

Special Issue

Polymer Nanocomposites: Processing, Degradation and Applications

Message from the Guest Editors

Polymer nanocomposites have already been widely investigated for a range of potential applications, such as the improvement of mechanical and electrical properties, or influencing the degradation and crystallization behavior of non-biodegradable or biodegradable polymers and polymer blends. However, the introduction of nanoparticles into polymers or polymer blends remains a challenge because of agglomeration and dispersion problems. However, in some cases polymer nanocomposites with improved properties have been successfully prepared and potential applications identified for these nanocomposites, especially through pre-treatment of the polymers and/or nanoparticles in order to facilitate stronger interaction between the matrix and filler particles. In this Special Issue of *Polymers* we invite researchers to submit high-quality papers within the general field of the processing, degradation, and applications of polymer nanocomposites. It will be especially interesting to see whether certain types of nanoparticles enhance the degradation of polymers or polymer blends, or protect these materials against UV and/or heat degradation.

Guest Editors

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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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