Special Issue

Symmetry in Statistical Physics and Nonlinear Phenomena

Message from the Guest Editor

Symmetry plays a fundamental role in statistical physics and nonlinear phenomena. It refers to the invariance of a system under specific transformations, such as rotations, translations, or reflections. It helps us to understand universal behaviors in different systems and is crucial to understanding phase transitions, such as magnetization or condensation, and influences the critical behavior of systems near transition points. Symmetry is used to simplify and solve statistical models, such as the Ising model, and helps us to understand complex systems, such as networks and patterns. Symmetry is a powerful tool for understanding statistical physics and nonlinear phenomena, enabling the discovery of universal behaviors and the solving of complex problems.

Guest Editor

Prof. Dr. Francisco W. De Sousa Lima
Dietrich Stauffer Computational Physics Lab, Departamento de Física, Universidade Federal do Piauí, Teresina 64049-550, PI, Brazil

Deadline for manuscript submissions

28 February 2026

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/243181

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