

BIOFOAMS

Science and Applications
of Bio-Based Cellular and
Porous Materials



Edited by

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Biofoams Science And Applications Of Bio Based Cellular And Porous Materials

R Barnett



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Biofoams Salvatore Iannace, Chul B. Park, 2015-10-28 Addresses a Growing Need for the Development of Cellular and Porous Materials in Industry Building blocks used by nature are motivating researchers to create bio inspired cellular structures that can be used in the development of products for the plastic food and biomedical industry Representing a unified effort by international experts *Biofoams Management and Mitigation of Emerging Pollutants* Nancy George, Vagish Dwibedi, Santosh Kumar Rath, Prakram Singh Chauhan, 2023-11-08 This book offers a comprehensive overview of the environmental challenges posed by emerging pollutants and the innovative strategies available for their management Divided into 16 chapters the book begins with an introduction to the origin and management of both inorganic and organic contaminants offering a detailed examination of their sources and the potential risks they pose to ecosystems It also explores current regulations and management practices aimed at mitigating their impact In the following chapters experts in the field cover topics such as conventional wastewater treatment methods for the removal of emerging pollutants biotechnology based strategies for the removal of emerging contaminants microbial electro deionization technologies and algae based bioremediation Particular attention is given to specific remediation techniques including phytomediated approaches microbial fuel cells and the novel application of microbial endophytes Furthermore the book explores the potential of nano bioremediation and enzyme immobilization technologies shedding light on their mechanism of interaction with nanomaterials and microbes for efficient treatment Other chapters highlight the role of graphene based nanocomposites bio based porous materials and biosurfactants in the remediation of emerging pollutants showcasing their unique capabilities and potential applications In the final chapter of the book readers will discover more about the impacts of emerging pollutants on environmental microbial communities and the consequential public health concerns that arise from their presence Given its breadth this book is a valuable resource for environmental scientists policymakers and industry professionals seeking to mitigate the ecological risks associated with these contaminants

Composites Materials for Food Packaging Giuseppe Cirillo, Marek A. Kozlowski, Umile Gianfranco Spizzirri, 2018-05-04 The novel insights as well as the main drawbacks of each engineered composites material is extensively evaluated taking into account the strong relationship between packaging materials environmental and reusability concerns food quality and nutritional value Composites by matching the properties of different components allow the development of innovative and performing strategies for intelligent food packaging thus overcoming the limitations of using only a single material The book starts with the description of montmorillonite and halloysite composites subsequently moving to metal based materials with special emphasis on silver zinc silicium and iron After the discussion about how the biological influences of such materials can affect the performance of packaging the investigation of superior properties of sp² carbon nanostructures is reported Here carbon nanotubes and graphene are described as starting points for the preparation of highly engineered composites able to promote the enhancement of shelf

life by virtue of their mechanical and electrical features Finally in the effort to find innovative composites the applicability of biodegradable materials from both natural e g cellulose and synthetic e g polylactic acid PLA origins with the aim to prove that polymer based materials can overcome some key limitations such as environmental impact and waste disposal

Polymeric Foams S.-T. Lee,2022-05-18 Polymeric Foams Innovations in Technologies and Environmentally Friendly Materials offers the latest in technology and environmental innovations within the field of polymeric foams It outlines how application focused research in polymeric foam can continue to improve living quality and enhance social responsibility This book Addresses technological innovations including those in bead foams foam injection molding foams in tissue engineering foams in insulation and silicon rubber foam Discusses environmentally friendly innovations in PET foam degradable and renewable foam and physical blowing agents Describes principles as well as applications from internationally recognized foam experts This work is aimed at researchers and industry professionals across chemical mechanical materials polymer engineering and anyone else developing and applying these advanced polymeric materials **Foaming with Supercritical Fluids** Ernesto Di Maio,Salvatore Iannace,Giuseppe Mensitieri,2021-11-06 Foaming with Supercritical Fluids Volume Nine provides a comprehensive description of the use of supercritical fluids as blowing agents in polymer foaming To this aim the fundamental issues on which the proper design and control of this process are rooted are discussed in detail with specific attention devoted to the theoretical and experimental aspects of sorption thermodynamics of a blowing agent within a polymer the effect of the absorbed blowing agent on the thermal interfacial and rheological properties of the expanding matter and the phase separation of the gaseous phase and of the related bubble nucleation and growth phenomena Several foaming technologies based on the use of supercritical blowing agents are then described addressing the main issues in the light of the underlying chemical physical phenomena Offers strong fundamentals on polymer properties important on foaming Outlines the use of supercritical fluids for foaming Covers theoretical points of view including foam formation of the polymer gas solution to the setting of the final foam Discusses the several processing technologies and applications

Alginates in Drug Delivery Amit Kumar Nayak,Md Saquib Hasnain,2020-07-23 Alginates in Drug Delivery explores the vital precepts basic and fundamental aspects of alginates in pharmaceutical sciences biopharmacology and in the biotechnology industry The use of natural polymers in healthcare applications over synthetic polymers is becoming more prevalent due to natural polymers biocompatibility biodegradability economic extraction and ready availability To fully utilize and harness the potential of alginates this book presents a thorough understanding of the synthesis purification and characterization of alginates and their derivative This book collects in a single volume all relevant information on alginates in health care including recent advances in the field This is a highly useful resource for pharmaceutical scientists health care professionals and regulatory scientists actively involved in the pharmaceutical product and process development of natural polymer containing drug delivery as well as postgraduate students and postdoctoral research fellows in pharmaceutical

sciences Provides a single source on the complete alginate chemistry collection chemical modifications characterization and applications in healthcare fields Includes high quality illustrations along with practical examples and research case studies Contains contributions by global leaders and experts from academia industry and regulatory agencies who are pioneers in the application of natural polysaccharides in diverse pharmaceutical fields

