Special Issue

Advances in Flotation of Copper, Lead and Zinc Minerals

Message from the Guest Editors

Copper, lead and zinc minerals are important non-ferrous metal resources. Flotation is a practical technique to extract minerals based on differences in physical and chemical properties on mineral surfaces. The gradual depletion of high-grade mineral resources leads to an increase in the exploitation and utilization of refractory copper, lead and zinc ores. The enhanced recovery of copper, lead and zinc minerals have become urgent problems to be solved. Thus, there is a crucial need for research on the flotation theory and application to address the issues in the recovery of copper, lead and zinc minerals. This Special Issue will focus on recent advances in flotation theory and techniques of copper, lead and zinc minerals. Research or review articles concerning the synthesis and application of flotation reagents, migration rule of flotation reagents, design of flotation equipment, enhanced flotation separation methods, refractory ore treatment, bubble–mineral interaction mechanism, theoretical calculation, process mineralogy, and plant practice of copper, lead and zinc minerals are invited to this Special Issue.

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Deadline for manuscript submissions

closed (24 January 2025)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/159860

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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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