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Nota di contenuto	Plastics in the anthropocene / Anthony Andrady -- Additives in plastics / Jennifer M. Lynch, Katrina Knauer, Katherine Shaw -- Deconstructing the plastic soup : methods to identify and quantify marine plastic pollution sources / Anna Schwarz, Tim van Emmerik -- Collection and characterization of microplastics debris in marine ecosystems / Jun-Li Xu , Ming Zhao, Brijesh Kumar Tiwari and Aoife A. Gowen -- Estimating microplastics in deep water / Winnie Courtene-Jones, Kai Liu, Daoji Li -- Marine litter, plastic and microplastics on the sea floor / Francois Galgani, Angiolillo Michela, Olivia Gerigny, Thomas Maes, Eric Tambute , Peter T. Harris -- Plastics in freshwater bodies / L. Lebreton, M. Kooi, T. Mani, S.M. Mintenig, M.B. Tekman, T. van Emmerik, H. Wolter -- Weathering and fragmentation of plastics in the ocean / Anthony Andrady and Bimali Koongolla -- Pollutants sorbed onto microplastics / Jianlong Wang, Xuan Guo -- Colonization of plastic marine debris : the known, the unknown, and the unknowable / Linda Amaral-Zettler -- Biodegradation of plastics in the marine environment / Anthony

Andrady -- Ingestion of microplastics by marine animals / Winnie Courtene-Jones, Nathaniel J. Clark, Astrid Fischer, Natalie S. Smith, Richard C. Thompson -- Microplastics in fish and seafood species / Amy L. Lusher, Garth A. Covernton -- Nanoplastics and the marine environment : the unseen majority / Lia Corbett and Linda A. Amaral-Zettler -- Human behavior and marine plastics pollution / S. Nuojuua, D. Cracknell & S. Pahl -- Legal and policy frameworks for preventing and reducing marine plastic pollution / Karen Raubenheimer.

Sommario/riassunto

"Plastics and the Ocean captures the present state of knowledge on the sources, characterization, and environmental impacts of plastics in the ocean. Reflecting on current research and reader interest, the book focuses mainly on micro-scale and nanoscale plastics in the ocean environment, including the human impacts of these that reach consumers via seafood. Recognizing that in the face of future growth in plastics use in packaging, how the mismanagement of plastic waste, especially urban litter, is largely responsible for plastics pollution, the book also addresses human behavioral aspects of the problem. This collection of expert perspectives is arranged in a logical sequence to guide the reader through this multi-disciplinary subject area. An overview of the field sets the scope of the discussion and highlights its importance to related fields of science, as well as to the everyday life of consumers. Written and edited at a level that is jargon-free and accessible to readers with a background in basic chemistry and biology, this text provides engineers and scientists with a common vocabulary to explore this critical field"--
