Amos Nussinovitch

Polymer Macro- and Micro-Gel Beads

Fundamentals and Applications

Springer

Polymer Macro And Micro Gel Beads Fundamentals And Applications

Harikesh Bahadur Singh,Birinchi Kumar Sarma,Chetan Keswani

Polymer Macro And Micro Gel Beads Fundamentals And Applications:

Polymer Macro- and Micro-Gel Beads: Fundamentals and Applications Amos Nussinovitch,2010-09-11 Beads made from Egyptian faience have been excavated from grave deposits c 4000 3100 BC together with beads of glazed steatite a soft rock and of se precious stones such as turquoise carnelian quartz and lapis lazuli Information on these and many more ancient beads used for ornaments and jewelry ritual ceremonies as art artifacts and gifts for amorous women throughout history and descriptions of the raw materials e g glass bone precious and other stones and manufacturing technologies used for their production can be located in many references Many books are devoted to the description of beads that are not of water soluble polymer origin techniques for their production their art value and distribution re ecting the wealth of information existing in this eld of science and art On the other hand there are no books fully devoted to the fascinating topic of hydrocolloid polymeric beads and their unique applications A few books c tain scattered chapters and details on such topics while emphasizing the possibility of locating fragments of information elsewhere however again there is no book that is solely devoted to hydrocolloid beads and their versatile applications In the meantime the use of water soluble hydrocolloid beads is on the rise in many elds making a book that covers both past and novel applications of such beads as well as their properties and ways in which to manipulate them crucial *Polymer Macro- and Micro-Gel Beads: Fundamentals and Applications* Amos Nussinovitch,2010-09-29 Beads made from Egyptian faience have been excavated from grave deposits c 4000 3100 BC together with beads of glazed steatite a soft rock and of se precious stones such as turquoise carnelian quartz and lapis lazuli Information on these and many more ancient beads used for ornaments and jewelry ritual ceremonies as art artifacts and gifts for amorous women throughout history and descriptions of the raw materials e g glass bone precious and other stones and manufacturing technologies used for their production can be located in many references Many books are devoted to the description of beads that are not of water soluble polymer origin techniques for their production their art value and distribution re ecting the wealth of information existing in this eld of science and art On the other hand there are no books fully devoted to the fascinating topic of hydrocolloid polymeric beads and their unique applications A few books c tain scattered chapters and details on such topics while emphasizing the possibility of locating fragments of information elsewhere however again there is no book that is solely devoted to hydrocolloid beads and their versatile applications In the meantime the use of water soluble hydrocolloid beads is on the rise in many elds making a book that covers both past and novel applications of such beads as well as their properties and ways in which to manipulate them crucial **Nanocarriers in Plant Science and Agriculture** Chen, Jen-Tsung,2025-05-23 For decades nanomaterials have been widely recognized for their benefits in biological applications that are mostly contributed by the engineered structures for the capacity to carry chemicals and biomolecules to the target sites In plant research and agricultural biotechnology nanocarriers are expected to enhance plant growth and development by delivering a range of cargos Additionally nucleic acids may enhance genetic

engineering and epigenetic modulations Thus strategies based on nanocarriers may be used for crop breeding and managing plant abiotic stress and diseases offering valuable resources for the field of agriculture Nanocarriers in Plant Science and Agriculture fills the knowledge gap in the molecular mechanisms of nanocarriers and highlights the subtopics of their applications on genetic engineering and genome editing such as clustered regularly interspaced short palindromic repeats CRISPR edited crops and delivering chemicals Additionally it includes critical types of nanocarriers are included such as biogenic nanocarriers metallic nanocarriers polymeric nanocarriers and carbon nanotubes Covering topics such as targeted delivery carbon nanotubes and pesticides this book is an excellent resource for plant scientists materials scientists agriculture biotechnologists professionals researchers scholars academicians and more **Polymer Engineering** Bartosz Tylkowski,Karolina Wieszczycka,Renata Jastrzab,2017-09-25 Polymer Engineering focuses on the preparation and application of polymers in several hot topics such as artificial photosynthesis water purification by membrane technologies and biodiesel production from wastewater plants The authors not only describe the latest developments in polymer science but also support these experimental results by computational chemistry and modelling studies Glassy Materials Based Microdevices Giancarlo C. Righini,Nicoletta Righini,2019-02-28 Microtechnology has changed our world since the last century when silicon microelectronics revolutionized sensor control and communication areas with applications extending from domotics to automotive and from security to biomedicine The present century however is also seeing an accelerating pace of innovation in glassy materials as an example glass ceramics which successfully combine the properties of an amorphous matrix with those of micro or nano crystals offer a very high flexibility of design to chemists physicists and engineers who can conceive and implement advanced microdevices In a very similar way the synthesis of glassy polymers in a very wide range of chemical structures offers unprecedented potential of applications The contemporary availability of microfabrication technologies such as direct laser writing or 3D printing which add to the most common processes deposition lithography and etching facilitates the development of novel or advanced microdevices based on glassy materials Biochemical and biomedical sensors especially with the lab on a chip target are one of the most evident proofs of the success of this material platform Other applications have also emerged in environment food and chemical industries The present Special Issue of Micromachines aims at reviewing the current state of the art and presenting perspectives of further development Contributions related to the technologies glassy materials design and fabrication processes characterization and eventually applications are welcome Chitosan for Biomaterials V R. Jayakumar,2025-03-21 This volume offers an overview of Chitosan s role in facilitating peptide and biomolecule delivery microbial resistance in wound care tissue engineering hemostasis and drug delivery It further delves into the challenges and potential applications of chitosan and its chemically modified derivatives within the pharmaceutical industry with a particular focus on ocular and oral drug delivery as well as targeted drug delivery systems Moreover this volume sheds light on the prominent use of chitosan and its derivatives

