

1. Record Nr.	UNINA9910882899603321
Autore	Singh Pardeep
Titolo	Dye Pollution from Textile Industry : Challenges and Opportunities for Sustainable Development // edited by Pardeep Singh
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819753413 9789819753406
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (456 pages)
Collana	SDGs and Textiles, , 2948-1244
Disciplina	363.728 628.4
Soggetti	Refuse and refuse disposal Environmental protection Civil engineering Pollution Water Hydrology Waste Management/Waste Technology Soil and Water Protection
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1: Dye Pollution and Environmental Pollution -- Chapter 1: Understanding Dye Pollution and its Impact on the Environment -- Chapter 2: Textile Dyes and its impact on the natural environment -- Chapter 3: Dyes and Unveiling the Environmental story of dye pollution -- Part 2: Technological Solution for remediation of dye from the Environment -- Chapter 4: Technological Solutions for Dye Removal from the Natural Environment -- Chapter 5: Advances in dye-containing wastewater treatment technologies -- Chapter 6: Nanomaterials across the Periodic Table as the Promising Agents for the Remediation of Dye-contaminated Water: A Review -- Chapter 7: Carbon nanotubes application in the bioremediation of heavy metals and dyes from wastewater -- Chapter 8: Removal of dyestuffs from dyeing industry effluents by microbe-mediated oxide nanoparticles

(NPs) via adsorption for sustainable development. etc.

Sommario/riassunto

This book provides a comprehensive overview of the challenges associated with dye pollution and highlights opportunities for sustainable development in the textile industry. It discusses the environmental and health impacts of textile dyeing, the regulations and standards related to dye pollution, and the available technologies and strategies for reducing dye pollution. One of the significant challenges associated with dye pollution is the contamination of water resources. The book further discusses the available technologies and strategies for reducing water consumption and improving water treatment in the textile industry. The book also highlights the importance of adopting sustainable production processes and waste management strategies to minimize toxic waste products and eco-friendly textile production. This book is a valuable resource for researchers, industry professionals, policymakers, and anyone interested in the environmental impact of textile production.
