Special Issue

Hybrid Nano Polymer Composites

Message from the Guest Editor

Hybrid nano polymer composites are one of the fastest developing classes of new materials and have led to numerous technological innovations. Reinforcement by two or more nanofillers in a single polymer is an effective method to design composite materials with a great diversity of properties and functionality. Incorporation of different nanofiller types into a polymer is known to cause substantial changes in the physical and mechanical properties of composites and in some cases hybridization results in synergistic effects on properties. The aim of this Special Issue is to present the latest research and review articles in all areas of hybrid nano polymer composites, focusing on novel techniques for their preparation, microstructure, performances, application and theories for predicting their unique properties. This Special Issue of Nanomaterials will attempt to cover the most recent advances in the design of hybrid nanocomposites, tailoring of interfaces between nano-objects and matrix, microstructural organization, percolation of two or more nanofillers, and other essential factors leading to the reinforcement, functionality and synergic effects in those advanced materials.

Guest Editor

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Deadline for manuscript submissions

closed (14 April 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/107566

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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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