
Solutions To Plastic Pollution

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Mare Plasticum - The Plastic Sea Hatherleigh Press

Jam-packed with surprising information about plastic's effect on the environment, plus loads of practical ways kids can cut down on their plastic footprint, this is the kids guide to being part of the pollution solution! It's in your toothbrush ... your clothes ... your earbuds. Chances are, you're touching it right now. We're talking about plastic! Plastic is absolutely everywhere and in practically everything we touch, from pens to water bottles to sports equipment. And a lot of it is used once and then thrown away. Unfortunately, it takes a REALLY long time for plastic to break down and it can be harmful to our environment, especially wildlife. But why and

when did we start using it in so much stuff? And how do we stop? Discover shocking stats and surprising facts; inspirational interviews with National Geographic explorers and leading researchers who are working tirelessly to protect the planet; tons of simple suggestions for sustainable swaps; and more eco-friendly choices and smart action steps. This book answers all of your burning questions about plastic and offers tangible ways to get involved, reduce plastic use, and create a more plastic-free future!

The Plastic Solutions Frontiers Media SA

This book is open access under a CC BY 4.0 license. This volume focuses on microscopic plastic debris, also referred to as microplastics, which have been detected in aquatic environments around the globe and have accordingly raised serious concerns. The book explores whether microplastics represent emerging contaminants in freshwater systems, an area that remains underrepresented to date. Given the complexity of the issue, the book covers the current state-of-research on microplastics in rivers and lakes, including analytical aspects, environmental concentrations and sources, modelling approaches, interactions

with biota, and ecological implications. To provide a broader perspective, the book also discusses lessons learned from nanomaterials and the implications of plastic debris for regulation, politics, economy, and society. In a research field that is rapidly evolving, it offers a solid overview for environmental chemists, engineers, and toxicologists, as well as water managers and policy-makers.

Kids Vs. Plastic National Geographic Children's Books

Plastics have transformed every aspect of our lives. Yet the very properties that make them attractive--they are cheap to make, light, and durable--spell disaster when trash makes its way into the environment. *Plastic Soup: An Atlas of Ocean Pollution* is a beautifully-illustrated survey of the plastics clogging our seas, their impacts on wildlife and people around the world, and inspirational initiatives designed to tackle the problem. With striking photography and graphics, *Plastic Soup* brings plastic pollution to brilliant life for readers. According to some estimates, if we continue on our current path, the oceans will contain more plastic than fish by the year 2050. Created to inform and inspire readers, *Plastic Soup* is a critical tool in the fight to reverse this trend.

The Zero-Waste Chef European Investment Bank

An estimated 8 million metric tons (MMT) of plastic waste enters the

world's ocean each year - the equivalent of dumping a garbage truck of plastic waste into the ocean every minute. Plastic waste is now found in almost every marine habitat, from the ocean surface to deep sea sediments to the ocean's vast mid-water region, as well as the Great Lakes. This report responds to a request in the bipartisan Save Our Seas 2.0 Act for a scientific synthesis of the role of the United States both in contributing to and responding to global ocean plastic waste. The United States is a major producer of plastics and in 2016, generated more plastic waste by weight and per capita than any other nation. Although the U.S. solid waste management system is advanced, it is not sufficient to deter leakage into the environment. *Reckoning with the U.S. Role in Global Ocean Plastic Waste* calls for a national strategy by the end of 2022 to reduce the nation's contribution to global ocean plastic waste at every step - from production to its entry into the environment - including by substantially reducing U.S. solid waste generation. This report also recommends a nationally-coordinated and expanded monitoring system to track plastic pollution in order to understand the scales and sources of U.S. plastic waste, set reduction and management priorities, and measure progress.

Marine Anthropogenic Litter Capstone

This book, written by a multidisciplinary team of authors comprising scientists, artists and communicators, explores one of the most pressing issues of our time – the menace plastics pose to marine environments and organisms. It takes readers on a journey that begins on the beaches of Galicia, where the beach litter formed the starting point for an exhibition that combines art and science to alert the audience to the urgent

need for action. The journey culminates with a short “plastic story”, which reveals a disturbing vision of the future significance of plastics for humans, and an example of how comics can deliver information to a younger audience. Along the way there is plenty of fascinating science, such as insights into the impacts of plastics and microplastics; the new marine ecosystem, known as the “plastisphere”; and the current status of the oceans, from the Arctic to the Mediterranean. The book also explores the historical developments; sustainable solutions, including the use of circular economy methodologies; and protective measures, like those being tried in China and the Far East. Lastly, it describes the role played by rivers as transport vectors for plastic, with special reference to the Danube, and to complete the picture, since most of the plastic is of terrestrial origin, it investigates problems related to microplastics in soils.

