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Advanced Nano Polymer Processing

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Message from the Guest Editors

Dear Colleagues,

Nanomaterials have attracted global attention in recent decades and is still a main focus of research in various fields. Nano polymers are a category of nanomaterials with unique physical and chemical properties, such as a high specific surface area, very small molecular spacing, surface energy change, and chemical inertness, which indicates the potential of polymers to be used in various applications. However, the fundamentals of the mechanism and design of nano polymers must be fully exploited and utilized for improved functions and applications.

This Special Issue aims to publish a collection of cutting-edge original research articles and reviews relating to the most recent efforts in designs and applications of nano polymers in various fields, such as nanocomposites, energy harvesting, functional coating, soft sensors, intelligent elements, etc. Studies on the manufacturing and synthesis method for nano polymers and advances in the design of functional nanostructures based on polymers are also welcome.

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Dr. Jun Xie
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Editor-in-Chief

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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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