Special Issue

Advanced Electrospinning Technology for Polymer Materials

Message from the Guest Editors

Polymer nanofibers fabricated through electrospinning represent one of the most fascinating frontiers in materials science today. The exceptional versatility of these materials is due to their unique structural characteristics—nanoscale dimensions, high surface area-to-volume ratios, tunable porosity, and customizable mechanical and thermal properties—which have enabled innovations in multiple disciplines. This Special Issue aims to consolidate recent advances in this evolving field and stimulate further innovation.

Of particular interest is the dual role of electrospun nanofibers in composite systems, both as reinforcement elements within traditional matrices and as primary structural components in nanofiber-based composites. These approaches have demonstrated potential to enhance mechanical strength, thermal stability, electrical conductivity, and numerous other properties in various material systems.

We invite researchers to contribute their latest findings and innovations, with the goal of advancing our fundamental understanding of electrospun polymer nanofibers and accelerating their deployment in practical applications that address pressing global challenges.

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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