Special Issue

Asymmetry Synthesis: Topics, Advances and Applications

Message from the Guest Editors

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.

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

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Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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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.

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

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