

Special Issue

Advances in Nanocomposites with Symmetry/Asymmetry

Message from the Guest Editors

The properties and functions of nanocomposite materials are significantly influenced by their structures. Symmetric nanocomposites have been well developed, leading to exciting applications that have advanced fields such as catalysis, energy, and biomedicine. In contrast, the emerging asymmetry in nanocomposites is garnering increased attention for its potential to provide materials with tailored responses to specific stimuli. The precise synthesis of asymmetric nanocomposites with engineered geometries and components is of great interest and poses a significant synthetic challenge. We are pleased to invite interdisciplinary experts from chemistry, biology, and physics to collaborate on pushing the boundaries of asymmetry in nanocomposites through various strategies, including template-directed synthesis, programmable assembly, and lithographic methods. This Special Issue aims to highlight the substantial efforts made in the synthesis of asymmetric nanocomposites, focusing on achieving exquisite control over both their geometry and components.

Guest Editors

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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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