

Special Issue

Catalytic Asymmetric Epoxidation: Recent Progress

Message from the Guest Editor

Epoxides (oxiranes) constitute an important class of compounds both in biology and chemistry. The epoxide functionality is found in many natural products of diverse biological properties, in pharmaceutical molecules and in synthetic intermediates towards the synthesis of more complex compounds which support a range of applications such as medicine, polymers and other high-performance materials. Over the past decades, the synthesis and further exploitation of epoxides has been the subject of intense research efforts and significant advances have been made across all fronts of their chemistry and biology and uses thereof. It is therefore warranted that the most recent developments in the epoxide field be captured and communicated in a concise and holistic manner. This Special Issue intends to serve this purpose and constitute a point of reference with respect to: (a) natural occurrence, properties, and reactivity of epoxides; (b) epoxidation methods (direct/indirect, stoichiometric/catalysed, regio-, distereoselective and enantioselective); and (c) applications and future prospects in research and industry.

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