Special Issue

Advances in Asymmetric Organocatalytic Reactions

Message from the Guest Editors

Asymmetric organocatalysis has recently experienced impressive growth and is considered to be an independent set of synthetic tools for the preparation of chiral organic molecules. Due to the numerous advantages of organocatalysis, it has quickly found applications in synthetic, medicinal, and materials chemistry. Organocatalysts are durable compounds and many of them are commercially available and easily synthesized. They are usually stable under aerobic conditions. Their reactions are carried out under mild conditions and at high concentrations, thereby avoiding the use of large amounts of solvents and minimizing the amount of waste. Organocatalysts are tolerant of many functional groups and thus do not require any time-consuming manipulation of protective groups. This Special Issue includes the design and synthesis of organocatalysts, the development of new catalytic systems, applications of organocatalysts in asymmetric synthesis, mechanistic studies, and synthetic applications in the preparation of chiral products important in the pharmaceutical or material sciences. Full papers, communications, and mini-reviews are welcome in this issue.

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