

Zhifei Dai *Editor*

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# Advances in Nanotheranostics I

Design and Fabrication of Theranostic  
Nanoparticles

# Advances Nanotheranostics Fabrication Nanoparticles Biomaterials

**Masoud Mozafari**



## **Advances Nanotheranostics Fabrication Nanoparticles Biomaterials:**

**Advances in Nanotheranostics I** Zhifei Dai, 2015-12-15 This book highlights the recent advances in nanotheranostics from basic research to potential applications and discusses the modular design and engineering of multiplex nanoparticles including gold nanostructures luminescent nanoparticles dendrimers and liposomes Each chapter demonstrates multifunctional nanoparticles with topics covering targeting imaging delivery diagnostics and therapy as new modalities for cancer theranostics This comprehensive book presents expert views on the latest developments in theranostic nanomedicine It focuses on potential theranostic applications of multifunctional nanoparticles ranging from identifying noninvasively cancer cells by molecular detection and visualizing in vivo drug delivery by means of contrast enhanced imaging to destroying cancer cells with minimal side effects via selective accumulation at tumor sites and real time monitoring therapeutic effectiveness It also presents an interdisciplinary survey of nanotheranostics and as such is a valuable resource for researchers and students in related fields Zhifei Dai is a Professor at the Department of Biomedical Engineering College of Engineering Peking University China

**Nanotheranostics** Sougata Jana, Sreejan Manna, 2025-12-29 Nanotheranostics is a growing field that describes the use of nanotechnology for diagnostic and therapeutic applications This book reviews the recent advancements in nanotheranostics in modern day healthcare It also covers the sensory and bioimaging properties of nanotheranostics in the therapy of numerous diseases including cancers Nanotheranostics Advances in Biomedical Applications describes the general preparatory methods of nanocarriers for theranostic purposes alongside their applications in various fields It discusses advancements in the field of nanomedicine that empower the synthesis of polymeric as well as inorganic nanomaterials for theranostic purposes This book demonstrates two of the most commonly employed biopolymers in the fabrication of theranostic nanocarriers chitosan and hyaluronic acid The content also focuses on various biopolymers that are employed in developing nanotheranostics Alongside this it also describes smart polymeric materials and inorganic nanomaterials for synthesizing theranostic nanocarriers and their respective applications This book also covers the evaluation parameters of theranostic nanomaterials and showcases applications in the fields of biomedical engineering cancer therapy bioimaging and biosensors This book is expected to be useful for students researchers and professionals working in the field of biomedical engineering nanotheranostics and nanomaterials

*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      Advanced Theranostic Nanomedicine in Oncology Gianni Ciofani, Attilio Marino, Christos Tapeinos, 2020-03-18      *Advanced Nanomaterials for Photothermal Agents* Bo Li, Guanjie He, Ming Ma, 2021-09-27      **Neuroendocrine-Immune Axis** Rahul Shukla, Saba Naqvi, Monika S. Deore, Ravinder K. Kaundal, 2026-01-10 This book discusses the mutual interactions between neurons and other types of cells during neurological and immunological processes within the Central Nervous System CNS for understanding the pathophysiology of various neurological diseases and advancing the diagnosis prevention and intervention It also addresses the immune function of both glial cells and neurons and the roles they play in regulating inflammatory processes and maintaining homeostasis of the CNS This book also examines the role of the neuro immune axis and its targetability in relation to major depression and autism spectrum disorder and reviews the role of nanotechnology in modulating the neuroimmune axis Further the book discusses the specific arms of the peripheral immune system and other types of immune responses in modulating neurodegenerative disorders It also reviews the role of cytokines in neurodegeneration mechanisms of expression and action and clinical relevance Lastly the book reviews the drug repurposing strategy to search for new therapeutic options against neurodegenerative diseases This book as such is invaluable for students researchers and scientists of neurosciences pharmaceutical sciences and immunology      Cancer Nanotheranostics Muthupandian Saravanan, Hamed Barabadi, 2021-10-05 Nanotechnology is an interdisciplinary research field that integrates chemistry engineering biology and medicine Nanomaterials offer tremendous opportunity as well as challenges for researchers Of course cancer is one of the world's most common health problems responsible for many deaths Exploring efficient anticancer drugs could revolutionize treatment options and help manage cancer mortality Nanomedicine plays a significant role in developing alternative and more effective treatment strategies for cancer theranostics This book mainly focuses on the emerging trends using nanomaterials and nanocomposites as alternative anticancer materials The book is divided into three main topic areas how to overcome existing traditional approaches to combat cancer applying multiple mechanisms to target the cancer cells and how nanomaterials can be used as effective carriers The contents highlight recent advances in interdisciplinary research on processing morphology structure and properties of nanostructured materials and their applications to combat cancer Cancer Nanotheranostics is comprehensive in that it discusses all aspects of cancer nanotechnology Because of the vast amount of information it was decided to split this material into two volumes In the first volume of Cancer Nanotheranostics we discuss the role of different nanomaterials for cancer therapy including lipid based nanomaterials protein and peptide based

