Special Issue

Polymeric Conductive Materials for Energy Storage

Message from the Guest Editor

Polymer-based conductive materials are garnering attention as promising candidates for energy storage due to their flexibility, lightweight nature, and tunable electrochemical properties. Conductive polymers, such as polyaniline (PANI) and polypyrrole (PPy), exhibit high electrical conductivity and environmental stability, making them suitable for application in batteries and supercapacitors. Their ability to undergo reversible doping and dedoping processes facilitates efficient charge storage and delivery. Recent advancements in polymer engineering, such as the formation of nanocomposites and their hybridization with other conductive materials, have further enhanced their performance, improving their energy density and cycling stability. Additionally, the processability and low cost of polymer-based materials make them an attractive alternative to conventional metal-based systems. As the demand for flexible and sustainable energy storage solutions grows, polymer-based conductive materials are positioned to play a key role in next-generation energy storage technologies.

Guest Editor

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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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