

Zhifei Dai *Editor*

Advances in Nanotheranostics I

Design and Fabrication of Theranostic
Nanoparticles

Online Advances Nanotheranostics Fabrication Nanoparticles Biomaterials

**Francis Verpoort,Ikram Ahmad,Awais
Ahmad,Anish Khan,Ching Yern Chee**

Online Advances Nanotheranostics Fabrication Nanoparticles Biomaterials:

Hybrid Nanostructures for Cancer Theranostics Raghvendra Ashok Bohara, Nanasahab D. Thorat, 2018-11-19 Hybrid nanostructures are nanoparticles which incorporate two or more structures. These structures may represent organic or inorganic material but they synergistically improve the application of the material for end users. Hybrid Nanostructures for Cancer Theranostics explores how hybrid nanostructures are used in cancer treatment. Focusing on the properties of hybrid nanostructures, the book demonstrates how their unique characteristics can be used to create more effective treatment techniques. In the second half of the book, the chapters examine how hybrid nanostructures are currently being used in practice, assessing the pros and cons of using different types of nanostructures for different treatments. This valuable resource will allow readers to understand the core and emerging concept of functionalization, bioconjugation, hyperthermia, and phototherapy of nanoparticles, which allows for the greater use of hybrid nanomaterials in cancer theranostics. Shows how the use of novel hybrid nanostructures can lead to more effective cancer treatments. Explores how hybrid nanostructures are used for different treatment types, including photo thermal therapy and drug delivery. Explains how the use of hybrid nanostructures can lead to more rapid cancer diagnosis.

Advanced Nanoformulations Md Saquib Hasnain, Amit Kumar Nayak, Tejraj M. Aminabhavi, 2023-03-24 Advanced Nanoformulations Theranostic Nanosystems Volume Three examines the applications of nanotherapeutic systems and nanodiagnostics in relation to polymeric nanosystems. In the last decade, numerous biopolymers have been utilized to prepare polymeric nanosystems for therapeutic applications. These biopolymers include polylactic acid, polylactide, co glycolide, polycaprolactone, acrylic polymers, cellulose, and cellulose derivatives, alginates, chitosan, gellan gum, gelatin, albumin, chondroitin sulfate, hyaluronic acid, guar gum, gum Arabic, gum tragacanth, xanthan gum, and starches. Besides these biopolymers, grafted polymers are also being used as advanced polymeric materials to prepare many theranostic nanocarriers and nanoformulations. This book explores the array of polymeric nanosystems to understand therapeutic potentials. It will be useful to pharmaceutical scientists, including industrial pharmacists and analytical scientists, health care professionals, and regulatory scientists actively involved in the pharmaceutical product and process development of tailor-made polysaccharides in drug delivery applications. Contains in-depth discussions of the advanced formulations using nanosystems, including high-quality graphics, flowcharts, and graphs for enhanced understanding. Reviews the literature on advanced formulations while also suggesting new avenues. Includes contributions in all areas of advanced formulations, providing a thorough and interdisciplinary work.

Advanced Nanomaterials for Photothermal Agents Bo Li, Guanjie He, Ming Ma, 2021-09-27

Sustainable Nanocomposites with Green Biomaterials Rishabha Malviya, Sonali Sundram, 2025-03-24 The book delves into the realm of biomaterials with a strong focus on sustainability, offering insights into their diverse applications in advanced therapeutics and diagnostics. Tackling cutting-edge topics, it explores the latest developments in green biomaterials for biomedical implants and tissue engineering, emphasizing sustainability in

nanocomposite synthesis properties and applications The book also addresses the groundbreaking concept of biodegradable and biofriendly transient devices for sustainable monitoring and healing Further it highlights the crucial role of biodegradable scaffolds in engineering living tissues and discusses gene activated matrices for tissue engineering and regenerative medicine Various chapters delve into specialized applications such as tissue engineered cartilage products green biomaterials for innovative drug delivery and 3D printed biodegradable metals in orthopedics and stomatology The book also explores the use of bioresorbable polymers in advancing minimally invasive surgical procedures and customizing medical devices for personalized medicine Additionally it sheds light on the integration of nanobioengineered platforms in electrochemical biosensors for disease diagnosis antimicrobial biomaterials in dental healthcare silk based biomaterials for regenerative medicine and drug delivery and the utilization of plant derived biomaterials in cardiac tissue repair This comprehensive volume not only provides a snapshot of the latest advancements in the field but also underscores the pivotal role of green biomaterials in shaping the future of healthcare technologies

