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# **REE Transport in High-Grade Crustal Fluids**

Guest Editor:

## Message from the Guest Editor

Prof. Dr. Daniel Harlov Deutsches GeoForschungsZentrum, Telegrafenberg 14473 Potsdam, Germany

Deadline for manuscript submissions: closed (10 January 2020) Dear Colleagues,

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-H2O-CO2-SO3-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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# **Editor-in-Chief**

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#### Message from the Editor-in-Chief

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