Special Issue

Advances in the Hydrocracking Catalysts

Message from the Guest Editor

The transportation fuels and chemicals from petroleum and coal still play a predominant role in social and economic life. Generally, the hydrocracking process is conducted in the presence of hydrogen and a suitable catalyst; thus, the catalyst is the key; it determines the feedstock conversion, goal product selectivity, lift-time, and even economic benefit. Hydrocracking is typically carried out using a bifunctional catalyst, which is composed of acidic support to provide a cracking function and active metals to provide a hydrogenation function. Alumina, amorphous silica-alumina, multiple kinds of zeolites or their combinations are potential supports, and transitional metals, such as Mo, W, Ni, Co, etc., are promising metal phases. The main aim of this Special Issue is to provide the most recent advancements in the field of hydrocracking catalysis, from homogeneous to heterogeneous catalysis, catalytic material design, and synthesis and characterization, to the performances in the hydrocracking of various feedstocks.

Guest Editor

Dr. Qingyan Cui

School of Petrochemical Engineering, Fuzhou University, China

Deadline for manuscript submissions

closed (30 April 2022)

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/97256

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).