

## Special Issue

# Symmetry/Asymmetry in the Numerical Study of Heat Transfer and Fluid Flow

### Message from the Guest Editor

This Special Issue aims to explore the intricate relationships between symmetry and asymmetry in numerical studies of heat transfer and fluid flow. By inviting contributions that delve into various geometrical configurations, this Special Issue seeks to highlight how these design characteristics influence thermal performance and fluid dynamics. Contributions will cover a range of topics, including the effects of symmetrical designs on efficiency, the advantages of asymmetrical configurations in enhancing mixing and heat distribution, and the implications for engineering applications such as heat exchangers and cooling systems. Through a collection of innovative research articles, this Special Issue will provide valuable insights into optimizing fluid flow and heat transfer processes, fostering advancements in both theoretical understanding and practical applications. Researchers are encouraged to present novel numerical approaches, case studies, and comparative analyses that further our understanding of these critical phenomena. We look forward to receiving your contributions.

### Guest Editor

Dr. Xiaolong Li

School of Energy and Environmental Engineering, Hebei University of Technology, Tianjin 300401, China

### Deadline for manuscript submissions

28 February 2026



## Symmetry

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 5.3



[mdpi.com/si/245280](https://mdpi.com/si/245280)

*Symmetry*  
Editorial Office  
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 5.3



[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)