1. Record Nr. UNINA9910253981003321

Titolo	Green Technologies and Environmental Sustainability / / edited by Ritu Singh, Sanjeev Kumar
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-50654-4
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XV, 492 p. 157 illus., 125 illus. in color.)
Disciplina	621.042
Soggetti	Renewable energy resources Biomaterials Sustainable development Nanochemistry Water-supply Agriculture Renewable and Green Energy Sustainable Development Water Industry/Water Technologies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Chapter 1. A review and perspective of constructed wetlands as a green technology in decentralization practices -- Chapter 2. Laccases: A Blue Enzyme for Greener Alternative Technologies in the Detection and Treatment of Emerging Pollutants -- Chapter 3. Biofuels for Sustainable Development-A Global Perspective -- Chapter 4. Greening the Indian Transport Sector: Role of biodiesel -- Chapter 5. Microalgae biofuels: A green renewable resource to fuel the future -- Chapter 6. Harvesting of Microalgae for Biofuels: comprehensive performance evaluation of natural, inorganic and synthetic flocculants -- Chapter 7. Solar Energy Harvesting Solar photovoltaics (PV): A sustainable solution to solve energy crisis -- Chapter 8. Biological limitations on Glyphosate Biodegradation -- Chapter 9. Bioindication-based approaches for sustainable management of urban ecosystems -- Chapter 10. An

Overview of Sustainable Dimensions and Indicators for Smart City -- Chapter 11. Need for an integrated approach towards environmental quality control in developing countries -- Chapter 12. Eco-friendly Post-consumer waste management utilizing Vermi-technology -- Chapter 13. Recent Advancement in Green Sustainable Nanocellulosic Fiber: An overview -- Chapter 14. Metal NPs (Au, Ag & Cu): Synthesis, stabilization & their role in green chemistry and drug delivery -- Chapter 15. Green Synthesis of Nanoparticles: An Emerging Phyotechnology -- Chapter 16. Green analytical techniques- Novel and Aboriginal perspectives on Sustainable Development -- Chapter 17. Emerging aspects of bioremediation of arsenic -- Chapter 18. Distillery wastewater: A major source of environmental pollution and it's biological treatment for environmental safety -- Chapter 19. Ecological Restoration techniques for management of degraded, mined-out areas and the role played by rhizospheric microbial flora-A review of case studies from India -- Chapter 20. Biochar: An Emerging Panacea for Contaminated and Degraded Soil.

Sommario/riassunto

In the present scenario, green technologies are playing significant role in changing the course of nation's economic growth towards sustainability and providing an alternative socio-economic model that will enable present and future generations to live in a clean and healthy environment, in harmony with nature. Green technology, which is also known as clean technology, refers to the development and extension of processes, practices, and applications that improve or replace the existing technologies facilitating society to meet their own needs while substantially decreasing the impact of human on the planet, and reducing environmental risks and ecological scarcities. The concepts of Green Technologies, if endorsed and pervaded into the lives of all societies, will facilitate the aim of the Millennium Development Goals of keeping the environment intact and improve it for the civilization to survive. Green Technologies and Environmental Sustainability is focused on the goals of green technologies which are becoming increasingly important for ensuring sustainability. This book provides different perspectives of green technology in sectors like energy, agriculture, waste management and economics and contains recent advancements made towards sustainable development in the field of bioenergy, nanotechnology, green chemistry, bioremediation, degraded land reclamation. This book is written for a large and broad readership, including researchers, scientists, academicians and readers from diverse backgrounds across various fields such as nanotechnology, chemistry, agriculture, environmental science, water engineering, waste management and energy. It could also serve as a reference book for graduates and post-graduate students, faculties, environmentalist and industrial personnel who are working in the area of green technologies.