

## Special Issue

# Advanced Semiconductor Materials and Devices

### Message from the Guest Editors

We are pleased to announce that the selected articles presented at the 44th International Semiconductor Conference – CAS 2021, an IEEE event, 6–8 October 2021 (<https://www.imt.ro/cas/>), will be published in a Special Issue of *Crystals*. CAS 2021 cordially invites authors to submit extended versions of their original papers and contributions to the Special Issue of *Crystals* (at least 50% extension for the submissions), provided that they fall within the following topics:

- Nanoscience and nanoengineering
- Micro- and nanophotonics and optoelectronics
- Microwave and millimeter wave circuits and systems
- Microsensors and microsystems
- Modelling
- Semiconductor devices
- Integrated circuits

The main goal of this Special Issue is to present the latest research results, technological advances and applications in the areas of micro- and nanotechnologies and semiconductor electronics. This Special Issue of *Crystals* is open to submissions from participants at the 44th International Semiconductor Conference—CAS 2021, as well as from other researchers working in the field.

---

### Guest Editors

Dr. Mihaela Kusko

Nanobiotechnology Laboratory, National Institute for R&D in Microtechnologies (IMT-Bucharest), Bucharest, Romania

Dr. Florin Nastase

Research Centre for Integrated Systems Nanotechnologies and Carbon Based Nanomaterials (CENASIC), National Institute for Research and Development in Microtechnologies (IMT Bucharest), 077190 Bucharest, Romania

---

### Deadline for manuscript submissions

closed (31 January 2022)



## Crystals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.4  
CiteScore 5.0



[mdpi.com/si/92188](https://mdpi.com/si/92188)

*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)