



*crystals*



an Open Access Journal by MDPI

## Magnetic, Dielectric, Electrical, Optical and Thermal Properties of Crystalline Materials

Guest Editors:

**Prof. Dr. Khitouni Mohamed**

Department of Chemistry,  
College of Science, Qassim  
University, Buraidah 51452, Saudi  
Arabia

**Prof. Dr. Joan-Josep Suñol**

Department of Physics, University  
of Girona, Campus Montilivi s/n,  
17003 Girona, Spain

Deadline for manuscript  
submissions:

**closed (30 November 2023)**

### Message from the Guest Editors

Metal and alloy materials have been widely used and studied in recent years. Through their microstructural and textural characterization, many physical and mechanical phenomena and properties have been identified and explained. New synthesis and deformations methods of these materials with good flexibility and high productivity have been reported. Meanwhile, their performance evaluation and application in their proper fields have been presented. Furthermore, a number of recent studies have demonstrated that severe plastic deformation processes are capable of producing materials with ultrafine grain sizes, as well as both high strength and ductility. Equal channel angular pressing, high-pressure torsion, accumulative rolling bonding, and multidirectional forging have received the most scientific and industrial attention.

This Special Issue aims to collect original research articles and reviews focusing on microstructure, texture, and mechanical properties for materials, with good properties, synthesized with advanced manufacturing techniques, and used for new applications.



[mdpi.com/si/147435](https://mdpi.com/si/147435)

# Special Issue



*crystals*



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](#), [CAPus](#) / [SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

---

*Crystals* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/crystals](http://mdpi.com/journal/crystals)  
[crystals@mdpi.com](mailto:crystals@mdpi.com)  
[X@Crystals\\_MDPI](https://twitter.com/Crystals_MDPI)