Special Issue

Functional Features of Advanced Polymer Based Nanocomposites

Message from the Guest Editors

Polymer-based hybrids/nanocomposite materials have attractive applications in various sectors because of their enhanced physicochemical properties. Recently, there has been emerging interest in the development of polymer-based nanocomposites in order to achieve desired properties in line with required applications. Polymeric nanocomposites with various nanomaterials such as metal nanoparticles, metal oxides, nano-clay, graphene, carbon nanotubes, etc., exhibit enhanced optoelectronic, magnetic, and mechanical properties due to their diverse interfacial properties. Hence, they are utilized as hybrid materials for significant applications in various fields. This Special Issue will contemplate the functional features of fabrication and characterization of emergent polymeric nanocomposites in various applications in catalysis, as sensors, as fuel cells, in environmental remediation, as photodetectors, as membrane materials, in tissue/bone engineering, and as drug carriers. The objective is to share the current progressive tendencies of diverse polymeric nanocomposite materials and their standpoints for forthcoming generation.

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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

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