

Special Issue

Exploration, Geometallurgy and Geoenvironmental Assessment of Economic Deposits

Message from the Guest Editors

The growing demand for base, precious and critical metals requires new approaches for the discovery, extraction, processing and geoenvironmental management of new economic deposits. Such resources may be located under cover or at greater depths and require novel or advanced exploration methods for discovery. Secondary resources of these metals may also occur in existing or historical mine waste/tailings or low-grade stockpiles/dump materials and represents a significant exploration target. Definition of economic mineral resources requires the integration of multiple techniques including new and emerging characterisation technologies which present the opportunity to collect multi-scale data, relevant across the whole mining value-chain, at early exploration stages. This Special Issue encourages submissions relating to all aspects of exploration (geochemistry, geophysics), geometallurgy and mineral processing, geoenvironmental characterisation and waste repurposing with the aim of providing significant contributions to the sustainable development of future mineral and metal resources globally.

Guest Editors

Dr. Nathan Fox

W.H.Bryan Mining & Geology Research Centre, Sustainable Minerals Institute, University of Queensland, 40 Isles Road, Indooroopilly, Brisbane, QLD 4068, Australia

Dr. Anita Parbhakar-Fox

W.H.Bryan Mining and Geology Research Centre, Sustainable Minerals Institute, University of Queensland, 40 Isles Road, Indooroopilly, Brisbane, QLD 4068, Australia

Deadline for manuscript submissions

closed (30 April 2025)



Minerals

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.4



mdpi.com/si/189864

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

[mdpi.com/journal/
minerals](https://mdpi.com/journal/minerals)





Minerals

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.4



[mdpi.com/journal/
minerals](https://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).