Special Issue

Symmetry/Asymmetry of Composite Materials and Structures

Message from the Guest Editor

The research in composite materials and structures is closely related to symmetry. For example, symmetric stacking sequences are mostly used to manufacture composite components, and most composite structures are symmetrical in configuration. The study of the symmetry and asymmetry of composite materials and structures is a critical issue. Symmetric components or structures made of composite materials are widespread in automotive, civil engineering, aeronautics, and astronautics industries. Moreover, ideal composite materials can be obtained through the design and control of symmetrical, periodic meso-structure and micro-structure, and novel material properties such as lightweight materials, negative Poisson's ratio materials, and even metamaterials can be obtained. From an analytical point of view, symmetry/asymmetry phenomena provide a convenient way to simplify and establish numerical methods, which may lead to interesting results. This Special Issue invites researchers to submit original research papers and review articles related to composite materials and structures in which theoretical or practical issues of symmetry are considered.

Guest Editor

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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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