

Special Issue

Symmetry in Molecular Simulation

Message from the Guest Editors

- This Special Issue on “**Symmetry in Molecular Simulation**” aims to highlight recent advancements in the atomic and molecular scale understanding of the mechanical, physical, and chemical behaviors of advanced and nanostructured materials...
- The Special Issue will specifically focus on materials such as composites, alloys, superalloys, high-entropy alloys, amorphous solids, ceramics, two-dimensional materials, and other emerging nanostructured and hybrid materials. Emphasis will be placed on original studies that investigate microstructural evolution, symmetric and non-symmetric crystalline changes, nanomaterial characterization, and property prediction at the atomic scale with clear engineering significance. Recent advances in nanofluids, polymer systems, biopolymers, and membrane technologies represent some of the most compelling and highly anticipated topics in this Special Issue. Additionally, particular emphasis is placed on factors that disrupt asymmetries in the microstructure of materials, such as the emergence of an amorphous phase within a crystalline structure or the presence of functional groups in polymers.

Guest Editors

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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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