

Let's Investigate Plastic Pollution On Land And In

Let's Investigate Plastic Pollution Let's Investigate Plastic Pollution Investigating Plastic Pollution Micro-Nano Plastics Exposure, Environmental Degradation and Public Health Crisis Emerging Challenges and Solutions for Plastic Pollution Wicked Problems for Archaeologists Industrial Engineering and Applications Plastic Pollution of Rivers Mare Plasticum - The Plastic Sea Advances in Sustainable Construction Materials Plastics in the Oceans The Routledge Handbook of Archaeology and Plastics Investigations of Plastic Composite Materials for Highway Safety Structures Influence of Microplastics on Environmental and Human Health Microplastics Under the Microscope Environment Materials and Environment Management, EMEM2010 An Investigation of the Biodegradability of Packaging Plastics Where Is the Value in the Chain? Plastic Waste Trade Plastic, Ahoy! Ruth Owen Ruth Owen Laura Perdew Srijan Goswami Daniel Rittschof John Schofield Loon-Ching Tang Tim Kießling Marilena Streit-Bianchi Sabyasachi Biswas Jean-Luc Wertz Genevieve Godin Piyush K. Dutta Yvonne Lang Barrett Williams Zhen Yu Du James E. Potts World Bank Sedat Gündoğdu Patricia Newman

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plastic pollution is one of the most damaging environmental issues we face today and no one is more passionate about solving this problem and protecting our world than kids this new title in the get started with stem series gives young science enthusiasts all the information they need to investigate and do their part to help solve this problem now and for the future packed with facts discussion topics imaginative ideas for activities experiments and investigations this book will have students eager to use their science skills and knowledge to tackle plastic pollution head on

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introduces readers to what plastic pollution is the consequences of this type of pollution and what people are doing to help additional features include a table of contents a fast facts page a stem project a phonetic glossary ways for readers to help an index an introduction to the author and sources for further research

this book extensively covers issues and concerns related to plastics and micro nano plastics mnps in the environment offering a comprehensive exploration beyond simple collection and disposal processes it uniquely integrates core public health and community medicine aspects with environmental and biodiversity related consequences supported by case studies of microplastics and associated components the book emphasizes the impact of microplastics on environmental animal and human health with a special focus on ecosystems and biodiversity marine and aquatic ecosystems agricultural and food safety air water and soil degradation ecological dysbiosis and associated health hazards readers will encounter a balanced distribution of insights from experienced authors including professionals from academia and industry across various countries the chapters cover a wide range of topics including the mechanisms of environmental degradation of plastics methods for identifying and quantifying micro and nano plastics and their air water and soil contamination readers will also discover the effects of these pollutants on various ecosystems such as lentic and lotic systems floodplain aquifers and even remote regions like antarctica the book further explores the impact on wildlife biodiversity and human health addressing critical issues like cardiovascular complications gut and immune function and carcinogenicity this book is an essential resource for students at all academic levels in science technology engineering and medical fields as well as a valuable reference for government agencies research institutes industry professionals ngos and researchers focused on innovation and sustainability it presents innovative solutions including bioplastics and nature based approaches and discusses the potential for technological innovation in plastics waste management it extensively addresses the united nations sustainable development goals sdgs 3 6 12 13 14 and 15 highlighting the challenges micro nano plastics pose for a sustainable future this volume is particularly relevant for those working towards achieving the environmental protection and public health sdgs

wicked problems are those problems facing the planet and its inhabitants present and future which are hard if not impossible to resolve and for which bold creative and messy solutions are typically required the adjective wicked describes the mischievous and even evil quality of these problems where proposed solutions often turn out to be worse than the symptoms this wide ranging and innovative book encourages readers to think about archaeology in an entirely new way as fresh relevant and future oriented it examines some of the novel ways that archaeology alongside cultural heritage practice can contribute to resolving some of the world s most wicked problems or global challenges as they are sometimes known with chapters covering climate change environmental pollution health and wellbeing social injustice and conflict the book uses many and diverse examples to explain how through studying the past and present through an archaeological lens in ways that are creative ambitious and both inter and transdisciplinary significant small wins can be achieved through these small wins archaeologists can help to mitigate some of those most pressing of wicked problems contributing therefore to a safer healthier and more stable world

