

## Special Issue

# Polymers for Electronic Energy Storage Applications

### Message from the Guest Editor

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.

### Guest Editor

Dr. Kewei Shu

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### Deadline for manuscript submissions

closed (29 February 2024)



## 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 4.7.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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