Special Issue

Rare-Metal Granites

Message from the Guest Editor

Rare-metal granites, essentially A-type granites and peraluminous muscovite granites, host some of the most important deposits of rare metals, generally as high-tonnage, low-grade deposits. Much progress has been made in understanding this type of deposit, especially with the advent of analytical and geochronological techniques in the last 10 years, e.g., LA-ICP-MS, but there are still open questions that are poorly understood. For example, it is not clear how the particular geochemistry of rare-metal granites is achieved, what is their parent magma, or is a protolith of particular composition favors development of rare-metal rich granites. The genesis of rare-metal enrichment is poorly understood and many processes have been proposed including: fractional crystallization, liquid immiscibility, chemical quenching, zone refining, magma mixing, gas-driven filter pressing, and fluid phase exsolution by undercooling or by first or second boiling, triggering the magmatic-hydrothermal transition. This Special Issue aims to bring together a series of papers that will help to address these and other open questions.

Guest Editor

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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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