



symmetry



an Open Access Journal by MDPI

Asymmetric Catalysis in Organic Synthesis: Topics and Advances

Guest Editor:

Dr. Frady Gouany

Biomedical Science Department,
Faculty of ESTeM, University of
Canberra, Canberra, ACT 2601,
Australia

Deadline for manuscript
submissions:

closed (31 March 2024)

Message from the Guest Editor

Asymmetric catalysis (also known as enantioselective catalysis) is considered an optimal solution for gaining access to enantiomerically enriched/pure compounds. Within this process, metal complexes carrying chiral ligands are used to return equivalents of desired enantiomerically enriched chiral products. Due to the increasing number of available methodologies used to access enantiomerically enriched/pure organic compounds, the scope of asymmetric catalysis has greatly expanded to include a broad range of chemical transformations. Ideally, a practical asymmetric catalyst should provide high yield and selectivity (chemo-, diastereo- and enantioselectivity) for a broad range of substrates in different reaction conditions, whilst being inexpensive and readily available in both enantiopure forms. A large number of complexes have already been reported, and many of these complexes have been studied and used in asymmetric catalysis...



mdpi.com/si/164529

Special Issue



Editor-in-Chief

Prof. Dr. Sergei Odintsov

ICREA, 08010 Barcelona and
Institute of Space Sciences (IEEC-
CSIC), C. Can Magrans s/n, 08193
Barcelona, Spain

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
X@Symmetry_MDPI