

Asymmetry Synthesis: Topics, Advances and Applications

Guest Editors:

Dr. Jandeep Singh

Discipline of Chemistry, Lovely
Professional University (LPU),
Phagwara, India

Dr. Manisha Singh

Research Scientist (Organic
Chemistry), Institute of
Macromolecular Chemistry,
Czech Academy of Sciences,
Prague, Czech Republic

Deadline for manuscript
submissions:

closed (31 July 2024)

Message from the Guest Editors

Dear Colleagues,

As Morrison and Mosher put it, ‘asymmetric synthesis’ is the transformation of an achiral unit present in a group of substrate molecules into a chiral unit in a way that yields asymmetric amounts of stereoisomers. Therefore, any synthetic procedure wherein one or more additional chiral components are introduced during a functional group transition is considered to be an example of asymmetric synthesis, wherein the reactions employed are highly enantiospecific. Single enantiomer synthesis of chiral compounds is crucial because biological systems, where such type of compounds are utilized, are themselves chiral...

This Special Issue will be focused on the comprehensive idea of ‘asymmetric synthesis’, with in-depth discussion related to the latest approaches made in the field that have been extensively searched for applications in modern day research areas, including but not limited to pharmaceuticals, natural product chemistry, nanomaterials, etc.

Dr. Jandeep Singh

Dr. Manisha Singh

Guest Editors





an Open Access Journal by MDPI

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