Special Issue

Petrology, Geochemistry and Geophysics of S-Type Granites and Migmatite Rocks

Message from the Guest Editors

Since the Archean, late-stage collisional orogens are typically characterized by crustal anatexis and generation of granitic bodies. The generation of granitic magmas by intracrustal differentiation and their emplacement in the upper crust leaves behind refractory residues, migmatites, which explain the compositional distinction between the lower and upper crust. Thus, migmatite–granite complexes are commonly observed in the cores of orogenic mountain belts, and geophysical observations have been interpreted to indicate the presence of melt in active orogens. The production of large volumes of melt by partial melting of a source rock depends on protolith fertility, the presence of fluids, and the temperature–pressure conditions.

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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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