Special Issue

Petrology and Ores of Igneous Alkaline Rocks and Carbonatites

Message from the Guest Editors

Because of their diversity and exotic rare metal mineralogy, alkaline rocks and carbonatites have attracted the attention of geologists. The origin of these rocks is associated with the most extreme partial melting of deep Earth's mantle enriched in volatiles, REE, and other trace elements. As a result of fractional crystallization of such melts, various silica-under- and silica-oversaturated alkaline rock series with carbonatites and ore mineralization occur. The proposed Special Issue of Minerals on carbonatites and alkaline rocks will be important to geoscientists in alkaline magmatic complexes on continent and ocean settings. The general aims of this volume include new studies and data for understanding the geological structure, regularities of mineralogical and geochemical evolution, magma sources, tectonic position, and ores of such complexes. Our objective is to fill in gaps in empirical important information about geodynamic and metasomatic processes in the deep mantle, its isotopic heterogeneity, causes and mechanisms of REE, and other trace element enrichment in alkaline carbonatite complexes.

Guest Editors

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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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