



crystals



an Open Access Journal by MDPI

Synthesis, Modeling, Characterization and Applications of Metal-Organic Frameworks

Guest Editors:

Prof. Dr. Diego A. Gómez-Gualdrón

Department of Chemical and Biological Engineering, Colorado School of Mines, Golden, CO 80401, USA

Dr. Yamil J. Colón

1. Institute for Molecular Engineering, University of Chicago, Chicago, IL 60637, USA
2. Institute for Molecular Engineering and Materials Science Division, Argonne National Laboratory, Lemont, IL 60439, USA

Deadline for manuscript submissions:

closed (20 June 2018)

Message from the Guest Editors

The Special Issue on “Synthesis, Modeling, Characterization, and Application of Metal-Organic Frameworks” is intended to provide a unique international forum aimed at covering a broad description of experimental and simulation results demonstrating: successful and innovative applications of MOFs, elucidation of the structure of MOFs across different scales, rational design and control of MOF structure during synthesis, accurate prediction of MOF properties using computational methods, and discovery of fundamental connections between MOF structure and properties. Scientists working in a wide range of disciplines are invited to contribute to this cause.

The Keywords are:

- MOF novel structures
- MOF simulation
- MOF characterization
- MOF-hybrid materials
- MOF self-assembly
- MOF rational design



mdpi.com/si/11773

Special Issue



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 *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](#), [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](#)