

Special Issue

Magmatic and Metamorphic Processes in Orogenic Belts

Message from the Guest Editors

Orogenic belts represent dynamic and complex tectonic regions where crustal growth, modification, and recycling are driven by the interplay between magmatic and metamorphic processes under variable pressure–temperature conditions. Magmatic activity—whether arc-related, syn-collisional, or post-collisional—preserves the imprints of mantle contributions and crust–mantle interactions in its chemical and isotopic signatures, while metamorphism promotes extensive changes in existing protoliths through recrystallization and element redistribution. Integrated investigations combining mineralogical observations, whole-rock and mineral geochemistry, and isotopic systems are essential to constrain the timing, sources, thermal regimes, and mass transfer processes that control orogenic evolution. Such approaches provide critical insights into the multi-stage nature of orogenesis, including the balance between recycled and juvenile crustal components, the role of partial melting versus solid-state reworking, and the mechanisms by which mountain belts are constructed and stabilized.

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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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