

Special Issue

Symmetry and Asymmetry in Nonlinear Optical Processes

Message from the Guest Editor

We are pleased to announce a new Special Issue collection of the journal of *Symmetry*, entitled “*Symmetry and Asymmetry in Nonlinear Optical Processes*”, which aims to provide a comprehensive overview of the role of symmetry in nonlinear optics, a field where fundamental physical principles and technological applications are deeply interconnected. Symmetry governs many aspects of light–matter interaction, including the existence, efficiency and selection rules of nonlinear processes. Conversely, the deliberate introduction of asymmetry can lead to new physical effects and functionalities, expanding the range of achievable optical behaviors. This Special Issue welcomes contributions addressing both fundamental and applied aspects of symmetry and asymmetry in nonlinear optical systems. Topics of interest include, but are not limited to, harmonic generation, wave mixing, nonlinear wave propagation and light localization in structured and unstructured media. Studies exploring novel materials, photonic platforms and experimental techniques are particularly encouraged.

Guest Editor

Prof. Dr. Alessandro Bile

Department of Basic and Applied Sciences, Sapienza, 00161 Rome, Italy

Deadline for manuscript submissions

31 October 2026



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/275720

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
ICREA, 08010 Barcelona and 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)