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Recent Advances in Polymer-Based Carbon Fibers

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closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

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.













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Message from the Editor-in-Chief

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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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