

Special Issue

Advances in Metamaterial and Symmetry/Asymmetry

Message from the Guest Editors

Metamaterials, usually referred to as artificial composites, have attracted extensive interest due to their peculiar electromagnetic (EM) features that natural materials cannot directly obtain. In addition to the studies and search for novel and exotic physical properties, metamaterial-based resonance devices also attracted considerable attention due to the fact that they have the ability to manipulate and control incident EM waves at sub-wavelength dimensions, which show promising applications in the fields of optical imaging, medical detection, mechanical engineering, communication, etc. The core feature that affects the EM properties, functional devices, and applications of metamaterials is the structural design of their unit cells, not the materials that make them. As a result, the structural engineering of metamaterials has become a key factor affecting the properties of metamaterials. In terms of their structural engineering, symmetry and asymmetry structure design strategies appear in all aspects of metamaterials. This journal *Symmetry* conforms to the design principle of metamaterials.

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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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