Special Issue

Study of Minerals by Molecular Spectroscopy

Message from the Guest Editors

Molecular spectroscopy techniques such as infrared spectroscopy (IR), Raman spectroscopy (RS), ultraviolet-visible spectroscopy (UV-Vis), nuclear magnetic resonance (NMR), and electron paramagnetic resonance (EPR) are powerful experimental methods for studying the molecular structure of chemical compounds in different physical states. Therefore, these techniques are used in many fields of science for mineral research on the chemical structure of minerals, their interaction with the environment in which they are placed, and the natural processes they undergo... The aim of this Special Issue on "Study of minerals by molecular spectroscopy" is to underline the usefulness of various techniques of molecular spectroscopy—in particular, new methodologies—and the computational modeling of molecular spectra to characterize the fundamental properties of minerals and elucidate the results of laboratory experiments and industrial or natural processes. Both experimental and experimental–theoretical works are welcomed for publication in this Issue.

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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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