



Smart Food

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Smart Food:

Smart Food Packaging Systems Avik Mukherjee,Santosh Kumar,Manjusri Misra,Amar K. Mohanty,2024-12-16 Understand the future of food packaging with this timely guide Food packaging is a vital part of the food industry It contributes to food safety and quality throughout the supply chain reduced product loss allows high quality goods to be shipped safely to underserved regions and more Smart food packaging systems which can sense or detect changes in the product or packaging are at the forefront of this field and show potentially revolutionary promise Smart Food Packaging Systems offer a comprehensive overview of the fundamental principles and practical applications of Active food packaging and Intelligent food packaging systems The book incorporates the latest research developments and technologies in active and intelligent packaging systems that supplement food supply lines worldwide It is a must own for researchers and industry professionals looking to understand this key new tool in the fight against world hunger Smart Food Packaging Systems readers will also find Case studies on life cycle assessments of specific smart packaging systems Detailed discussion of topics including additives antimicrobial and other functional agents and biopolymers in active food packaging Use of sensors and indicators to monitor quality temperature and freshness of the packaged food Smart Food Packaging Systems is ideal for professionals researchers and academics in food science food technology and food packaging as well as manufacturers developers government officials and regulators working on supply chain and food distribution aspects **Smart Food for Healthy, Sustainable and Resilient Food Systems** ,2023-06-06 We are no longer able to provide the world population with a healthy diet and at the same time sustainably balance our planetary resources to ensure resilient and viable livelihoods for smallholder farmers For the past fifty years diets have become less nutritionally balanced contribute significantly to climate change and have accelerated the process of biodiversity erosion We have reduced the number of species that are cultivated for food and for each species we are growing fewer varieties While agriculture has moved towards uniformity biodiversity is the basis of healthy and nutritious diets and biodiversity is paramount for adapting crops to climate change Hence it is important to build resilient and sustainable food systems by re introducing diversity into our agricultural systems and introducing Smart Food from smart crops into our diets Smart Food is food that fulfills the criteria for being good for you nutritious and healthy good for the planet environmentally sustainable and beneficial to the farmers who grow these crops resilient and viable The aim of this Research Topic is to provide researchers research managers funding agencies and government agencies with scientifically backed information to foster awareness increased use and support for research into Smart Food Smart Food Industry: The Blockchain for Sustainable Engineering Eduardo Jacob Lopes,Leila Queiroz Zepka,Mariany Costa Deprá,2024-02-13 Smart Food Industry The Blockchain for Sustainable Engineering Volume II Current Status Future Foods and Global Issues reviews the literature and scientific frameworks to present a kind of sustainability compass Disruptive approaches around potential sustainable foods are also widely investigated in order to be an alternative

route for the industrial future Thus this book proposes new concepts and strategies to face future sustainability challenges that are on the horizon and can impact the next generation of foods Divided into three parts this book discusses the i status of sustainable food industry ii next generation and future technology for sustainable foods and iii policy social economic and environmental aspects in food industries Given the book s breadth it provides readers with an invaluable reference resource for students researchers graduates and professionals in general who wish to gain knowledge about the engineering and food processing area so as to achieve sustainable food production

Smart Food Safety ,2024-08-06 Smart food safety series highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors

Polymers and Composite Materials for Packaging: Smart Food Packaging and Solutions Akarsh Verma,Hariome Sharan Gupta,Sushanta K. Sethi,2025-12-01 This book aims to provide readers with a better understanding of the polymers and polymer based composite materials employed in the packaging field It covers the mechanisms important aspects characteristics formulations significant elements and case studies of the polymers and composite materials used in a wide range of different areas of packaging applications To inspire researchers the most recent studies in the field as well as potential directions for further study are also emphasized

Active and Intelligent Food Packaging ,2000 Yhteenveto Resume Samantekt *Food Science and Technology Bulletin* Glenn R. Gibson,2009 This book is a journal that delivers concise and relevant peer reviewed minireviews of developments in selected areas of functional foods

Orphan Crops for Sustainable Food and Nutrition Security Stefano Padulosi,E.D. Israel Oliver King,Danny Hunter,M.S. Swaminathan,2021-09-22 Orphan Crops for Sustainable Food and Nutrition Security discusses the issues challenges needs and opportunities related to the promotion of orphan crops known also as neglected and underutilized species NUS The book is structured into six parts covering the following themes introduction to NUS approaches methods and tools for the use enhancement of NUS integrated conservation and use of minor millets nutritional and food security roles of minor millets stakeholders and global champions and building an enabling environment Presenting a number of case studies at the regional and country levels the chapters cover different but highly interlinked aspects along the value chains from acquisition and characterization of genetic diversity cultivation and harvesting to value addition marketing consumption and policy for mainstreaming Cross cutting issues like gender capacity building and empowerment of vulnerable groups are also addressed by authors Representatives from communities research for development agencies and the private sector also share their reflections on the needs for the use enhancement of NUS from their own perspectives This book will be of great interest to students and scholars of food security sustainable agriculture nutrition and health and development as well as practitioners and policymakers involved in building more resilient food and production systems

Nanotechnology in Intelligent Food Packaging Annu,Tanima Bhattacharya,Shakeel Ahmed,2022-07-06 NANOTECHNOLOGY IN INTELLIGENT FOOD PACKAGING This book is a state of the art exposition of nanotechnology and food packaging which is undergoing

rapid advancement This book is specially designed with an emphasis on the state of the art in nanotechnology and food packaging It offers fascinating techniques for producing smart and active food packaging and also discusses its toxicity and the role that nanosensors play in detecting different pathogens in food packaging The concluding chapters also explain recent developments concerning the incorporation of health supplements in food packaging and their future role in producing intelligent food packaging The 16 chapters of this book were contributed by academic and industry experts working in their respective areas of research and are thoughtfully arranged in a systematic fashion that preserves the flow of knowledge An attempt has been made to include all the information in a single monograph to better understand the topics and technologies involved in the application of nanotechnology in intelligent food packaging Audience The book is aimed at researchers industry scientists such as chemists biologists polymer technologists food packaging industrialists biotechnologists health experts quality food safety officials and policymakers It will also be helpful to graduate students in the fields of materials science polymer science and biotechnology to better understand the fundamental concepts involved in food packaging in relation to extending shelf life *Interdisciplinary Technological Advancements in Smart Cities* Arij Naser Abougreen, Shilpa Mehta, Cristina Costa, 2024-12-19 This book explores interdisciplinary technological advancements in smart cities The book begins with a comprehensive study of smart cities followed by their benefits and shortcomings The authors show how with the help of digital technology cities are becoming more sustainable and efficient leading to a better quality of life The book includes a comprehensive review of literature research works and case studies which are presented to demonstrate how various technologies can be integrated into smart cities The book includes scenarios in smart agriculture smart transportation smart healthcare and more This book also offers researchers students academicians and professionals working in this field an extensive range of smart city applications

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