Special Issue

Vibrational (Infrared and Raman) Spectroscopy of Minerals

Message from the Guest Editors

The history of the development of vibrational spectroscopy as a structural and analytical method covers the period from the end of the 19th century, when, for the first time, it was possible to connect the absorption of infrared radiation with the vibrations of atoms and their groups, to the present time. Vibrational (infrared and Raman) spectra are multi-parameter characteristics ,and in their diagnostic capabilities, are comparable to powder X-ray diffraction. [...] This Special Issue will focus on recent advances in the infrared and Raman spectroscopy of minerals, including the application of these methods to the investigation of local characteristics of crystal structures of minerals, analysis of microscopic inclusions, identification of mineral species and chemical groups in minerals, investigations in the areas of space mineralogy, environmental mineralogy, biomineralogy, gemmology, analysis of hydrogen in nominally anhydrous minerals, and the characterization of synthetic analogues of minerals.

Guest Editors

Dr. Nikita V. Chukanov

Institute of Problems of Chemical Physics of Russian Academy of Sciences, Chernogolovka, Russia

Dr. Marina F. Vigasina

Faculty of Geology, Lomonosov Moscow State University, Vorobievy Gory, 119991 Moscow, Russia

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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

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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).

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