

Special Issue

Interfacial Chemistry of Critical Mineral Flotation

Message from the Guest Editors

This Special Issue seeks papers that demystify the principles of superior enrichment or high selectivity promoted by adjusting the pulp environment, novel flotation reagents, nanobubbles, etc., in the field of flotation. This Special Issue will highlight the latest advances in the theory of mineral flotation and welcomes original research articles, reviews, and case studies including, but not limited to, the following topics:

- The interfacial chemistry of critical minerals;
- Colloid chemistry in critical mineral flotation;
- The flotation of fine or ultrafine particles;
- Theories or methods to design flotation reagents;
- Novel adsorption theories of flotation reagents;
- New theories to promote consistent flotation.

Guest Editors

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Dr. Shaohang Cao

Deadline for manuscript submissions

closed (30 September 2025)



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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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Author Benefits

High Visibility:

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).