



Fabrication and Application of Polymer-Based Nanomaterials

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Deadline for manuscript
submissions:

20 February 2025

Message from the Guest Editor

The development of polymer-based nanomaterials is still in its initial struggling stage. In order to meet the requirements of diverse applications, polymer-based nanomaterials have to be designed and fabricated with unique properties and functions. On the one hand, even today, exactly coordinating the polymer properties with the parameters of macroscopic materials, e.g., strength, elasticity, electrical conductivity, etc., remains a grand challenge to polymer scientists. On the other hand, the design and fabrication of advanced polymer-based nanomaterials and their diversified applications also need extensive cross-cooperation among molecular chemists, biologists, physicists, engineers, etc.

This Special Issue focuses on presenting the fabrication and applications of polymer-based nanomaterials. We encourage authors to contribute original research articles and review articles covering the recent progress on polymer-based nanomaterials to present the potential of these materials in the above-mentioned fields.





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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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