

Microplastics In Bivalves Cultured For Human Consumption

Nirmala Kumari Jangid, Rekha Sharma

Analysis of Nanoplastics and Microplastics in Food Leo M.L. Nollet, Khwaja Salahuddin Siddiqi, 2020-12-02 The world's ever increasing use of plastics has created large areas of floating plastic waste in the oceans—so-called plastic soup. This floating plastic debris is gradually fragmenting into smaller particles which eventually become microplastics, and even nanoplastics. Analysis of Nanoplastics and Microplastics in Food compiles data on nanoplastics and microplastics in food. To date, there is some data on this, particularly for the marine environment. Fish show high concentrations, but because microplastics are mostly present in the stomach and intestines, they are usually removed and consumers are not exposed. But in crustaceans and bivalve molluscs like oysters and mussels, the digestive tract is consumed, so there is some exposure. Microplastics have also been reported in honey, beer, and table salt. Key Features: Discusses sampling and analysis of nano- and microplastics Details the impacts of plastic residues in diverse compartments of the environment Includes a discussion of microplastics in freshwater Discusses interactions of microplastics and POPs This book brings to light the reality—and dangers—of microplastics in food. Pollutants like polychlorinated biphenyls (PCBs) and polycyclic aromatic hydrocarbons (PAHs) can accumulate in microplastics. Some studies suggest that, after consuming microplastics in food, these substances may transfer into tissues. So, it is important to estimate the average intake. Since engineered nanoparticles (from different types of nanomaterials) can enter human cells, this reality can pose consequences for human health. Also available in the Food Analysis and Properties Series: Mass Spectrometry Imaging in Food Analysis, edited by Leo M. L. Nollet (ISBN: 978-1-138-37069-2) Proteomics for Food Authentication, edited by Leo M. L. Nollet and Semih Ötleş (ISBN: 978-0-367-20505-8) Food Aroma Evolution: During Food Processing, Cooking, and Aging, edited by Matteo Bordiga and Leo M. L. Nollet (ISBN: 978-1-138-33824-1) For a complete list of books in this series, please visit our website at: www.crcpress.com/Food-Analysis--Properties/book-series/CRCFOODANPRO

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.

Microplastics in Terrestrial Environments Defu He,Yongming Luo,2020-08-21 This book focuses on microplastics as emerging persistent contaminants in terrestrial environments. Scientists from around the globe review recent advances in multi-disciplinary research on micro(nano)plastics, including analytical methods; the sources, fate and distribution of microplastics; ecological risks; toxicity and health risks; and control and countermeasures for microplastics in terrestrial environments. Offering a comprehensive overview of microplastics in terrestrial environments, the book is a valuable resource for environmental researchers, ecologists and toxicologists, as well as for policymakers and non-experts.

Global Plastic Pollution and its Regulation Gerry Nagtzaam,Geert Van Calster,Steve Kourabas,Elena Karataeva,2023-08-14 Addressing one of the most pressing environmental issues, this topical book carefully inspects the current extent of the plastic pollution crisis and observes contemporary approaches to its regulation. By adopting a strong interdisciplinary approach, this book fully encapsulates the key challenges and solutions surrounding this globally applicable problem.

Microplastics in the Environment: Occurrence, Fate and Distribution ,2025-11-26 Microplastics in the Environment: Occurrence, Fate, and Distribution is a comprehensive volume that explores the growing environmental challenge posed by microplastics. Covering their presence in various ecosystems - including water, soil, and air- this book provides a detailed analysis of their sources, transport mechanisms, and potential risks. It brings together the latest research on detection

methods, impacts on food systems, and removal strategies, making it an essential resource for scientists, policymakers, and environmental professionals. - Provides an in-depth examination of microplastics across different environmental compartments, from the water column to the cryosphere - Discusses state-of-the-art analytical techniques for microplastics detection and characterization - Highlights emerging research on microplastics' impact on ecosystems, human health, and potential mitigation strategies

