Special Issue

Asymmetric Catalysis in Organic Synthesis

Message from the Guest Editors

Asymmetric catalysis (also known as enantioselective catalysis) is considered as one of the ultimate solutions for gaining access to enantiomerically enriched/pure compounds, in which a metal complex carrying chiral ligands has its own merits to return many equivalents of the desired enantiomerically-enriched chiral product. Due to the increasing number of available methodologies 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 been already reported, and many of these complexes have been studied and used in asymmetric catalysis.

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