



crystals



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Nucleic Acid Crystallography

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Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editor

The purpose of this Special Issue is to provide an update of the developments and trends in nucleic acid crystallography including both X-ray and neutron diffraction methods. We seek research and review articles about any aspect of nucleic acid crystallography including construct design, synthesis, purification, crystallization screen design, crystal derivatization with heavy atoms, heavy atom incorporation in synthetic RNA and DNA, post-crystallization crystal improvement, cryocrystallography, diffraction methods (e.g. serial crystallography, XFELs, radiation damage), crystal twinning, packing disorder, pseudosymmetry, diffuse scattering, phasing methods, map interpretation, model building, structure refinement, structural error analysis, structure comparisons, structural bioinformatics, drug–nucleic acid complexes, and the use of crystallography to aid the development of nanotechnology.

- Nucleic acid synthesis and purification
- RNA and DNA crystallization
- RNA and DNA crystal improvement
- Nucleic acid diffraction studies
- RNA and DNA structure determination
- RNA and DNA model building
- Nucleic acid structure analysis
- Nucleic acid structural bioinformatics



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Special Issue



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Editor-in-Chief

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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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