

Special Issue

Processing of Thermoplastic-Matrix Polymer Nanocomposites

Message from the Guest Editor

It is my pleasure and privilege to invite you to submit a manuscript to this upcoming Special Issue of *Nanomaterials* on “Processing of Thermoplastic-Matrix Polymer Nanocomposites”. The availability of nanoparticles with outstanding properties (e.g., nanoclays, carbon nanotubes, graphene derivatives, nanocellulose, metals, etc.) opened the possibility of creating polymer-based materials with performance and functionalities that are suitable for advanced engineering applications. However, it is generally recognized that taking advantage of the full potential of these materials requires full control of the dispersion and orientation of the nanoparticles in the polymer matrix. In practice, the development of appropriate manufacture and processing techniques for polymer nanocomposites at scales relevant to industrial production continue to hamper the wider practical application of these materials. Therefore, contributions to this Special Issue should investigate dispersion and agglomeration mechanisms, filler-matrix interactions, rheology-processing-morphology relationships, or innovative processing technologies.

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.

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