

Special Issue

Functional Polymer for Battery Applications

Message from the Guest Editors

Batteries are of utmost importance in our society to store electricity and power many applications from small electronics to large-scale stationary wind and solar farms. Today, lithium-ion devices are the most predominant solutions for most of these applications but suffer from strong safety issues due to the presence of flammable liquid electrolyte (leaks, fires, explosions). Therefore, replacing the conventional liquid-based electrolyte with a polymeric electrolyte material is a promising strategy. Indeed, by nature, polymers are safe, flexible, and can be produced in various shapes. This Special Issue of the journal *Polymers* (MDPI) led by researchers, an Assistant Professor, and a Professor from the Laboratory of Electrochemistry and Physico-Chemistry of Materials and Interfaces (*LEPMI*), affiliated with the University of Grenoble Alpes, Grenoble Institute of Technology and the CNRS, aims to gather high-quality original research as well as reviews or short reviews in the rapidly expanding field of functional polymers for battery applications using alkali and alkaline earth metal ions.

Guest Editors

Dr. Didier Devaux

Dr. Fannie Alloin

Dr. Renaud Bouchet

Dr. Cristina Iojoiu

Dr. Lauréline Lecarme

Deadline for manuscript submissions

closed (15 August 2022)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/68813

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)