

1. Record Nr.	UNINA9910755074703321
Autore	Cocca Mariacristina
Titolo	Proceedings of the 3rd International Conference on Microplastic Pollution in the Mediterranean Sea / / edited by Mariacristina Cocca, Veronica Ambrogi, Roberto Avolio, Rachele Castaldo, Maria Emanuela Errico, Gennaro Gentile
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-34455-3
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (258 pages)
Collana	Springer Water, , 2364-8198
Altri autori (Persone)	AmbrogiVeronica AvolioRoberto CastaldoRachele ErricoMaria Emanuela GentileGennaro
Disciplina	363.7394091638
Soggetti	Environmental chemistry Ecology Pollution Polymers Materials Environmental Chemistry Environmental Sciences Materials Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: An experimental comparison between FTIR and Raman microspectroscopy applied to the morphological analysis of microplastics in drinking water -- Chapter 2: Challenges for restricting microplastics in the EU: Recommendations from scientists for the restriction proposal -- Chapter 3: What kind of international legally binding instrument on plastic pollution do we need? -- Chapter 4: Detection and characterization of micro- and nanoplastic pollutants: A case study of the Adriatic Sea.

Sommario/riassunto

Microplastic pollution is a global problem, and its severity only threatens to get worse. This book presents all of the most up-to-date research on microplastic pollution, identifies issues and proposes actions to be taken and solutions to be implemented in facing down this environmental threat. The book details a host of aspects related to microplastic pollution, including: causes and effects; the impact on different environments; the emerging threat of nanoplastics; detection systems for monitoring areas subject to pollution; the ramifications in regard to other types of pollutants; green approaches for the synthesis of environmentally-friendly polymers; and socio-economic and environmental impact assessment and risk analysis, including in regard to effects on the human food chain. The primary audience for the book are scientists and decision-makers from industries, international, national and local institutions, and NGOs. It offers comprehensive information on the origin of the problem, its impact on marine environments, with particular attention to the Mediterranean Sea and Coasts, and the current research activities and ongoing projects aimed at finding technical solutions to mitigate the phenomenon.