Microplastic sources, fate and solution Anish Khan, Chongqing Wang, Abdullah M. Asiri, 2023-04-28 This book provides an overview of the sources, occurrence, fate and solution of microplastics. Microplastics in sediment and soil environment have been only scarcely surveyed, and no profound discussion on microplastics removal is summarized until this book. Here we focus on sharing clear schematic information and the book sufficiently supports important microplastic topics: such as microbial network, microplastic toxicology and accumulation, agricultural plastics, nylon microplastics, polystyrene microplastics, polyethylene microplastics and many more. The book mainly provides an overview of recent advances in knowledge of sources, occurrence, distribution, chemical behavior and ecological threats while it also presents information related to feasible solutions for microplastic pollution management. This comprehensive resource will be valuable up-to-date knowledge for environmental scientists, ecotoxicologists, ecologists, marine biologists, environmental chemists in the academic field and this book is intended to be beneficial information for environmental managers, water suppliers, wastewater treatment, plastics manufacturer, and policy makers as well.

Marine Plastic Debris & Microplastics Peter John Kershaw, 2016 This report presents both short- and long-term approaches to the problem of marine plastic debris and micro plastics. It provides an overview of the latest science and experiences, identifies priority areas of action, and points out areas requiring more research. Improved waste management is urgently needed to reduce the flow of plastic into our oceans.

Plastic in Cosmetics H. A. Leslie, 2015 This paper focuses on the emerging issue of plastic particles in personal care and cosmetic product (PCCP) formulations as a possible source of micro-sized plastic litter. Known as 'microbeads', when used in PCCPs, these microplastic ingredients are solid materials that fall under the definition of marine litter when emitted to the marine environment. The concern is that plastic ingredients in products that are being used by consumers in households worldwide are contributing to the total abundance of plastic particles smaller than 5 mm in the ocean today.--Publisher's description.

Microplastics in Human Consumption E. V. Ramasamy, Ajay Kumar Harit, 2023-02-23 This book highlights plastic pollution, especially microplastics, and the consequences on the environment and on the human diet through food chain/web transmission and contamination through processing and packaging of various human food items including water and beverages. This book provides a detailed outlook on the microplastics, their origin, distribution, categories, presence in

human food items and their impact on the ecosystem, organisms and so forth. It covers updated information on microplastic contamination in the biotic and abiotic products of the sea/ocean, the contamination of microplastics in drinking water/bottled water, honey, sugar and so forth. Features: Discusses the presence of microplastics in matrices prone to human consumption Includes general information on microplastics, their origin, types, shapes, size and nomenclature Reviews microplastics in different types of human consumable items Illustrates fundamental methods and techniques used in microplastics research Explores overall impacts of microplastics in the organisms contaminated with the same This book is aimed at researchers, graduate students and faculty members interested in plastic pollution, microplastics, environmental science, food consumption and analysis.

Analysis of Nanoplastics and Microplastics in Food Leo M.L. Nollet, Khwaja Salahuddin Siddiqi, 2020-12-02 The world's ever increasing use of plastics has created large areas of floating plastic waste in the oceans—so-called plastic soup. This floating plastic debris is gradually fragmenting into smaller particles which eventually become microplastics, and even nanoplastics. Analysis of Nanoplastics and Microplastics in Food compiles data on nanoplastics and microplastics in food. To date, there is some data on this, particularly for the marine environment. Fish show high concentrations, but because microplastics are mostly present in the stomach and intestines, they are usually removed and consumers are not exposed. But in crustaceans and bivalve molluscs like oysters and mussels, the digestive tract is consumed, so there is some exposure. Microplastics have also been reported in honey, beer, and table salt. Key Features: Discusses sampling and analysis of nano- and microplastics Details the impacts of plastic residues in diverse compartments of the environment Includes a discussion of microplastics in freshwater Discusses interactions of microplastics and POPs This book brings to light the reality—and dangers—of microplastics in food. Pollutants like polychlorinated biphenyls (PCBs) and polycyclic aromatic hydrocarbons (PAHs) can accumulate in microplastics. Some studies suggest that, after consuming microplastics in food, these substances may transfer into tissues. So, it is important to estimate the average intake. Since engineered nanoparticles (from different types of nanomaterials) can enter human cells, this reality can pose consequences for human health. Also available in the Food Analysis and Properties Series: Mass Spectrometry Imaging in Food Analysis, edited by Leo M. L. Nollet (ISBN: 978-1-138-37069-2) Proteomics for Food Authentication, edited by Leo M. L. Nollet and Semih Ötleş (ISBN: 978-0-367-20505-8) Food Aroma Evolution: During Food Processing, Cooking, and Aging, edited by Matteo Bordiga and Leo M. L. Nollet (ISBN: 978-1-138-33824-1) For a complete list of books in this series, please visit our website at: www.crcpress.com/Food-Analysis--Properties/book-series/CRCFOODANPRO

