Special Issue

MOF-Polymer Composites: Design, Derivatives and Applications

Message from the Guest Editor

Metal–Organic Framework (MOF) polymer materials are a type of hybrid porous material characterized by a highly ordered crystal structure and permanent porosity, formed through the self-assembly of inorganic metal ions or metal clusters with organic bridging ligands via strong coordination bonds. It is essentially the precise hybridization of inorganic nodes and organic linkers at the molecular level, combining the rigidity and stability of inorganic materials with the diversity and functionality of organic materials. Its core advantage lies in its adjustable structure and highly integrated functions, providing a revolutionary material platform for gas storage and separation, efficient catalysis, advanced sensing, intelligent drug delivery, energy storage conversion, and environmental governance, demonstrating extremely broad application prospects. The purpose of this Special Issue is to introduce the latest developments in this research field, including various MOF derivatives, such as MOF-derived metal oxides, porous carbons, composite materials/hybrids, and sulfides. This Special Issue will also focus on the advanced applications of MOF polymer composites.

Guest Editor

Dr. Dalei Song

Key Laboratory of Superlight Materials and Surface Technology, Ministry of Education, Harbin Engineering University, Harbin 150001, China

Deadline for manuscript submissions

16 February 2026

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/248435

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/journal/polymers

MDPI

About the Journal

Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)