Special Issue

Recent Advances in Extractive Metallurgy

Message from the Guest Editors

Dear Colleagues Extractive metallurgy is concerned with the extraction of metals from their natural mineral deposits, which covers all aspects of this process, from types of ore to washing, concentration, separation, chemical processes, and the extraction of pure metal and their alloying to suit various applications, sometimes for direct use as a finished product, but more often in a form that requires further working to achieve the given properties to suit the desired application. Extractive metallurgy is significant in the mineral industry and is now being used to develop high-value products and solve environmental problems. This Special Issue aims to report recent technological developments and state-of-the-art processing approaches in extractive metallurgy, which include but are not limited to: novel separation technologies such as froth flotation; surface modification; novel material synthesis and characterization; thermal battery development; simulation and modeling; big data analysis in the mining industry. Research on new applications of extractive metallurgy in the novel material development and mining/metallurgical waste utilization fields is especially welcome.

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.

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 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 2024).

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