



Advances in Pyrometallurgy of Minerals and Ores

Guest Editors:

Prof. Dr. Lei Gao

Prof. Dr. Guo Chen

Dr. Bangfu Huang

Dr. Fan Zhang

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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.





Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut,
University Bayreuth, D-95440
Bayreuth, Germany

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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Contact Us

Minerals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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