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Titolo	Novel Materials for Dye-containing Wastewater Treatment / / edited by Subramanian Senthilkannan Muthu, Ali Khadir
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ISBN	981-16-2892-0
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (233 pages)
Collana	Sustainable Textiles: Production, Processing, Manufacturing & Chemistry, , 2662-7116
Disciplina	628.162
Soggetti	Building materials Green chemistry Environmental chemistry Sustainability Refuse and refuse disposal Wood, fabric, and textiles Green Chemistry Environmental Chemistry Waste Management/Waste Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Dye pollution in water and wastewater -- The Utilization of Biomaterials for Water Purification: Dyes, Heavy Metals, and Pharmaceuticals -- Chitosan, a promising bio material for dye elimination -- Removal of Rifampin by Luffa: A Pharmaceutical Potential in Producing Dye in Water -- Ability To Remove Azo Dye From Textile Dyeing Wastewaters Of Carbonaceous Materials Produced From Bamboo Leaves -- Current treatment of textile dyes using potential adsorbents: mechanism and comparative approaches -- Nanocellulose-based membranes for the removal of dyes from aquatic systems -- TiO2-based Composites for Water Decolorization -- Dye degradation by recent promising composite.
Sommario/riassunto	This book highlights novel materials for dye-containing wastewater treatment and presents an up-to-date information on dye degradation/adsorption using new promising materials such as

nanocomposites. Development of various industrial sectors, including textile, food, paper, leather, rubber, cosmetic and printing has led to generation of wastewater which contain dye molecules as well as other inorganic and organic compounds. Considering serious health hazards and environmental damage associated with dyes in the environment, researchers and professionals have been attempting to find the most effective methods of treatment. Of late, various composites have received wide attention due to their outstanding properties in wastewater treatment, that are presented in this book.