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Titolo	Environmental Biotechnology Volume 4 / / edited by K. M. Gothandam, Ramachandran Srinivasan, Shivendu Ranjan, Nandita Dasgupta, Eric Lichtfouse
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ISBN	3-030-77795-2
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (269 pages)
Collana	Environmental Chemistry for a Sustainable World, , 2213-7122 ; ; 68
Disciplina	628.5
Soggetti	Agriculture Plant biotechnology Refuse and refuse disposal Nanotechnology Plant Biotechnology Waste Management/Waste Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1 Switching to bioplastics for sustaining our environment -- Chapter 2 Bioenergy production from wastewater resources using Clostridium species -- Chapter 3 Management of Phosphate in Domestic Wastewater Treatment Plants -- Chapter 4 Agricultural Waste: A potential solution to combat heavy metal toxicity -- Chapter 5 Current Trends and Emerging Technologies for Pest Control Management of Rice (Oryza sativa) Plants -- Chapter 6 Comet assay: is it a sensitive tool in ecogenotoxicology? -- Chapter 7 Drosophila melanogaster as a model to study Acrylamide induced toxicity and the effects of phytochemicals -- Chapter 8 Mesoporous Silica Nanoparticles are Nanocarrier for Drug Loading and Induces Cell Death in Breast Cancer -- Chapter 9 Insights on the Biotechnological applications of Marine Fungal Exopolysaccharides.
Sommario/riassunto	This book reviews the production of bioplastic from various raw materials and recycling wastewater into useful bioproducts by bacteria. In addition, it also addresses the recent advancement in pest control in

rice plants, different methods to analyse genotoxicity on soil samples and the effect of phytocompounds on acrylamide-induced toxicity in *Drosophilla*. Interestingly, this book also discusses mesoporous silica nanoparticles' role as nanocarrier material for inhibiting the cancer cell, especially breast cancer and various biotechnological applications of marine fungal exopolysaccharides.
