

Special Issue

Actinide Mineralogy and Crystallography

Message from the Guest Editors

Actinide minerals, and especially those containing the structure uranyl ion, (UO₂)²⁺, have attracted the interest of mineralogists and crystallographers since the discovery of the first “uranium mica” by I. Born in 1772. Nowadays, actinide minerals and inorganic compounds are inspiring objects of investigations, not only for mineralogists, crystallographers, geochemists, or spectroscopists, but also for chemists, who synthesize a large number of compounds inspired by the structural features of minerals. The demand for U worldwide, as well as the problems connected with a spent nuclear fuel, in the forms of waste dumps and piles after U mining or planned final repositories, all make research focused on actinides and, in particular, uranium and uranyl minerals, important. This Special Issue welcomes contributions on actinide mineralogy, geochemistry, crystallography of both minerals and synthetic compounds, problems of uranium deposits and environmental impacts, and nuclear forensics, as useful applications of actinide geochemistry and mineralogy.

Guest Editors

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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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