



symmetry



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Asymmetric Synthesis: Topics and Advances

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Message from the Guest Editor

For decades, the pursuit of efficient and simple methods to achieve the enantioselective synthesis of target products has been a hot field in chemistry. Traditional Lewis acid catalysis and transition-metal-catalyzed asymmetric synthesis (including cross-coupling reactions, carbene chemistry, hydrogenation reduction, etc.) have been considered and achieved remarkable results. Since 2000, research on the catalytic construction of central chiral and axial chiral compounds by small organic molecules has emerged and attracted much attention. In addition, the construction of chiral centers by new free radical reactions, developed in recent years, and catalytic asymmetric dearomatization reactions have also experienced notable progress.



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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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