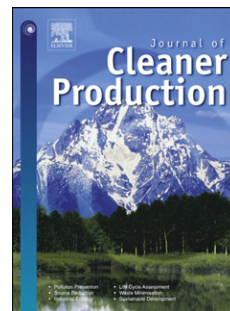


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Perspectives for natural product based agents derived from industrial plants in textile applications-A review

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Abstract: With the consumer's enhanced awareness of eco-safety, there has been an increasing tendency towards the use of sustainable and environmentally friendly materials. In recent years, considerable attention has been given to the products produced from non-food crops for use in various industries notably in the textile industry. Based on biocompatibility, low toxicity, in addition to their recently discovered properties such as anti-feedant, deodorizing, flame retardant, UV protection, and antimicrobial activity are gaining popularity all around world for producing more appealing and highly functional value-added textiles. This review article highlights the most important textile applications of environmental friendly plant-based products such as fibres, polysaccharides, dyes and pigments, polyphenols, oils and other biologically active compounds. This is followed by a focus on plant derived bioactive agents with antimicrobial properties and application of these agents to the textiles. Apart from this, the contribution of plant-based agent to green nanotechnology in recent years for the development of bioactive textiles is also outlined.

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