Special Issue

Advances in Green Catalysis for Sustainable Organic Synthesis

Message from the Guest Editors

Catalysis is currently one of the most powerful tools in organic synthesis. In the context of the principles of Green Chemistry, catalysis has opened new routes for organic synthesis, improving the sustainability of chemical transformations. The optimization of synthetic sequences and the reduction of side-products by increasing the selectivity have been a major contribution from catalyzed organic reactions. The introduction of catalysts has profoundly changed synthetic protocols for the construction of molecules, whose application ranges from pharmaceuticals and agrochemicals to advanced materials on both laboratory and industrial scales. Despite all the progress in the field, catalysts are not always green and sustainable: some rely on toxic metals, are not stable, not recyclable or are difficult to reuse, which compromises its implementation in the chemical processes. Now the challenges are the design and use of green catalysts and catalyzed reactions to foster sustainable synthesis. The Special Issue intends to highlight updated contributions in the design and application of green catalysts and green catalytic methods that pave the way for a sustainable organic synthesis.

Guest Editors

Prof. Dr. Maria Manuel B. Marques
Chemistry Department, Faculty of Science and Technology - UNL, Caparica, Portugal

Dr. Ana Sofia Santos
Chemistry Department, Faculty of Science and Technology - UNL, Caparica, Portugal

Deadline for manuscript submissions

closed (31 January 2021)

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/31380

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

mdpi.com/journal/catalysts

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

mdpi.com/journal/catalysts

MDPI

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).