Special Issue

Catalysis by Metal-Organic Frameworks

Message from the Guest Editor

Numerous functional metal-organic frameworks (MOFs) are being assembled from various metal ions and polytopic bridging ligands. These crystalline MOFs tend to form unique topologically interesting networks. Additionally, MOFs often exhibit robust frameworks with high surfaces and large pore volumes. The confined spaces of MOFs are ideal platforms for a range of new heterogeneous catalytic systems with high selectivity and recyclability. The incorporation of catalytically-active functional moieties into the bridging ligands or generation of open-metal sites are good methods for the preparation of novel catalysts. A simple encapsulation of catalytically-active nanoparticles inside MOF channels is also promising strategy to prepare active catalysts. The scope of this special issue covers all areas of MOF-based catalytic systems.

Guest Editor

Prof. Dr. Seong Huh
Inorganic Nanomaterials Lab, Department of Chemistry, Hankuk University of Foreign Studies, Seoul, Korea

Deadline for manuscript submissions

closed (31 October 2018)

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/12186

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

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).

MDPI