includes significant advancements in experimental techniques and computational modeling. Synchrotron X-ray and neutron diffraction methods now allow for detailed examination of mineral structures under extreme conditions, leading to the discovery of new high-pressure phases. Laser heating techniques in diamond anvil cells have improved temperature control, enabling more accurate simulations of deep Earth conditions. Additionally, first-principle calculations and computational models have enhanced the predictive capabilities for mineral properties, guiding experimental designs and interpreting complex systems. These advancements have not only deepened our understanding of Earth's interior processes but also facilitated the discovery of new materials with industrial applications, such as superhard substances and novel electronic materials. Based on the above opportunities, we plan to prepare a Special Issue on progresses in High-pressure and High-temperature Mineral Physics.

### Guest Editors

Dr. Lin Li

Crystal Structure Laboratory, Institute of Earth Sciences, State Key Laboratory of Geological Processes and Mineral Resources, China University of Geosciences, Beijing 100083, China

Dr. Li Zhang

School of Earth Sciences and Resources, China University of Geosciences, Beijing 100083, China

### Deadline for manuscript submissions

closed (25 September 2025)



## Minerals

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*Minerals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[minerals@mdpi.com](mailto:minerals@mdpi.com)

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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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### Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth,  
Germany

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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 (Mining and Mineral Processing) / 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).