

Special Issue

Symmetry/Asymmetry in Condensed Matter Physics

Message from the Guest Editors

Dear Colleagues: Symmetry and asymmetry are fundamental concepts in condensed matter physics, underpinning the emergence of complex phases, topological states, and collective excitations. The investigation of how symmetry is preserved, spontaneously broken, or explicitly broken offers crucial insight into the properties of materials and the mechanisms driving new phenomena. This Special Issue will focus on both theoretical and experimental advances in the understanding of symmetry and asymmetry in condensed matter systems. We invite contributions addressing a broad range of topics, including, but not limited to, the following: * Spontaneous symmetry breaking in quantum materials; * Topological phases and topological insulators; * Symmetry-protected states and topological order; * Charge density waves and structural phase transitions; * Magnetism, spin textures, and skyrmions; * Superconductivity and unconventional pairing symmetry; * Symmetry breaking at interfaces and in low-dimensional systems; * Emergent phenomena from symmetry reduction in engineered structures; * Computational and analytical methods for symmetry analysis. ...

Guest Editors

Prof. Dr. José M. Nieto-Jalil
Dr. Diego Seuret-Jiménez
Dr. Alan Joel Miralrio Pineda

Deadline for manuscript submissions

31 July 2026



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/249085

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

[mdpi.com/journal/
symmetry](https://mdpi.com/journal/symmetry)





Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



[mdpi.com/journal/
symmetry](https://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)