# **Special Issue**

### Microanalysis Applied to Mineral Deposits

### Message from the Guest Editors

Societal demand for minerals and metals is increasing, and so-called critical raw materials (CRMs) have lately received much focus. Parallel to this increase. sustainability in the metal supply chain is a growing concern for the public, and the environmental legislation for mining activities has become much stricter in many countries. Since CRMs typically occur as low concentration by-products in ores, more in-depth microanalytical studies of the complex elemental composition of ore deposits are required to enable the optimization of existing mining operations, as larger portions of ore bodies can be recovered. Some metals may have economic by-products. Others are deleterious to the environment or impair the recovery of the main metal commodity. Hence, detailed mineralogical, textural and geochemical knowledge of an ore body is crucial to maximize both the extraction and sustainability of a mining operation. The purpose of this Special Issue, "Microanalysis applied to mineral deposits", is to publish recent research that shows the value and range of microanalytical studies of ore deposits.

### **Guest Editors**

#### Dr. Glenn Bark

Division of Geosciences and Environmental Engineering, Luleå University of Technology, SE-971 87 Luleå, Sweden

#### Prof. Dr. Alan R. Butcher

Circular Economy Solutions Unit, Circular Raw Materials Hub, Geological Survey of Finland, F1-02151 Espoo, Finland

### Deadline for manuscript submissions

closed (28 February 2025)



an Open Access Journal by MDPI

### Impact Factor 2.2 CiteScore 4.4



mdpi.com/si/161139

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



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).