Technologies and Solutions to Manage Plastic Waste in Small and Remote Islands Springer

Where Is the Value in the Chain? Pathways out of Plastic Pollution aims to support policy makers in their efforts to address plastic pollution. By examining the economic and financial implications of plastic management, the report provides key recommendations on how to create a comprehensive approach to addressing plastic pollution and to help policy makers make informed decisions for plastic pollution management. The report brings together new evidence from three analytical undertakings: • Tackling Plastic Pollution: Toward Experience-Based Policy Guidance—A review of existing literature and a summary of findings from the ex post analysis of the effectiveness of plastics policies in 10 countries and states and an evidence-based policy guidance aimed at policy makers and stakeholders involved in design, implementation, and evaluation of policies to manage plastic pollution. • The Plastic Substitution

Tradeoff Estimator (the Estimator)—An innovative model that estimates the external costs of 10 plastic products and their alternatives along their entire life cycle, developed and piloted in five countries. The Estimator can be applied in any country to identify what substitution materials, or what combination of them, would perform best in a given scenario and to examine tradeoffs between plastics and alternatives to help establish targets for reduction and substitution. • The Plastic Policy Simulator (PPS)—A country-level, data-driven model for policy analysis to better describe the impacts of different policy instruments and policy packages on individual economic agents and on the plastic value chain at large. The PPS has been developed as a universal model and piloted in Indonesia. Its objective is to support policy makers and others in government, industry, and civil society in search of policy solutions to stem the flow of plastics by bringing an evidence-based approach to policy.

Microplastic in the Environment: Pattern and Process 'The Rosen Publishing Group, Inc'

In 1907, a chemist named Leo Baekeland invented the first synthetic plastic. In the little more than 100 years since, plastic has benefited humanity even while we polluted Earth with it. During the 1950s, plastic production rapidly increased and since then, people have created billions of tons of plastic. Millions of tons of plastic enter the world's fragile oceans and ecosystems every year. This informative book examines the globally significant plastic pollution problem, how it became so bad, and the steps that governments, activists, and young people are taking to demand change.

Plastic-Free Capstone

ORGANIC REACTIONS Thought-provoking discussions of the challenges posed by—and potential solutions to—plastic and microplastic pollution In *Plastic and Microplastic in the Environment: Management and Health Risks*, a team of distinguished environmental researchers delivers an up-to-

date exploration of plastic and microplastic environmental contamination, conventional and advanced plastics management techniques, and the policies adopted across the globe to combat the phenomenon of plastics contamination. Containing a balanced focus on both conventional plastics and microplastics, this book discusses the potential health issues related to plastic and microplastic infiltration in a variety of global environments and environmental media, including freshwater environments, oceanic environments, soil and sediment, and air. Insightful treatments of commercial and social issues, including the roles of corporate social responsibility initiatives and general education in the fight against plastic and microplastic pollution, are provided as well. *Plastic and Microplastic in the Environment* also includes: A thorough introduction to plastic debris in global environments, including its accumulation and disintegration Comprehensive explorations of policies for strengthening recyclable markets around the world Practical discussions of the prevalence of microplastics in the marine environment, air, soil, and other environmental media In-depth examinations of wastewater treatment plants as a potential source point of microplastics, as well as conventional and advanced microplastic particle removal technologies Perfect for academics, postgraduates and advanced undergraduates in fields related to environmental science and plastics, *Plastic and Microplastic in the Environment: Management and Health Risks* will also earn a place in the libraries of professionals working in the

plastics industries and environmental policymakers.

