Special Issue

Mineralogical and Chemical Characterization of Rocks, Soils, Sediments, and Water Containing Hazardous Substances

Message from the Guest Editors

Hazardous substances (HSs) include inorganic contaminants such as potentially toxic elements (PTEs) and technology-critical elements (TCEs) and organic contaminants such as emerging contaminants, pesticides, POPs, mycotoxins, PAHs. These substances can naturally accumulate in soil, sediments, and/or water during the weathering of rocks or other natural processes. This Special Issue aims to cover a broad range of topics relevant to the presence of HSs in different ecosystems, including (but not limited to):

- The main factors conditioning HS mobility under specified conditions and consequences.
- Detailed HS partition among minerals and associated potential mobility.
- Establishment of sources of HS causing contamination in soil, sediments, or water.
- Weathering of HS-bearing rocks and mining wastes.

The aim of this Special Issue is to bring together researchers from different fields involving geochemistry and mineralogy in soil, sediment, and water to provide a more comprehensive understanding of the natural and anthropogenic cycles of trace elements. We look forward to receiving your contribution.

Guest Editors

Dr. Silvia Fornasaro

Prof. Dr. Nosir Shukurov

Dr. Gevorg Tepanosyan

Deadline for manuscript submissions

28 February 2026

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/220966

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