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Mineral-Specific Element Sorption onto Geological Repository Rocks

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closed (22 May 2022)

Message from the Guest Editor

Long-term disposal of high-level nuclear waste is an important problem of the modern nuclear industry. Although many potentially promising technological solutions for recycling actinides and other useful nuclides have been proposed, most of them are still far from a mature state. In any case, even most advanced reprocessing technologies will leave behind an important amount of radioactive material, which is difficult to reuse from an economical point of view, and thus should be safely disposed of. The creation of deep geological repositories for high level nuclear waste is currently being considered in many countries, but numerous scientific and engineering issues remain unsolved.

This Special Issue aims to collect high quality papers focusing on studies of radionuclides on various types of rocks and backfill materials. Both experimental and modeling studies are invited.

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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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