



symmetry

an Open Access Journal by MDPI



Multiferroic Dynamics

Guest Editor:

Prof. Dr. Jamal Berakdar

Martin-Luther-Universität Halle-
Wittenberg, Institut für Physik,
Karl-Freiherr-von-Fritsch-Str. 3, D
- 06120 Halle (Saale), Germany

Deadline for manuscript
submissions:

closed (31 May 2019)

Message from the Guest Editor

Materials with coexisting multiple orders, named multiferroics, are attracting a great deal of attention and are part of the concept of multifunctional devices. On a fundamental level, multiferroic systems allow investigating the connection and interplay between symmetry, electronic correlation, magnetism, polarization, and/or elasticity. The coupling strength between the order parameters, as well as the underlying coupling mechanisms are crucial for the material physical properties, and govern the dynamical response to external driving fields.

This Special Issue of *Symmetry* features articles on multiferroic systems with an emphasis on symmetry, topology and dynamics. Contributions will cover a broad range of topics including: Novel coupling mechanisms of ferroelectricity with magnetism in single phase and heterostructure materials, emergent multiferroicity at interfaces, topological states, such as skyrmions, ultrafast dynamics in composite multiferroics driven by electric and magnetic fields, ...



mdpi.com/si/12490

Special Issue



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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within SCIE (Web of Science), Scopus, CAPus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
[X@Symmetry_MDPI](https://twitter.com/Symmetry_MDPI)