



Advances of Symmetry/Asymmetry in Magnetic 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 (29 February 2024)

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.





symmetry



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

ICREA, P. Lluis Companys 23,
08010 Barcelona and 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 Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (*General Mathematics*); Q1 (*Physics and Astronomy*); Q1 (*Computer Science*)

Contact Us

Symmetry
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/symmetry
symmetry@mdpi.com
@Symmetry_MDPI