Special Issue

Symmetry in Soft and Colloidal Materials

Message from the Guest Editor

This Special Issue focuses on the profound role of symmetry in determining the structure, properties, and dynamics of soft and colloidal materials. Soft matter, which includes liquid crystals, polymers, gels, colloids, and biological materials, is characterized by mesoscopic structures and low energy scales, making it highly sensitive to symmetry principles. Contributions are sought that explore how various forms of symmetry—such as translational, rotational, chiral, and discrete symmetries—govern phase transitions, self-assembly processes, and the resulting macroscopic behavior of these complex systems. Topics of interest include, but are not limited to, the symmetry analysis of colloidal crystals and quasicrystals, symmetry breaking in pattern formation, the influence of chirality on molecular and supra-molecular ordering, and the role of symmetry in the design of new functional soft materials. We welcome original research, comprehensive reviews, and perspective articles from theoretical, computational, and experimental studies.

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.

Editor-in-Chief

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