



Advanced Textile Materials: Design, Properties and Applications

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Message from the Guest Editors

Advanced textile materials have become increasingly important due to attributed high performance and functions, including smart wearable products, functional engineering fabrics, intelligent composite fabrics, biomedical fabrics, etc. The nature of advanced textile materials is the design and assembly of structures and micro/nano materials, in which the multiscale structures ranges from micro-scale, meso-scale to macroscopic constructions, and material performance consists of physical, chemical and biological properties. The topics of interest in which we aim to collect recent academic achievements in this Special Issue cover (but are not restricted to): high-performance textiles, structure design and enhanced property of textile materials; characterization and evaluation methods of textile materials; modelling and simulation methods for the property analysis of textile materials; advanced manufacturing and intelligent processing for textile materials, functional and smart textiles, spacer fabrics, auxetic textiles, textile-based nanocomposites, fiber-based structural materials and textiles for diverse application.





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