Special Issue

Solid-Filling Technology in Coal Mining

Message from the Guest Editors

Backfill mining technology can not only deal with mine waste on a large scale but also effectively control mining subsidence and protect surface buildings and the ecological environment. Filling materials play an important role in backfill mining and have an important influence on the filling effect. This Special Issue invites research and review articles on filling material across research fields which may include (but are not limited to) the following: (1) mechanical strength optimization, rheological properties, deformation characteristics, and damage mechanism of filling materials; (2) the heat, products, and mechanism analysis of hydration reaction of backfill materials; (3) development and performance testing of backfilling materials with mine solid waste, such as fly ash cemented filling materials, geopolymers, and alkali-activated materials; (4) the development and performance testing of functional backfill materials, such as heat storage and release functional backfill materials, and water purifying backfill materials; and (5) all above materials advanced applications in coal mining.

Guest Editors

Prof. Dr. Yanli Huang

State Key Laboratory of Coal Resources and Safe Mining, School of Mines, China University of Mining and Technology, Xuzhou 221116, China

Dr. Junmeng Li

State Key Laboratory of Coal Resources and Safe Mining, School of Mines, China University of Mining and Technology, Xuzhou 221116, Jiangsu, China

Deadline for manuscript submissions

closed (20 March 2023)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/105492

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

mdpi.com/journal/minerals

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/journal/minerals

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), 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 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).

MDPI