



Properties and Characterization of Polymer Nanocomposites

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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.





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