

Special Issue

Grinding Chemistry and Its Impact on Downstream Processing

Message from the Guest Editors

There is already considerable research investigating particle breakage and modeling of the comminution process, but very little attention has been paid to precisely why we grind and how this affects downstream processing. This Special Issue aims to attract papers from authors who relate the grinding environment to changes in pulp and surface chemistry, its impact on collector adsorption, pH and depressant utilization, and how it effects subsequent metallurgical performance. Ultimately, we aim to determine whether during grinding has a significant impact on flotation or leaching.

Guest Editors

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Dr. Shihong Xu

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Deadline for manuscript submissions

closed (30 November 2025)



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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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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).