

## Special Issue

# In-Situ Microanalytical Techniques in Geological and Geochronological Research

### Message from the Guest Editor

For decades, we have witnessed the fast-progressing use of in situ microanalytical techniques in geological research that significantly contribute to revealing the details of the mantle and crustal processes. These techniques, including X-ray energy dispersive and wavelength dispersive spectrometry, X-ray fluorescence, electron backscatter diffraction, Raman spectroscopy, secondary ion mass spectroscopy, and laser ablation inductively-coupled mass spectrometry, are common. These highly flexible techniques enable single-point(spot) analysis/ablation for inclusions, line or raster sampling for bulk analysis or imaging, and precise time-depth profiling studies. This Special Issue intends to publish a wide spectrum of interdisciplinary studies and new findings. Investigations that integrate microscopic and microanalytical data quantitatively and forensically to answer novel scientific questions and studies that attempt to advance understanding of terrestrial and extra-terrestrial igneous, metamorphic, and sedimentary processes, as well as mining and ore petrology, are highly welcomed.

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### Guest Editor

Prof. Dr. Basem Zoheir

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### Deadline for manuscript submissions

closed (9 August 2024)



## Minerals

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## 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.

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### Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

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### 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).