Special Issue

Novel Advanced Machine Learning Methods in Mineral Processing

Message from the Guest Editors

In mineral processing, there are several linear and nonlinear relationships between material properties and process and design parameters. These correlations can be assessed based on various experimental and numerical methods. Over the last three decades, different intelligent computing and statistical methods, such as genetic algorithms, artificial neural networks, various types of multivariable regression, and tree-based systems, have been introduced in order to describe the complex and sometimes nonlinear relationships. This has resulted in the generation of various intelligent models for the prediction of process responses, i.e., recovery, grade, and comminution or separation efficiency. This special issue will explore the application of "novel advanced machine learning methods in mineral processing".

Guest Editors

Prof. Dr. Saeed Chehreh Chelgani

Minerals and Metallurgical Engineering, Department of Civil, Environmental and Natural Resources Engineering, Luleå University of Technology, SE-971 87 Luleå, Sweden

Prof. Dr. Jan Rosenkranz

Minerals and Metallurgical Engineering, Department of Civil, Environmental and Natural Resources Engineering, Luleå University of Technology, SE-971 87 Luleå, Sweden

Deadline for manuscript submissions

closed (20 September 2020)

Minerals

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 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).