



*crystals*



an Open Access Journal by MDPI

## Beyond the Horizon: Exploring the Advances in Graphene Material Advancements

Guest Editors:

**Prof. Dr. Cristian Vacacela Gomez**

INFN-Laboratori Nazionali di  
Frascati, Via E. Fermi 54, I-00044  
Frascati, Italy

**Prof. Dr. Stefano Bellucci**

INFN-Laboratori Nazionali di  
Frascati, 00044 Frascati, Italy

**Dr. Talia Tene**

Department of Chemistry,  
Universidad Técnica Particular  
de Loja, Loja, Ecuador

Deadline for manuscript  
submissions:

**30 September 2024**

### Message from the Guest Editors

This Special Issue, "Beyond the Horizon: Exploring the Frontier of Graphene Material Advancements", presents an in-depth exploration of the latest developments in graphene research. Authored by experts in the field, this Special Issue delves into groundbreaking graphene synthesis methods, advanced characterizations, and diverse applications.

The journey begins with innovative techniques for precise control over graphene's properties, followed by cutting-edge characterizations that unravel its complexities. Applications spanning electronics, photonics, energy storage, and flexible technologies showcase graphene's transformative impact. This Special Issue also explores interdisciplinary intersections, revealing graphene's influence in biotechnology, medicine, and environmental science. It invites researchers and engineers to embrace graphene's limitless potential and offers a roadmap to navigate its boundless potential. This Special Issue is your portal to a world wherein graphene's versatility and ingenuity have no bounds, inspiring innovation and discovery in this remarkable material.



[mdpi.com/si/185349](https://mdpi.com/si/185349)

# 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)