



Crystallography on Metal-Organic Frameworks and Beyond

Guest Editors:

Dr. Anssi Peuronen

Department of Chemistry,
University of Turku, Turku,
Finland

Dr. Thomas Roseveare

Postdoctoral Research Associate,
Leverhulme Trust Research
Project Grant

Deadline for manuscript
submissions:

closed (20 January 2021)

Message from the Guest Editors

As porous materials, MOFs benefit significantly from their inherit functional and structural tunability, which allows for the design of materials with desirable properties for a specific application, such as capture, storage, separation, or catalysis. Techniques that use external stimuli (pressure, temperature, light irradiation, etc.) to probe the properties of MOFs are essential to providing information on the applications of these crystalline porous materials. These techniques are frequently used in combination with crystallographic analyses to correlate the structure to the properties. Further insight can be achieved when these complementary analyses are used in unison.

This Special Issue welcomes research articles from the broad field of crystallography in MOFs. We aim to cover topics spanning from conventional crystallographic analysis to in situ studies while focusing on the structure, function, and properties of MOFs. We also welcome contributions that utilize complementary techniques as well as the application of database analysis to further our understanding of specific porous materials as well as those resembling MOFs in terms of a comparable structure or function.





crystals



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, 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 *Crystals*, 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](#), [CAPus / 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](#)