Special Issue

Apatite and Ore Deposits

Message from the Guest Editor

The study of ore deposits requires, among other things, the characterization of the fluid(s) responsible for mineralization, as well as understanding the timing and duration of ore deposition. This can be accomplished by the study of several types of objects (minerals, fluid inclusions, etc.) associated with mineralization. Apatite ($Ca_5(PO_4)_3(OH,F,Cl)$) is an ubiquitous accessory phosphate mineral found in many types of rocks and environments. This is particularly true with regards to ore deposits. This mineral has several key characteristics that are very useful when one is interested in the characterization and/or the dating of the circulations of fluid(s) and/or the magmatism responsible for the deposition of mineralization [...]. The main goal for this Special Issue is to collect different case studies, as well as innovative methodological contributions, indicating how the use of apatite associated with diverse types of ore deposits can provide some key information for the establishment of a metallogenic model.

Guest Editor

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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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