

Special Issue

Nuclear Forensic Applications in Geoscience and Radiochemistry

Message from the Guest Editor

This Special Issue invites contributions that focus on reporting forensic investigations of nuclear materials covering the early part of the nuclear fuel cycle, from natural uranium-rich ores/minerals (e.g., uraninite) to uranium oxide concentrates (UOCs) and nuclear fuel pellets using a wide variety of established and novel analytical methods and approaches. This includes the examination of morphological features of nuclear materials that develop due to changing environmental conditions and/or aging, identifying chemical and/or isotopic signatures related to U metal processing, multi-component statistical analysis of existing or new chemical/isotopic databases, establishing reference materials for micro-analyses conducted at high-spatial resolution, and corroborating and/or developing new baseline forensic signatures in raw ores from varying uranium deposit types. For further reading, please visit the Special Issue website:

https://www.mdpi.com/journal/minerals/special_issues/Forensic-Geoscience

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2019)



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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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Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

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).