



## Applications and Innovations in Electroceramics

Guest Editors:

**Dr. Suresh Kumar Jakka**

I3N & Department of Physics,  
University of Aveiro, 3810-193  
Aveiro, Portugal

**Dr. João Paulo Costa Do  
Nascimento**

1. Laboratório de  
Telecomunicações e Ciências e  
Engenharia de Materiais  
(LOCEM), Departamento de  
Física, Universidade Federal do  
Ceará (UFC), Fortaleza, CE, Brazil  
2. Instituto Federal de Educação,  
Ciência e Tecnologia do Ceará,  
PPGET, Fortaleza, CE, Brazil

Deadline for manuscript  
submissions:

**15 January 2025**

### Message from the Guest Editors

Electroceramics encompasses a broad range of materials that present diverse properties, such as electrical, optical, piezoelectric, luminescent, among others, which have revolutionized numerous technological applications.

This Special Issue of MDPI aims to explore the latest advancements in electroceramics synthesis, the evaluation of the performance, innovative applications, and other aspects related to electroceramics.

Topics of interest include, but are not limited to, novel fabrication methods; advancements in dielectrics, ferroelectrics, piezoelectrics, and thermoelectrics; and the luminescent properties of electroceramic materials, as well as their applications in energy storage, green hydrogen, environment, sensors, actuators, and telecommunications.

This Special Issue seeks to highlight research that contributes to the scientific community. For that reason, we encourage authors to submit original research articles that provide insightful perspectives on the challenges and opportunities in the field of electroceramics.





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](#)