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Titolo	Enzymes in Textile Processing: A Climate Changes Mitigation Approach : Textile Industry, Enzymes, and SDGs // edited by Muhammad Arshad
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ISBN	9789819780587 9819780586
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (525 pages)
Collana	SDGs and Textiles, , 2948-1244
Disciplina	660.0286 547
Soggetti	Green chemistry Building materials Pollution Green Chemistry Wood, fabric, and textiles
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Textile enzymes a green approach -- Catalysis and bioprocessing Applications in the textile industry. Enzyme applications in textile industry A step toward sustainable development goals -- Sustaining amylases applications through digitalization in the textile economy -- Practical aspects of handling the use of cellulases in the textile industry -- Pectinases and economic aspects related -- Biodiesel generation from textile effluents through algae and microalgae -- Role of Laccases to Achieve, net-zero carbon emissions -- The Circular Bioeconomy Concept in the textile industry -- Global Status of enzyme application in the textile industry Challenges and Roadmap.
Sommario/riassunto	The book offers a comprehensive overview of low-capital cost technologies for enzyme manufacture and utilization in the textile industry with sustainable bioenergy from effluent. Enzymes produced from renewable sources to replace potentially harmful chemicals in textile products have been outlined in making the textile industry greener and eco-friendly. The current book also addresses the strategies to achieve sustainable development goals (SDGs) and

sustainability education in the textile sector. In particular, the use of green enzymes to convert by-products from textile effluents into bioenergy has been highlighted. This book outfits academic researchers, industrial practitioners, and policymakers for the engagement of green enzymes as a step toward sustainable development goals in the textile industry.

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