Special Issue

Polyurethane Composites: From Material Innovations to Multifunctional Applications

Message from the Guest Editors

The Special Issue provides a comprehensive outlook on the evolving role of PU composites in meeting the demand for high-performance and eco-friendly materials. It covers the innovations of PU composites, focusing on enhanced properties like strength, durability, thermal resistance, and sustainability. It also highlights recent innovations in PU-based composites, which combine polyurethane with other materials (such as fibers, nanoparticles, and other polymers) to enhance their performance for various applications, including automotive, construction, and healthcare.

The Special Issue discusses the improvements in PU composite manufacturing techniques, such as better processing methods, cost-effectiveness, and recyclability, while forecasting continued growth in research and application, driven by the need for lighter, stronger, and more eco-friendly materials.

Keywords:
- polyurethanes
- composites
- nanocomposites
- hybrid composites
- nanofillers
- structure–properties relationship
- eco-friendly
- strength
- durability
- thermal resistance
- sustainability

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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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