



## Organic-Inorganic Hybrid Metal Cluster Compound

Guest Editors:

**Dr. Shailesh Narain Sharma**

CSIR-National Physical  
Laboratory (NPL), New Delhi,  
India

**Dr. Parth Vashishtha**

Quantum Science Ltd.,  
Warrington, UK

Deadline for manuscript  
submissions:

**closed (30 September 2023)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue on organic–inorganic hybrid metal cluster compounds will center on organic–inorganic hybrid materials and their utilization as optical and electronic functional materials for the development of new technologies. Mostly, we will focus on organic–inorganic hybrid materials containing polymers as one of the components, which will widen the scope of hybrid materials for diverse areas of applications.

For the improvement of hybrid photovoltaic systems of inorganic semiconductors and conducting polymers: (i) the right combination of inorganic and organic semiconductors should be chosen; (ii) the LUMO of the conducting polymer needs to be aligned with the conducting band of the inorganic semiconductor; or (iii) the bandgap of the inorganic semiconductor can be tuned by the quantum confinement effect. The comprehensive depiction and discussion of a variety of hybrid functional organic–inorganic materials and their contribution to the design of specific modern technologies is the prime focus of this Special Issue.





# crystals



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Alessandra Toncelli**

Department of Physics, University  
of Pisa, 56126 Pisa, 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, Grosspeteranlage 5  
4052 Basel, Switzerland

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

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