Special Issue

Rare Earth Elements in Uranium Minerals: Implications for Mineralization

Message from the Guest Editors

The REEs and U elements are mostly derived from hydrothermal solutions. Their unique chemical properties also imply that they cannot be incorporated into every mineral structure. In addition, the sensitivity of the REEs to the physicochemical parameters of the solutions gives us a unique tool to investigate the prevailing crystallization conditions in primary mineralization as well as in weathering U mineralization. The aim of this Special Issue is to present the latest advances in the study of the presence of REEs in uranium mineralization in terms of mineralogy, petrology, uranium deposit occurrence, and formation of secondary U mineralization in AMD environments. This Special Issue will focus on the following topics: (1) The sources of REEs in uranium mineral deposits and their diffraction to determine the prevailing conditions during ore deposit formation. (2) The REE behavior in AMD environments and its implications for determining possible weathering dominant physicochemical conditions. (3) The REEs and trace elements in uranium minerals: Implications for their structure.

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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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