Special Issue

Application of Polymer Films in Energy Storage

Message from the Guest Editor

The significant demand for dielectric energy storage capacitors and energy storage technologies is spurred by various applications in electrical equipment, electric vehicles, advanced propulsion systems, and electronic devices. Polymer films, as one of the most fundamental passive components in dielectric capacitors, have high electric breakdown strength, good flexibility, are lightweight, inexpensive, and suitable for large scale production. To develop polymer films with superior energy storage properties has been a hot topic of late, and a family of effective approaches have been put forward for improving the capacitive property of dielectric polymer films in recent years. The aim of this Special Issue is to demonstrate recent advances in the efficient fabrication, structural characterization, and microscopic performance of polymer films for energy storage applications. The scope of interest includes, but is not limited to, innovations in synthesis, preparation, designs of microstructures, mechanisms of capacitive performance improvement, assessment of the degradation of polymer films, and application of polymer films in capacitors.

Guest Editor

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Deadline for manuscript submissions

closed (5 May 2022)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/100716

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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 4.7.

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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