Special Issue

Properties and Characterization of Polymer Nanocomposites

Message from the Guest Editors

This Special Issue encompasses a diverse range of studies exploring the fundamental aspects, synthesis techniques, characterization methods, and applications of polymer nanocomposites. We include research articles that delve into the effects of different nanoparticle types, sizes, and shapes on the mechanical, thermal, electrical, and barrier properties of polymer matrices, as well as articles investigating the electrical and barrier properties of polymer nanocomposites. Dielectric spectroscopy, electrical conductivity measurements, and permeability testing are utilized to assess electrical resistivity, dielectric constant, and the barrier performance of nanocomposites against gases and liquids. These studies shed light on the potential applications of polymer nanocomposites in electronics, sensors, and packaging industries.

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 4.9.

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

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