

Special Issue

Studies on Kinetics and Processes of Serpentinization

Message from the Guest Editors

The process of serpentinization greatly influences geodynamics and the recycling of volatiles (such as water and carbon) in subduction zones and may be closely linked to the genesis of arc magmas. The process of serpentinization produces molecular hydrogen (H₂) and methane (CH₄) that are capable of supporting microorganisms in hydrothermal vent fields. For this Special Issue, we invite contributions related to the processes and kinetics of serpentinization, including mineralogy, petrology, major and trace element geochemistry, isotope geochemistry and experimental observations about fluid-rock interactions. Both observations of natural serpentinized peridotites and experimental studies about the serpentinization of olivine and peridotite are welcomed.

Guest Editors

Prof. Dr. Ruifang Huang

Dr. Renbiao Tao

Dr. Xing Ding

Deadline for manuscript submissions

closed (31 August 2023)



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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

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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).