

## Special Issue

# Pegmatites as Hosts of Critical Metals: From Petrogenesis to Mineral Exploration

### Message from the Guest Editors

The increasing demand for critical metals has recently renewed the interest of the scientific community in pegmatites, as their rising economic importance requires improved petrogenetic and exploration models. Pegmatites are crustal igneous rocks with unique textural and geochemical characteristics, such as extreme crystal sizes and pronounced mineral zoning. This Special Issue aims to gather studies that examine the unique characteristics of pegmatites and address the conditions of their formation. We welcome studies that include, but are not limited to, the following topics:

- The origin of pegmatite-forming melts;
- The petrophysical and geophysical properties of pegmatites;
- Extreme crystal sizes and characteristic pegmatite textures;
- Rare-metal enrichment and depletion processes;
- Crystal nucleation and growth rates;
- Thermal modeling;
- Fluid and melt inclusions;
- Gemstones in pegmatites;
- Critical metals in pegmatites;
- Mineral chemistry;
- Geochemical diffusion halos;
- Pegmatite geochronology;
- New exploration methods.

We thank you and look forward to receiving your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 March 2025)



## Minerals

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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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### Editor-in-Chief

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indexed within Scopus, SCIE (Web of Science), GEOBASE, GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

#### 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 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).