Special Issue

Symmetry/Asymmetry in Neuromorphic and Intelligent Photonics

Message from the Guest Editors

We are pleased to announce a new Special Issue collection of the journal of *Symmetry* entitled "Symmetry/Asymmetry in Neuromorphic and Intelligent Photonics", for which we are collecting research articles, review articles, and short communications. Recently, photonic materials and devices have attracted significant interest because they possess remarkable properties, such as the ability to reproduce nonlinear operations underlying learning and information storage. Thus, researchers have started to explore the potential applications of these promising photonics materials to realize intelligent systems capable of replicating the neuronal dynamics typical of intelligent brain tissue. This Special Issue aims to showcase contributions from researchers and thinkers in all realms of neuromorphic materials focusing on the symmetry and asymmetry properties and welcoming theoretical, experimental, and review contributions from physicists, biologists, material scientists, mathematicians, doctors, and engineers alike who are engaged and interested in this fast-growing field. All papers will be published in an open access format following peer review.

Guest Editors

Prof. Dr. Alessandro Bile

Department of Basic and Applied Sciences, Sapienza Università di Roma, 00161 Rome, Italy

Dr. Hamed Tari

Department of Basic and Applied Sciences, Sapienza Università di Roma, 00161 Rome, Italy

Deadline for manuscript submissions

30 November 2025

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/210480

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