Special Issue

Advances in Polymers-Based Functional and Smart Textiles

Message from the Guest Editor

Polymer fibers are made from synthetic or natural polymers via processes like spinning. They offer diverse properties—strength, flexibility, and chemical resistance. When modified with additives, they gain conductivity, antimicrobial traits, or thermal responsiveness. They are used in textiles, medical sutures, filtration, and composites, and their lightweight nature and scalability drive innovation.

Smart textiles, which integrate technology with fabric, redefine functionality in everyday and specialized use. When embedding sensors, conductive threads, or responsive materials, they sense and react to environmental stimuli—monitoring vital signs, adjusting warmth, or harvesting energy. From fitness wear tracking activity to medical garments regulating drug release, their versatility spans sectors. Combining comfort with smart capabilities, these textiles merge textile engineering with electronics, enabling interactive, adaptive solutions that enhance safety, health, and convenience in diverse applications.

Guest Editor

Dr. Lihuan Zhao

College of Textile Science and Engineering, Tiangong University, Tianjin, China

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

mdpi.com/journal/polymers

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

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