

Special Issue

Recent Advances in Polymer-Based Carbon Fibers

Message from the Guest Editors

This Special Issue is devoted to highlighting the exceptional properties of carbon fibers (CFs). The industry of carbon fibers, involving the aerospace, military, construction, coating, film, microelectronics, energy storage, biotechnology, and sporting goods sectors, has grown continuously. The high production cost of carbon fiber (CF), the lack of high-speed fabrication techniques, difficult customization, and the limitations at the design phase limit the use of these fibers in various applications, including CF composite-based wearable sensors.

Thus, this Special Issue welcomes contributions that utilize unconventional methods of optimising advanced polymer-based carbon fibers, with subsequent improvements in cost, structure and properties. These improvements might involve developing new precursor materials and production techniques for CFs, developing advanced polymer-based CFs with advanced functional properties, polymer blending and using composites with CFs, or using high-performance polymer-based CFs, degradable polymer–CF composites, or CF-based hybrid composites for any of the above-mentioned applications.

Guest Editors

Dr. Adeela Hanif
Dr. Muhammad Ayyoob
Dr. Le Thai Duy

Deadline for manuscript submissions

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

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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

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für
Polymermaterialien und Polymertechnologie, Universität Potsdam,
Geiselbergstraße 69, 14476 Potsdam-Golm, Germany

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