Special Issue

Valuable Metals Recovery by Mineral Processing and Hydrometallurgy

Message from the Guest Editors

Sustainable development of our society, the breakthrough innovations, as well as we all need metals. All metals (not only precious and classified as critical for the present and near future) required both for high technologies and our everyday life are valuable and their demand will increase with time. Humankind is forced to use leaner and more complex processing for ores, which requires novel technological solutions for mineral processing and metal extraction. In order to obtain enough metals for our future, the recovery of metals from secondary sources, such as waste from mining, mineral processing and extractive metallurgy, has to be considered. Potential challenges to future metals extraction technologies also include the accelerating climate change, the soaring energy prices, and, perhaps the most important future problem, the lack of clean water, along with the need to use resources efficiently and comprehensively, while also protecting the environment. Papers presenting solutions and discussing all the above-mentioned aspects and challenges to metals recovery by mineral processing and hydrometallurgy are invited for this Special Issue.

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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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