



## Preparation, Properties and Applications of Polymer Composite Nanofibers

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### Message from the Guest Editors

Polymer composite nanofibers are unique materials that have grown in popularity in recent years for a variety of applications. With advancements in nanofiber preparation techniques, such as electrospinning and template synthesis, precise control of the fiber size, morphology, and structure has become achievable. Depending on the type of polymer and the processing parameters, the size of composite nanofibers can range from several to hundreds of nanometers. The properties of these composites can be further improved through considered selection of the polymer matrix, reinforcing materials, and processing conditions. The resulting polymer composite nanofibers have remarkable properties. These properties, in turn, have led to numerous applications in various fields such as tissue engineering, filtration, energy storage devices, sensors, etc.

This Special Issue provides a comprehensive overview of the current knowledge and research on the manufacture, characteristics, and applications of polymer composite nanofibers, representing a valuable resource for researchers and practitioners in this field.





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