Special Issue

Magma Ascent and Evolution: Insights from Petrology and Geochemistry

Message from the Guest Editors

Magmatism is part of the global 'engine' that transfers heat and matter from the Earth's interior towards the surface. The advancement in understanding the main dynamics of magmatic processes has constantly taken advantage of the continuous improvement of textural (2D and 3D) micro-imaging and petrologic experiments and analysis of trace elements, isotopes and volatile species. These investigations allowed the development of new theoretical models and robust empirical calibrations, unravelling complex dynamics in igneous systems, such as crystallization, differentiation, assimilation, mixing, storage, transport, and degassing. Still, a lot of work has to be done to get to a more precise evaluation of the interplay of these processes and the timescales at which they occur. In this Special Issue, we encourage authors to submit the results of research aimed at understanding the physico-chemical behaviour of magmas at pre-, syn-, and post-eruptive conditions. Contributions may embrace a broad spectrum of disciplines applied to both natural and synthetic products, such as petrology, geochemistry, mineralogy, and volcanology.

Guest Editors

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Deadline for manuscript submissions

closed (20 August 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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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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