

1. Record Nr.	UNINA9910767526203321
Titolo	Environmental nanotechnology . Volume 5 // edited by Nandita Dasgupta [and three others]
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-73010-7
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XIII, 370 p. 123 illus., 70 illus. in color.)
Collana	Environmental Chemistry for a Sustainable World, , 2213-7114 ; ; 37
Disciplina	630
Soggetti	Agriculture Nanotoxicologia Bioclimatologia Ecologia agricola Nanotecnologia Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 Nanocellulose-based Materials for Heavy Metal Removal from Wastewater -- Chapter 2 Visible-Light-Responsive Heterostructured Nanophotocatalysts for Organic Pollutants Decomposition -- Chapter 3 Conductive Polymer Nanobiosensors -- Chapter 4 Fabrication and Potential Applications of Nanoporous Membranes for Separation Processes -- Chapter 5 Nanomaterials for effective control of algal blooms in water -- Chapter 6 Nanotechnological Developments in Nanofiber-Based Membranes Used for Water Treatment Applications -- Chapter 7 Fe-based nanomaterials for removing the environmental endocrine disrupting chemicals in water: a review -- Chapter 8 Plasmonics, Vibrational Nanospectroscopy and Polymers -- Chapter 9 Phyto-Nanosensors: Advancement of Phytochemicals as an Electrochemical Platform for various Biomedical Applications -- Chapter 10 Nano-adsorbents in wastewater treatment for phosphate and nitrate removal.
Sommario/riassunto	This book presents comprehensive reviews on the latest developments of nanotechnologies to detect and remove pollutants in water, air and

food. Polymer nanocomposites, nanoparticles from microbes and the application of nanotechnologies for desalination and agriculture are also discussed. Pollution of water and air by contaminants and diseases is a major health issue leading globally to millions of deaths yearly according to the World Health Organization. Such issue requires advanced methods to clean environmental media.

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