

Special Issue

Next-Generation Smart Polymer Nanocomposites: Fabrication and Applications

Message from the Guest Editors

This Special Issue is devoted to the advanced study of polymer nanocomposites. These materials exhibit exceptional properties, a dramatic improvement over conventional microcomposites, granting them significant potential for transformative industrial applications. However, their nanoscale fillers introduce profound challenges in processing, characterization, and predicting long-term behavior. Critical aspects like morphology, rheology, and degradation kinetics are not yet fully elucidated, hindering widespread commercialization. This Special Issue aims to address these gaps by presenting cutting-edge research and the current progress in understanding and harnessing the capabilities of these novel polymeric systems for future technological advances. Research articles and review papers are encouraged.

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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 4.9.

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

Prof. Dr. Alexander Böker

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