

Special Issue

Sustainable Polymer Pathways in Advanced Textile Development

Message from the Guest Editors

The textile industry is rapidly evolving, with growing emphasis on sustainability, high-performance materials, and innovative manufacturing processes. This Special Issue will highlight the latest advances in polymer science and engineering applied to textiles, including bio-based polymers, recycled materials, functional coatings, and smart textiles. We invite original research articles, reviews, and case studies that explore the following:

- Sustainable polymer synthesis and modification for textile applications;
- Advanced fabrication techniques, including 3D printing, electrospinning, and fiber engineering;
- Functional and smart textiles with enhanced properties (mechanical, thermal, chemical, or environmental responsiveness);
- Recycling, circular economy, and life-cycle assessment of polymer-based textiles. This Special Issue will serve as a platform for researchers, industry experts, and textile engineers to share insights and accelerate the development of eco-friendly, high-performance textile materials. Contributions that combine scientific rigor with practical application are particularly encouraged.

Guest Editors

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Deadline for manuscript submissions

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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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