



NQR of Polymorphic Crystals

Guest Editor:

Dr. Tomaž Apih

Jozef Stefan Institute, Jamova 39,
1000 Ljubljana, Slovenia

Deadline for manuscript
submissions:

closed (30 April 2020)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, PI, Italy

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 crystal, where science merges with beauty and innovation.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Inspec](#), [Ei Compendex](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)

Contact Us

Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/crystals
crystals@mdpi.com
[X@Crystals_MDPI](#)