



minerals



an Open Access Journal by MDPI

Advances in Flotation of Copper, Lead and Zinc Minerals

Guest Editors:

Prof. Dr. Qicheng Feng

State Key Laboratory of Complex
Nonferrous Metal Resources
Clean Utilization, Faculty of Land
Resource Engineering, Kunming
University of Science and
Technology, Kunming 650093,
China

Dr. Guang Han

State Key Laboratory of Complex
Nonferrous Metal Resources
Clean Utilization, Faculty of Land
Resource Engineering, Kunming
University of Science and
Technology, Kunming 650093,
China

Deadline for manuscript
submissions:

closed (24 January 2025)

Message from the Guest Editors

Dear Colleagues,

Copper, lead and zinc minerals are important non-ferrous metal resources. Flotation is a practical technique to extract minerals based on differences in physical and chemical properties on mineral surfaces. The gradual depletion of high-grade mineral resources leads to an increase in the exploitation and utilization of refractory copper, lead and zinc ores. The enhanced recovery of copper, lead and zinc minerals have become urgent problems to be solved. Thus, there is a crucial need for research on the flotation theory and application to address the issues in the recovery of copper, lead and zinc minerals. This Special Issue will focus on recent advances in flotation theory and techniques of copper, lead and zinc minerals. Research or review articles concerning the synthesis and application of flotation reagents, migration rule of flotation reagents, design of flotation equipment, enhanced flotation separation methods, refractory ore treatment, bubble–mineral interaction mechanism, theoretical calculation, process mineralogy, and plant practice of copper, lead and zinc minerals are invited to this Special Issue.



mdpi.com/si/159860

Special Issue



Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut,
University Bayreuth, D-95440
Bayreuth, Germany

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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)

Contact Us

Minerals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/minerals
minerals@mdpi.com
[X@Minerals_MDPI/](https://twitter.com/Minerals_MDPI/)