Biodegradable Polymers for Biomedical Applications , volume III Liqun Yang,Jianshe Hu,Shuai Jiang,Yeh-Hsing Lao,Yang Yao,2025-02-03 Biodegradable polymers are an important class of polymers due to their good biodegradability and biocompatibility The research and application of biodegradable polymers in biomedical fields have attracted extensive attention especially in that of drug delivery tissue engineering and regenerative medicine Biodegradable polymers can be broken down in vivo through enzymatic and non enzymatic degradation For biomedical applications the chemical and mechanical properties degradation mechanism and products and other factors of the polymers play a critical role in their degradation behaviors and application Thus many essential issues must be considered in the design of biodegradable polymers for biomedical application For instance sufficient mechanical strength is important for scaffold materials to provide three dimensional space for cells and its degradation rate must be compatible with tissue regeneration When used as the drug carriers for some implants controllable degradation rate is also required for the biodegradable polymers to avoid explosive release besides good permeability More importantly the biodegradable polymers must have good biocompatibility to avoid adverse reactions such as inflammation in the body and the degradation products must be non toxic and should not be accumulated in the body To meet such requirements the chemical and physical as well as the degradation properties of polymers must be properly tailored

Fabrication and Self-Assembly of Nanobiomaterials Alexandru Grumezescu,2016-01-06 Fabrication and Self Assembly of Nanobiomaterials presents the most recent findings regarding the fabrication and self assembly of nanomaterials for different biomedical applications Respected authors from around the world offer a comprehensive look at how nanobiomaterials are made enabling knowledge from current research to be used in an applied setting Recent applications of nanotechnology in the biomedical field have developed in response to an increased demand for innovative approaches to diagnosis exploratory procedures and therapy The book provides the reader with a strong grounding in emerging biomedical

nanofabrication technologies covering numerous fabrication routes for specific applications are described in detail and discussing synthesis characterization and current or potential future use This book will be of interest to professors postdoctoral researchers and students engaged in the fields of materials science biotechnology and applied chemistry It will also be highly valuable to those working in industry including pharmaceuticals and biotechnology companies medical researchers biomedical engineers and advanced clinicians An up to date and highly structured reference source for practitioners researchers and students working in biomedical biotechnological and engineering fields A valuable guide to recent scientific progress covering major and emerging applications of nanomaterials in the biomedical field Proposes novel opportunities and ideas for developing or improving technologies in fabrication and self assembly

Design, Principle and Application of Self-Assembled Nanobiomaterials in Biology and Medicine Alok Pandya,Rajesh S. Bhosale,Vijai Singh,2022-08-04

Design Principle and Application of Self Assembled Nanobiomaterials in Biology and Medicine discusses recent advances in science and technology using nanoscale units that show the novel concept of combining nanotechnology with various research disciplines within both the biomedical and medicine fields Self assembly of molecules macromolecules and polymers is a fascinating strategy for the construction of various desired nanofabrication in chemistry biology and medicine for advanced applications It has a number of advantages

- 1 It is involving atomic level modification of molecular structure using bond formation advanced techniques of synthetic chemistry
- 2 It draws from the enormous wealth of examples in biology for the development of complex functional structures
- 3 It can incorporate biological structures directly as components in the final systems
- 4 It requires that the target self assembled structures be thermodynamically most stable with relatively defect free and self healing

In this book we cover the various emerging self assembled nanostructured objects including molecular machines nano cars molecular rotors nanoparticles nanosheets nanotubes nanowires nano flakes nano cubes nano disks nanorings DNA origami transmembrane channels and vesicles These self assembled materials are used for sensing drug delivery molecular recognition tissue engineering energy generation and molecular tuning Provides a basic understanding of how to design and implement various self assembled nanobiomaterials Covers principles implemented in the constructions of novel nanostructured materials Offers many applications of self assemblies in fluorescent biological labels drug and gene delivery bio detection of pathogens detection of proteins probing of DNA structure tissue engineering and many more

