Special Issue

Mineral Liberation

Message from the Guest Editor

Mineral liberation is essential for designing an optimal mineral processing. It depends on the mineralogical and textural characteristics of ores. The estimation of the liberation degree is fundamental to estimate the efficiency that can be achieved using a separation process. The use of automated mineralogy analysis provides valuable information about mineral liberation, such as its chemistry, mineral composition, and the shape and size of its particles. The extent of mineral liberation is a determining parameter to define the optimal comminution process in order to obtain the maximum grade during the separation process with the lowest energy consumption. In addition, knowing what minerals accompany the ore is necessary for applying separation techniques. This Special Issue aims to provide a compilation of the latest advances on mineral liberation. This issue covers a broad range of topics in which mineral liberation pays a fundamental role such as comminution, energy consumption, physical separation, and modelling. Abella

Guest Editor

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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)

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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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