

Special Issue

Advanced Polymers for High-Performance Batteries

Message from the Guest Editors

As the energy structure of the world transitions from fossil fuels to renewable energy, new energy and its devices (e.g., lithium-ion cells, hydrogen energy, and supercapacitors) are playing a significant role in human production and living. Polymers are being widely used in new batteries, acting as the critical components of separator, electrolyte, aluminum-plastic film, proton conductor, etc. Therefore, the performance of polymers has an extremely significant impact on the performance of new batteries. Polymer research is crucial to the development of high-performance batteries. To achieve more competitive performances, new polymer materials with more advanced features are continuously being researched and proposed. It is hoped that the new proposed polymers could achieve 'high-performance batteries' with both competitive electrochemical and safety performances, meet the market requirements, and better serve the community.

Guest Editors

Dr. Dongxu Ouyang

Dr. Wei Wang

Dr. Orapa Tamwattana

Deadline for manuscript submissions

closed (5 January 2025)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/154508

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

[mdpi.com/journal/
polymers](https://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](https://mdpi.com/journal/polymers)



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)