Special Issue

Moving towards the Crystal Structure, Molecular or Atomic-Scale for Green and Novel Hydrometallurgical Processing

Message from the Guest Editors

Future-oriented and sustainable innovations in mineral extraction are required to allow economic extraction of metals from lower-grade and more complex ores. Hydrometallurgical technologies have shown the greatest potential for metal extraction from both primary and secondary raw material resources. The metal extraction steps are typically characterized by approaches that range from leaching of metal values by chemical reagents or bacterial action at ambient or elevated pressures and temperatures in reactors to leaching in vats or heaps (both chemical and biological) to in situ recovery...we welcome both reviews and full-length articles. Of particular interest are articles that demonstrate how the crystal structure or molecular or atomic scale in minerals and reagents are a driving factor in developing future technological advances and sustainably innovative solutions in hydrometallurgy towards unlocking the use of potential raw materials from primary and secondary metal resources.

Guest Editors

Dr. Yousef Ghorbani

College of Health and Science, School of Chemistry, University of Lincoln, Homelet, Green Lane, Joseph Banks Laboratories, Lincolnshire, Lincoln LN6 7DL UK

Prof. Dr. Shenxu Bao

School of Resources and Environmental Engineering, Wuhan University of Technology 122# Luoshi Road, Wuhan 430070, China

Deadline for manuscript submissions

closed (16 November 2021)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/38984

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