



## Vibrational Spectroscopy in Mineralogy and Archaeology

Guest Editors:

**Prof. Dr. Gligor Jovanovski**

Research Center for Environment  
and Materials, Academy of  
Sciences and Arts of the Republic  
of North Macedonia, 1000 Skopje,  
North Macedonia

**Prof. Dr. Petre Makreski**

Institute of Chemistry, Cyril and  
Methodius University, 1000  
Skopje, North Macedonia

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

Dear Colleagues,

Infrared and Raman spectroscopy are the most widely used and important analytical and indirect structural methods in mineralogy and archaeology. Both techniques are irreplaceable for the identification of minerals since the spectrum obtained is a consequence of the characteristic vibrational motions of the building blocks (atoms, molecules or ions) resulting from their interaction with the probed electromagnetic radiation. Apart from the main use of the techniques for characterization purposes, the spectral information obtained is sufficient to determine the changes in the mineral composition and to deliver quantitative and qualitative results on possible impurities and defects in the minerals. In addition, the spectral results provide information about the compositional order of the mineral and the bond distances.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Leonid Dubrovinsky**

Bayerisches Geoinstitut,  
University Bayreuth, D-95440  
Bayreuth, Germany

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**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)

## Contact Us

---

*Minerals* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/minerals](http://mdpi.com/journal/minerals)  
[minerals@mdpi.com](mailto:minerals@mdpi.com)  
[X@Minerals\\_MDPI/](https://twitter.com/Minerals_MDPI/)