Special Issue

Polymeric Materials for Next-Generation Energy Storage

Message from the Guest Editor

The development of next-generation energy storage devices, such as Li-ion batteries, Li-sulfur batteries, solid-state batteries, supercapacitors, fuel-cells, etc., has the potential to revolutionize industries ranging from renewable energy to electrical vehicles and Internet of Things (IoTs) applications. The use of polymeric materials for applications in energy storage devices has attracted significant attention because of their multiple advantages over inorganic materials. In this Special Issue, we welcome contributions that investigate the synthetic approaches, fundamental structure properties, and mechanical, electrical, optical, and thermal properties of the polymers and polymer composites for next-generation energy storage devices. We also welcome articles exploring the application of these materials in interdisciplinary fields related to energy storage and conversion, including interface engineering, flexible electronics, implantable medical devices, microbatteries and microsystems, etc. The submission could be formatted as an original research article, review, mini review, or perspective.

Guest Editor

Dr. Beibei Jiang

Department of Electrical and Computer Engineering, Kennesaw State University, Marietta, GA 30060, USA

Deadline for manuscript submissions

30 September 2026

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/211807

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

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 4.9.

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
Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 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)

MDPI