

Special Issue

Vibrational Spectroscopy in Mineralogy and Archaeology

Message from the Guest Editors

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.

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Deadline for manuscript submissions

closed (31 December 2023)



Minerals

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Impact Factor 2.2
CiteScore 4.4



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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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