

Novel Approaches for Asymmetric Synthesis

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Message from the Guest Editors

Dear Colleagues,

Chirality is one of the most important structural features of organic compounds. Naturally occurring molecules exhibit different bioactivities depending on their enantiomeric forms. This behavior is crucial for the production of high-value pharmaceuticals and agrochemicals. Many nanotech innovations, e.g., molecular switches and nanotubes, also benefit significantly from molecular chirality.

Many asymmetric approaches have been developed based on the use of chiral sources, auxiliaries, and catalysts. However, as the need for enantiomerically pure or enriched compounds continues to increase, research in asymmetric synthesis has yet a lot to offer.

The present Special Issue aims to highlight novel approaches in asymmetric synthesis. We welcome research and review articles on subjects including (but not limited to) powerful transformations, unprecedented catalysts or enzymes, and methods of low cost and waste.



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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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