Special Issue

Carbon-Based Polymer Nanocomposites: Preparation, Characterization, and Applications

Message from the Guest Editor

This Special Issue focuses on the preparation and characterization of carbon-based polymer nanocomposites, aiming to improve the mechanical and functional properties of polymer materials. The Special Issue deals with the fabrication techniques employed to incorporate carbon materials into polymer matrices, exploring various methods like solution blending, melt processing, and chemical vapor deposition.

This Special Issue, "Carbon-Based Polymer Nanocomposites: Preparation, Characterization, and Applications", aims to be a collection of high-quality original/review papers focusing on recent progress in new preparation and applications of Carbon-based polymer nanocomposites, including (a) synthesis and surface modification of carbon materials, (b) tailored control of carbon materials' size, concentration, and orientation in polymer matrix, (c) interfacial property control between carbon materials and polymer matrix, (d) evaluation of the carbon materials dispersion state in the polymer matrix, (e) development of new applications by using carbon-based polymer nanocomposites and various nanocomposites.

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 4.7.

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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