Special Issue

Towards Mineral Systems Models for Sediment-Hosted and Other Uranium Deposits

Message from the Guest Editor

As the world moves inexorably towards sustainable and low-carbon energy sources, nuclear power is increasingly recognised as a key component to the energy mix of the future. Declining uranium production and low discovery rates, however, indicate a pressing need for the discovery of new uranium resources to ensure a future fuel supply for this important source of green energy. The low rate of discovery reflects limited investment in exploration and in basic research into uranium mineral systems since they were first developed in the 1980s. It is the aim of this volume, therefore, to collect research on uranium deposits to develop a holistic understanding of various uranium mineral systems, particularly (but not exclusively) those systems involving uranium deposition in sedimentary rocks. Authors are encouraged to submit manuscripts ranging from basic descriptions of deposits to advanced studies using contemporary technology. Reviews of mineral systems will also be considered.

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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