

## Special Issue

# Functional Polymer-Based Nanomaterials and Their Applications

### Message from the Guest Editors

In recent years, functional polymer nanofibers have attained a large amount of interest, achieving remarkable breakthroughs in fields such as tissue engineering, biosensors, drug delivery systems, wound dressing, and environmental applications. Polymer nanofibers can be combined with functional materials, structures (e.g., nano- and microparticles), or drugs to produce stimuli-responsive hybrid systems with novel physicochemical, mechanical, thermal, and electrical properties. Among fiber-forming techniques, electrospinning has emerged as an easy, versatile, and cost-effective approach for obtaining very thin wires in the diameter range of a few micrometers to nanometers, with a high surface area. We intend to publish cutting-edge research papers or reviews in this Special Issue that discuss theoretical and experimental studies on the production of functional nanofibers and their applications in different emerging fields.

### Guest Editors

Dr. Loretta L. Del Mercato

Dr. Valentina Onesto

Dr. Stefania Forciniti

### Deadline for manuscript submissions

closed (10 October 2024)



## Polymers

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Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



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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 4.7.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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