Special Issue

Application and Development of Polymeric Materials in Electrochemistry

Message from the Guest Editor

Polymer materials, with their advantages of structural designability, chemical stability, and functional tunability, have become a key support material for the development of electrochemistry. Their applications span core devices, including batteries, supercapacitors, electrochemical sensors, and fuel cells. They can serve as electrode binders to ensure structural integrity and separators to enable selective ion transport. They can also directly participate in electrochemical processes in the form of conductive polymers and polymer-based electrolytes, significantly improving device performance. safety, and flexibility. Currently, the modification (e.g., nanocomposites and copolymers) and functional design of polymer materials are becoming important approaches to overcome bottlenecks in the energy density, cycle life, and cost of electrochemical devices, driving innovative developments in electrochemical technology in areas such as energy storage, intelligent sensing, and clean energy conversion. This Special Issue seeks to collect research related to polymer materials for electrochemical applications. Submissions are welcome.

Guest Editor

Prof. Dr. Jongho Kim

Department of Textile System Engineering, Kyungpook National University, Daegu, Reoublic of Korea

Deadline for manuscript submissions

30 April 2026



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/256161

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

mdpi.com/journal/polymers





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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

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