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ICP-MS Analysis for Rare Earth Elements

Guest Editor:

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Deadline for manuscript submissions:
closed (31 May 2020)

Message from the Guest Editor

Rare earth elements (REE), because of their coherent (geo)chemical properties, can be used as tracers of reactions and sources of materials within magmatic, hydrothermal and sedimentary systems. Over many decades, the improvements in the precision, accuracy and detection limits of analytical methods have been critical in establishing the role of these elements as universal tracers across the geo- and biosciences. Currently, ICP-MS is the most common method to determine the REE in a variety of matrices, including rocks, minerals, meteorites, sediments, soils, plants, dust and aerosols. This Special Issue provides a great opportunity to report advances both in the ICP-MS analysis of REE and the interpretation of results for particular geochemical and biogeochemical systems. In spite of the methodology being well established, it is still essential to understand constrains placed by both the sample preparation and the ICP-MS analysis itself, making this Special Issue a suitable forum to discuss them.

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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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