Microplastics in marine bivalves from the Nordic environment Bråte, Inger Lise N., Hurley, Rachel, Lusher, Amy, Buenaventura, Nina, Hultman, Maria, Halsband, Claudia, Green, Norman, 2020 Available online: <https://pub.norden.org/temanord2020-504/> Abstract [en] Microplastics in marine bivalves from the Nordic environment: MP

were analysed in mussels at 100 sites from Grenland to the Baltic. MP were found in 4 out of 5 species. The coastal waters of the North Sea, Kattegat, Skagerrak, and the western Baltic appear to be areas of MP accumulation. Mussels from urbanized areas and harbours contained the most MP. The abundance of MP was especially high in the Oslofjord. A total of 11 different polymer types were detected through 3 chemical characterisation methodes. Black rubbery particles, possibly derived from tyre wear, were the dominant particle type. The presence of rubber compounds was confirmed for Blue mussels (*Mytilus*) in analysis using pyrolysis GC-MS. This is the first study to document these polymer types in mussels. Mussels, especially *Mytilus* spp., *Limecola balthica* and *Abra nitida* are suitable for monitoring of MP in Nordic waters.

Nano/micro-Plastics Toxicity on Food Quality and Food Safety ,2023-02-28 Nano/micro-Plastics Toxicity on Food Quality and Food Safety, Volume 103 in the Advances in Food and Nutrition Research series, provides in-depth reviews on recent developments in nano/micro-plastics toxicity on food quality and food safety research. Topics covered in this volume include the sources and occurrence of nano/microplastics in terrestrial/marine environments, release mechanisms of microplastics from packaging into foods, influencing factors of microplastic on food products, their translocation and accumulations potential, microplastic as a critical vector for pollutant transfer, toxicology impact, cycling in the marine environment and seafood safety, and more. Moreover, microplastic migration by enhancing public awareness as well as improving waste management, complications and toxicity associated with the presence of nano/microplastics and quantification methods are highlighted. Finally, existing regulations and requirements of a robust framework of nano/microplastics are provided. - Presents precise reviews from selected specialists on the topic of nano/micro-plastics toxicity on food quality and food safety - Provides valuable visual material, making it easier for readers - Covers the latest insights and future research recommendations on nano/micro-plastics toxicity on food quality - Includes standardization methods for the collection, characterization and analysis of nano/micro-plastics toxicity for food safety and human health

Micro Plastics Nirmala Kumari Jangid,Rekha Sharma,2025-02-18 This book focuses on the detection, extraction, remediation techniques, and future perspectives of microplastics. It includes characteristics, fluctuations, distribution, and water remediation of microplastics using various functionalized nanomaterials. This book also covers the impact of microplastics discharged from domestic and various industrial fields such as pharmaceutical, clothing, polymer industries, etc., for the quantification of poisonous substances in water. Different techniques in water remediation and environment as well as in the determination of hazard, toxicity, and monitoring standards towards microplastics are also covered. Features: Discusses the presence of microplastics in matrices prone to human consumption. Includes general information on microplastics, their origin, types, shapes, size, and nomenclature. Reviews microplastics and numerous types of detection and extraction methods. Illustrates fundamental methods and techniques used for the remediation of microplastics. Explores the overall impacts of microplastics and their future perspectives. This book is aimed at researchers, graduate students, and

faculty members who can apply their knowledge in the emerging field of research on microplastic remediation. Despite our best efforts, mistakes and misconceptions may have occurred, for which we apologize. We welcome constructive criticism and suggestions to improve the presentation.

