Special Issue

Advanced Research of Electroceramics for Energy Conversion, Storage and Devices

Message from the Guest Editors

Electroceramics are advanced ceramic materials that are employed in a wide variety of electrical, optical and magnetic applications, with their study being a persistent endeavour in the development of functional materials. In recent decades, the electrification of vehicles, the application of renewable energy sources and the promotion of decarbonization have led to a proliferating demand for energy conversion and storage devices. In addition, due to the rapid growth of wireless communication systems and microwave products in the electronic market, small, lightweight and multifunctional components are required. Since the close relationship between structure, morphology and physical properties is well established, understanding the formation mechanisms from both theoretical and experimental perspectives is essential in order to improve the synthesis processes of enhanced functional materials. This Special Issue aims to address all the relevant aspects of advanced electroceramics for energy conversion, storage and devices, attending also to the different processing and characterization techniques.

Guest Editors

Dr. Susana Devesa

Dr. Luís Cadillon Costa

Dr. Manuel Pedro Fernandes Graça

Dr. Sílvia Soreto Teixeira

Deadline for manuscript submissions

closed (20 June 2025)

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/si/183027

Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

mdpi.com/journal/crystals

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/journal/crystals

About the Journal

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.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)