whether in their original forms or as membranes beads scaffolds or films within the domains of tissue engineering wound healing and hemostasis Collectively this comprehensive exploration aims to enhance our understanding of recent advancements and innovative chitosan based systems in pharmaceutical and nutraceutical applications thereby illuminating the myriad possibilities that lie ahead **Genetic Engineering** Farrukh Jamal,2020-06-10 Genetic engineering has emerged as a prominent and interesting area of life sciences Although much has been penned to satiate the knowledge of scientists researchers faculty members students and general readers none of this compilation covers the theme in totality Even if it caters to the in depth knowledge of a few the subject still has much scope regarding the presentation of the content and creating a drive towards passionate learning and indulgence This compilation presenting certain topics pertaining to genetic engineering is not only lucid but interesting thought provoking and knowledge seeking The book opens with a chapter on genetic engineering which tries to unfold manipulation techniques generating curiosity about the different modus operandi of the technique per se The gene molecular machines vector delivery systems and their applications are all sewn in an organized pattern to give a glimpse of the importance of this technique and its vast functions The revolutionary technique of amplifying virtually any sequence of genetic material is presented vividly to gauge the technique and its various versions with respect to its myriad applications A chapter on genome engineering and xenotransplantation is covered for those who have a penchant for such areas of genetic engineering and human physiology The fruits of genetic engineering the much talked about therapeutic proteins have done wonders in treating human maladies A chapter is included that dwells on the prospects of therapeutic proteins and peptides Lastly a chapter on emerging technologies for agriculture using a polymeric nanocomposite based agriculture delivery system is included to create a subtle diversity This compilation addresses certain prominent titles of genetic engineering which is simply the tip of the iceberg and will be helpful in crafting the wisdom of nascent as well as established scientists research scholars and all those blessed with logical minds I hope this book will continue to serve further investigation and novel innovations in the area of genetic engineering **Use of Hydrocolloids to Control Food Appearance, Flavor, Texture, and Nutrition** Amos Nussinovitch,Madoka Hirashima,2023-01-04 Use of Hydrocolloids to Control Food Appearance Flavor Texture and Nutrition A thoroughly up to date and forward looking presentation of the use of hydrocolloids in food In Use of Hydrocolloids to Control Food Appearance Flavor Texture and Nutrition a team of distinguished food researchers combines comprehensive and authoritative discussions on the conventional use of hydrocolloids to influence shape structure and organoleptic properties of foods with exciting and emerging areas of innovation such as texturing for 3D printing and enhancement of food nutrition The book explores the four principal quality factors of food appearance flavor texture and nutrition and introduces students and food technologists to the myriad uses of hydrocolloids It also presents illustrations of relevant commercial food products that rely on hydrocolloids for their appeal as well as recipes exemplifying the unique abilities of particular hydrocolloids Readers will also find A thorough

