

## Special Issue

# Symmetry and Asymmetry in Composite Materials and Its Applications

### Message from the Guest Editor

In various composite materials, symmetry and asymmetry are ubiquitous in nature and technology. They represent a class of emerging lightweight and/or energy materials referred to as architected, because their unique properties depend on the geometry of their internal structure. The aim of this Special Issue is to explore the symmetry and asymmetry in various composite materials, in order to provide a theoretical basis for their improved design and manufacturing. Original research studies and review articles related to the engineering applications of composite materials from a symmetry and asymmetry perspective are encouraged. Potential topics include, but are not limited to, the following:

- Mechanical behaviors of composite materials and structural systems;
- Symmetric and asymmetric characteristics;
- Non-linearities: dynamic modelling;
- Experimental testing: methods and instrumentation;
- Coupling analysis for composite materials;
- Inverse methods—parameter identification.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 July 2023)



## Symmetry

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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.

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### Editor-in-Chief

Prof. Dr. Sergei Odintsov  
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