Special Issue

Linking Two Apparently Distant Worlds: Crystals and Microorganisms

Message from the Guest Editors

With this Special Issue, we intend to stimulate your curiosity and resourcefulness by combining two apparently distant worlds, crystals and microorganisms, which actually have many meeting points. Crystals are extremely varied materials and attract a lot of attention because of their exclusive properties. Inorganic crystals have been proven to encase extremophiles, questioning extraterrestrial life implications.

A lot of interesting cues derive from the study of such type of materials, for which we would like to combine all the physical/chemical aspects of crystals and the biological world. A comprehensive overview of the state-of-the-art and recent advances in all the following aspects are envisaged: microbial crystal production; synthesis conditions; taxonomical groups involved; life inside crystals; biological crystal applications; and use of crystal materials to enhance biomolecule production. We expect to collect a set of contributions on the chemical structure of biological crystals, and research on bacterial 2D crystal structures, their occurrence, and formation.

Guest Editors

Dr. Carmen Rizzo

1. Stazione Zoologica Anton Dohrn, Sicily Marine Centre, Contrada Porticatello 29, 98167 Messina, Italy
2. Institute of Polar Sciences, National Research Council, Spianata S. Raineri 86, 98122 Messina, Italy

Dr. Angelina Lo Giudice

Institute of Polar Sciences, National Research Council, Spianata S. Raineri 86, 98122 Messina, Italy

Deadline for manuscript submissions

closed (15 August 2022)

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/si/53472

Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

mdpi.com/journal/crystals

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/journal/crystals

MDPI

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)