Special Issue

Cleaner Production in Mineral Processing

Message from the Guest Editor

The most pressing environmental problems of base metals production are solid waste production, gaseous emissions, and high energy use. Most of the present solutions to clean up post-mining base metals production can be characterized as incremental, end-of-pipe technologies. More sophisticated, radical solutions are scarcely implemented. This Special Issue on Cleaner Production in Mineral Processing focuses on strategies and technologies to identify options to minimize waste and emissions out of the mineral processes through source reduction. Examples are technologies to reduce the effect of tailing by modification of the process to avoid fine particles and acid mine drainage agents in the tailing. Other examples are the reuse of waste, new process and technologies with low waste, and substitution of raw material and energy by renewable material and energy. The development of cleaner production is essential for the adoption of a circular economy.

Guest Editor

Prof. Dr. Luis A. Cisternas

Department of Chemical Engineering and Mineral Process, Universidad of Antofagasta, Antofagasta 1240000, Chile

Deadline for manuscript submissions

closed (15 June 2020)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/27706

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