Nanobiomaterials Dong Kee Yi,Georgia C. Papaefthymiou,2013-08-14 There is a continuous exchange of ideas taking place at the border of the biological and physical sciences in many areas of nanoscience Nanotechnology uses biomimetic or bio inspired processes to produce nanosized materials for applications in biology and other fields In return the fruits of nanotechnology are applied to expanding areas of biomedical and therapeutic processes such as new nanostructures and scaffolds for tissue engineering or targeted drug delivery In this way nanobiotechnology serves as a bridge between nano and bio with nanoscale materials providing the building blocks for the construction of the bridge Nanobiomaterials

Development and Applications gives you a broad interdisciplinary view of current developments as well as new findings and applications in bionanomaterials. The book brings together the work of international contributors who are actively engaged at the forefront of research in their respective disciplines. Organized into four parts, this book explores the preparation and characterization of nanomaterials, new preparation routes of soft nanomaterials using biomolecules, nano and microscale hybridization of materials and nanotoxicity. The contributors cover a diverse set of topics including Biomimetic synthesis, Bioimaging and cancer diagnosis, Photodynamic therapy, Bioconjugated carbon nanotube, DNA transfection and tumor targeting, Magnetically induced hyperthermia, Cytotoxicity mechanisms and their potential use in therapy, Virus enabled manufacturing of functional nanomaterials, Biocatalytic nanosystems and enzyme immobilization, Tissue engineering, The fabrication of hybrid microswimmers, Bionanomaterial applications in environmental remediation. Each chapter is richly illustrated and includes an extensive list of references to guide you toward further research. Combining bionanomaterial development and applications, the book clearly demonstrates the importance of these materials to biotechnology, biomedicine and environmental remediation. It offers an accessible overview for students, industrial researchers, pharmaceutical innovators, medical and public health personnel, environmental scientists and engineers and anyone interested in this interdisciplinary field.

Nanoengineered Biomaterials for Advanced Drug Delivery Masoud Mozafari, 2020-06-17

Nanoengineered Biomaterials for Advanced Drug Delivery explores the latest advances in the applications of nanoengineered biomaterials in drug delivery systems. The book covers a wide range of biomaterials and nanotechnology techniques that have been used for the delivery of different biological molecules and drugs in the human body. It is an important resource for biomaterials scientists and engineers working in biomedicine and those wanting to learn more on how nanoengineered biomaterials are being used to enhance drug delivery for a variety of diseases. Nanoengineered biomaterials have enhanced properties that make them more effective than conventional biomaterials as both drug delivery agents and in the creation of new drug delivery systems. As nanoengineering becomes more cost effective, nanoengineered biomaterials have become more widely used within biomedicine. Offers an informed overview on how nanoengineering biomaterials enhance their properties for drug delivery applications. Discusses the major applications of nanoengineered biomaterials for drug delivery. Outlines the major challenges for successfully implementing nanoengineered biomaterials into existing drug delivery systems.

Nanotechnology in Medicine and Biology Huinan H. Liu, Tolou Shokuhfar, Sougata Ghosh, 2021-11-13 Nanotechnology in Medicine and Biology brings together a multidisciplinary team of experts from the fields of materials science, nanotechnology, medicine and biomedical engineering to introduce new nanoscale biomaterials and their applications in diagnosis and treatment of disorders of the human body. The book presents the fundamentals for understanding the design, properties and selection of nanobiomaterials as well as their real world applications in medicine. Each chapter addresses current regulations, manufacturing processes and translation issues of nanobiomaterials for key applications. A discussion of

current protocols and their benefits and disadvantages is also included This book provides comprehensive background and knowledge in the field of nanobiomaterials that is suitable for academics scientists and clinicians Provides fundamental understanding on the design properties and selection of biomaterials for applications in medicine and biology Reviews current regulations protocols manufacturing processes and translation issues of nanobiomaterials for medical applications Discusses tissue repair wound healing regenerative medicine drug delivery imaging and medical device applications

Frontiers in Nano-therapeutics Nishat Tasnim,Baiju G. Nair,Katla Sai Krishna,Sudhakar Kalagara,Mahesh Narayan,Juan C. Noveron,Binata Joddar,2017-06-22 This brief highlights recent research advances in the area of nano therapeutics Nanotechnology holds immense potential for application in a wide range of biological and engineering applications such as molecular sensors for disease diagnosis therapeutic agents for the treatment of diseases a vehicle for delivering therapeutics and imaging agents for theranostic applications both in vitro and in vivo The brief is grouped into the following sections namely A Discrete Nanosystems B Anisotropic Nanoparticles C Nano films coated layered and D Nano composites

