

Special Issue

Advanced Techniques in Mining Wastewater Treatment and Resource Recovery

Message from the Guest Editors

The economies of many countries depend on mining activities. Unfortunately, mining has a negative impact on the environment. Mining wastewater is known to be one of the major environmental pollutants. Thus, the treatment of mining wastewater before its release into the environment is of the utmost importance. This Special Issue provides a platform for researchers to discuss and exchange their ideas and results related to the mining wastewater treatment techniques. Our Special Issue will cover a broad range of relevant topics of interest, including the following:

- Removal of toxic elements from mining wastewater;
- Recovery of precious elements from wastewater;
- Adsorption and desorption of mine pollutants;
- Classification of pollutants in mining waste;
- Selective recovery of precious elements;
- Factors influencing wastewater treatment;
- Treatment of mine wastewater with waste from other industries;
- Beneficiation of mining waste;
- Waste identification using artificial intelligence;
- Modelling the transport of mine waste to waterbodies and soils;

Guest Editors

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Deadline for manuscript submissions

closed (16 July 2025)



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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.

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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).