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Geochemical Behavior and Evaluation for Radioactive Waste Disposal

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Deadline for manuscript submissions:
closed (24 February 2023)

Message from the Guest Editors

Dear Colleague,

This Special Issue will focus on all areas relating to the investigation of the chemical composition of minerals, radiometric age dating of minerals, and characterization of geologic, environmental, and anthropogenic samples.

It will provide new insights into the conditions of mineral formation/paragenesis at various temperature and pressure regimes, including interactions of minerals with the geosphere (lithosphere, hydrosphere, atmosphere, and biosphere). Studies may use either novel or standard analytical, imaging, diffraction, microscopic, spectroscopic, synchrotron, and computer modeling techniques.

For example, the basis of radiometric geochronology is that a radioactive parent element, such as uranium, is incorporated as trace amounts into a mineral when it forms in the Earth's crust. Over time, that parent element will decay to a stable daughter element, such as lead, which ideally will be locked inside the mineral. By measuring the amount of the parent and daughter elements in a sample and applying the known rate of decay for that radioactive parent, the age at which the mineral formed can be calculated.

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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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