Special Issue

Advances in Reagents for Mineral Processing

Message from the Guest Editor

Mineral processing is an applied technical subject for the separation of valuable minerals from gangue minerals. Reagents, especially those used for flotation, such as collectors and depressants are always employed to tune the wettability of mineral particle surfaces in this process. Mineral processors usually use collectors to cause a valuable mineral surface to become sufficiently hydrophobic, while depressants cause gangue minerals to become hydrophilic. In recent years, with leaner and more complex ores, there are great challenge to our long-held technological solutions, especially in flotation reagents. In this Special Issue, we aim to discuss the latest developments in reagents for mineral processing. We invite you to contribute to this Special Issue by submitting research articles or comprehensive reviews concerning flotation reagents, including their molecular design and synthesis, quantitative structure–activity relationship, the mineral flotation behavior, the interaction between flotation reagents and mineral surfaces, etc.

Guest Editor

Prof. Dr. Wengang Liu

School of Resources and Civil Engineering, Northeastern University, Shenyang 110819, China

Deadline for manuscript submissions

closed (15 April 2023)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/117706

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