

IMPACTS OF PLASTICS ON THE ENVIRONMENT



Extracting oil to make plastic **pollutes soil, air and water** and can even increase earthquake risk.

Toxic chemicals used in the production process can be released into the environment through chemical fires, spills, and toxic gas emissions.

Plastic breaks down into **microplastics** — tiny particles that pollute water and air.

Plastic pollution harms wildlife that consumes it, gets trapped in it, or is affected by chemicals leaching from it.



Plastics And The Environment

Anthony L. Andrady



Plastics And The Environment:

Plastics and the Environment Anthony L. Andrady, 2003-02-20 Plastics offer a variety of environmental benefits. However, their production, applications, and disposal present many environmental concerns. *Plastics and the Environment* provides state-of-the-art technical and research information on the complex relationship between the plastic and polymer industry and the environment, focusing on the sustainability, environmental impact, and cost-benefit tradeoffs associated with different technologies. Bringing together the field's leading researchers, Anthony Andrady's innovative collection not only covers how plastics affect the environment but also how environmental factors affect plastics. The relative benefits of recycling, resource recovery, and energy recovery are also discussed in detail. The first of the book's four sections represents a basic introduction to the key subject matter of plastics and the environment; the second explores several pertinent applications of plastics with environmental implications, including packaging, paints and coatings, textiles, and agricultural film use. The third section discusses the behavior of plastics in some of the environments in which they are typically used, such as outdoors, in biotic environments, or in fires. The final section consists of chapters on recycling and thermal treatment of plastics waste. Chapters include: Commodity Polymers; Plastics in Transportation; Biodegradation of Common Polymers; Thermal Treatment of Polymer Waste; Incineration of Plastics. The contributors also focus on the effectiveness of recent technologies in mitigating environmental impacts, particularly those for managing plastics in the solid waste stream. Plastic and design engineers, polymer chemists, material scientists, and ecologists will find *Plastics and the Environment* to be a vital resource to this critical industry.

Assessing the Effects of Emerging Plastics on the Environment and Public Health Joo, Sung Hee, 2022-06-03 Plastic pollution has been a growing concern globally, especially under the COVID-19 pandemic due to the use of personal protective equipment. While many engineers and environmental scientists have been addressing global plastic pollution, special attention must also be paid to smaller plastics, such as micro and nano plastics. These smaller plastics pollute and affect the health of the public environment and marine life. Risk assessment of plastics is required to evaluate currently available treatment technologies and identify the significance of plastic pollution. *Assessing the Effects of Emerging Plastics on the Environment and Public Health* assesses the harmful effects of plastics on the environment and public health. It evaluates the potential risks of micro and nano plastics and reviews applications of modeling tools and prevention approaches using technologies to minimize plastic pollution through the development of biodegradable plastics or recycling and reusing plastics in environmentally friendly ways. Covering topics such as agroecosystems, preventive measures, and bioplastics, this book is an indispensable resource for environmentalists, environmental engineers, government officials, libraries, business leaders, students, and educators of higher education, academicians, and researchers.

Plastics in the Environment Alessio Gomiero, 2019-05-15 *Plastics in the Environment* is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the

field of plastic pollution and how it is affecting the environment The book comprises single chapters authored by various researchers and edited by an expert active in the research area All chapters are complete in themselves but united under a common research study topic This publication aims at providing a thorough overview of the latest research efforts by international authors on the trending topic of plastics in the environment and opens new possible research paths for further novel developments

Plastic Waste and Recycling Trevor Letcher,2020-03-10 Plastic Waste and Recycling Environmental Impact Societal Issues Prevention and Solutions begins with an introduction to the different types of plastic materials their uses and the concepts of reduce reuse and recycle before examining plastic types chemistry and degradation patterns that are organized by non degradable plastic degradable and biodegradable plastics biopolymers and bioplastics Other sections cover current challenges relating to plastic waste explain the sources of waste and their routes into the environment and provide systematic coverage of plastic waste treatment methods including mechanical processing monomerization blast furnace feedstocks gasification thermal recycling and conversion to fuel This is an essential guide for anyone involved in plastic waste or recycling including researchers and advanced students across plastics engineering polymer science polymer chemistry environmental science and sustainable materials Presents actionable solutions for reducing plastic waste with a focus on the concepts of collection re use recycling and replacement Considers major societal and environmental issues providing the reader with a broader understanding and supporting effective implementation Includes detailed case studies from across the globe offering unique insights into different solutions and approaches

