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Asymmetric and Symmetric Studies in Nanotechnology

Guest Editors:

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Deadline for manuscript submissions:
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Message from the Guest Editors

Chiral optics in nanotechnology presents a captivating realm where asymmetric and symmetric studies converge, unveiling a rich landscape of optical phenomena with profound implications. This Special Issue delves into the intricate interplay between asymmetric and symmetric properties in chiral nanomaterials and devices, elucidating their roles in manipulating light at the nanoscale. Asymmetric configurations imbue materials with unique optical properties, enabling applications in chiral sensing, imaging, and communication. Conversely, understanding the symmetric aspects facilitates the design of versatile chiral metamaterials and plasmonic structures with tailored optical responses. By synergizing asymmetry and symmetry in chiral optics, this Special Issue endeavors to advance our comprehension of light–matter interactions in nanoscale systems and pave the way for groundbreaking technological innovations.

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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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