Special Issue

Advances in Polymer Blend Nanocomposites

Message from the Guest Editor

The aim of the present issue is to collect articles dealing with polymer blend nanocomposites and the influence of their microstructure on the properties, especially the multifunctionality, of the final materials. The dispersion and localization of NPs into polymer blends is guided by thermodynamic and kinetics parameters. By varying those parameters, it is possible to change the microstructure of the polymer blend nanocomposite. Hence, polymer blend nanocomposites promise to be innovative materials in many domains and applications, such as transportation, energy, medicine, electronics, and packaging. Moreover, with the development of new biobased nanoparticles (cellulose nanocrystals and nanofibers) and biobased polymers, more sustainable multifunctional materials are emerging. See more information in https://www.mdpi.com/si/81213

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

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