

## Special Issue

# REE Transport in High-Grade Crustal Fluids

### Message from the Guest Editor

Rare earth elements (REE), and the minerals that incorporate them, are important geochemical indicators and tracers in high-grade fluids found in various metasomatic, metamorphic, igneous-related contact aureole, carbonatitic, and ore-forming processes. In addition to common REE minerals, such as monazite, xenotime, bastnaesite, eudialyte, allanite, and britholite, many silicate, phosphate, chloride, fluoride, sulfate, and carbonate minerals (especially the Ca-bearing ones) can take in at least trace amounts of REE. These can include such common minerals as titanite, zircon, garnet, apatite, parasite, and synchysite. [...]. The mobility of REE in (Na,K)Cl-H<sub>2</sub>O-CO<sub>2</sub>-SO<sub>3</sub>-bearing fluids, coupled with the mobility of various other co-existing trace elements, can provide significant information regarding the P-T-X conditions under which the fluid was in contact with in the rock, the chemistry of the fluid, the minerals—REE-bearing and otherwise—coexisting with the fluid, as well as act as a tracer for fluid movement under high-grade conditions.

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### Guest Editor

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### Deadline for manuscript submissions

closed (10 January 2020)



## Minerals

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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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### Editor-in-Chief

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