Special Issue

Geometallurgical Applications to Mine Waste Management

Message from the Guest Editor

Whilst the existence (and threat) of global climate change continues to be debated by political leaders, many industries are already transitioning to a low-carbon economy to minimise their environmental footprints (Nyambuu and Semmler, 2020). To support this, there has been an increased demand for "new economy metals" (e.g., cobalt, indium, tungsten, tellurium, vanadium, rare earth elements), leading to new opportunities for the mining industry to develop projects targeting a broader range of commodities...This Special Issue invites papers that: i) introduce effective techniques for metal exploration (with a focus on new economy metals) in a range of mine waste materials (e.g., tailings, slag, waste rock, spent heap leach); ii) present case studies where potential secondary resources have been identified; and iii) describe new mineral processing technologies developed to unlock this new generation of ore bodies.

Guest Editor

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Deadline for manuscript submissions

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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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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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