



*minerals*



an Open Access Journal by MDPI

## Rare Earth Metals and PGM: Beneficiation, Recovery and Quantification

Guest Editors:

**Prof. Dr. Walter Purcell**

Department of Chemistry,  
University of the Free State,  
Bloemfontein ZA-9300, South  
Africa

**Prof. Dr. Herman Potgieter**

School of Chemical and  
Metallurgical Engineering,  
University of the Witwatersrand,  
Johannesburg ZA-2050, South  
Africa

**Dr. Manish Kumar Sinha**

Department of Chemistry,  
University of the Free State,  
Bloemfontein ZA-9300, South  
Africa

Deadline for manuscript  
submissions:

**closed (30 June 2022)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue focus on recent advances made in all hydro and pyrometallurgical aspects of the extraction and isolation of the rare earth element as well as the platinum group elements from either minerals or recycled products. Contributions are invited of the extraction (leaching, flux dissolution, microwave, roasting) of the elements from mineral ores or recycled products, ii) separation of these elements (SX, ion exchange, precipitation) and finally the isolation and purification of the target elements.



[mdpi.com/si/75333](https://mdpi.com/si/75333)

# Special Issue



an Open Access Journal by MDPI

## 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 (*Geochemistry and Geophysics*) / 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/)