

1. Record Nr.	UNINA9910350357403321
Titolo	Environmental Biotechnology For Soil and Wastewater Implications on Ecosystems [[electronic resource] /] / edited by Rita Kundu, Rajiv Narula, Rajashree Paul, Susmita Mukherjee
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-6846-5
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIV, 115 p. 37 illus., 25 illus. in color.)
Disciplina	577.6 577.7
Soggetti	Aquatic ecology Water pollution Environmental chemistry Environmental engineering Biotechnology Freshwater & Marine Ecology Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution Environmental Chemistry Environmental Engineering/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Physico-Chemical and Enzymatic Analysis of Rhizospheric and Non-Rhizospheric Soils from Middle indo-Gangetic Plain Region -- Kinetics Study of A Suspended Growth System For Sustainable Biological Treatment of Dairy Wastewater -- Assessment of Removal of Mercury From Landfill Leachate by Electrocoagulation Assessment of Self Rectification Capacity of the Main Sewage Canal while passing through the East Kolkata Wetlands, a Ramsar site in West Bengal, India -- Health Risk Assessment of Some Dominant Heavy Metal Species Detected in Subsurface Water near Kolkata MSW Landfill Site -- Fluoride Attenuation from Contaminated Water by Hydrophytes -- Bioremediation of Wastewater Using Microalgae -- Optimization of Lead Ions Adsorption onto C16-6-16 Incorporated Mesoporousmcm-

41 Using Box-Behnken design -- Treated Sewage Effluents as A Source of Microbiological Contamination On Receiving Watersheds -- An Analysis of Water Pollution -Where Surface Water Can be Habitable Avoiding Most of the Major Disease Using Easy and Low Cost Water Filtration -- Lead Remediation from Landfill Leachate by Electrocoagulation-A Laboratory-Scale Study -- Production optimization and application of extracellular chromate reductase from *Bacillus* sp. for bioremediation of hexavalent chromium -- Bioremediation efficacy of extracellular chromate reductase from *Bacillus amyloliquefaciens* (CSB 9) for detoxification of hexavalent chromium.

Sommario/riassunto

This book comprises some of the major facts and solutions on environmental studies and its importance on the ecosystem. Implementations of Biotechnology on wastewater treatment and removal of toxins from the wastewater have been thoroughly discussed in different chapters with its impacts on the ecosystem. State of art technologies related to the water treatment as well as balancing of various essential components of the ecosystem has also been demonstrated with various technical solutions. Impacts of various toxins, mainly chemical wastes produced by various industries have been precisely identified and there impacts with various solutions are also discussed. This book is also a collection of various ideas and thoughts coming from reputed scientists and researchers working in this field with modernized technological views. A special emphasis has been given to protect and balance our ecosystem to save the entire living beings. Authors have also tried to make a bridge between bioremediation and ecosystem to bring these in a common platform for better understanding and solution of various critical problems with the help of cutting edge technologies. In this particular aspect or research, the novelty of the book is unparallel to show various future opportunities for the researchers, academicians, industrial personnel working in this field.
