

Special Issue

Advances in Electrospun Polymeric Nanofibers

Message from the Guest Editor

Polymeric nanofibers, typically produced by electrospinning and related techniques, are particularly well-suited fibrous materials. Electrospun nanofibers can be produced using single or blended polymers, including synthetic, biodegradable, bio-based, and green polymers. To further enhance the functionality and effectiveness of nanofibers, various nanoparticles can be incorporated into the fibers. Moreover, the fibrous mats can be functionalized with molecular species or nanoparticles after the electrospinning process. This field is undergoing rapid evolution as researchers pursue sustainability, scale-up, and multifunctionality across polymer-based composite systems. As such, ongoing research is essential to refining manufacturing methods and targeting specific uses through precise control of processing parameters. This Special Issue aims to explore novel materials, architectures, and processing strategies capable of delivering enhanced or multifunctional properties of polymer and polymer-composite nanofibers. By showcasing advances at the intersection of materials science and nanotechnology, it aims to foster innovation and inspire new directions in this rapidly evolving field.

Guest Editor

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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

Prof. Dr. Alexander Böker

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