Special Issue

Mineralogic Analysis, Size Distribution and Environmental Impacts of Mine Dust

Message from the Guest Editors

The extraction, transportation, and utilization of mineral resources significantly impact air quality. Understanding the mineralogical composition and size distribution of mine dust is essential for managing its environmental and health impacts. This information provides critical input for toxicity studies, including the assessment of respirability, specific mineral toxicity, surface chemistry, reactivity, bioavailability, and solubility. Detailed dust characterization enables targeted toxicological testing and helps optimize dust management and mitigation strategies, supporting regulatory compliance. The following Special Issue will feature innovative research and reviews on the latest advances in mine dust characterization, focusing on environmental and health impacts. By highlighting new insights, the Special Issue aims to improve the understanding and management of mine dust, ultimately contributing to healthier communities and ecosystems.

Guest Editors

Dr. Johanna von Holdt

Dr. Jennifer Broadhurst

Dr. Conchita Kamanzi

Deadline for manuscript submissions

31 December 2025

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/218938

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