Special Issue

Mineral Processing and Extractive Metallurgy of Sulfide Ores

Message from the Guest Editors

Nonferrous metals play an important role in modern life and industry, and most metals exist as the form of sulfides in the earth. Mineral processing and extractive metallurgy produce metals for industry, mainly including flotation and (bio)hydrometallurgy. Flotation is the main mineral processing/beneficiation technology for processing sulfide ores, which aims at providing qualified concentrates for metallurgy. (Bio)hydrometallurgy is also used as the main extractive metallurgy technology in processing sulfide ores, especially for complex and low-grade sulfide ores. Hence, this Special Issue will focus on recent advances in the mineral processing and extractive metallurgy of sulfide ores, including but not limited to topics such as electrochemistry, surface and interface reaction, fluid inclusion, selective separation mechanisms, separation process intensification, and the design and preparation of reagents.

Guest Editors

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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:

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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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