Special Issue

Pericyclic Reactions in Organic Synthesis

Message from the Guest Editor

Within the realm of natural product synthesis, pericyclic reactions have played a pivotal role in discovering a new path to constructing and rearranging medium-sized carbocyclic scaffolds. Over time, a variety of pericyclic reactions (e.g. cycloadditions, sigmatropic reactions, electrocyclic and ene reactions) have been evaluated, to optimize the efficiency of synthetic routes in assembling complex small molecules and natural products. The significant chemo-, regio-, and stereo-control achievable by these reactions, as well as their efficiency in forming a number of hindered C-C bonds in a single step, the atom economy, and the minimal waste produced are of paramount importance for the synthetic chemists of the 21st century, in terms of synthesizing novel molecules and ever larger chemical libraries for drug-led screening. This issue intends to highlight some of the most important discoveries and recent mechanistic considerations in pericyclic reactions that have fuelled, and will continue to fuel, our understanding, and translate into chemical efficiency.

Guest Editor

Prof. Dr. Stéphane P. Roche
Department of Chemistry and Biochemistry, Florida Atlantic University (FAU), 777 Glades Road, Boca Raton, FL 33431, USA

Deadline for manuscript submissions

closed (31 July 2021)

Organics

an Open Access Journal by MDPI

Impact Factor 1.6
CiteScore 2.8

mdpi.com/si/60670

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

mdpi.com/journal/organics

Organics

an Open Access Journal by MDPI

Impact Factor 1.6
CiteScore 2.8

mdpi.com/journal/organics

About the Journal

Message from the Editor-in-Chief

Organics is an open-access journal that offers rapid dissemination of innovative, informative, and impactful results in every aspect of organic chemistry, with a particular emphasis on new or significantly improved research results in the field of organic chemistry. The aim of this journal is to encourage scientists to publish their experimental and theoretical results in great detail to facilitate the advancement of organic chemistry. Main subject areas include but are not limited to: organic synthesis, synthetic methodology, theoretical organic chemistry, physical organic chemistry, supramolecular and macromolecular chemistry, heterocyclic chemistry, organocatalysis, bioorganic chemistry, organometallic chemistry, functional organic materials, etc. There is no restriction on the maximum length of the papers. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible.

Editor-in-Chief

Prof. Dr. Wim Dehaen
Sustainable Chemistry for Metals and Molecules, Department of Chemistry, KU Leuven, Celestijnenlaan 200F, 3001 Leuven, Belgium

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, ESCI (Web of Science), CAPlus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 22.3 days after submission; acceptance to publication is undertaken in 4.7 days (median values for papers published in this journal in the second half of 2025).