introduction to the use of hydrocolloids to control food size and shape including the manipulation of select geometrical properties of foods A comprehensive exploration of the use of hydrocolloids to modulate food color and gloss including the psychological impact of those properties Practical discussions pertaining to the modification of food taste and odor using hydrocolloids A thorough description of the ways in which hydrocolloids are used to improve crispy crunchy and crackly foods Perfect for food scientists working in product development and food engineers Use of Hydrocolloids to Control Food Appearance Flavor Texture and Nutrition is sure to earn a place in the libraries of research chefs as well as food chemists food microbiologists and food technologists Nanophotonics, Nanooptics, Nanobiotechnology, and Their Applications Olena Fesenko,Leonid Yatsenko,2019-07-31 This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine Europe and beyond It features contributions from participants in the 6th International Science and Practice Conference Nanotechnology and Nanomaterials NANO2018 in Kiev Ukraine on August 27 30 2018 organized by the Institute of Physics of the National Academy of Sciences of Ukraine University of Tartu Estonia University of Turin Italy and Pierre and Marie Curie University France Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key results on nanooptics energy storage and biomedical applications This book s companion volume also addresses topics such as materials properties behavior and synthesis

Cooking Innovations Amos Nussinovitch,Madoka Hirashima,2013-10-09 This volume explores unique applications of hydrocolloids in the kitchen Starting with a brief description of the chemical and physical nature of the hydrocolloid its manufacture and its biological toxicological properties the emphasis is on practical information for both the professional chef and amateur cook Each chapter includes recipes demonstrating the particular hydrocolloid s unique abilities in cooking Several formulations were chosen specifically for food technologists who will be able to manipulate them for large scale use or as a starting point for novel industrial formulations **Adhesion in Foods** Amos Nussinovitch,2017-01-17 To the layman adhesion is a simple matter of how well two different materials stick together and adhesion measurements provide some indication of the force required to separate them However a more detailed look at adhesion shows that it is a very important feature of food throughout its manufacturing packaging and storage Chapters are fully devoted to the fascinating topic of adhesion in foods Key features of the book include but are not limited to definition and nomenclature of adhesion adhesion mechanisms and measurements stickiness in various foods and its relation to technological processes perception of stickiness hydrocolloids as adhesive agents for foods adhesion phenomena in coated battered breaded and fried foods electrostatic adhesion in foods multilayered adhered food products and adhesion of substances to packaging and cookware Adhesion in Foods Fundamental Principles and Applications is dedicated not only to the academic community but also to the broader population of industrialists and experimentalists who will find it to be not only a source of knowledge but also a launching pad for novel ideas and inventions In particular this book is expected to be of interest to personnel involved in food

formulation food scientists food technologists industrial chemists and engineers and those working in product development

Oral Drug Delivery for Modified Release Formulations Edmund S. Kostewicz,Maria Vertzoni,Heather A. E. Benson,Michael S. Roberts,2022-04-26 ORAL DRUG DELIVERY FOR MODIFIED RELEASE FORMULATIONS Provides pharmaceutical development scientists with a detailed reference guide for the development of MR formulations Oral Drug Delivery for Modified Release Formulations is an up to date review of the key aspects of oral absorption from modified release MR dosage forms This edited volume provides in depth coverage of the physiological factors that influence drug release and of the design and evaluation of MR formulations Divided into three sections the book begins by describing the gastrointestinal tract GIT and detailing the conditions and absorption processes occurring in the GIT that determine a formulation s oral bioavailability The second section explores the design of modified release formulations covering early drug substance testing the biopharmaceutics classification system an array of formulation technologies that can be used for MR dosage forms and more The final section focuses on in vitro in silico and in vivo evaluation and regulatory considerations for MR formulations Topics include biorelevant dissolution testing preclinical evaluation and physiologically based pharmacokinetic modelling PBPK of in vivo behaviour Featuring contributions from leading researchers with expertise in the different aspects of MR formulations this volume Provides authoritative coverage of physiology physicochemical determinants and in vitro in vivo correlation IVIVC Explains the different types of MR formulations and defines the key terms used in the field Discusses the present status of MR technologies and identifies current gaps in research Includes a summary of regulatory guidelines from both the US and the EU Shares industrial experiences and perspectives on the evaluation of MR dosage formulations Oral Drug Delivery for Modified Release Formulations is an invaluable reference and guide for researchers industrial scientists and graduate students in general areas of drug delivery including pharmaceutics pharmaceutical sciences biomedical engineering polymer and materials science and chemical and biochemical engineering

