

Special Issue

Recent Applications of Metal Catalysts in Organic Synthesis, 2nd Edition

Message from the Guest Editors

In recent decades, the development of original and efficient processes to perform the synthesis of renewable and/or affordable chemicals with widespread applications in industry has become a topic of great interest. Transition-metal catalysis has undoubtedly participated in this area, with the topic being awarded five Nobel Prizes in chemistry since the 1960s. These were awarded for (1) Ziegler–Natta polymerizations, (2) the development of the metathesis, (3) palladium-catalyzed cross coupling reactions, (4) chirality and asymmetric catalysis, and last year (5) the "click" copper catalyzed azide-alkyne cycloaddition. In fact, all these prompt advances have significantly changed our world, notably by broadening the uses of fossil fuels, but also by enabling the discovery of many novel synthetic molecules and materials. In this context, this Special Issue aims to cover the most recent progresses and advances towards the design, synthesis, and characterization of novel metal catalysts, as well as their applications in environmental remediations and new routes for the production of molecules of biological, (photo)physical, agrochemical, and pharmaceutical interest.

Guest Editors

Dr. Cyril Nicolas

Institut de Chimie Organique et Analytique UMR 7311, Université d'Orléans et CNRS, Rue de Chartres, BP 6759, 45067 Orléans cedex 2, France

Prof. Dr. Isabelle Gillaizeau

Institut de Chimie Organique et Analytique UMR 7311, Université d'Orléans et CNRS, Rue de Chartres, BP 6759, cedex 2, 45067 Orléans, France

Deadline for manuscript submissions

closed (31 August 2024)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/169875

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

[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)





Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)



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).