Handbook of Research on Environmental and Human Health Impacts of Plastic Pollution World Bank Publications

This open access book examines global plastic pollution, an issue that has become a critical societal challenge with implications for environmental and public health. This volume provides a comprehensive, holistic analysis on the plastic cycle and its subsequent effects on biota, food security, and human exposure. Importantly, global environmental change and its associated, systems-level processes, including atmospheric deposition, ecosystem complexity, UV exposure, wind patterns, water stratification, ocean circulation, etc., are all important direct and indirect factors governing the fate, transport and biotic and abiotic processing of plastic particles across ecosystem types. Furthermore, the distribution of plastic in the ocean is not independent of terrestrial ecosystem dynamics, since much of the plastic in marine ecosystems originates from land and should therefore be evaluated in the context of the larger plastic cycle. Changes in species size, distribution, habitat, and food web complexity, due to global environmental change, will likely alter trophic transfer dynamics and the ecological effects of nano- and microplastics. The fate and transport dynamics of plastic particles are influenced by their size, form, shape, polymer type, additives, and overall ecosystem conditions. In addition to the risks that plastics pose to the total environment, the potential impacts on human health and exposure routes, including seafood consumption, and air and drinking water need to be assessed in a comprehensive and quantitative manner. Here I present a holistic and interdisciplinary book volume designed to advance the understanding of plastic cycling in the environment with an emphasis on sources, fate and transport, ecotoxicology, climate change effects, food security, microbiology, sustainability, human exposure and public policy.

Say Goodbye to Plastic Protecting the Oceans

A simple and powerful book educating people about the epidemic of plastic use and solutions for a plastic-free future. If you've heard of the plastic-free lifestyle, but think you don't have time for it in your busy life, prepare to be delightfully wrong. Goodbye Plastic shows you how, whether you're seeking to knock plastic out of your life or just try out a few novel eco-hacks in your kitchen, bathroom, office or dining room. Plastic pollution activist and entrepreneur Sandra Ann Harris invites us to say goodbye to plastic, room by room. Opportunities abound to simplify our lives by re-thinking our wasteful habits--we just need to learn to recognize them.

Plastic Pollution and Bacterial Solutions Lerner Digital™

Learn how and why a useful, 5000-year-old invention has become a threat to our planet--and what you can do about it--in this history of the simple straw. From reeds used by ancient Sumerians to bendy straws in World War II hospitals, people have changed the straw to fit their needs for 5000 years. Today however, this useful tool is contributing to the plastic problem polluting our oceans. Once again, the simple straw needs a reinvention. With bright illustrations and well-researched text, children can read about the inventors behind the straw's technological advancements, including primary sources like patents, as well as how disposable plastic harms the environment. See the newest solutions, from plastic straw alternatives to activism by real kids like Milo Cress who started the Be Straw Free campaign when he was 11 years old. Learn about what kids can do to reduce plastic waste. The backmatter includes more information on the movement to stop plastic waste, action items kids can do, a bibliography, and additional resources on plastic pollution. Books for a Better Earth are

designed to inspire children to become active, knowledgeable participants in caring for the planet they live on. A Junior Library Guild Gold Standard Selection!

Junk Raft Holiday House

A simple and powerful book educating people about the epidemic of plastic use and solutions for a plastic-free future. If you've heard of the plastic-free lifestyle, but think you don't have time for it in your busy life, prepare to be delightfully wrong. Say Goodbye to Plastic shows you how, whether you're seeking to knock plastic out of your life or just try out a few novel eco-hacks in your kitchen, bathroom, office or dining room. Plastic pollution activist and entrepreneur Sandra Ann Harris invites us to say goodbye to plastic, room by room. Opportunities abound to simplify our lives by re-thinking our wasteful habits--we just need to learn to recognize them.

Freshwater Microplastics Academic Press

“Tells a story that could inspire everyday behavior change for all of us. Small steps, leading to one big milestone: a planet free of plastic pollution.” —Daniella Dimitrova Russo, CEO and founder of Think Beyond Plastic™ Like many people, Beth Terry didn't think an individual could have much impact on the environment. But while laid up after surgery, she read an article about the staggering amount of plastic polluting the oceans, and decided then and there to kick her plastic habit. In Plastic-Free, she shows you how you can too, providing personal anecdotes, stats about the environmental and health problems related to plastic, and individual solutions and tips on how to limit your plastic footprint. Presenting both beginner and advanced steps,

Terry includes handy checklists and tables for easy reference, ways to get involved in larger community actions, and profiles of individuals—Plastic-Free Heroes—who have gone beyond personal solutions to create change on a larger scale. Fully updated, Plastic-Free also includes sections on letting go of eco-guilt, strategies for coping with overwhelming problems, and ways to relate to other people who aren't as far along on the plastic-free path. Both a practical guide and the story of a personal journey from helplessness to empowerment, Plastic-Free is a must-read for those concerned about the ongoing health and happiness of themselves, their children, and the planet. “This is the tool that we’ve all been waiting for to ease the transition to going plastic-free. Time to wake up. Peace.” —Rosanna Arquette, actor, Plastic Pollution Coalition member “Practical and hopeful, with a kind of cheerleading charm.” —The Washington Post Plastic Pollution William Andrew

