Special Issue

Advances in Pyrometallurgy of Minerals and Ores

Message from the Guest Editors

Pyrometallurgical technology, leveraging substances such as carbon, hydrogen, and coke as thermal reductants, enables the extraction of metals or alloys from ores. This method is an integral part of modern metallurgical processes, characterized by its robust and stable technology and ability to process vast quantities of minerals and ores. Despite these benefits, it is essential to underscore that pyrometallurgy is a high-energy consumption sector, with fossil fuel combustion leading to the emission of greenhouse gases and other harmful substances, contributing to environmental pollution. Furthermore, the safe and comprehensive utilization of waste and tailings following pyrometallurgical processing is a pivotal consideration for the future development of pyrometallurgical technology. This Special Issue, "Advances in Pyrometallurgy of Minerals and Ores", attuned to the evolving needs of pyrometallurgical advancements, including energy saving, emission reduction, waste management, hydrogen metallurgy, and so on, provides insights into the latest technological breakthroughs in the field and encompasses a range of relevant reviews and original research articles.

Guest Editors

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Deadline for manuscript submissions

closed (29 November 2024)

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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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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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