

1. Record Nr.	UNINA990003670660403321
Autore	Ormezzano Achille
Titolo	Codice dell' editore / Achille Ormezzano
Pubbl/distr/stampa	Milano : Ed. Bibliografica, 1991
Descrizione fisica	336 p.
Collana	I mestieri del libro ; 3
Locazione	DECSE
Collocazione	SE 107.02.17-
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910678258103321
Titolo	Micro and Nanoplastics in Soil : Threats to Plant-Based Food / / Naga Raju Maddela, Kondakindi Venkateswar Reddy, and Pabbati Ranjit, editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2023] ©2023
ISBN	3-031-21195-2
Edizione	[First edition.]
Descrizione fisica	1 online resource (439 pages)
Disciplina	363.738
Soggetti	Microplastics Soil pollution
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part1. Soil Pollution by Micro and Nanoplastics -- Chapter1. Soil Pollution by Micro and Nanoplastics: An overview -- Chapter2. Soil Pollution by Micro and Nanoplastics: Sources, Fate and Impact --

Chapter3. Abundance and Distribution of MPs and NPs in Soil – A Global Scenario -- Chapter4. Methodology of assessing micro plastics and nano plastics in the environment -Recent advances in the practical approaches -- Chapter5. Persistence of Micro and Nanoplastics in Soil -- Chapter6. Microplastics as a carrier of antibiotic resistance genes - a revision of literatureiz -- Part2. Trophic transfer of Micro and Nanoplastics -- Chapter7. Phytoaccumulation of Micro and Nanoplastics: Root Uptake -- Part3. Toxicity of Micro and Nanoplastics -- Chapter8. Toxicity Effects of Micro and Nanoplastics in Terrestrial Environment -- Chapter9. Ecological Impacts and Toxicity of Micro and Nanoplastics in Agroecosystem -- Chapter10. Micro and Nanoplastics on Plant Functionalities -- Chapter11. Cellular and Animal Toxicities of Micro and Nanoplastics -- Part4. Bioremediation of Micro and Nano plastics- polluted soil -- Chapter12. Restoration of Micro/Nanoplastics-contaminated Soil by Phytoremediation -- Chapter13. Bacterial Remediation of Micro/Nanoplastics-contaminated soil -- Chapter14. Mycoremediation of Micro and Nano Plastics (MNPs) – contaminated Soils -- Chapter15. Emerging Techniques for the Mitigation of Micro and Nanoplastics in Soil -- Chapter16. Micro and Nanoplastics in Agricultural Soils: Challenges and Future directions.

Sommario/riassunto

This contributed volume gives a state-of-the-art overview of microplastics and nanoplastics (MPs and NPs) in soils and their relationship with growing plants. Through chapters contributed by a wide variety of researchers, the book offers readers an understanding of MP and NP adsorption, uptake, and effects, as well as implications for trophic transmission, food safety, and security. Cutting-edge topics such as trophic transfer and remediation of MPs and NPs in soil samples are also addressed. The book begins with a primer on terrestrial MPs and NPs, their effects on terrestrial plants, and how these contaminants affect human populations. From there, the volume is split into four sections which address both problems caused by MPs and NPs in soil and potential remediation solutions. The first section deals with the mechanics of how MPs and NPs pollute soils and how toxic chemicals affect the soil profile and its flora, fauna and microbes. The second section of the book discusses trophic transfer of MPs and NPs from roots to shoot, shoot to leaves, and then to fruits. The third section details the threats to humans that are present as a result of MPs and NPs in soils. The fourth and last section gives covers bioremediation techniques that can be employed in order to reclaim polluted soils.