This book focuses on different aspects of microplastic pollution, offering authors and readers the opportunity to share their knowledge, identify issues and propose solutions and actions to face this environmental threat. Although plastic pollution is a well-known global problem, the recent discovery of microplastics and nanoplastics in seas and oceans represents a very alarming new environmental challenge. The book offers comprehensive insights into the origins of the problem, its impact on marine environments, particularly the Mediterranean Sea and

coasts, and the current research trends aimed at finding technical solutions to mitigate the phenomenon. It is primarily intended for scientists and decision makers from industry, international, national and local institutions and NGOs

Say Goodbye to Plastic Hatherleigh Press

The objective of this guide is to raise awareness about the oceans' crucial importance to us and to the planet, and the growing threats posed by plastics discharged into and accumulating in the oceans. The guide outlines the key problems and challenges and how these can be addressed. The guide is promoting circular solutions to the ocean plastic pollution, and intends to inspire impactful action and change.

The impacts of plastic pollution in the North Pacific Ocean and possible solutions Island Press

The rising production and consumption of plastic combined with mismanagement of plastic waste is leading to significant pollution of marine and coastal areas. Addressing plastic waste on islands is crucial because of their roles as both receptors and contributors. While there is no single solution to turn the tide on plastic pollution for small and remote islands, a combination of technologies and other upstream and downstream solutions can help these communities effectively manage plastic waste, safeguarding their valuable ecosystems and livelihoods. New innovative technologies to treat plastic waste only work effectively in specific island contexts with viability impacted by many different aspects including the volumes and type of plastic waste, existing solid waste management systems, infrastructure, and community awareness. In addition to treatment technologies, other solutions need to be considered such as reducing

the plastic input to islands upstream, before it becomes plastic waste, as well as sorting and then transporting plastic waste to a viable recycling market. This study combines a global assessment of plastic waste management on islands with a review of existing technologies and their viability in island contexts to develop the Technology Options for Plastic waste for Island Contexts (TOPIC) Toolbox which was then piloted on five islands in Malaysia. The TOPIC Toolbox supports island decision-makers in identifying technologies and a potential mix of technologies and other solutions to treat plastic waste for their island.

Earth's Plastic Problem Simon and Schuster

The presence, at sea, of large amounts of plastic and microplastics, which are sometimes invisible and results from the fragmentation of larger debris, requires an in-depth knowledge of the nature of ocean debris, its transport mechanisms, life cycle and effects on the environment. This volume provides new insights in the topic of plastic pollution, an actual and important problem for the marine environment.

The Impacts of Plastic Pollution in the North Pacific Ocean and Possible Solutions Beacon Press

Most people have heard of the massive collection of debris in the Pacific Ocean or the damaging effects of oil spills on ocean ecosystems. But there are many other ways the world's oceans are being affected by pollution. This important title examines the sources of ocean pollution and the action being taken around the world to prevent pollution. Get inspired to take action in your community!

Plastic Pollution in the Global Ocean Springer Science & Business Media

Audisee® eBooks with Audio combine professional narration and text highlighting for an engaging read aloud experience! The inspiring true story of how one African woman began a

movement to recycle the plastic bags that were polluting her community. Plastic bags are cheap and easy to use. But what happens when a bag breaks or is no longer needed? In Njau, Gambia, people simply dropped the bags and went on their way. One plastic bag became two. Then ten. Then a hundred. The bags accumulated in ugly heaps alongside roads. Water pooled in them, bringing mosquitoes and disease. Some bags were burned, leaving behind a terrible smell. Some were buried, but they strangled gardens. They killed livestock that tried to eat them. Something had to change. Isatou Ceesay was that change. She found a way to recycle the bags and transform her community. This inspirational true story shows how one person's actions really can make a difference in our world.

Plastic Soup GRIN Verlag

Plastic is an incredibly useful and versatile material that offers ease and convenience. Unfortunately it is difficult to recycle and takes a very long time to break down naturally. This book describes plastic pollution, especially as it effects the world's oceans, and offers solutions to the problem.