Special Issue

Advances of Symmetry/Asymmetry in Magnetic Materials

Message from the Guest Editor

Symmetry is one of the central concepts in modern physics and plays a fundamental role in characterizing magnetic materials. Magnetic materials are divided into metal and non-metal according to their properties. The former are mainly Fe, Co, Ni elements and their alloys, rare earth elements and their alloys, and the latter are mainly ferrite materials. It can also be divided into soft magnetic materials, permanent magnetic materials and functional magnetic materials according to their use. These magnetic materials play a huge role in various fields of modern technology, such as memories, transformers, magnetoresistive devices, etc., and are closely related to informatization, automation, and mechatronics. This Special Issue explores various applications of symmetry in magnetic materials. We welcome both original research and review articles. Topics of interest include, but are not limited to, ferromagnetic materials, magnetoresistive devices, Hall devices, and topological spin materials.

Guest Editor

Dr. Hui Zheng
Laboratory for Nanoelectronics and NanoDevices, Department of Electronics Science and Technology, Hangzhou Dianzi University, Hangzhou 310018, China

Deadline for manuscript submissions

closed (30 September 2024)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/181644

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

mdpi.com/journal/symmetry

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/journal/symmetry

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

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, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

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

MDPI