Special Issue

Origin and Evolution of Deep-Seated Melts and Their Interactions with the Lithospheric Mantle

Message from the Guest Editors

This Special Issue will focus on the composition and spatial distribution, geochronology and geochemistry of the intraplate magmas in a cratonic setting and its surroundings and their relation to the plume and superplume events. Models of the origin and evolution of the mantle melts in cratonic and peripheral areas have been created, and suggest the reconstruction of the structure and composition of the upper mantle, and that magma-generation processes initiated by plumes or subduction influence the mantle composition and structure. The interactions of melts and fluids from plumes with mantle roots are of interest, as is the study of mantle xenoliths allowing reconstruction of the polybaric conduits, chamber systems and wall rocks.

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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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