

## Special Issue

# Symmetry/Asymmetry in Composite Materials and Its Applications

### Message from the Guest Editor

Symmetry and asymmetry are ubiquitous in nature and technology in various composite materials. They represent an emerging class of functional composite materials, known as universal materials, because their unique properties depend on the geometric shape of their internal structure. Some types of composite materials include sandwich structures, porous materials, and functional coating materials. The thermal conductivity, electrical conductivity, and dynamic mechanical properties of composite materials are crucial in the future aerospace, energy, and automotive industries. Here, different types of symmetry and asymmetry may occur, and utilizing their advantages has always been a priority for engineering applications. Therefore, research on the symmetry and asymmetry analysis of composite materials and systems is crucial for academia and industry professionals to improve the performance and develop the applications of these composite materials. This Special Issue focuses on symmetry and asymmetry in composite materials, aiming to enhance design and manufacturing processes. Contributions on engineering applications, including original research and review articles, are invited.

### Guest Editor

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### Deadline for manuscript submissions

30 November 2025



## Symmetry

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**Impact Factor 2.2**  
**CiteScore 5.3**



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### 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.

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### Editor-in-Chief

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