

Special Issue

Catalysis in Hydrocarbon Functionalization

Message from the Guest Editor

The discovery of new technologies for minimizing the overall footprint of chemical processes ranks among the world most pressing problems. A clever strategy is the direct functionalization of renewable abundant feedstock to value-added chemicals, minimizing the chemical processes and reducing the undesired chemical waste. Accordingly, hydrocarbons are not only the main constituent of petroleum but could also be obtained from renewable sources. Thus, it offers the chemical industry the most sustainable carbon source. However, carbon-hydrogen bond is difficult to functionalize. This is largely due to its inherent low reactivity and high thermodynamic stability. I am convinced that catalysis as an enabling technology will play the main role to solve this global problem. The main focus of this Special Issue on "Catalysis in Hydrocarbon Functionalization" will be on innovative methodologies and mechanistic investigations for the functionalization of the carbon-hydrogen bonds and its application for total synthesis of natural product and late stage functionalization of pharmaceuticals. Original research papers and short reviews are invited for submission.

Guest Editor

Dr. Osama El-Sepelgy

Institute of Organic Chemistry, RWTH Aachen University, Landoltweg 1,
52074 Aachen, Germany

Deadline for manuscript submissions

closed (15 December 2020)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/46468

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).