

## Special Issue

# Protein Crystallography: Achievements and Challenges

### Message from the Guest Editors

Proteins are the most important biological macromolecules and are involved in almost all aspects of life. Therefore, the study of the structure of proteins is of great practical and fundamental importance. On the one hand, knowledge of the spatial structure is necessary to study the basic principles of protein functioning, for example, the mechanisms of enzymatic reactions. On the other hand, knowledge of the spatial structure of proteins is used, for example, in biotechnology for the design of enzymes with desired properties, as well as in drug design. Today, the main method for determining the spatial structure of a protein is X-ray structural analysis of protein crystals. The main difficulty in applying this method is obtaining a highly perfect protein crystal. In this Special Issue, articles devoted to the description of the spatial structures of proteins, as well as articles devoted to the practical and theoretical aspects of improving the quality of protein crystals, are welcome.

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### Guest Editors

Dr. Vladimir Timofeev

Dr. Hiroaki Tanaka

Dr. Yuri Pisarevsky

Dr. Margarita Marchenkova

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### Deadline for manuscript submissions

closed (20 April 2022)



## Crystals

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*Crystals*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[crystals@mdpi.com](mailto:crystals@mdpi.com)

[mdpi.com/journal/  
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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli  
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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