Special Issue

Symmetry in Crystals and Their Magnetic Properties

Message from the Guest Editors

- Understanding crystal structures and symmetry is crucial for revealing unique physical properties. Transition metals exhibit diverse coordination geometries, from octahedral and tetrahedral to square planar, trigonal prismatic, and distorted geometries, influenced by ligand fields, steric effects, or Jahn-Teller distortion. The interplay between these polyhedra and crystal symmetry gives rise to intriguing magnetic behaviors, including ferro-, ferri-, and antiferromagnetic ordering, as well as spin glass states, spin liquids, and magnetic frustration.
- We are pleased to announce a Special Issue inviting research contributions on the crystal structure and magnetic properties of materials, focusing on crystal structures of new inorganic or organometallic materials and their magnetic properties. This Special Issue aims to cover various aspects, including the synthesis and crystal structure determination of new materials using single-crystal X-ray diffraction, neutron, or synchrotron-based diffraction, and their magnetic properties. Submissions that explore the crystal structure and magnetic property relationship of new or existing materials are welcome.

Guest Editors

Dr. Mohammed Hadouchi

Laboratoire de Chimie Appliquée des Matériaux, Faculty of Science, Mohammed V University in Rabat, Avenue Ibn Battouta, Rabat BP 1014, Morocco

Dr. Abdelilah Lahmar

Laboratoire de Physique de la Matière Condensée (LPMC), Université de Picardie, Jules Verne, Pôle Scientifique, CEDEX 1, 80039 Amiens, France

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

mdpi.com/journal/symmetry

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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