

Special Issue

Carbon Nanomaterial-Reinforced Polymer Nanocomposites: Advanced Synthesis, Properties, and Multifunctional Applications

Message from the Guest Editor

This Special Issue focuses on cutting-edge research in carbon nanomaterial-reinforced polymer nanocomposites, encompassing graphene, carbon nanotubes, fullerenes, carbon quantum dots, and emerging carbon allotropes. We invite contributions covering innovative synthesis methodologies, structure–property relationships, and multifunctional applications spanning electronics, energy storage, sensors, and biomedical devices. Topics include novel processing techniques, interfacial engineering, mechanical reinforcement, electrical/thermal conductivity enhancement, and environmental applications. Both experimental and computational studies are welcome, emphasizing scalable manufacturing approaches and real-world implementation strategies. This collection aims to bridge fundamental materials science with practical engineering solutions, advancing the field toward next-generation polymer nanocomposites with tailored functionalities for emerging technologies.

Guest Editor

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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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