

## Special Issue

# Microstructure Characterization and Design of Alloys

### Message from the Guest Editors

Materials behaviour are closely related to its microstructure and reaching its optimum depend on a suitable processing route design. Therefore, characterization techniques are crucial to find the relationships between the materials properties and the microstructure features and phases.

The purpose of the Special Issue “Microstructure characterization and design of alloys” of Crystals is to provide an international forum for ground-breaking investigations on the design of alloys focused on its microstructure characterization. Scientific contributions on alloy design using computational or experimental approaches, microstructure characterization of alloys using conventional or advanced techniques, the correlations between microstructure and material properties and material properties predictions by using computational tools involving modelling and simulation are welcome to this issue. In addition, articles dealing artificial intelligence materials and its applications to alloy design are also welcome.

---

### Guest Editors

Dr. Maria Cecilia Poletti

Prof. Dr. Silvana Sommadossi

Dr. Ricardo H. Buzolin

---

### Deadline for manuscript submissions

closed (10 August 2022)



## Crystals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.4  
CiteScore 5.0



[mdpi.com/si/78896](https://mdpi.com/si/78896)

*Crystals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[crystals@mdpi.com](mailto:crystals@mdpi.com)

[mdpi.com/journal/  
crystals](https://mdpi.com/journal/crystals)





# Crystals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.4  
CiteScore 5.0



[mdpi.com/journal/  
crystals](https://mdpi.com/journal/crystals)



## 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)