



Application of Nanostructured Polymers and Composites

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Message from the Guest Editor

Dear Colleagues,

Polymeric nanostructured materials, which are polymeric materials at the nanoscale or polymer composites including nanomaterials, have gained growing utility for many cutting-edge technologies. By using processing techniques and/or by integrating functional nanofillers and chemical additives, conventional polymers can be upgraded into sophisticated nanostructured polymers and composites. When combined with other functional materials, the new polymeric nanostructured materials or composites can have synergistic effects in addition to maintaining the functionality of individual components. To meet the specific needs of various uses, they can be produced into a variety of nanostructures, including zero-dimensional (0D) nanoparticles, one-dimensional (1D) nanowires, two-dimensional (2D) nanofilms, and three-dimensional (3D) network nanostructures. Their potential applications can be found in many fields such as biomedicines, sensing solutions, self-healing systems, antimicrobial materials, external stimuli-triggered systems, controlled release, microwave absorbers for electromagnetic shielding, or various energy storage/conversion/saving devices.





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Message from the Editor-in-Chief

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