the field of industrial engineering ie has a very wide scope from production processes and automation to supply chain management but the scope of ie techniques has expanded beyond the traditional domains of application and is now relevant to areas that matter most to society at large this book presents the proceedings of iciea 2023 the 10th international conference on industrial engineering and applications held in phuket thailand from 4 to 6 april 2023 the conference was conducted in hybrid mode with close to 100 delegates attending in person and about 50 participants attending online a total of 272 submissions were received for the conference of which 120 were accepted for presentation with 83 of those published here as full papers these papers cover a wide range of topics within the scope of industrial and systems engineering including but not limited to supply chain and logistics quality and reliability advanced manufacturing and production scheduling to ergonomics and man

machine systems interfaces in particular a significant number of papers are devoted to machine learning techniques and applications beyond the traditional manufacturing sector to include healthcare sustainability assessment and other social issues offering an overview of recent research and novel applications the book will be of interest to all those whose work involves the application of industrial engineering techniques

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

this book presents select proceedings of national conference on advances in sustainable construction materials ascm 2020 and examines a range of durable energy efficient and next generation construction materials produced from industrial wastes and by products the topics covered include sustainable materials and construction innovations in recycling concrete green buildings and innovative structures utilization of waste materials in construction geopolymer concrete self compacting concrete by using industrial waste materials nanotechnology and sustainability of concrete environmental sustainability and development recycling solid wastes as road construction materials emerging sustainable practices in highway pavements construction plastic roads pavement analysis and design application of geosynthetics for ground improvement sustainability in offshore geotechnics green tunnel construction technology and application ground improvement techniques and municipal solid waste landfill given the scope of contents the book will be useful for researchers and professionals working in the field of civil engineering and especially sustainable structures and green buildings

increasing plastic pollution particularly in oceans calls for a fundamental shift towards future proof plastics throughout the circular economy in a landmark move in 2022 the united nations adopted a historic resolution to craft an international legally binding instrument to tackle plastic pollution in line with this global initiative plastics in the oceans investigates the problem of plastic pollution in oceans proposes solutions relating to current and advanced materials and technologies and offers an optimal sustainable strategy to eliminate plastic pollution by 2040 the title addresses the entire lifecycle of plastic from production and design to disposal and advocates for a comprehensive approach to mitigate plastic pollution focuses on primary and secondary microplastics recognizing their significant impact on marine ecosystems explores various alternative materials including biobased biodegradable polymers as viable alternatives to conventional plastics provides insights into regulatory frameworks pertaining to plastic pollution across major world regions elucidates the need for reducing plastic production and enhancing recycling efforts in combating plastic pollution suggests strategies aligned with the principles of the 3rs reduce redesign recycle to foster the development of sustainable and future proof plastics this book is aimed at technical readers in environmental engineering chemical engineering and polymer chemistry as well as general readers interested in scientific solutions to the plastics pollution problem

the routledge handbook of archaeology and plastics investigates the archaeology of the contemporary world through the lens of its most distinguishing and problematic material plastics are ubiquitous and have been so for nearly three generations since they became widely used in the early 1950s plastics will persist for millennia their legacies as toxic heritage being felt deep into the future in this book comprising 32 original at times disturbing and critically engaged contributions scholars from archaeology and other cognate disciplines explore plastics from a number of different angles and perspectives together these contributions highlight the dilemma that plastics present their usefulness on the one hand and the threats they present to environmental health on the other the volume also explores the lessons that archaeologists can learn from plastics about episodes of mass production consumption and toxicity in the past and also importantly about the future this important and timely collection will therefore be of interest to all archaeologists irrespective of their period of study or their geographical focus and to students of archaeology and cultural heritage it will also be relevant for researchers and students in other fields of study that focus on plastics and their environmental and social impacts ultimately this book concerns the contemporary world and the impact of people upon it through the archaeological lens

