

Nanostructure Science and Technology

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Nanomedicine

Principles of Nanomedicine



Springer

Nanomedicine Principles And Perspectives Nanostructure Science And Technology

Alain L. Fymat



Nanomedicine Principles And Perspectives Nanostructure Science And Technology:

Nanomedicine Yi Ge, Songjun Li, Shenqi Wang, Richard Moore, 2017-05-04 Increasing demand for and awareness of the applications of nanotechnology in medicine has resulted in the emergence of a new fast growing multidisciplinary area nanomedicine This book offers comprehensive knowledge of and diverse perspectives on nanomedicine through two independent volumes It aims to bridge the gap between nanotechnology and medicine through contributions by world renowned experts from wide range of backgrounds including academia industry professional consultancy and government agencies Each contribution integrates knowledge from a wide range of areas to present the fundamentals of new applications and products of nanomedicine as well as an outlook for the future This book can well serve as a reference and guide for students academics researchers scientists engineers clinicians government researchers and healthcare professionals

Nanomedicine Yi Ge, Songjun Li, Shenqi Wang, Richard Moore, 2014-12-02 Increasing demand for and awareness of the applications of nanotechnology in medicine has resulted in the emergence of a new fast growing multidisciplinary area nanomedicine This book offers comprehensive knowledge of and diverse perspectives on nanomedicine through two independent volumes It aims to bridge the gap between nanotechnology and medicine through contributions by world renowned experts from wide range of backgrounds including academia industry professional consultancy and government agencies Each contribution integrates knowledge from a wide range of areas to present the fundamentals of new applications and products of nanomedicine as well as an outlook for the future This book can well serve as a reference and guide for students academics researchers scientists engineers clinicians government researchers and healthcare professionals

Advances in Novel Formulations for Drug Delivery Raj K. Keservani, Rajesh Kumar Kesharwani, Anil K.

Sharma, 2023-02-08 ADVANCES in NOVEL FORMULATIONS for DRUG DELIVERY The 27 chapters describe novel strategies for drug nutraceutical delivery and embrace the development of formulations with herbal ingredients while also highlighting disease therapeutics Drug delivery technology has witnessed many advancements purported to cater to the customized needs of its ultimate beneficiaries the patients Today dosage forms are not confined to conventional tablets capsules or injectables but have evolved to cover novel drug carriers such as particulates vesicles and many others Nanotechnological advancements have played a major role in this paradigm shift in ways of delivering active pharmaceutical ingredients A new dimension in the use of food as medicine has also gained prominence in recent years A portmanteau of nutrition and pharmaceuticals is nutraceuticals also known as functional foods and dietary supplements The technologies which were earlier included in drug delivery have been attempted for the delivery of nutraceuticals as well Herbal actives have received increased attention due to their low risk to benefit ratio The field of drug delivery is quite dynamic in nature as witnessed by its evolution from conventional dosage forms to nanotechnology assisted drug products A variety of formulations via different drug delivery routes have been developed to treat cure mitigate diseases or disorders This book comprising of 27 chapters is

a thorough compilation of information relevant to drug delivery systems with an emphasis on products based on nanotechnology Audience Researchers scientists industry professionals formulators and product developers regulatory agencies in a variety of settings including novel drug delivery research laboratories pharmaceutical and pharmacy industries biomedical sciences food and nutraceuticals manufacturers and nanotechnology Nanopharmaceutical Advanced Delivery Systems Vivek Dave,Nikita Gupta,Srija Sur,2020-12-29 The book provides a single volume covering detailed descriptions about various delivery systems their principles and how these are put in use for the treatment of multiple diseases It is divided into four sections where the first section deals with the introduction and importance of novel drug delivery system The second section deals with the most advanced drug delivery systems like microbubbles dendrimers lipid based nanoparticles nanofibers microemulsions etc describing the major principles and techniques of the preparations of the drug delivery systems The third section elaborates on the treatments of diverse diseases like cancer topical diseases tuberculosis etc The fourth and final section provides a brief informative description about the regulatory aspects of novel drug delivery system that is followed in various countries

Nanomaterials in Bionanotechnology Ravindra Pratap Singh,Kshitij RB Singh,2021-08-17 Nanomaterials in Bionanotechnology Fundamentals and Applications offers a comprehensive treatment of nanomaterials in biotechnology from fundamentals to applications along with their prospects This book explains the basics of nanomaterial properties synthesis biological synthesis and chemistry and demonstrates how to use nanomaterials to overcome problems in agricultural environmental and biomedical applications Features Covers nanomaterials for environmental analysis and monitoring for heavy metals chemical toxins and water pollutant detection Describes nanomaterials based biosensors and instrumentation and use in disease diagnosis and therapeutics Discusses nanomaterials for food processing and packaging and agricultural waste management Identifies challenges in nanomaterials based technology and how to solve them This work serves as a reference for industry professionals advanced students and researchers working in the discipline of bionanotechnology

