

Special Issue

Advances in Experimental Geochemistry of Silicate Melts, Fluids, and Minerals

Message from the Guest Editors

High-temperature and high-pressure experiments have been essential in understanding the geochemistry of silicate melts, fluids, and minerals due to the irreproducibility of geological processes.

This enables scholars to decipher complicated magmatic or hydrothermal processes, the mechanisms behind the enrichment of ore-forming elements and mineralization.

Therefore, experimental geochemistry involving silicate melts, fluids, and minerals can expand our knowledge regarding the Earth's formation processes along with the distribution and circulation of materials, while also shedding light on the genesis of ore deposits.

The developments in high-temperature and high-pressure experimental methods alongside high-precision analysis apparatuses have significantly contributed towards enhancing our understanding of the experimental geochemistry of silicate melts, fluids, and minerals.

The purpose of this Special Issue is to publish high-quality research papers and review articles that aim to address recent advances in the experimental geochemistry of silicate melts, fluids, and minerals, as well as their associated magmatic evolution, hydrothermal processes, and deposit genesis.

Guest Editors

Dr. Haibo Yan

Dr. Xing Ding

Dr. Panlao Zhao

Dr. Deshui Yu

Deadline for manuscript submissions

closed (28 March 2025)



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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

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

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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).