Special Issue

Environmental Geochemistry and Mineralogy: Application for Hydrocarbon Exploration and Ore Deposits

Message from the Guest Editors

Combining interdisciplinary research work such as organic and inorganic geochemistry with bulk mineralogy, particularly relevant environmental geology and ore deposits, is paramount for reliable research results in depositional paleoenvironments, reservoir and source rock developments, and hydrocarbon exploration activities. This Special Issue can cover topics related to these aspects throughout the geologic history and related environmental perturbations and deposition of organic matter-rich black shale intervals during oceanic anoxic events. The approach used to contribute to this Special Issue includes, but is not limited to:

- Whole rock mineralogy and microscopic investigations of mineral composition;
- Total organic carbon and Rock-Eval Pyrolysis analyses;
- Elemental geochemistry, including major, trace, and rare-earth elements;
- Organic petrography and maceral composition of predicted organic matter;
- Scanning electron microscopy of minerals;
- Stable isotope geochemistry.

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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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).

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