

Special Issue

Polymer Nanocomposites for Energy Storage Applications

Message from the Guest Editor

This Special Issue focuses on the design, synthesis, and application of polymer nanocomposites in advanced energy storage systems. With the rising demand for high-performance batteries and supercapacitors, polymer nanocomposites are emerging as key materials due to their unique ability to combine the properties of polymers with nanoscale fillers. These composites offer enhanced electrochemical stability, improved ionic conductivity, and better mechanical integrity, making them ideal candidates for use in energy storage devices such as lithium-ion batteries, solid-state batteries, and supercapacitors. This issue will cover topics including novel nanocomposite formulations, advancements in conductive polymers, and innovative applications in next-generation battery technology. Contributions exploring the role of nanocomposites in improving battery performance, safety, and sustainability are particularly encouraged.

Guest Editor

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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.

Editor-in-Chief

Prof. Dr. Alexander Böker

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