

## Special Issue

# Advances in Caloric Materials

### Message from the Guest Editor

In the present Special Issue, we invite investigators to submit papers that discuss the crystalline structure, physical properties and practical aspects of solid-state caloric materials, including, but are not limited to, bulk forms, single crystals, thin films and nanomaterials. The potential topics include, but are not limited to:

- Magnetocaloric materials
- Electrocaloric materials
- Mechanocaloric materials
- Bulk, thin films and nanomaterials
- Growth of caloric materials
- Crystalline structure and physical properties
- Measurement of caloric effects under external excitations
- Prediction of caloric effects in solid state materials
- Interplay phenomena in caloric materials
- Numerical simulation of thermodynamic cycles employing caloric materials
- Experimental tests in functional caloric devices
- Mechanical and chemical issues
- Hysteretic effects in caloric materials
- Electronic structure
- Rotating magnetocaloric effect
- Caloric devices

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### Guest Editor

Prof. Dr. Mohamed Balli

ParcTechnopolis Rabat, International University of Rabat, Rabat, Morocco

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### Deadline for manuscript submissions

closed (31 July 2019)



## Crystals

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## 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.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli

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#### Journal Rank:

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