Plastics, Environment, Culture and the Politics of Waste Tatiana Konrad,2022-12-05 Plastics Environment Culture and the Politics of Waste examines plastic as a distinct cultural political and environmental phenomenon It outlines the intricate relationship with plastic that humanity has been building over the course of the twentieth and twenty first centuries drawing on examples from history the arts and literature as well as examining the place of plastics in the current health environmental and energy crises The aim of this book is to reveal the complex nature of plastics from their rapid incorporation into our advancing ways of life to the reenvisioning of plastics role in human life and how through abundant production consumption and disposal of plastics humanity has initiated a toxic invasion of natural environments and human and nonhuman bodies Bringing together various perspectives from the humanities this edited collection contributes to the ongoing research on plastics and petrocultures and emphasizes the crucial significance of addressing the plastic crisis through culture

Plastics and the Environment R. M. Harrison,Ronald E. Hester,2019 Plastic has become a ubiquitous part of modern life A cheap lightweight material it is used in everything from food packaging to consumer electronics and microbeads in cosmetic products However we are becoming increasingly aware of the problems our reliance on plastic is causing in the environment For example recent campaigns have highlighted the build up of microbeads in the marine environment and the damage this is doing to wildlife and the problem of marine litter often in very remote locations There are also concerns over exposure to plasticisers and their possible

consequences for health The plastics industry is under increasing pressure not only from the government and environmental groups but also from consumers to improve the environmental impact of their products This book presents an introduction to the uses of plastics and an overview of how they interact with the environment It is a valuable resource for students studying environmental science as well as researchers working in the plastics industry and policy makers and regulators concerned with waste disposal and environmental planning and conservation

Plastic and Microplastic in the Environment Arif Ahamad, Pardeep Singh, Dhanesh Tiwary, 2022-03-22

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

Plastics in the Aquatic Environment - Part II Friederike Stock, Georg Reifferscheid, Nicole Brennholt, Evgeniia Kostianaia, 2021-10-26 This book reviews comprehensively the opportunities and responsibilities of science society and politics to combat plastic pollution in marine and freshwaters It provides insights on what information is needed and from whom and it outlines policies proposed by various institutions including OSPAR HELCOM and the European Union Plastic waste has become a global threat to the aquatic environment that does not stop at country borders Meanwhile there are many efforts in science industry commerce and governments to tackle the problem worldwide School education NGO public actions voluntary trade reduction measures governmental management options and governmental regulatory actions are part of the portfolio of efforts to deal with the problem Together with the companion volume *Plastics in the Aquatic Environment Part I Current Status and Challenges* it provides

scientists policymakers and environmental managers with essential reference information on how this problem is being solved what challenges and barriers are expected and how they can be overcome

Plastics and Environmental Sustainability Anthony L. Andrady, 2015-03-23 Survey s the issues typically raised in discussions of sustainability and plastics Discusses current issues not covered in detail previously such as ocean litter migration of additives into food products and the recovery of plastics Covers post consumer fate of plastics on land and in the oceans highlighting the environmental impacts of disposal methods Details toxicity of plastics particularly as it applies to human health Presents a clear analysis of the key plastic related issues including numerous citations of the research base that supports and contradicts the popularly held notions

