



## Coordination Polymers: Structure, Bonding and Applications

Guest Editors:

**Dr. Stefano Brenna**

Dipartimento di Scienza e Alta  
Tecnologia, Università degli Studi  
dell'Insubria, Via Valleggio, 9 -  
22100 Como, Italy

**Dr. Gioele Colombo**

Dipartimento di Scienza e Alta  
Tecnologia, Università degli Studi  
dell'Insubria, Via Valleggio, 9 -  
22100 Como, Italy

Deadline for manuscript  
submissions:

**closed (30 December 2020)**

### Message from the Guest Editors

Coordination polymers (CPs) are based on metal ions connected by coordinated ligands so that an infinite array is originated. CPs have been widely investigated in the last decades due to their inherent fascinating properties: indeed, the rationale choice of the metal and the coordinated ligand strongly influences the resulting coordination polymer, leading to a huge variety of structures. As a result of versatility, CPs can find application in different fields of interest, as catalysis, luminescence, magnetism, conductivity, gas adsorption and separation, drug delivery. Hence, the search for new coordination polymers, and a thoroughly understanding of their bonding and structure is a crucial topic both for chemists and material scientists.

This Special Issue of “Crystals” is expected to provide a platform to report results in the synthesis and characterization of coordination polymers, with special attention to their bonding and crystal structure description. Furthermore, articles or short reviews highlighting the several applications of CPs are also welcome.





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