

Special Issue

Metal Transport and Deposition in Ore-Forming Hydrothermal Fluids

Message from the Guest Editors

We envisage this Special Issue covering a range of topics and approaches, starting with geological evidence (alteration mineralogy, fluid inclusions, etc.) and geochemical modeling of fluid-driven processes in natural systems and continuing with fundamental experimental and theoretical research on metal speciation, partitioning, and precipitation processes. We encourage contributions that evaluate the chemistry of these fluids and hydrothermal minerals at elevated temperature and pressure, the partitioning of elements among phases, and the properties of solvents and solutes commonly occurring in nature. We also invite contributions aimed at using geochemical and molecular modeling to predict the chemical properties of fluids and solutes, incorporation of metals and solubility of minerals, their structures, and the nature of solute–solvent interactions at an elevated temperature. Through the integration of these topics, we aim to shed new light on frontier research on fluid-mediated processes that control the mobility of elements and ore deposition in the Earth's crust.

Guest Editors

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Deadline for manuscript submissions

closed (1 September 2022)



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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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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).