

Special Issue

Catalytic Conversion of Renewable Carbon Sources

Message from the Guest Editors

We live in interesting times as the world stands at a crossroads regarding climate change and renewable energy. Natural disasters caused by climate change, linked to greenhouse gas emissions from fossil fuels, continue to rise. Despite clear evidence, some nations prioritize energy security over reducing reliance on fossil fuels. As scientists, we must amplify our efforts to enhance our understanding of chemical principles and develop practical solutions. Catalysis is vital for a low-carbon future, and the catalytic conversion of renewable carbon sources has gained focus due to its potential as the only feasible direct replacement for finite carbon resources in producing fuels, chemicals, and materials. Renewable sources include non-edible biomass and waste, while catalytic methods cover all aspects of catalysis. This Special Issue will highlight recent findings in the heterogeneous catalytic valorization of biomass-derived compounds, focusing on fundamental and applied research, catalyst development, and chemical process strategies. Original papers and short reviews are encouraged for submission.

Guest Editors

Dr. Isaac Tyrone Ghampson

Dr. Élodie Blanco

Dr. Gwang-Nam Yun

Deadline for manuscript submissions

31 October 2025



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/235717

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).