Agriculturally Important Microorganisms Harikesh Bahadur Singh,Birinchi Kumar Sarma,Chetan Keswani,2016-11-18 The main focus of this book is to survey the current status of research development and use of agriculturally important microorganisms in Asian countries and develop a strategy for addressing critical issues various policy constraints due to which bio pesticides have found limited applications In this book the editors have tried to develop a consensus on issues of such as quality requirements quality control regulatory management commercialization and marketing of agriculturally important microorganisms in Asian countries All these issues are discussed at national level by competent authorities of Asian countries including India China Malaysia Iran Taiwan Israel Sri Lanka Vietnam and Philippines **Advances in biocontrol of crop insect pests** Professor Travis Glare,Dr David Teulon,Prof Max Scott,Dr Azucena Gonzalez-Coloma,Prof. Shireen-Anne Davies,Dr Salvatore Arpaia,Dr Linda Muskat,Dr Claudia Preininger,Dr Shannon Borges,Professor Michael J. Stout,2025-03-25 Provides a detailed overview of the recent advances in the biocontrol sector focussing on the development

of products to control crop insect pests Considers the key issues and challenges that can arise as a result of the development of novel biocontrol agents such as the challenge of commercialising a new product to a rapidly changing market Addresses how breeding techniques can be optimised to improve plant defences against insect pest attacks *Functional Polymers in Food Science* Giuseppe Cirillo,Umile Gianfranco Spizzirri,Francesca Iemma,2015-03-18 Polymers are an important part in everyday life products made from polymers range from sophisticated articles such as biomaterials to aerospace materials One of the reasons for the great popularity exhibited by polymers is their ease of processing Polymer properties can be tailored to meet specific needs by varying the atomic composition of the repeat structure by varying molecular weight and by the incorporation via covalent and non covalent interactions of an enormous range of compounds to impart specific activities In food science the use of polymeric materials is widely explored from both an engineering and a nutraceutical point of view Regarding the engineering application researchers have discovered the most suitable materials for intelligent packaging which preserves the food quality and prolongs the shelf life of the products Furthermore in agriculture specific functionalized polymers are used to increase the efficiency of treatments and reduce the environmental pollution In the nutraceutical field because consumers are increasingly conscious of the relationship between diet and health the consumption of high quality foods has been growing continuously Different compounds e g high quality proteins lipids and polysaccharides are well known to contribute to the enhancement of human health by different mechanisms reducing the risk of cardiovascular disease coronary disease and hypertension This second volume focuses on the importance of polymers and functional food and in food processing **More Cooking Innovations** Amos Nussinovitch,Madoka Hirashima,2018-09-03 Hydrocolloids are among the most commonly used ingredients in the food industry They function as thickeners gelling agents texturizers stabilizers and emulsifiers and have applications in the areas of edible coatings and flavor release This book More Cooking Innovations Novel Hydrocolloids for Special Dishes completes the very demanding task begun with our previous book Cooking Innovations Using Hydrocolloids for Thickening Gelling and Emulsification of covering all hydrocolloids that are or will be very useful and important in the kitchen Together these books provide a complete picture of hydrocolloid use in foods both in the kitchen and for food technologists and academics The book includes several very important hydrocolloids among them chitin and chitosan gum karaya gum tragacanth and milk proteins Additional chapters comprise unique hydrocolloids which in our opinion will not only be used in future cooking by both amateur cooks and professional chefs but can pave the way to new and fascinating recipes and cooking techniques The book also discusses novel hydrocolloids the where why and when as well as future ideas for hydrocolloid processing and cooking This book therefore describes more cooking innovations and completes the list of hydrocolloids that are now or will be used in kitchens and cooking for years to come Fuel Cells Jean-Francois Drillet,Yanhai Du,Stanislav Kolisnychenko,2020-11-05 Aggregated Book Aggregated Book **Marine Microbial Bioremediation** Anjana K Vala,Dushyant R Dudhagara,Bharti P Dave,2021-11-29 Increased industrialization and

