



## Grinding Chemistry and Its Impact on Downstream Processing

Guest Editors:

**Dr. Chris Greet**

Research Laboratory, Magotteaux  
Australia Pty Ltd., Wingfield, SA  
5013, Australia

**Dr. Shihong Xu**

School of Minerals Processing  
and Bioengineering, Central  
South University, Changsha  
410083, China

**Dr. Richmond K. Asamoah**

Minerals and Resource  
Engineering, Future Industries  
Institute, University of South  
Australia, Mawson Lakes  
Campus, Adelaide, SA 5095,  
Australia

Deadline for manuscript  
submissions:

**30 December 2024**

### Message from the Guest Editors

Dear Colleagues,

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.

Dr. Chris Greet

Dr. Shihong Xu

Dr. Richmond K. Asamoah

*Guest Editors*





## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (*Mining & Mineral Processing*) / CiteScore - Q2 (*Geology*)

## Contact Us

---

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

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/minerals](http://mdpi.com/journal/minerals)  
[minerals@mdpi.com](mailto:minerals@mdpi.com)  
[X@Minerals\\_MDPI/](https://twitter.com/Minerals_MDPI/)