

## Special Issue

# Crystallographic Studies of Enzymes

### Message from the Guest Editors

Enzymes play a major role in control of key biological processes by accelerating chemical processes. Hence, examining their structures and reaction mechanisms is essential for understanding not only the biological processes at a molecule level but also their application in various fields such as protein engineering and drug development. Indeed, enzymes such as protein kinases or proteases can be considered major drug targets for many diseases. Although cryoEM and NMR provide useful structural information, X-ray crystallography is the best because it elucidates the atomic structure of enzymes, which can be used as a frame for structure-based protein engineering or drug development. In these aspects, enzyme crystallography can be considered a door leading to a new world.

In this Special Issue, we intend to collect research manuscripts on enzyme crystallography. However, since the goal of this Issue is to provide rich resources on enzymes regarding their structural and functional aspects, we also encourage manuscript submissions of studies on the structure, function, and application of enzymes, which would provide complementary information for enzyme crystallography.

---

### Guest Editors

Prof. Dr. Kyeong Kyu Kim

Department of Molecular Cell Biology, School of Medicine, Sungkyunkwan University, Suwon 16419, Republic of Korea

Prof. Dr. T. Doohun Kim

Department of Chemistry, College of Natural Science, Sookmyung Women's University, Seoul 04310, Korea

---

### Deadline for manuscript submissions

closed (31 October 2019)



## Crystals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.4  
CiteScore 5.0



[mdpi.com/si/23989](https://mdpi.com/si/23989)

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

[mdpi.com/journal/  
crystals](https://mdpi.com/journal/crystals)





# Crystals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.4  
CiteScore 5.0



[mdpi.com/journal/  
crystals](https://mdpi.com/journal/crystals)



## 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.

---

### Editor-in-Chief

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

---

### 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)