



Advances in Magnetocaloric Effect Materials

Guest Editors:

Prof. Dr. Mohamed Balli

ParcTechnopolis Rabat,
International University of Rabat,
Rabat, Morocco

Dr. Daniel Fruchart

Institut Néel, CNRS, 38042
Grenoble, France

Deadline for manuscript
submissions:

closed (31 December 2020)

Message from the Guest Editors

In the present Special Issue, we invite scientists and engineers to submit papers that discuss both fundamental and practical aspects of magnetocaloric/multicaloric materials as well as their implementation in functional devices.

The potential topics include but are not limited to:

- Magnetocaloric materials;
- Multicaloric effects in solid-state materials;
- Growth techniques for magnetocaloric materials;
- Magnetic cooling devices;
- AMR (active magnetic refrigeration) thermodynamic cycles;
- Corrosion phenomena, mechanical brittleness and hysteresis issues;
- Electronic structure and theoretical models;
- Anisotropic magnetocaloric effects.





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](#), [CAPlus / 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

mdpi.com/journal/crystals
crystals@mdpi.com
[X@Crystals_MDPI](#)