Special Issue

Separation Chemistry of Uranium

Message from the Guest Editor

Uranium is an essential resource for the production of carbon-free electricity by nuclear reactors, a key advantage in the fight against global warming. The availability of efficient uranium extraction and separation processes has a direct impact on the ability to sustain the future demand from nuclear power plants in the coming decades, in line with the ambitious scenarios elaborated by international organizations.

This Special Issue aims to present recent scientific and technological advances and innovative solutions pertaining to this field, with a focus on chemical separation. Insights related to the following aspects are particularly relevant: Design of novel extractant molecules and materials;
Combined experimental and theoretical approaches;
Uranium recovery from secondary resources;
Nuclear waste reprocessing and other nuclear applications;
Flowsheet simulation and process modeling;
Analytical developments.

We invite experts in these areas to share their research via open access in this Special Issue and thus contribute the field progress. Papers from both academia and industry are welcome.

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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