

Special Issue

Towards a Sustainable Management of Mine Wastes: Reprocessing, Reuse, Revalorization and Repository, 3rd Edition

Message from the Guest Editors

The rising demand for sustainable solutions in the management of solid mine wastes has necessitated the creation of a third Special Issue, building upon the accomplishments of its predecessors. This edition seeks to propel the discourse on mine waste management, addressing the growing challenges and opportunities in this dynamic field. These wastes, characterized by substantial quantities, often pose significant management challenges and potential environmental threats. Our exploration will persist in identifying innovative strategies that align with environmental conservation and facilitate the extraction of future generations of resources from mineral wastes. The overarching theme centres on the evolution towards a circular economy, prioritizing resource recovery and sustainable practices. We invite contributions on the following key topics:

- Holistic problem solving;
- Cutting-edge characterization techniques;
- Innovative technical and environmental solutions;
- The recovery of critical raw materials;
- Expanding recycling horizons;
- Diversifying valorisation approaches;
- Scale studies and practical applications;
- The life cycle assessment of comprehensive solutions.

Guest Editors

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Deadline for manuscript submissions

closed (27 January 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.

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).