



polymers



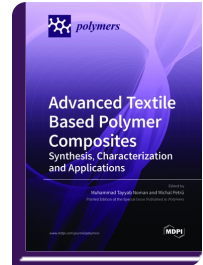
Special Issue Reprint

Advanced Textile Based Polymer Composites: Synthesis, Characterization and Applications

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At present, the textile sector is involved in many diversified fields for the development and sustainability of novel products and polymer-based composites, with several challenges present when it comes to producing innovative, novel, and durable materials. The fabrication of textiles and polymer-based composites as advanced and multifunctional materials in applied industries is a core fundamental concept of this Special Issue, including textile materials, their structures, surface-treated textiles, nanocoated textiles, mathematical modeling, and the use of artificial intelligence (machine learning) for the predicting their most important parameters; textile material reinforcement in composites and polymer composites; and the synthesis, characterization, and applications of textile-based polymer composites for economic and environmental sustainability. This Special Issue covers the following research topics:

- Synthesis and characterization of functional textiles—natural, synthetic, blended, etc.;
- Synthesis and characterization of polymer composites—natural, synthetic, hybrid, inorganic, etc.;
- Analysis of developed composites—interfacial, mechanical, thermal, physical, etc.;
- Surface treatment of textile-based polymer composites—coating, sorption processes, etc.



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