Special Issue

Symmetry/Asymmetry in Micro/Nanofluidic Devices and Applications

Message from the Guest Editors

Microfluidics and nanofluidics are transformative fields that deal with the behavior and manipulation of fluids at the microscale and nanoscale, respectively. The design of micro- and nanofluidic devices is critical due to their widespread use in various applications, including, but are not limited to, biochemical reactions, biosensing, single-cell analysis, next-generation sequencing, microparticle synthesis, drug delivery, energy harvesting, and sample deposition. This Special Issue of the journal Symmetry focuses on the innovative use of symmetry and asymmetry in the realm of micro/nanofluidic devices. It is dedicated to showcasing recent advancements in the field, where symmetry and asymmetry are not just fundamental concepts but are actively harnessed to model, design, and fabricate new devices. The issue aims to explore how these principles influence the performance and functionality of micro/nanofluidic systems and how they can be applied in practical scenarios to solve real-world problems.

Guest Editors

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Deadline for manuscript submissions

31 October 2025

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/214963

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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

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