Special Issue

Mineral Chemistry of Granitoids: Constraints on Crystallization Conditions and Petrological Evolution

Message from the Guest Editors

Mineral chemistry is an important tool for estimating crystallization parameters during the petrological evolution of granitic magmas, since the chemistry and redox conditions of parental magma play an important role in the composition of granitoid minerals. The chemical signature of the primary ferromagnesian phases can provide information about the magma's nature and its affinity with the different magmatic series. Recent work has used trace element signatures in accessory minerals to estimate the source and petrological evolution of granitic magmas. This approach provides a powerful tool for the chemical study of granitoids, since it works with the chemical signatures of less mobile elements to corroborate information provided by conventional mineral chemistry. This Special Issue aims to address the importance of the mineral chemistry of granitoids in understanding the geological history of the regions in which they are located. The study of granitoids is fundamental to understanding the crustal evolution of a region, since granitic magmatism is the main factor involved in the geochemical differentiation of the continental crust.

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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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