Particulate Plastics in Terrestrial and Aquatic Environments Nanthi S. Bolan, M.B. Kirkham, Claudia Halsband, Dayanthi Nugegoda, Yong Sik Ok, 2020-07-30 The manufacture of plastic as well as its indiscriminate disposal and destruction by incineration pollutes atmospheric terrestrial and aquatic ecosystems Synthetic plastics do not break down they accumulate in the environment as macro micro and nanoplastics These particulate plastics are a major source of pollutants in soil and marine ecosystems Particulate Plastics in Terrestrial and Aquatic Environments provides a fundamental understanding of the sources of these plastics and the threats they pose to the environment The book demonstrates the ecotoxicity of particulate plastics using case studies and offers management practices to mitigate particulate plastic contamination in the environment Features Describes physical and chemical properties of particulate plastics in terrestrial and aquatic ecosystems Presents information on characteristics of particulate plastics as impacted by weathering processes Provides numerous approaches for managing particulate plastic contamination Identifies sources of particulate plastics in the environment distribution and characteristics of particulate plastics and management strategies of particulate plastics Written by a global team of scientists this book is for researchers in the fields of environmental safety and waste management or individuals interested in the impact of particulate plastics on environmental health

Plastic Pollution Geoffrey David Knight, 2012 A world of plastic pollution Plastic pollution in the ocean Plastic pollution on land Other dangers Enforcement and banning Recycling Finding solutions Education and awareness

[Plastics in the Aquatic Environment - Part I](#) Friederike Stock, Georg Reifferscheid, Nicole Brennholt, Evgeniia Kostianaia, 2021-10-29 This book offers a comprehensive review of how plastic pollution is affecting fresh and marine waters and what the current challenges in plastic waste assessment and management in the aquatic environment are Plastic waste comprises particles with heterogeneous physicochemical properties such as large size range different shapes and polymer types with various additives determining their environmental fate and risk This complexity raises several open research questions which are explored in this book Examples are the plastic uptake by aquatic organisms degradation processes as well as sources and sinks in the environment Readers will discover real case studies of plastic pollution detection and management in different parts of the world including Asia America and Europe which provide an integrated overview of the global scope of this issue This book

and the companion volume *Plastics in the Aquatic Environment Part II Stakeholders Role Against Pollution* are valuable resources to students researchers policymakers and environmental managers interested in plastic pollution and working towards its reduction

Microplastic in the Environment: Pattern and Process Michael S. Bank, 2021-10-09 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

Plastics and the Environment Anthony L. Andrady, 2003 An original comprehensive survey on the complex relationship between plastics and the environment Plastics offer a variety of environmental benefits However their production applications and disposal present many environmental concerns *Plastics and the Environment* provides state of the art technical and research information on the complex relationship between the plastic and polymer industry and the environment focusing on the sustainability environmental impact and cost benefit tradeoffs associated with different technologies Bringing together the field's leading researchers Anthony Andrady's innovative collection not only covers how plastics affect the environment but also how environmental factors affect plastics The relative benefits of recycling resource recovery and energy recovery are also discussed in detail The first of the book's four sections represents a basic introduction to the key subject matter of plastics and the environment the second explores several pertinent applications of plastics with environmental implications packaging paints and coatings textiles and agricultural film use The third section discusses the behavior of plastics in some of the environments in which they are typically used such as the outdoors in biotic environments or in fires The final section consists of chapters on recycling and thermal treatment of plastics waste Chapters include Commodity Polymers Plastics in

Transportation Biodegradation of Common Polymers Thermal Treatment of Polymer Waste Incineration of Plastics The contributors also focus on the effectiveness of recent technologies in mitigating environmental impacts particularly those for managing plastics in the solid waste stream Plastic and design engineers polymer chemists material scientists and ecologists will find *Plastics and the Environment* to be a vital resource to this critical industry

Influence of Microplastics on Environmental and Human Health Yvonne Lang,2022-03-13 Microplastics have received increased attention in the research world over the last ten years A number of significant publications by the World Health Organisation European Union SAPEA and GESAMP have highlighted this growing environmental and health emergency This book provides an accessible introduction to the microplastic problem and details its potential impact both on nature and human health Filled with the latest developments in the field it attempts to address the gaps in our knowledge of microplastics and also proposes additional areas of research and impact to be considered to resolve this crisis It will be of interest to researchers and academics working in the areas of microplastic pollution microplastic detection and the impact of microplastics on environmental and human health It will also be of use to undergraduate students of environmental programmes analytical programmes and public health programmes Key Features Chapters describe the impact of our reliance on plastics in certain sectors and how they relate to microplastic pollution Investigates emerging solutions to the microplastic pollution Presents a multi disciplinary perspective covering topics such as analytical techniques quantitative techniques environmental monitoring and human health monitoring

