



an Open Access Journal by MDPI

# **Asymmetric and Symmetric Total Synthesis**

Guest Editors:

### Dr. Yulia V. Sevryugina

 University of Michigan Library, University of Michigan, 3162
Shapiro, 919 South University Avenue, Ann Arbor, MI 48109-1185, USA
The Michigan Institute for Data Science, University of Michigan, Weiser Hall, 500 Church Street, Suite 600, Ann Arbor, MI 48109-1042, USA

#### Dr. Oscar Tutusaus

Toyota Research Institute of North America, 1555 Woodridge Avenue, Ann Arbor, MI 48105, USA

Deadline for manuscript submissions: closed (31 October 2022)

### **Message from the Guest Editors**

Dear Colleagues,

Total synthesis of natural products stands as one of the most daunting fields of chemical synthesis. Behind the novelty and beauty of intricate three-dimensional architectures of secondary metabolites lie many challenges that require exquisite precision in the selected synthetic strategies, turning total synthesis into a fine and very demanding art. Among the vast list of synthetic strategies available, those exploiting molecular symmetry can be very powerful and effective and significantly simplify the construction of apparently complex molecular frameworks. The aim of the present Special Issue on "Asymmetric and Symmetric Total Synthesis" is to emphasize the role of symmetric molecules, symmetric strategies to construct molecules or desymmetrization strategies...









an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Sergei D. Odintsov

 Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain
Institute of Space Sciences (ICE-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 Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (*General Mathematics*); Q1 (*Physics and Astronomy*); Q1 (*Computer Science*)

# **Contact Us**

*Symmetry* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/symmetry symmetry@mdpi.com X@Symmetry\_MDPI