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Titolo	Polymer technology in dye-containing wastewater . Volume 2 / / edited by Ali Khadir and Subramanian Senthilkannan Muthu
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ISBN	981-19-0886-9
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Descrizione fisica	1 online resource (249 pages) : (VII, 245 p. 72 illus., 53 illus. in color.)
Collana	Sustainable Textiles: Production, Processing, Manufacturing & Chemistry.
Disciplina	628.162
Soggetti	Dyes and dyeing - Equipment and supplies Sewage - Purification
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	Polymeric membranes nanocomposites as effective strategy for dye removal --Poly(vinyl alcohol) (PVA)-based treatment technologies in the remediation of dye-containing textile wastewater --Natural biodegradable polymeric bio-adsorbents for textile wastewater --Polymer- Derived Ceramic Adsorbent For Removal of Dyes From Water --Polymeric hydrogels for dye adsorption --Dye Removal Using Polymer Composites as Adsorbents --Bacterial Extracellular Polymeric Substances for Degradation of Textile Dyes --Polymer Derived Electrospun Ceramic Nanofibers Adsorbents for Textile Waste Water Treatment --Polymer Membrane in Textile Wastewater --Applications of Inorganic Polymers in Textile Wastewater Treatment.
Sommario/riassunto	The textile industry is among the most significant polluters of water owing to the existence of various types of pollution streams generated by printing processes and textile dyeing. The book begins by documenting various types of Poly (vinyl alcohol) PVA-derived adsorbents (gels, fibers, films, composite particles), membranes, and photocatalysts in combination with conventional adsorbents, polymers, carbonaceous and metallic materials and their use in elimination of dyes from contaminated water. It follows by discussing different properties of nanocomposite membranes such as hydrogels, xerogels and aerogels used in this purpose. Also, different polymer - based

adsorbents such as ceramic adsorbent, clay, hydrogels, starch, cellulose, chitosan, alginates, etc are presented in this book.