Handbook on Synthesis Strategies for Advanced Materials A. K. Tyagi,Raghumani S. Ningthoujam,2022-01-04 This book presents state of the art coverage of synthesis of advanced functional materials Unconventional synthetic routes play an important role in the synthesis of advanced materials as many new materials are metastable and cannot be synthesized by conventional methods This book presents various synthesis methods such as conventional solid state method combustion method a range of soft chemical methods template synthesis molecular precursor method microwave synthesis sono chemical method and high pressure synthesis It provides a comprehensive overview of synthesis methods and covers a variety of materials including ceramics films glass carbon based and metallic materials Many techniques for processing and surface functionalization are also discussed Several engineering aspects of materials synthesis are also included The contents of this book are useful for researchers and professionals working in the areas of materials and chemistry

Metrology and Standardization for Nanotechnology Elisabeth

Mansfield, Debra L. Kaiser, Daisuke Fujita, Marcel Van de Voorde, 2017-01-20 For the promotion of global trading and the reduction of potential risks the role of international standardization of nanotechnologies has become more and more important This book gives an overview of the current status of nanotechnology including the importance of metrology and characterization at the nanoscale international standardization of nanotechnology and industrial innovation of nano enabled products First the field of nanometrology nanomaterial standardization and nanomaterial innovation is introduced Second major concepts in analytical measurements are given in order to provide a basis for the reliable and reproducible characterization of nanomaterials The role of standards organizations are presented and finally an overview of risk management and the commercial impact of metrology and standardization for industrial innovations **Computational**

Drug Delivery Pooja A. Chawla, Dilpreet Singh, Kamal Dua, Muralikrishnan Dhanasekaran, Viney Chawla, 2024-10-07 The book bridges the gap between pharmaceuticals and molecular modelling at the micro meso and macro scale It covers Lipinski's rule of five nanoparticulate drug delivery computational prediction of drug solubility and ability to cross blood brain barrier computer based simulation of pharmacokinetic parameters virtual screening of mucoadhesive polymers QSPR modelling designing of 2D nanomaterials and role of principal component analysis **Anti-Corrosive Nanomaterials** Renhui

Zhang, Lei Guo, Ime Bassey Obot, 2023-08-15 Corrosion is a great challenge in many industries especially in the automotive aerospace and oil and gas industries with conservative estimations accounting for losses of around 2.2 trillion US dollars per year in the United States alone Providing a comprehensive overview of the history and development of nanomaterials this book discusses various practices for protection against corrosion Key Features Provides a comprehensive and updated review of major innovations in the field of nanomaterials in industrial corrosion and environmental science and engineering Encompasses design characterization mechanism and application of nanomaterials from different strategies on the efficacy and major challenges associated with successful scaleup designing Essential reference for present and future research in nanomaterials Includes relevant aspects of organic and inorganic nanomaterials hybrid nanomaterials and nanocoatings in anticorrosion applications Coalescing a wide range of research on nanomaterials and anticorrosion practices this book is of particular appeal to students industry professionals and academics *The British National Bibliography* Arthur James

Wells, 2009 **Nanomedicine and Nanobiotechnology** Stergios Logothetidis, 2012-01-15 This book presents the laboratory scientific and clinical aspects of nanomaterials used for medical applications in the fields of regenerative medicine dentistry and pharmacy It gives a broad overview on the in vitro compatibility assessment of nanostructured materials implemented in the medical field by the combination of classical biological protocols and advanced non destructive nano precision techniques with special emphasis on the topographical surface energy optical and electrical properties Materials in the physical form of nanoparticles nanotubes and thin films are addressed in terms of their toxicity The different pillars of the Nanomedicine field are also highlighted The book takes an interdisciplinary approach of medicine biology pharmacy physics

chemistry engineering nanotechnology and materials science The international group of authors specifically chosen for their distinguished expertise belong to the academic and industrial world in order to provide a broader perspective It appeals to researchers and graduate students

