

# Special Issue

## Symmetry in Antenna Theory and Design

### Message from the Guest Editors

We are pleased to invite you to participate in the Special Issue of the MDPI *Symmetry* journal with the title *Symmetry in Antenna Theory and Design*. *Symmetry* plays a crucial role in natural sciences, and, consequently, increasing interest in utilizing symmetry has appeared in the area of antenna theory and design. In the case of modal approaches of antenna theory, consideration of symmetry can enable the design of uncorrelated channels and orthogonal radiation states for antennas, tracking of modes by sweeping of design parameters, and investigation of fundamental electromagnetic bounds. The introduction of higher symmetry, e.g., glide or twist symmetry, into periodic structures described by a unit cell is expected to yield improvement in their properties, such as increase of bandwidth, reduction of losses, or resistance to defects. Therefore, seeing the potential in utilization of symmetry in antennas and, generally, in electromagnetics, we would like to present the current advances in this topical field through this Special Issue. Original research articles and reviews are welcome...

### Guest Editors

Dr. Pavel Hazdra

Department of Electromagnetic Field, Faculty of Electrical Engineering, Czech Technical University in Prague, 16636 Prague, Czech Republic

Dr. Jan Kracek

Department of Electromagnetic Field, Faculty of Electrical Engineering, Czech Technical University in Prague, 16636 Prague, Czech Republic

### Deadline for manuscript submissions

closed (31 October 2024)



## Symmetry

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 5.4



[mdpi.com/si/99370](https://mdpi.com/si/99370)

*Symmetry*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[symmetry@mdpi.com](mailto:symmetry@mdpi.com)

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





# Symmetry

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 5.4



[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)