1. Record Nr. UNINA9910720087003321

Titolo	Microplastic sources, fate and solution / / Anish Khan, Chongqing Wang, and Abdullah M. Asiri, editors
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore Pte Ltd, , [2023] ©2023
ISBN	9789819906956 9789819906949
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (137 pages)
Disciplina	363.738
Soggetti	Microplastics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Microplastics in the freshwater and earthbound conditions: Prevalence, destinies, impacts and supportable arrangements -- Chapter 2. Effect of microplastics on microbial network -- Chapter 3. Quick estimation of microplastic in meat -- Chapter 4.Source, migration and toxicology of microplastics in soil -- Chapter 5.Impact of microplastics on nutrient -- Chapter 6.Agricultural plastic mulching as a source of microplastics in the terrestrial condition -- Chapter 7. Worldly and spatial varieties of microplastics in side of the road dust from provincial and urban area, : Implications for diffuse contamination -- Chapter 8.Microplastic particles in the Persian/Arabian Gulf -- Chapter 9.Impacts of microplastic biofilms on supplement cycling in recreated freshwater frameworks -- Chapter 10.Conveyance, bounty and dangers of microplastics in nature -- Chapter 11.Accumulation system of antibiotic medication hydrochloride from fluid arrangements by nylon microplastics -- Chapter 12.Expulsion of microplastics by means of drinking water treatment: Current information and future headings -- Chapter 13.Impacts of polystyrene microplastics on larval advancement, settlement, and transformation -- Chapter 14. Bioaccumulation of microplastics and its in vivo connections -- Chapter 15.Microplastics in oceanic situations: Toxicity to trigger biological results -- Chapter 16.Waterfront sea elements decrease the fare of microplastics to the vast sea -- Chapter 17.Barnacles as potential

bioindicator of microplastic contamination in Hong Kong -- Chapter 18.Microplastic accumulation in remote ocean dregs from the Rockall Trough -- Chapter 19.Environmental microplastics: A survey on current status and points of view -- Chapter 20.The joined poisonous quality impact of microplastics and nonylphenol on microalgae Chlorella pyrenoidosa -- Chapter 21.Daylight interceded cadmium discharge from shaded microplastics containing cadmium color in watery stage -- Chapter 22.Environmental microplastic testimony in a urban environment and an assessment of transport -- Chapter 23.Biofilm modifies antibiotic medication and copper adsorption practices onto polyethylene microplastics.

Sommario/riassunto

This book provides an overview of the sources, occurrence, fate and solution of microplastics. Microplastics in sediment and soil environment have been only scarcely surveyed, and no profound discussion on microplastics removal is summarized until this book. Here we focus on sharing clear schematic information and the book sufficiently supports important microplastic topics: such as microbial network, microplastic toxicology and accumulation, agricultural plastics, nylon microplastics, polystyrene microplastics, polyethylene microplastics and many more. The book mainly provides an overview of recent advances in knowledge of sources, occurrence, distribution, chemical behavior and ecological threats while it also presents information related to feasible solutions for microplastic pollution management. This comprehensive resource will be valuable up-to-date knowledge for environmental scientists, ecotoxicologists, ecologists, marine biologists, environmental chemists in the academic field and this book is intended to be beneficial information for environmental managers, water suppliers, wastewater treatment, plastics manufacturer, and policy makers as well.