nanomaterials polymer based nanomaterials metal organic nanomaterials porphyrin based nanomaterials metal based nanomaterials silica based nanomaterials exosome based nanomaterials and nano antibodies In the second volume we discuss the nano based diagnosis of cancer nano oncology for clinical applications nano immunotherapy nano based photothermal cancer therapy nano erythrocytes for cancer drug delivery regulatory perspectives of nanomaterials limitations of cancer nanotheranostics the safety of nano biomaterials for cancer nanotheranostics multifunctional nanomaterials for targeting cancer nanotheranostics and the role of artificial intelligence in cancer nanotheranostics

**Nucleic Acid Nanotheranostics** Marco Filice, Jesús Ruiz-Cabello, 2019-02-26 *Nucleic Acid Nanotheranostics Biomedical Applications* offers a comprehensive overview of improvements and new trends in fabrication of nanostructures as theranostic multifunctional carriers in gene therapy With a strong focus on medical applications comprising diagnosis therapy and imaging the book also examines gene therapy in an individual patient's cells or tissues to treat genetic diseases Sections cover Biomedical and Diagnostic applications of Nucleic Acids Biologic and Synthetic Advanced Nanostructures for nucleic acid delivery and important considerations of nanomedicine This book is a valuable guide for materials scientists physicians chemists and engineers but is also ideal for clinicians wishing to expand their knowledge Provides a unique source of knowledge theoretical as well as practical on nanotheranostic materials for gene therapy at all levels and related scientific areas Covers the pros and cons related to viral and nanomaterial based delivery of nucleic acids in terms of biosafety carrier selection synthesis and bioimaging Presents the only book to include an analysis of nanoformulations approved for clinical use

*Nanobiomaterials* Xiumei Wang, Murugan Ramalingam, Xiangdong Kong, Lingyun Zhao, 2017-11-21 Written by an international team of editors and contributors from renowned universities and institutes this book addresses the latest research in the field of nanobiomaterials covering nanotechnologies for their fabrication developments in biomedical applications and the challenges of biosafety in clinic uses Clearly structured the volume defines the scope and classification of the field resulting in a broad overview from fundamental principles to current technological advances and from materials synthesis to biomedical applications along with future trends

*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 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     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     **Advances in Nanostructured Materials and Nanopatterning**

**Technologies** Vincenzo Guarino,Maria Letizia Focarete,Dario Pisignano,2020-02-13 Advances in Nanostructured Materials and Nanopatterning Technologies Applications for Healthcare Environment and Energy demonstrates how to apply micro and nanofabrication and bioextrusion based systems for cell printing electrophoretic deposition antimicrobial applications and nanoparticles technologies for use in a range of green industry sectors with an emphasis on emerging applications

*Application of Nanoparticles in Tissue Engineering* Sarah Afaq,Arshi Malik,Mohammed Tarique,2022-09-14 This book discusses advancements in the applications of nanoparticles in tissue engineering It examines the applications of nanobiomaterials in hard tissue regeneration fabrication and characterization The book also analyzes the implication of three dimensional and four dimensional fabrication techniques for the production of the scaffold in tissue engineering and their advantages over conventional scaffold production techniques Further it presents smart materials used in making 4 D scaffolds that imitate the dynamic response of tissue against natural stimuli and adapt to the microenvironment by changing

their conformation or other properties It also summarizes the growing field of biomolecular detection and biosensors in tissue engineering and the increasing prominence of nanoparticles in the biosensors Further it provides the future outlook and associated challenges of the application of nanomaterials in tissue engineering *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 **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 **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 **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 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

### **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

**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

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