

Special Issue

Crystallography on Metal-Organic Frameworks and Beyond

Message from the Guest Editors

As porous materials, MOFs benefit significantly from their inherent 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.

Guest Editors

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Deadline for manuscript submissions

closed (20 January 2021)



Crystals

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Impact Factor 2.4
CiteScore 5.0



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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.

Editor-in-Chief

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