

Special Issue

Catalytic Pyrolysis for Environmental Applications

Message from the Guest Editors

In pyrolysis, waste biomass and waste polymers (waste plastics, rubbers, etc.) should be the proper feedstock to produce carbon fuels and feedstock. However, the pyrolysis of wastes still suffers from energy inefficiency, low quality, and poor selectivity for the production of target chemicals. A catalytic pyrolysis is expected to address these problems. The use of natural and waste minerals (e.g., dolomite, red mud, spent FCC catalyst) can also improve the efficiency of the pyrolytic process while reducing the operation cost. More technoeconomic analysis also needs to be carried out. The aim of this Special issue is to cover recent technical advances in catalytic pyrolysis for environmental applications. Various research subjects related to the catalytic pyrolysis of wastes and development of cost-effective catalysts will be considered in this Special Issue. It is our pleasure to invite you to submit manuscripts to this Special Issue. Reviews, short communications, and full research papers related to the catalytic pyrolysis of wastes or the catalytic upgrading of pyrolysis oils are especially welcome.

Guest Editors

Dr. Young-Min Kim

Prof. Dr. Jungho Jae

Dr. Jechan Lee

Deadline for manuscript submissions

closed (28 February 2022)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/85063

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).