

Special Issue

Symmetry-Based Design of Advanced Composite Materials for Structural Applications

Message from the Guest Editors

Symmetry plays a fundamental role in the design and optimization of advanced composite materials for structural and functional applications. Recent progress in material science, computational modeling, and experimental characterization has enabled the development of innovative composites with enhanced mechanical, thermal, and multifunctional properties. This Special Issue aims to bring together cutting-edge research on symmetry-based approaches applied to composite materials, including theoretical studies, numerical simulations, and experimental investigations. Topics of interest include the influence of symmetry on microstructure–property relationships, the design of multifunctional composites for energy and structural applications, and the integration of advanced materials in sustainable technologies. Contributions addressing modeling, fabrication, performance evaluation, and novel applications of symmetric or symmetry-broken composite systems are welcome. This issue provides an international platform for researchers to share their latest findings and foster collaboration across disciplines.

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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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