



## Conductive Polymers: from Dye Sensitized Solar Cells to Neural Recording

Guest Editors:

**Dr. Stefano Carli**

Department of Environmental  
and Prevention Sciences,  
University of Ferrara, Ferrara,  
Italy

**Dr. Michele Bianchi**

Italian Institute of Technology,  
Center for Translational  
Neuroscience, via Fossato di  
Mortara 17-19, Ferrara, Italy

**Dr. Jennifer Gerasimov**

Laboratory of Organic  
Electronics, Department of  
Science and Technology,  
Linköping University, SE-60174  
Norrköping, Sweden

Deadline for manuscript  
submissions:

**closed (30 December 2020)**

### Message from the Guest Editors

Dear Colleagues,

Conductive polymers (CPs) have recently drawn widespread research attention owing to their intrinsic properties and stability compared to extrinsically conductive polymers, which are blends of electrically conductive additives (metallic materials or carbon materials) with thermoplastic polymers. CPs can be prepared either through electrochemical deposition or by chemical synthesis. The enhancement of electrical conductivity in ICPs following an increase in their crystallinity has been widely documented. However, due to the rapid development of the ICP sector, a more detailed and continuous investigation is imperative. For instance, thermoelectric and mechanical properties of ICPs can be improved by tuning the degree of crystallinity. Further, electrochemical and other key properties of ICPs are known to be dependent on the phase micro-structure. The aim of this Special Issue of Crystals is to collect and publish papers that emphasize the important role of conductive polymers.





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](#)