Special Issue

Asymmetric Catalysis in Organic Synthesis: Topics and Advances

Message from the Guest Editor

Asymmetric catalysis (also known as enantioselective catalysis) is considered an optimal solution for gaining access to enantiomerically enriched/pure compounds. Within this process, metal complexes carrying chiral ligands are used to return equivalents of desired enantiomerically enriched chiral products. Due to the increasing number of available methodologies used to access enantiomerically enriched/pure organic compounds, the scope of asymmetric catalysis has greatly expanded to include a broad range of chemical transformations. Ideally, a practical asymmetric catalyst should provide high yield and selectivity (chemo-, diastereo- and enantioselectivity) for a broad range of substrates in different reaction conditions, whilst being inexpensive and readily available in both enantiopure forms. A large number of complexes have already been reported, and many of these complexes have been studied and used in asymmetric catalysis...

Guest Editor

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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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