Special Issue

Polymer Nanocomposites: Synthesis, Characterization and Applications

Message from the Guest Editor

Polymer composites have been at the forefront of science and technology in the last couple of decades because of advances in the synthesis and control of nanomaterial characteristics used as reinforcing or electroactive fillers. In this Special Issue, we aim to focus on the fabrication methods used to make the nanocomposites and their effect on the resultant properties. We are especially interested in research articles that focus on using the same starting materials so that a comparison between methods can be made and the effect of specific nanomaterials can be highlighted. We are also interested in articles that evaluate the effect of changing the structure of the matrix polymer and its effect on the composite properties while keeping the filler characteristics constant. Articles focused on demonstrating the sensitivity and accuracy of characterization methods and their analysis are desired, as are computer simulation methods that shed light on the trends seen in the properties of the nanocomposites. See more information in https://www.mdpi.com/si/50936

Guest Editor

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Deadline for manuscript submissions

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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