Special Issue

Recycling of Mining and Solid Wastes

Message from the Guest Editors

The diminishing ore grades pose increasingly significant economic and sustainability challenges for primary extraction from ores. Simultaneously, each year witnesses the establishment of new records for solid waste production, and long-forgotten waste dumps are now being recognized as valuable reservoirs of raw materials. This shift has given rise to a prominent trend: the growing interest in extracting raw materials, particularly the scarcer ones. Within this context, this Special Issue is dedicated to the compilation and presentation of the latest advancements in the processing and extraction of raw materials from mining and solid waste. We cordially invite original research, comprehensive reviews, and technical papers addressing the treatment of mining and metallurgical waste sources (including waste rocks, tailings, slags, dust, and sludges) as well as solid waste widespread generated (plastics, construction and demolition waste equipment, biomass, etc.). We invite you to share the rich possibilities that the recycling of mining and solid wastes present, forging a path toward a more resource-efficient and sustainable future.

Guest Editors

Prof. Dr. Weslei Monteiro Ambros
Mineral Processing Laboratory, Federal University of Rio Grande do Sul, 9500 Bento Gonçalves Avenue, Porto Alegre 91501-970, Brazil

Dr. Irineu Antonio Schadach Brum
Mineral Processing Laboratory, Federal University of Rio Grande do Sul, 9500 Bento Gonçalves Avenue, Porto Alegre 91501-970, Brazil

Deadline for manuscript submissions

closed (30 June 2025)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/188074

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

mdpi.com/journal/minerals

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

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).

MDPI