Special Issue

Advanced Technologies in Mineral Separation in Complex Ore Systems

Message from the Guest Editor

There is a growing demand for minerals that are required to drive the world economy. This demand continues to require an increase in the extraction and production of more minerals and associated metals. On the other hand, as the source of simple ores continue to be depleted, there is increasing need to extract minerals from more complex ore bodies where the grade is lower and the mineralogy is more complex, these orebodies require more energy to crush and grind in order for valuable minerals to be separated and liberated from waste. This has led to the development of new and advanced technologies, including equipment and methods, in all aspects of ore characterisation, breakage, separation, and environmentally benign disposal of tailings.

This Special Edition is focused on works in the development and application of methodologies and technologies in ore-characterisation, geo-metallurgy, comminution, pre-concentration and sorting, coarse and fine particle flotation, and other mineral separation technologies. Moreover, it will also focus on new methods and techniques for the modelling, production, and disposal of waste and tailings.

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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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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