Advances in Nanomaterials in Biomedicine Elena I. Ryabchikova,2021-09-01 Advances in Nanomaterials in Biomedicine provided a platform for more than 110 researchers from different countries to present their latest investigations in various fields of nanotechnology new methods and nanomaterials intended for medical applications Modern achievements in the field of nanoparticle based diagnostics drug delivery and the use of various nanomaterials in the treatment of diseases are presented in 11 original articles The published reviews provide a comprehensive analysis of the current information on the use of nanomedicine in the treatment and diagnosis of cancer and liver fibrosis in the field of solid tissue engineering and in drug delivery systems

Nanomaterials in Advanced Medicine Hossein Hosseinkhani,2019-08-05 A comprehensive and multidisciplinary review of the fundamental concepts and medical applications of nanomaterials development technology Nanomedicine offers a range of multi interdisciplinary approaches and brings together the field of chemistry pharmaceutical science biology and clinical medicines by focusing on design and preparation of biodegradable or non biodegradable biomaterials for their biological medical and pharmaceutical applications Nanomaterials in Advanced Medicine reviews the concepts and applications of the combination of the technology of biology and engineering that are emerging as an integral aspect of today s advanced medicine Nanomedicine provides the technology for imaging cancer treatment medical tools bone treatment drug delivery diagnostic tests drug development angiogenesis and aims to exploit the improved and often novel physical chemical and biological properties of materials at the nanometer scale Designed to provide a broad survey of the field Nanomaterials in Advanced Medicine is divided into three main sections Nanophysics Nanochemistry and Nanomedicine Each chapter describes in detail the most current and valuable methods available and contains numerous references to the primary literature This important book Offers a field guide for biologists and physicians who want to explore the fascinating world of nanotechnology Contains a comprehensive review of the topic from a noted

expert in the field Includes an introduction to nanotechnology and explores the synthesis structure and properties of various types of nanobiomaterials Bridges the gap between various aspects of nanomaterials development technology and their applications Written for pharmaceutical chemists biotechnologists life scientists materials scientists polymer chemists and biochemists Nanomaterials in Advanced Medicine provides a must have guide to the fundamental concepts and current applications of nanomaterials in the medical field

Tissue Engineering And Nanotheranostics Donglu Shi,Qing Liu,2017-10-27 This book provides a comprehensive overview of current achievements in biomedical applications of nanotechnology including stem cell based regenerative medicine medical imaging cell targeting drug delivery and photothermal photodynamic cancer therapy New approaches in early cancer diagnosis and treatment are introduced with extensive experimental results In particular some novel materials have been synthesized with new properties that are most effective in cancer therapy Some of the key issues are also addressed with these recent discoveries such as bio safety and bio degradability that are essential in the success of nano medicine An important aspect of this book is the introduction of nanotechnology to the medical communities that are searching for new treatments of cancer therefore breaking barriers between the physical and medical sciences so that more MDs will be able to appreciate the new discoveries and establishments in medical diagnoses and therapies capable of tackling major clinical issues

Biomaterials and Bionanotechnology, 2019-05-29 Biomaterials and Bionanotechnology examines the current state of the field within pharmaceutical sciences and concisely explains the history of biomaterials including key developments Written by experts in the field this volume within the Advances in Pharmaceutical Product Development and Research series deepens understanding of biomaterials and bionanotechnology within drug discovery and drug development Each chapter delves into a particular aspect of this fast moving field to cover the fundamental principles advanced methodologies and technologies employed by pharmaceutical scientists researchers and pharmaceutical industries to transform a drug candidate or new chemical entity into a final administrable dosage form with particular focus on biomaterials and bionanomaterials This book provides a comprehensive examination suitable for researchers working in the pharmaceutical cosmetics biotechnology food and related industries as well as advanced students in these fields Examines the most recent developments in biomaterials and nanomaterials for pharmaceutical sciences Covers important topics such as the fundamentals of polymers science transportation and bio interaction of properties in nanomaterials across biological systems and nanotechnology in tissue engineering as they pertain specifically to pharmaceutical sciences Contains extensive references for further discovery on the role of biomaterials and nanomaterials in the drug discovery process

