Special Issue

Advances in Mine Backfilling Technology and Materials

Message from the Guest Editors

Backfill mining technology can be used to manage mine waste and reduce ground subsidence. It has become the preferred choice and is widely used in underground mining for its efficient, ecological, and environmentally friendly properties, and its ability for mining environment reconstruction. In the past few decades, many studies have been carried out on the backfilling mining method, backfilling technology, backfilling material development, and backfilling slurry and body performance. A number of achievements have been made, and this has promoted the development and application of backfilling mining in underground mines. This 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:

- 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

Prof. Dr. Yuye Tan

Dr. Xun Chen

Dr. Yuan Li

Deadline for manuscript submissions

closed (31 December 2024)

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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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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

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

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Journal Rank:

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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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