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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.