

Special Issue

Advances in Mine Backfilling Technology and Materials, 2nd Edition

Message from the Guest Editors

The first edition of the Special Issue demonstrated the remarkable progress that has been made in backfill technology, bridging theoretical understanding with practical engineering solutions to address contemporary challenges in mine waste management and sustainable resource extraction. The second edition of the Special Issue invites research and review articles on backfilling technology and materials across research fields which may include (but are not limited to) the following topics:

- Advances in backfill mining method, theory, and technology;
- Advances in backfill materials;
- Mechanical and rheological performance of backfill materials;
- Advances in mathematical modeling, numerical simulation, and in situ measurement methods of backfill materials.

Guest Editors

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Dr. Xun Chen

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Deadline for manuscript submissions

30 January 2026



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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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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).