Special Issue

Geochemistry, Mineral Chemistry and Geochronology of Uranium Deposits

Message from the Guest Editor

Uranium continues to be a critical commodity with the supply–demand balance tipping toward a supply deficit as a result of additional nuclear reactors coming on stream, as well as those currently under construction. The successful exploration for uranium is thus an important part of reducing the supply deficit, and successful exploration depends on being able to access and apply fundamental knowledge around mineral systems and deposit descriptions and metallogenesis. This Special Issue is focused on three connected topics that relate to uranium metallogenesis: (1) geochemistry of uranium deposits, including exploration and deposit geochemistry; (2) mineral chemistry of ore and pathfinder/vector/discriminator minerals related to uranium deposits; and (3) geochronology of uranium deposits. The issue aims to bring together current and recent research on these facets of various uranium deposits that range in type from unconformity-related, through sandstone-hosted, collapse breccia, intrusive-related, metamorphic-related, metasomatic-related, to polymetallic IOCG-U deposits.

Guest Editor

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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