Nanomaterials for Advanced Biological Applications Moones Rahmandoust,Majid R. Ayatollahi,2019-01-29 This book presents an overview of the ways in which the latest experimental and theoretical nanotechnologies are serving the fields of biotechnology medicine and biomaterials They not only enhance the efficiency of common therapeutics and lower their risks but thanks to their specific properties they also

provide new capabilities Nano scale measurement techniques such as nano indentation and nano scratch methods could potentially be used to characterize the physical and mechanical properties of both natural tissues and synthetic biomaterials in terms of strength and durability Engineered Biomaterials Rishabha Malviya,Sonali Sundram,2023-11-26 This book highlights recent advances focusing on the synthesis methods of engineered biomaterials and their applications The book discusses recent applications of various approaches and technology in improving the functional properties and biological activities of biopolymers It includes two major sections the first section introduces a range of methods which lead to materials with enhanced properties for a range of practical applications along with the positives and limitations of the techniques The second section covers recent trends and advances in application of engineered biomaterials that assist materials scientists and researchers in mapping out the future of these new improved materials through value addition in order to enhance their use Contributions in the book are done by prominent researchers from industry academia and government private research laboratories across the globe The book summarizes in a fairly comprehensive manner many of the recent technical advancements in the area of biopolymers The book is intended to serve as a reference resource in the area of polymers science Smart Nanomaterials in Biomedical Applications Jin-Chul Kim,Madhusudhan Alle,Azamal Husen,2022-01-19 With the start of 2020 the wrath of pandemic challenged the scientific community to develop more advanced drug delivery approaches for biomedical applications endowing conventional drugs with additional therapeutic benefits and minimum side effects Although significant advancements have been done in the field of drug delivery there is a need to focus towards strategizing novel and improved drug delivery systems that should be convenient and cost effective to the patients and simultaneously they should also provide financial benefits to pharmaceutical companies Controlled drug delivery technology offers ample opportunities and scope for improvising the therapeutic efficacy of drugs via optimizing the drug release rate and time For this endeavour smart nanomaterials have served as remarkable candidates for biomedical applications owing to their ground breaking properties and design The development of such nanomaterials requires a broad knowledge related to their physio chemical properties molecular structure mechanisms by which the nanomaterials interact with the cells and methods by which drugs are released at the site of action This knowledge must also be allied with the knowledge of signaling crosstalk mechanisms that are modulated by the nanomaterial drugs composite It can be anticipated that these emerging drug delivery technologies can facilitate the world to successfully encounter such pandemic outbursts in the future in a cost effective and time effective manner The chapters in this book deal with the advanced technologies and approaches that can benefit advanced students researchers and industry experts in developing smart and intelligent nanomaterials for future biomedical applications and development manufacturing and commercialization for controlled and targeted drug delivery **Nanomedicine and Tissue Engineering** Nandakumar Kalarikkal,Robin Augustine,Oluwatobi Samuel Oluwafemi,Joshya K. S.,Sabu Thomas,2016-03-30 This book focuses on the recent advances in nanomedicine and

tissue engineering It outlines the basic tools and novel approaches that are becoming available in nanomedicine and tissue engineering and considers the full range of nanomedical applications which employ molecular nanotechnology inside the human body from the perspective of a future pr

Nanomedicine Manufacturing and Applications Francis

Verpoort,Ikram Ahmad,Awais Ahmad,Anish Khan,Ching Yern Chee,2021-06-22 Nanomedicine explores the modification and enhancement of the properties and performances of typical drugs to treat various diseases Nano based medicines have advantages in several ways such as in nanotherapeutics nanotheranostics and nanodiagnostics Nanomedicine Manufacturing and Applications effectively explores the major manufacturing techniques and applications of nanomaterial based medicine in the areas of chemotherapy biochips insulin pumps and other treatment methods This book explains how nanomedicines are developed from nanoparticles as well as their biomedical and other applications related to healthcare This book is an important reference source for nanoscientists biomaterials scientists and biomedical engineers who want to learn more about how nano based medicines are made and used Outlines the process of making nanomedicine as well as nanodrug carriers with a focus onnanomedicine for cancer treatment Explains the formulation and manufacturing process of nanomedicines showing how to buildthese materials Demonstrates how nano based medicines are being used to tackle a range of diseases in away that conventional medicines cannot

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