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Green Textile Materials: Fibers, Processing and Applications

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submissions:

closed (20 December 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue is focused on the exploration of new features of natural fibers and novel textile biomaterials produced from primary and secondary biomass for advanced applications. The scope of this Issue includes the development of new technological processes and the transition of conventional technologies into innovative bio-based ones, for example, finishing with the use of natural substrates like natural dyestuffs or functional herbal extracts which are friendly for humans and the environment. This Special Issue also covers research on bio-composites developed with the use of natural fibers, nanocellulose and bio-based polymer matrices to ensure the high diversification of composite use with the potential to replace synthetic plastics with biodegradable or recyclable ones. We welcome the submission of articles describing new waste management processes and the effective recycling of textile materials including bio-based nonwoven and composites in order to reach the zero-waste goal.



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Special issue



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Message from the Editor-in-Chief

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