Microplastics in Environment Ganga Ram Chaudhary, Moondeep Chauhan, Bunt Sharma, 2024-11-15 In recent years, the pervasive presence of microplastics in the environment has emerged as a pressing global concern. As we grapple with the complexities of this issue, it becomes increasingly evident that a comprehensive understanding of microplastics' sources, risks, analytical challenges, and remediation strategies is essential for effective mitigation and safeguarding of our ecosystems and human health. *Microplastics in Environment* comprehensively explores the growing concern surrounding microplastic pollution. From their emergence as a significant environmental pollutant to their potential risks and various remediation strategies, this book delves into every aspect of microplastics' impact on ecosystems and human health. With chapters authored by experts in the field, readers gain insights into the sources, classification, properties, and dynamics of microplastics in different environmental compartments, including marine environments, soils, and indoor settings. Analytical challenges related to the identification, quantification, and characterization of microplastics are thoroughly discussed, along with emerging computational approaches to unravel the microplastic mystery. The book highlights recent trends in using bioindicators to monitor microplastic pollution and its adverse impacts on animal health. Additionally, the book explores trends, challenges, and opportunities in plastic recycling and future directions for addressing microplastics. *Microplastics in Environment* compiles current knowledge and identifies gaps, serving as a valuable resource for researchers, policymakers, and practitioners working towards a cleaner, healthier planet. It aims to support those dedicated to safeguarding our planet for future generations. **FEATURES** Focuses on microplastic pollution in the environment and highlights the emergent need to reduce and eliminate microplastic pollution. Includes special chapters on microplastic classifications, estimation tools, and the role of computational modeling in microplastic. Discusses microplastic occurrence in marine, soil, air, and prevention strategies in different environmental settings. Furthermore, it explores different remediation strategies, current trends, challenges, and opportunities in plastic recycling.

Microplastic Pollution Navish Kataria, Vinod Kumar Garg, Changseok Han, Eldon R. Rene, 2025-01-31 This reference book reviews various aspects of microplastics, from their sources and manifestation in terrestrial, aquatic, and air environments to their fate in wastewater treatment systems. It also covers sampling, analysis, and detection methods for microplastics, along with advanced instrumentation for quantification. Further, the book presents health risk analysis and the toxicity of microplastic contamination, including their ecotoxicological impact on the environment and health risks associated with their accumulation in the tropical food chain and food web. The chapters also present studies exploring the health risks associated with microplastic additives and their interactions with other pollutants. The final chapters focus on plastic and

microplastics management, exploring advanced technologies for bioplastics production, the biodegradation of plastics and bioplastics, and the role of nanotechnology in plastic management. This book serves as an important source for researchers, policymakers, and environmentalists concerned about the impact of microplastics on ecosystems and human health.

Proceedings of the 2nd International Conference on Microplastic Pollution in the Mediterranean Sea

Mariacristina Cocca, Emilia Di Pace, Maria Emanuela Errico, Gennaro Gentile, Alessio Montarsolo, Raffaella Mossotti, Maurizio Avella, 2020-04-23 This book addresses a broad range of issues concerning microplastic pollution, including microplastic pollution in various environments (freshwater, marine, air and soil); the sources, fate and effects of microplastics; detection systems for microplastic pollution monitoring; green approaches for the synthesis of environmentally friendly polymers; recovery and recycling of marine plastics; wastewater treatment plants as a microplastic entrance route; nanoplastics as emerging pollutants; degradation of plastics in the marine environment; impacts of microplastics on marine life; microplastics: from marine pollution to the human food chain; mitigation of microplastic impacts and innovative solutions; sampling, extraction, purification and identification approaches for microplastics; adsorption and transport of pollutants on and in microplastics; and lastly, the socio-economic and environmental impacts: assessment and risk analysis. In addition to presenting cutting-edge information and highlighting current trends and issues, the book proposes concrete solutions to help face this significant environmental threat. It is chiefly intended for researchers and industry decision-makers; international, national and local institutions; and NGOs, providing them with comprehensive information on the origin of the problem; its effects on marine environments, with a particular focus on the Mediterranean Sea and coasts; and recent and ongoing research activities and projects aimed at finding technical solutions to mitigate the phenomenon.

