



symmetry



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Symmetry in the Mechanical Behavior of Materials

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Message from the Guest Editor

Dear Colleagues,

Symmetry is an inherent property in most natural and man-made materials which contributes to aerospace, naval, and automobile industries by constructing balanced mechanical systems. With the development of advanced functional materials, symmetry not only exists in the elastic–plastic stress distribution, but also in the coupling process of multi-physics, which proposes higher requirements for the research and design of mechanical properties. The goal of this Special Issue, entitled "Symmetry in Mechanical Behavior of Materials", is to report research on the mechanical behavior of advanced materials and to reveal data on symmetry mechanisms. Topics in this study may include (but are not limited to) advanced material mechanics, intelligent structural mechanics, multi-physics coupling, mechanical metamaterial, smart material structures, and related symmetry and properties.



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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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