Special Issue

Bioleaching of Metals from Waste/Wastewater

Message from the Guest Editors

This Special Issue invites submissions of original scientific research relating to the bioextraction of metals from solid wastes and wastewater. It focuses on the following topics:

- Bioleaching of precious metals, base metals, and rare earth elements from industrial solid waste and wastewater, using pure or consortium microorganisms;
- Exploration of the metal leaching potential of extremophiles;
- Optimization strategies for large-scale bioleaching of metals using genetically engineered organisms;
- The roles of enzymes, mutagens, metal, and non-metal ion catalysts, surfactants, and biochar in enhancing metal recovery from solid waste and wastewater;
- Bioreactor designs and applications for waste valorization for enhanced metal recovery;
- Application of innovative and emerging technologies, including the Internet of Things (IoTs) and machine learning for sustainable and efficient metal recovery;
- Techno-economic and environmental sustainability studies of metal biorecovery technologies.

Guest Editors

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Dr. Mariana Erasmus

Deadline for manuscript submissions

closed (31 December 2024)

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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

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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).

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