

Special Issue

Next-Generation Polymer Composites for Green Energy Production and Storage

Message from the Guest Editors

This Special Issue aims to bring together pioneering research on polymer composites tailored for green energy applications. Contributions are invited in areas such as the design, synthesis, and characterisation of advanced polymer systems; the development of renewable, biodegradable, and recyclable eco-friendly polymers; and innovations in multifunctional sandwich composites for energy efficiency and mechanical performance. Additionally, we welcome theoretical and computational studies on the constitutive modelling of energy storage composites, as well as experimental and simulation-based approaches to understanding the behaviour of these materials under various conditions. Topics of interest include, but are not limited to, the following:

- Polymer Composites and Advanced Polymer Systems
- Eco-Friendly Polymers
- Sandwich Composites
- Theory and Constitutive Modelling
- Energy Storage Composites and Structural Supercapacitors
- Renewable Energy Technologies and Green Energy
- Sustainable Energy Solutions

Original research articles and review articles are welcome.

Guest Editors

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About the Journal

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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