



## Rare Earth Elements and Their Isotope Geochemistry

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### Message from the Guest Editors

Dear Colleagues,

Rare earth elements, which consist of 15 elements from La to Lu, are powerful research tools in the earth sciences (especially in the field of geochemistry). In particular, since Dr. Akimasa Masuda, a professor at the University of Tokyo, Japan, devised an interpretive method to understand the geochemical significance of rare earth element abundance in geological material, rare earth element geochemistry has become one of the most powerful tools for understanding the evolution history of the Earth System, such as magma sources, geodynamics and tectonic settings. Radiogenic isotope systems such as Sm–Nd and La–Ce have also provided insight into the age of rock formation. Recently, in addition to the development of advanced mass spectrometers such as MC–ICP–MS, isotope fractionation studies using stable isotopes of rare earth elements such as Ce, Nd, and Eu have also become possible.

In this Special Issue, we are looking for research output for the future of rare earth element geochemistry, including the latest research techniques related to rare earth elements and the application of geochemistry.





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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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