Special Issue

Exploring Polymer Electrolytes for High-Performance Batteries and Supercapacitors

Message from the Guest Editors

We invite the submission of research papers to our Special Issue focusing on recent advances in the design and preparation of polymer electrolytes for supercapacitor and battery technologies. Innovative electrolyte materials are pivotal for the future of highdensity rechargeable electrochemical storage systems. For instance, high-capacity systems such as lithiumsulfur and solid-state lithium metal batteries hold great promise: however, achieving the safety and commercial viability comparable to current lithium-ion batteries requires significant advancements in solid electrolyte development. Additionally, modern applications increasingly demand lightweight, miniaturized, robust, and flexible cells. In this context, polymer electrolytes offer substantial advantages, including enhanced safety, superior chemical stability, and ease of processing. This Special Issue seeks to provide new insights and foster innovation in the development of advanced polymer electrolytes and their composites for high-performance supercapacitors and batteries.

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2025)



Polymers

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Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



mdpi.com/si/205495

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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

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