Plastics in the Environment Alessio Gomiero,2019 *Plastics in the Environment* is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the field of plastic pollution and how it is affecting the environment The book comprises single chapters authored by various researchers and edited by an expert active in the research area All chapters are complete in themselves but united under a common research study topic This publication aims at providing a thorough overview of the latest research efforts by international authors on the trending topic of plastics in the environment and opens new possible research paths for further novel developments

Plastics and the Ocean Anthony L. Andrady,2022-05-18 An insightful and multidisciplinary exploration of plastic pollutants in the ocean environment In *Plastics and the Ocean* renowned researcher Anthony L Andrady delivers a comprehensive and up to date treatment of the sources characterization and environmental impacts of plastics in the ocean The book focuses on macroplastics as well as micro scale and nanoscale plastics and the human impacts of these that reach consumers via seafood It also addresses the human behavioral aspects of the problem via discussions of the mismanagement of urban litter A diverse collection of expert perspectives is arranged logically and guides the reader through this fast evolving multi disciplinary subject area Beginning with an overview of the field the book goes on to explore the importance of this area of research to related disciplines and to the everyday lives of consumers This text offers engineers and scientists an up to date review of the subject and the state of the art as summarized by key researchers in the

field The book includes A synthesis of leading voices in oceanography biogeochemistry industrial chemistry ecotoxicology polymer science and behavioral science Discussions of the impacts of a range of marine plastics including large debris microplastics and nanoplastics A summary of the abundance and impacts of plastics in various niches in the marine environment Descriptions of the current methodologies for sampling detection processing and identification of plastic waste

Plastics and the Ocean is an indispensable resource for professionals researchers instructors and graduate students in polymer science marine biology and environmental engineering It s also a must read text for chemical engineers materials scientists and environmental engineers seeking a one stop resource that describes the origins occurrence composition environmental fate and biological impacts of plastic pollutants in an ocean environment

Possible elements of a new global agreement to prevent plastic pollution Raubenheimer, Karen,Urho, Niko,2020-10-16 Available online <https://pub.norden.org/temanord2020/535> A new report titled Possible elements of a new global agreement to prevent plastic pollution aims to develop global sustainability criteria for product design providing the tools for governments to regulate national markets Potential objectives and strategic goals are defined a first structure for a potential new global agreement is outlined and national implementation measures are identified to achieve the global goal of zero discharge of plastics into the environment By addressing the issue at the design phase all sources and pathways of marine plastic pollution can be addressed Importantly the existing weakness in the current framework on upstream and midstream activities of the plastics value chain can be addressed by providing robust national financial mechanisms that improve downstream activities in all countries

Handbook of Research on Environmental and Human Health Impacts of Plastic Pollution Khursheed Ahmad Wani,Lutfah Ariana,S. M. Zuber,2019-07-26 This book examines the negative impacts of plastic and explores different biotechnological interventions to plastic pollution It also generates an awareness of the use of plastics and its impact on the environment human health and other ecosystems

Sustainable Plastics Joseph P. Greene,2014-09-22 Providing guidelines for implementing sustainable practices for traditional petroleum based plastics biobased plastics and recycled plastics Sustainable Plastics and the Environment explains what sustainable plastics are why sustainable plastics are needed which sustainable plastics to use and how manufacturing companies can integrate them into their manufacturing operations A vital resource for practitioners scientists researchers and students the text includes impacts of plastics including Life Cycle Assessments LCA and sustainability strategies related to biobased plastics and petroleum based plastics as well as end of life options for petroleum and biobased plastics

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