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Chiral tetrahydrothiophene ligands in asymmetric catalysis

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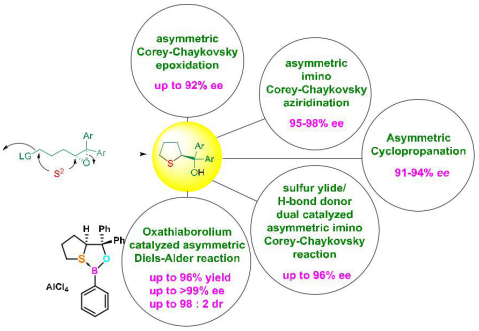
Chiral sulfur ligands are becoming a versatile tool in organic chemistry due to the blossomed development achieved in the past years. This presentation describes an expeditious and efficient preparation of enantiopure (thiolan-2-yl) diarylmethanols and the applications of their derivatives to the catalytic and asymmetric Corey-Chaykovsky epoxidation, the imino Corey-Chaykovsky aziridination, the Corey-Chaykovsky cyclopropanation, as well as the first oxathiaborenium catalyzed asymmetric Diels-Alder reaction.



Biography

Rong-Jie Chein has completed his PhD from National Chiao Tung University and Postdoc from Harvard University. His field of research includes: Development of new synthetic strategies and methods, Total synthesis and the study of the chemistry and biology of natural products and designed molecules, Drug discovery.

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