this report presents a basic overview and assessment of different concepts and technologies of using polymer composites in structures generally used for highway safety the structural systems included a highway barrier guardrail with its posts and blockouts sign posts concrete reinforcing rebars breakaway couplers and crushable plastic cushions to protect errant drivers from roadside sign and utility posts and small trees the composites included fiber reinforced plastics frp in laminated and bar forms and commercially available recycled and reconstituted structural plastic composites commercially available frp composites recycled plastic composites and several conceptual designs and prototype components were assessed and tested the results showed many potential advantages of using composites in almost all the structures considered but one to one replacement of conventional materials was not always found attractive for deriving maximum benefits from fiber composites the basic performance of the given structures should be reassessed and then composites should be designed at the materials level using innovative fiber architecture and appropriate manufacturing technologies that can meet those performance requirements

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

discover the hidden world of microplastics a pervasive and pressing environmental issue with microplastics under the microscope this captivating ebook delves deep into the origins impact and future of microplastics unraveling their journey from everyday products to global pollution challenges start by an introduction to the concept and lifecycle of plastics and understand how they degrade from their macro forms into microscopic particles infiltrating our environment explore the unexpected presence of these pollutants in oceans soils and even the air we breathe uncover the startling reality of how microplastics invade every aspect of daily life from household sources like cleaning products to clothing and personal care items gain insight into their devastating effects on marine ecosystems where ingestion by marine animals leads to

alarming biodiversity challenges and ecological disruption investigate the potential threats microplastics pose to human health as they contaminate water supplies and infiltrate the food chain learn about the risks associated with microbial consumption and the imperative need for vigilant awareness unearth the role of the textile industry in proliferating microplastic pollution and examine how innovations in fabric production and sustainable fashion trends are paving the way for change understand how informed consumer choices and the rise of fast fashion have a substantial impact on this global crisis discover the international response to this issue with case studies of successful legislation and future policy directions to combat microplastic pollution investigate the powerful role of education and awareness in driving change from public information campaigns to grassroots movements finally delve into the groundbreaking innovations and collaborative efforts that promise to offer real solutions and embrace the call to action with personal and community initiatives that can inspire global change microplastics under the microscope is not just an investigation it s a roadmap to a cleaner plastic free future

selected peer reviewed papers from the 2010 international conference of environment materials and environment management emem 2010 will be held on july 24 25 2010 in harbin china

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

this contributed volume takes a holistic view of the international waste trade and in doing so argues that the transfer of plastic waste from mainly global north to primarily global south countries constitutes a form of 21st century colonialism the book first describes the history of the plastic waste trade from toxic disasters in the 1970s and 1980s through the basel convention on the control of transboundary movements of hazardous wastes and their disposal in 1989 through china s 2018 implementation of a national sword policy that effectively banned importation of plastic waste from there the authors explore both the legal trade in plastic waste and the underground illegal trade in waste arguing that both lead to devastating impacts on ecosystems workers and communities in receiving countries and highlighting how countries that receive waste are often less equipped to process it than the countries that export waste the last section of the book presents cases from countries on the receiving end of the plastic waste trade highlighting inherent problems from sociological and environmental justice perspectives

plastic it s used to make everything from drink bottles and bags to toys and toothbrushes but what happens when it ends up where it doesn t belong like in the pacific ocean how does it affect ocean life is it dangerous and exactly how much is out there a team of researchers went on a scientific expedition to find out they explored the great pacific garbage patch where millions of pieces of plastic have collected the plastic has drifted there from rivers beaches and ocean traffic all over the world most of it has broken down into tiny pieces the size of confetti for nearly three weeks at sea researchers gathered bits of plastic and ocean organisms these samples helped them learn more about the effects of plastic in the ocean follow along on the expedition to find out how scientists studied the garbage patch and what alarming discoveries they made

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