

New Insights into the Preparation and Separation of Enantiomers

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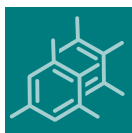
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Message from the Guest Editor

Chirality plays a major role in living processes, underlying the importance of optically active molecules, whose preparation still represents a challenge. Consequently, many aspects of chiral chemistry attract considerable interest among industrial and academic research groups and chemists. Isolation and chemical transformation from natural products, enantioselective syntheses involving efficient (bio)catalysts, and separation racemates are the main methods for preparation of the corresponding enantiomerically pure compounds. The number and variety of these preparative methods are constantly increasing, and they are in the focus of many researchers. Stereogenic element(s) may include central chirality on either a carbon atom or heteroatom. Moreover, axial or planar chirality is becoming more and more common. Crystallographic, spectroscopic, and theoretical studies are also of particular importance for the determination of the structure and for absolute configuration. Finding a connection between the chiral structure of a molecule and its biological activity, self-disproportion of enantiomers, and the appearance of homochirality on Earth can also be considered to be hot topics.





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Message from the Editor-in-Chief

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