Special Issue

Origin, Mobility and Concentration of the Rare Earth Elements in the Crust

Message from the Guest Editors

REEs are critical in the development of wind turbines, solar cells, batteries, electric vehicles, and green H2 generation, among other applications. Although REE mineralization is often associated with igneous rocks, they can also occur in metamorphic rocks as well as sedimentary formations due to the occurrence of superficial processes that may concentrate REEs in placers or bauxites. In addition, the differential concentration of REEs in certain minerals or in the whole rock delineated patterns have also been used as tracers of hydrothermal or igneous processes and origins. On the other hand, many devices already contain small amounts of REEs that are being released into the environment in urban dump sites and roads. How they affect our health or if they could be economically recovered should be evaluated as well. Therefore, this Special Issue aims to enhance the knowledge with respect to all aspects of REE origin, mobility and concentration in the inner Earth's crust and its surface.

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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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