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Nota di contenuto	An overview of nanomaterials for water technology / Tawfik A. Saleh -- Scientific insights into modified and non-modified biomaterials for sorption of heavy metals from water / Tawfik A. Saleh [and 3 others] -- Principles and advantages of microwave-assisted methods for the synthesis of nanomaterials for water purification / Tawfik A. Saleh [and 3 others] -- Fundamentals and sources of magnetic nanocomposites and their sorption properties / Victor O. Shikuku, Chispin O Kowenje, Wilfrida N. Nyairo -- Advanced nanomaterials for water engineering and treatment: nano-metal oxides and their nanocomposites / Rabia Nazir -- Advanced nanomaterials for the removal of chemical substances and microbes from contaminated and waste water / Kamlesh Shrivastava, Archana Ghosale, Pathik Maji -- Biomass-derived activated carbon: synthesis, functionalized, and photocatalysis application / Samira Bagheri, Nurhidayatullaili Muhd Julkapli -- Polymer consumption, environmental concerns, possible disposal options, and recycling for water treatment / Tawfik A. A. Saleh, Gaddafi I. Danmaliki -- Characteristics of chitosan nanoparticles for water and wastewater treatment: chitosan for water treatment / Cayla Cook, Veera Gnanaswar Gude -- Performance of chitosan micro/nanoparticles to remove hexavalent chromium from residual water / Jimena Bernadette Dima,

Noemi Zaritzky -- Applications of nanomaterials for water treatment: a future avenue / Anupreet Kaur.

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Sommario/riassunto

"[This book] is a comprehensive reference source for the latest research-based material on the use of progressive nanotechnologies for water technologies. Featuring coverage on relevant topics such as water purification, nano-metal oxides, chitosan nanoparticles, and contaminated waste water, this is an ideal reference source for engineers, students, academics, and researchers seeking innovative perspectives on the use of nanomaterials in water engineering"-- Provided by publisher.

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