

Special Issue

New Advances in Polymer Electrospun Fibers

Message from the Guest Editors

Electrospinning creates nanometer-to-micrometer polymer fibers. Electrospun fibers are now used in tissue engineering, drug delivery, and energy storage due to improvements in electrospinning. Electrospinning with multi-component polymer systems has produced fibers with customized characteristics. Combining polymers improves fiber mechanical strength, biocompatibility, and drug loading capacity. Functionalized electrospun fibers represent another advancement in this field. The addition of functional molecules such as enzymes or antibodies to fibers creates materials with specialized biological or chemical capabilities. Biosensors and drug delivery may use these functionalized fibers. Hybrid electrospinning polymer–metal or polymer–ceramic composites represent another advancement. These materials can be used for energy storage and catalysis. Finally, electrospinning involves advanced fiber alignment and orientation procedures. Fiber orientation can form anisotropic mechanical, electrical, and optical materials. Tissue engineering and electronics may use these materials.

Guest Editors

Dr. Baturalp Yalcinkaya

Dr. Ipek Yalcin Enis

Dr. Fatma Yalcinkaya

Deadline for manuscript submissions

31 December 2024



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.7
CiteScore 8.0
Indexed in PubMed



mdpi.com/si/165663

Polymers

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)





Polymers

an Open Access Journal
by MDPI

Impact Factor 4.7
CiteScore 8.0
Indexed in PubMed



[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of
Potsdam, 14476 Potsdam-Golm, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)