

Special Issue

Recovery of Precious Metals, Rare Earth Elements and Special Metals from Spent Secondary Products

Message from the Guest Editors

The global demand for precious metals, in chemical, petrochemical, electrical and electronic products, medical and dentistry applications, jewelry and automobile industries, against the dwindling natural deposits; demands the development of more efficient recovery methods, as well as a move towards urban mining. The latter is becoming more attractive due to the high yields compared with extraction from primary ores. Current recovery rates of precious metals and REEs from spent products are low and there is a need to drive towards a closed-loop recycling system. However; the heterogeneous nature of such secondary sources of precious metals and REEs demands the development of robust methods for the recovery of strategic metals. This Special Issue will contribute to the knowledge gap in the characterization and recycling of precious metals and REEs from spent secondary materials. Spent secondary materials include catalytic converters, electronic boards, magnet scraps, fluorescent lamps, CRTs, LCDs, PV cells, solar panels, batteries, and fly ash, among others.
(https://www.mdpi.com/journal/minerals/special_issues/RPMREEs)

Guest Editors

Prof. Dr. Zenixole Tshentu

School of Biomolecular and Chemical Sciences, Department of Chemistry, Nelson Mandela University, Port Elizabeth 6031, Africa

Dr. Durga Parajuli

Nanomaterials Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), 1-1-1 Higashi, Tsukuba 305-8565, Japan

Deadline for manuscript submissions

closed (15 April 2021)



Minerals

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.4



[mdpi.com/si/46157](https://www.mdpi.com/si/46157)

Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

[mdpi.com/journal/
minerals](https://www.mdpi.com/journal/minerals)





Minerals

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.4



[mdpi.com/journal/
minerals](https://mdpi.com/journal/minerals)



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

Prof. Dr. Leonid Dubrovinsky

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

Author Benefits

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 and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

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).