Special Issue

Advanced Carbon-Based Polymer Nanocomposites

Message from the Guest Editors

Carbon nanostructures are among the most investigated nanoparticles today due to their outstanding physical properties, such as mechanical, electrical, thermal, and structural, this being a consequence of their well-structured and strong chemical bonds. On the other hand, polymeric matrices are the most used host material for nanocomposites due to their versatile properties in terms of durability, flexibility, and ease of processing. With the discovery of the fullerenes in the mid-1980s, other carbon nanostructures have since been synthesized, such as carbon nanofibers, carbon nanotubes, and graphene and its derivatives, and their incorporation to polymeric matrices to obtain novel devices and opportunities is now a real and open research topic. Multifunctional sensors and devices covering several technological areas can be manufactured based on these structures, where the physical properties of both fillers and host along with the interaction between them are the main drivers that make it possible to tailor nanomaterials for desired conditions and applications.

Guest Editors

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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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