Handbook of Composites from Renewable Materials, Nanocomposites Vijay Kumar Thakur, Manju Kumari Thakur, Michael R. Kessler, 2017-04-06 This unique multidisciplinary 8 volume set focuses on the emerging issues concerning synthesis characterization design manufacturing and various other aspects of composite materials from renewable materials and provides a shared platform for both researcher and industry The Handbook of Composites from Renewable Materials comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis structure characterization processing applications and performance of these advanced materials The Handbook comprises 169 chapters from world renowned experts covering a multitude of natural polymers reinforcement fillers and biodegradable materials Volume 7 is solely focused on the Nanocomposites Science and Fundamentals of renewable materials Some of the important topics include but not limited to Preparation characterization and applications of nanomaterials from renewable resources hydrogels and its nanocomposites from renewable resources preparation of chitin based nanocomposite materials through gelation with ionic liquid starch based bionanocomposites biorenewable nanofiber and nanocrystal investigation of wear characteristics of dental composite reinforced with rice husk derived nanosilica filler particles performance of regenerated cellulose vermiculite nanocomposites fabricated via ionic liquid preparation structure properties and interactions of the PVA cellulose composites green composites with cellulose nanoreinforcements biomass composites from bamboo based micro nanofibers synthesis and medicinal properties of polycarbonates and resins from renewable sources nanostructured polymer composites with modified carbon nanotubes organic inorganic nanocomposites derived from polysaccharides natural polymer based nanocomposites cellulose whisker based green polymer composites poly lactic acid nanocomposites reinforced with different additives nanocrystalline cellulose halloysite based bionanocomposites nanostructured composites based on biodegradable polymers and silver nanoparticles starch based biomaterials and nanocomposites green nanocomposites based on PLA and natural organic fillers and chitin and chitosan based nanocomposites

Alginates Md Saquib Hasnain, Amit Kumar Nayak, 2019-04-01 This new volume explores the latest research on the use of alginate as a biopolymer in various biomedical applications and therapeutics The uses of alginates and modified alginates discussed in this book include tissue regeneration encapsulation and delivery of drugs nucleic acid materials proteins and peptides genes herbal therapeutic agents nutraceuticals and more This book also describes the synthesis and characterizations of various alginate and modified alginate systems such as hydrogels gels composites nanoparticles scaffolds etc used for the biomedical applications and therapeutics Alginate a biopolymer of natural origin is of

immense interest for its variety of applications in pharmaceuticals as medical diagnostic aids and in materials science It is the one of the most abundant natural biopolymers and is considered an excellent excipient because of its non toxic stable and biodegradable properties Several research innovations have been made on applications of alginate in drug delivery and biomedicines There needs to be a thorough understanding of the synthesis purification and characterization of alginates and its derivatives for their utility in healthcare fields and this volume offers an abundance of information toward that end

Handbook on Natural Pigments in Food and Beverages Ralf Schweiggert,2023-10-24 Handbook on Natural Pigments in Food and Beverages Industrial Applications for Improving Color Second Edition focuses on a color solution for a specific commodity providing food scientists with a one stop comprehensive reference on how to improve the color of a particular food product The book includes two new chapters that highlight the physical and biological fundamentals of color as well as the specific use of curcumin and carthamin Sections focus on specific industrial applications of natural colorants with chapters covering the use of natural colorants in a variety of products Other sections highlight technical formulation and potential health benefits of specific colorants Various pigments which can be used to effectively color food and beverage commodities are presented with information on safety and testing throughout Provides a fully revised and updated resource on current regulatory standards and legislation Includes new chapters on both emerging ingredients and the latest technologies Focuses on the use of natural food colorants by specific product category per chapter rather than one pigment class per chapter Contains a current and comprehensive overview of product specific coloration approaches

Polymeric Foams José Ignacio Velasco,Marcelo Antunes,2019-11-18 Advances in nanotechnology have boosted the development of more efficient materials with emerging sectors electronics energy aerospace etc demanding novel materials to fulfill the complex technical requirements of their products This is the case of polymeric foams which may display good structural properties alongside functional characteristics through a complex composition and micro structure in which a gas phase is combined with rigid ones mainly based on nanoparticles dispersed throughout the polymer matrix In recent years there has been an important impulse in the development of nanocomposite foams extending the concept of nanocomposites to the field of cellular materials This alongside developments in new advanced foaming technologies which have allowed the generation of foams with micro sub micro and even nanocellular structures has extended the applications of more traditional foams in terms of weight reduction damping and thermal and or acoustic insulation to novel possibilities such as electromagnetic interference EMI shielding This Special Issue which consists of a total of 22 articles including one review article written by research groups of experts in the field considers recent research on novel polymer based foams in all their aspects design composition processing and fabrication microstructure characterization and analysis applications and service behavior recycling and reuse etc

The Enigmatic Realm of **Biofoams Science And Applications Of Bio Based Cellular And Porous Materials**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Biofoams Science And Applications Of Bio Based Cellular And Porous Materials** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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