Special Issue

NMR Spectroscopy in Mineralogy and Crystal Structures

Message from the Guest Editors

NMR mineralogy has been a subject of intensive research along the 20th Century in many minerals. But new methodologies are now derived from much more modern technological innovations, and thus novel methods are available for the study of atomic coordinations, spectroscopically-distinct crystal sites, order-disorder phenomena, atomic mobility, and the structural role of protons in several structural configurations as water molecules and also as –OH groups, including minerals with paramagnetic impurities, with a more detailed capability than never before. Therefore, the NMR technique is opening a new possibility to describe and explain the solid state in Nature, in a complementary approach to that from synthetic materials, based on the local configurations of atoms that develop or do not develop extended periodic arrangements. This new structural model can be derived from the research of the natural diversity of the crystal structures in Minerals.

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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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