urbanization has polluted the marine environment the largest ecosystem Hence sincere efforts must be made to decontaminate marine ecosystem for sustainable use of oceans and their bioresources Microbial population in the marine environment plays a very crucial role in degrading transforming and detoxifying the pollutants This book presents contributions from leading scientists across the globe who have worked extensively on polluted marine ecosystem in removal of pollutants mycoremediation of salinity ingressed soils etc This book will be useful to the scientific community stake holders and policy makers involved in research related to environmental microbiology and marine microbiology in particular The book will also be of benefit to the student community interested in marine microbial bioremediation **Environmental Sustainability Using Green Technologies** V. Sivasubramanian,2016-09-15 Environmental Sustainability Using Green Technologies explains the role of green engineering and social responsibility in the development of chemicals processes products and systems Examining the relationship between economy ecology and equality key factors in developing a sustainable society this book covers several aspects of environmental sustainability explores ways to use resources and processes more responsibly and describes the tools required to overcome various challenges It outlines the biotechnological applications techniques and processes needed to secure sustainable development and ensure long lasting future success Insightful and highly comprehensive this body of work addresses Wastewater treatment technologies Nanomaterials in environmental applications Green synthesis of ecofriendly nanoparticles The role of phytoremediation in maintaining environmental sustainability Algal biosorption of heavy metals Mass production of microalgae for industrial applications Integrated biological system for the treatment of sulfate rich wastewater Anaerobic digestion of pharmaceutical effluent Treatment of textile dye using bioaccumulation techniques Production of biosurfactants and their applications in bioremediation Biodegradable polymers Microbial fuel cell MFC technology Biodiesel from nonedible oil using a packed bed membrane reactor Production of ecofriendly biodiesel from marine sources Pretreatment techniques for the enhancement of biogas production A review of source apportionment of air pollutants by receptor models and more Environmental Sustainability Using Green Technologies provides excellent reference material that aids and supports sustainability and offers practical guidance for professors research scholars industrialists biotechnologists and workers in the applied field of environmental engineering Nutrient Delivery Alexandru Grumezescu,2016-08-12 Nutrient Delivery Nanotechnology in the Agri Food Industry Volume Five discusses the fabrication merits demerits applications and bioavailability enhancement mechanisms of various nanodelivery systems Recent developments in various nanodelivery systems are also highlighted Volume 5 contains twenty chapters prepared by outstanding international researchers from Argentina Brazil Canada China Croatia India Iran Ireland M xico Pakistan Portugal Serbia Sri Lanka and the United States In recent years the delivery of micronutrients at nanoscale has been widely studied as these systems have the potential to improve bioavailability enable controlled release and enhance stability of food bioactives to a greater extent The nanodelivery systems typically consist of

the food bioactive compound encapsulated and stabilized in food grade ingredients such as lipids proteins or polysaccharides with diameters ranging from 10 nm to 1000 nm Among these the lipid based delivery systems such as nanoemulsions solid lipid nanoparticles nanoliposomes and micelles are widely studied for the delivery of lipophilic bioactive compounds These delivery vehicles improve the solubility permeability stability and bioavailability of the lipophilic compounds thereby enhancing their potential for oral delivery and functional food development On the other hand the hydrophilic bioactives are delivered through protein polysaccharide or biopolymer based colloidal nanosystems such as hydrogels nanogels and polymer nanoparticles The major concern other than solubility is the intestinal permeability of the micronutrients For instance the delivery system for compounds with poor intestinal permeability and low solubility need to be carefully designed using suitable lipids and surfactants Offers updated material for undergraduate and postgraduate students in food science biotechnology and related engineering fields Provides a valuable resource of recent scientific progress along with most known applications of nanomaterials in the food industry for researchers engineers and academics Includes novel opportunities and ideas for developing or improving technologies in the food industry

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Table of Contents Polymer Macro And Micro Gel Beads Fundamentals And Applications

1. Understanding the eBook Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - The Rise of Digital Reading Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Advantages of eBooks Over Traditional Books
2. Identifying Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - User-Friendly Interface

4. Exploring eBook Recommendations from Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Personalized Recommendations
    - Polymer Macro And Micro Gel Beads Fundamentals And Applications User Reviews and Ratings
    - Polymer Macro And Micro Gel Beads Fundamentals And Applications and Bestseller Lists
5. Accessing Polymer Macro And Micro Gel Beads Fundamentals And Applications Free and Paid eBooks
    - Polymer Macro And Micro Gel Beads Fundamentals And Applications Public Domain eBooks
    - Polymer Macro And Micro Gel Beads Fundamentals And Applications eBook Subscription Services
    - Polymer Macro And Micro Gel Beads Fundamentals And Applications Budget-Friendly Options
6. Navigating Polymer Macro And Micro Gel Beads Fundamentals And Applications eBook Formats
    - ePub, PDF, MOBI, and More
    - Polymer Macro And Micro Gel Beads Fundamentals And Applications Compatibility with Devices
    - Polymer Macro And Micro Gel Beads Fundamentals And Applications Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Highlighting and Note-Taking Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Interactive Elements Polymer Macro And Micro Gel Beads Fundamentals And Applications
8. Staying Engaged with Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Polymer Macro And Micro Gel Beads Fundamentals And Applications
9. Balancing eBooks and Physical Books Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Polymer Macro And Micro Gel Beads Fundamentals And Applications
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Setting Reading Goals Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Fact-Checking eBook Content of Polymer Macro And Micro Gel Beads Fundamentals And Applications
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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