Microplastics in Marine Ecosystem Shobhika Parmar, Vijay Kumar Sharma, Vir Singh, 2023-05-11 This book addresses pertinent issues relating to microplastic pollution including its sources and sink of the microplastics and their environmental fate. It focuses on the impacts of microplastic pollution on marine life and human health. Available conventional methods and future solutions for the prevention and control of the marine microplastic pollution, such as bacterial and marine fungus biodegradation, membrane technology, and bioengineered microbes are included along with limitations and future challenges. Features: Provides detailed insight into the marine microplastics pollution, fate, health impacts, and removal technology Reviews ecological risks and environmental fate of microplastic pollution to the marine ecosystem Describes control and prevention methods of the microplastics pollution Covers global legislature for the mitigation of microplastic to the marine environment Discusses the role of community participation for the reduction of microplastic emissions This book is aimed at researchers and professionals in environmental engineering, science, and chemistry, marine pollution, marine and aquatic science.

Microplastics: Ecological and Food Security Implications Adnan Abubakr, Adnan Amin, Monisa M Malik, 2025-08-23

Microplastics are tiny plastic particles measuring less than 5 millimeters. Though microscopic in size, these pervasive pollutants have a massive impact on aquatic systems worldwide, with disastrous consequences for our environment, wildlife, and ultimately, human well-being. The study of MPs and their effects on aquatic ecology is of utmost importance in determining the far-reaching implications of these particles on the health of our planet and the safety of our food systems. By comprehending the ecological consequences, we can take informed actions to reduce plastic waste, improve waste management practices, and protect the health and integrity of our aquatic ecosystems for future generations. *Microplastics: Ecological and Food Security Implications* not only articulates the extent of the problem, but also develops practicable harm mitigation strategies. Expert researchers discuss the disruptions MPs cause in the food web, altering predator-prey dynamics and even the composition of aquatic environments, as accumulation of MPs in sediments impacts nutrient cycling. When MPs find their way into our food systems, they can cause physical effects such as internal blockages, damage to the digestive system, and impaired reproduction. Solutions-oriented, *Microplastics: Ecological and Food Security Implications* delves into tangible strategies to reduce plastic waste, improve waste management practices, and advocate for policy changes. By empowering readers with concrete measures, it encourages active participation in combating MP pollution.

Microplastics in the Ecosphere Meththika Vithanage, Majeti Narasimha Vara Prasad, 2023-08-07 *Microplastics in the Ecosphere* Discover the environmental impact of microplastics with this comprehensive resource *Microplastics* are the minute quantities of plastic that result from industrial processes, household release and the breakdown of larger plastic items. Widespread reliance on plastic goods and, particularly, single-use plastics, which has been increased by the COVID-19 pandemic, has made microplastics ubiquitous; they can be found throughout the ecosphere, including in the bloodstreams of humans and other animals. As these plastics emerge as a potential threat to the environment and to public health, it has never been more critical to understand their distribution and environmental impact. *Microplastics in the Ecosphere* aims to cultivate that understanding with a comprehensive overview of microplastics in terrestrial ecosystems. It analyzes microplastic distribution in aerosphere, hydrosphere, and soil, tracing these plastics from their production on land to their distribution—overwhelmingly—in maritime ecosystems. The result is a book that will inform researchers and policymakers as we look to tackle this emerging challenge globally. *Microplastics in the Ecosphere* readers will also find: Introductory information about the production and distribution of single-use plastics An emphasis on management and mitigation strategies designed to reduce contamination over time A multidisciplinary approach, combining concepts and analytical techniques from a range of scientific fields *Microplastics in the Ecosphere* is a valuable guide for researchers and scientists, advanced undergraduate and graduate students, industry professionals, and policymakers looking to understand the impact of these widespread materials.

Dietary and inhalation exposure to nano- and microplastic particles and potential implications for human health ,2022-07-15

Microplastics In Bivalves Cultured For Human Consumption: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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