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NQR of Polymorphic Crystals

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Message from the Guest Editor

Nuclear quadrupole resonance (NQR) spectroscopy is sometimes considered an 'exotic' variant of NMR and is not used as widely as NMR. However, it is becoming more and more clear that especially in the field of crystalline polymorphism, there are advantages of NQR spectroscopy that can help solve many questions more easily than NMR. Different polymorphic structures often exhibit minuscule shifts or splitting of NMR lines; in NQR, the resonance frequencies are directly defined by the crystalline structure and the shifts are much more pronounced and easily distinguished. The usefulness of NQR is nowadays further enhanced by DFT calculations that allow for the calculation of the electric field gradient, thus establishing a link between the structural arrangement and the corresponding NQR spectra.

This Special Issue, entitled “NQR of Polymorphic Crystals”, aims to collect original research papers and review articles on NQR studies on polymorphic crystals, not just in the sense of different crystalline forms of the same molecules, but also other related solid state forms, such as co-crystals, solvates, salts and amorphous forms.

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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