minerals

an Open Access Journal by MDPI

IMPACT FACTOR 2.2

CITESCORE 4.4

Sustainable Extraction of Copper, Nickel and Zinc and Their By-Products from Ores, Recycled Materials and Wastes through Hydrometallurgical Processes

Guest Editors:

Dr. Lilian Velásquez-Yévenes

Prof. Dr. Jochen Petersen

Dr. Mario Vera

Deadline for manuscript submissions:
closed (31 December 2024)

Message from the Guest Editors

This Special Issue is focused on new developments in the sustainable hydrometallurgical processing of materials for which Cu, Ni and Zn are the primary metal commodities recovered, with a special emphasis on the co-recovery of companion metals: Mo, Ag, Au and U (by-products of Cu); Co and PGMs (by-products of Ni); Pb, Ge, and In (by-products of Zn).

This Special Issue will primarily cover four areas:

Area 1. Chemistries: acid ferric sulphate leaching and bioleaching, chloride leaching, ammonia leaching, leaching aids and catalysts, novel reagents.

Area 2. Leaching Technologies: atmospheric and pressure leaching, heap leaching, novel leaching systems.

Area 3. Separation: SX, IX, precipitation, and electrowinning for selective metal recovery from mixed leach liquors.

Area 4. Flowsheets: evaluation and comparison of complete flowsheets for the comprehensive recovery of metals from primary, secondary or blended feeds and the ensuing waste streams.

minerals

an Open Access Journal by MDPI

IMPACT FACTOR 2.2

CITESCORE 4.4

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), GEOBASE, 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/