polymers

IMPACT FACTOR 4.7

Indexed in: PubMed

CITESCORE 8.0

an Open Access Journal by MDPI

Polymers for Electronic Energy Storage Applications

Guest Editor:

Dr. Kewei Shu
Xi'an Key Laboratory of Advanced Performance Materials and Polymers, Shaanxi Key Laboratory of Chemical Additives for Industry, Shaanxi University of Science and Technology, Xuefu Road, Weiyang District, Xi'an 710021, China

Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editor

Dear Colleagues,

Due to their numerous advantages, including their low cost, easy processability, and structure tunability, polymeric materials have been widely applied to all aspects of energy storage applications. Generally, researchers focus on these specific fields and beyond: 1) developing redox-active polymers for advanced electrode materials for rechargeable ion batteries because of their structural diversity and flexibility, surface functionalities and tenability, and low cost; 2) enhancing the ionic conductivity of polymer solid or gel electrolytes while maintaining mechanical properties; 3) optimizing the polymer binder which affects the bonding between components, as well as mechanical properties and electrochemical performance of the electrode; 4) improving mechanical robustness, regulating ion and mass transport, and retarding flammability for polymer-based battery separators.

This Special Issue in *Polymers* aims to collect original research papers, review papers, or short communications that discuss related aspects in the field of polymeric electrodes, electrolytes, separators for supercapacitors, batteries, fuel cells, etc.

polymers

IMPACT FACTOR 4.7 | Indexed in: PubMed | CITESCORE 8.0

an Open Access Journal by MDPI

Editor-in-Chief

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

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 5.0.

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.

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)

Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
𝕏@Polymers_MDPI