

Special Issue

Magmatic–Hydrothermal Process and the Genesis of Related Mineral Deposits

Message from the Guest Editors

Magmatic–hydrothermal processes play a fundamental role in the formation of a wide range of metallic deposits, serving as key pathways for the transport and concentration of critical metals. These processes encompass a broad spectrum of magmatic systems, from silicic magmas to more uncommon but economically significant melts ...This Special Issue, “Magmatic–Hydrothermal Process and the Genesis of Related Mineral Deposits”, seeks to gather cutting-edge research that integrates field geology, petrology, geochemistry, geochronology, fluid inclusions, and isotopic tracing to illuminate magmatic–hydrothermal transition and its links to mineralization. We welcome contributions present original research articles or reviews on metallic deposits associated with magmatic–hydrothermal systems from diverse geological settings. Topics of interest include: (1) the role of magma source, evolution, and fluid saturation in metal enrichment; (2) geochemical and isotopic fingerprints of magmatic–hydrothermal processes; (3) the genesis of ore deposits related to magmatic–hydrothermal system; and (4) novel approaches or case studies that connect magmatic petrogenesis with hydrothermal mineralization.

Guest Editors

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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).