# Special Issue

# NMR Spectroscopy in Mineralogy and Crystal Structures: 2nd Edition

## Message from the Guest Editors

NMR mineralogy has been the subject of intense research throughout the 20th century for many minerals. However, new methodologies are now derived from much more modern technological innovations, and therefore, new methods have been developed for the study of atomic coordination, spectroscopically distinct crystalline sites, order and disorder phenomena, atomic mobility, and the role of protons in various structural configurations, as water molecules and as –OH groups, including minerals with paramagnetic impurities, with more detailed capability than ever before. Therefore, the NMR technique is opening a new possibility to describe and explain the nature of the solid state, in a complementary approach to that of synthetic materials, based on the local configurations of atoms that develop or do not develop extended periodic structures. From this new structural model, an investigation into the natural diversity of the crystalline structures of minerals can be derived, such as NMR Mineralogy.

## Guest Editors


Dr. Luis Sánchez-Muñoz

Museo Nacional de Ciencias Naturales (MNCN-CSIC), Jose Gutierrez Abascal 2, 28006 Madrid, Spain

Dr. Isabel Sobrados

Instituto de Ciencia de Materiales de Madrid (CSIC), 28049 Madrid, Spain


## Deadline for manuscript submissions

closed (31 December 2023)


# Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/171713

*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), GEOBASE, 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 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

MDPI