Nanomedicine Alain L. Fymat, 2021-10-28 Nanotechnology includes diverse fields of engineering and science and may be able to create many new materials and devices with a vast range of applications in nanomedicine nanoelectronics biomaterials energy production consumer products etc The effects of artificial nanomaterials on the human body have long been known as many practical uses of nanoparticles go back a long time but medical applications are of special relevance As a medical application of nanotechnology nanomedicine is focused on harnessing nanotechnology to effectively diagnose treat and prevent various diseases It aims to efficiently deliver medications that have been reduced minimized to the necessary dosages and in the places where they are needed it results in improved outcomes with less medication and less or no adverse reactions or side effects In 1995 approval of the very first nano therapeutic product Doxil is generally viewed as the dawn of nanomedicine for human use In 2021 the COVID 19 pandemic created an urgent need for an effective vaccine Nanotechnology played an important role in enabling the development of messenger RNA vaccines that have since been administered worldwide and may provide a novel platform for vaccine designs Biological processes including the ones necessary for life and those that lead to cancer occur at the nanoscale Accordingly nanobiotechnology provides us with the opportunity to study and manipulate macromolecules in real time during the earliest stages of cancer progression the possibility of rapidly and sensitively detecting cancer related molecules enabling us to detect molecular changes even when they occur only in a small percentage of cells and the potential to generate entirely novel and highly effective therapeutic agents It also offers important benefits for diagnosis by providing new molecular contrast agents and materials to enable an earlier and more accurate initial diagnosis as well as continual monitoring of cancer patients during their treatment It offers the means to target chemotherapies directly and selectively to cancerous cells and neoplasms guide in surgical resection of tumors and enhance the therapeutic efficacy of radiation based and other treatment modalities all of which add up to a decreased risk to the patient and an increased probability of survival Another promising application of nanomedicine principles is in clinical neuroscience particularly in the treatment of neurological disorders epilepsy Parkinson s disease Alzheimer s disease etc While nanomedicine has not yet fully delivered on its promises it remains an important new vista in medicine in the several instances covered in this book

Light-Responsive Nanostructured Systems for Applications in Nanomedicine Salvatore Sortino, 2015-11-20 The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within

the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field Review articles for the individual volumes are invited by the volume editors Readership research chemists at universities or in industry graduate students

Nanomedicine for Drug Delivery and Therapeutics Ajay Kumar Mishra,2013-02-01 This book describes a broad area of nanomedicine which involves mainly applications diseases and diagnostics The comprehensive coverage provides researchers academics and health specialists with a great tool that includes techniques applicable to various uses

Medical Nanotechnology and Nanomedicine Harry F. Tibbals,2017-12-19 Considering the fluid nature of nano breakthroughs and the delicate balance between benefits and consequences as they apply to medicine readers at all levels require a practical understandable base of information about these developments to take greatest advantage of them Medical Nanotechnology and Nanomedicine meets that need by introducing non experts to nanomedicine and its evolving organizational infrastructure This practical reference investigates the impact of nanotechnology on applications in medicine and biomedical sciences and the broader societal and economic effects Eschewing technological details it focuses on enhancing awareness of the business regulatory and administrative aspects of medical applications It gives readers a critical balanced and realistic evaluation of existing nanomedicine developments and future prospects an ideal foundation upon which to plan and make decisions Covers the use of nanotechnology in medical applications including imaging diagnosis and monitoring drug delivery systems surgery tissue regeneration and prosthetics Part of the Perspectives in Nanotechnology series which contains broader coverage of the societal implications of nanotechnology this book can be used as a standalone reference Organized by historical perspective current status and future prospects this powerful book Explores background definitions and terms and recent trends and forces in nanomedicine Surveys the landscape of nanomedicine in government academia and the private sector Reviews projected future directions capabilities sustainability and equity of nanomedicine and choices to be made regarding its use Includes graphical illustrations references and keywords to reinforce concepts and aid further research In its assessment of alternative and sometimes conflicting concepts proposed for the application of nanotechnology to medicine this book surveys major initiatives and the work of leading labs and innovators It uses informative examples and case summaries to illustrate proven accomplishments and imagined possibilities in research and development

Perspectives In Micro- And Nanotechnology For Biomedical Applications Juliana M Chan,Chenjie Xu,2016-07-28 Perspectives in Micro and Nanotechnology for Biomedical Applications is an exciting new book that takes readers inside the fast paced world of biomedical sciences fueled by advancements in nanotechnology polymer chemistry and

pharmacology Guided by biotech researchers Chenjie Xu and Juliana Chan an international ensemble of leading experts in the field cover topics ranging from classical chemical tools to nanoparticles as imaging probes and drug carriers and combinatorial screens for new lipids and polymers At the microscale it discusses advancements in hydrogels and platform technologies such as cell ghosts This book provides a broad perspective into the basic principles and applications of today's most promising micro and nanotechnologies and is an up to date reference book for researchers It is also suitable for undergraduate and graduate students patent lawyers and investors who are interested in the latest innovations taking place in the biomedical sciences many of which may dramatically improve the lives of millions of people

Introduction to Nanomaterials in Medicine Mohammad Rabiee, Navid Rabiee, Reza Salarian, Ghazal Rabiee, 2019-03-21 Advancement in the field of nanotechnology has revolutionized the field of medicines and pharmaceuticals in the twentieth century The proper use of nanomaterials in medical applications requires a proper understanding of these compounds This correct understanding beyond the physical and chemical properties must also have the correct logic of use In other words the strategic use of nanomaterials with applicable perspective can also help to advance research but if we go forward with the current research perspective that leads to the expansion of inapplicable researches the intrinsic importance of using these nanomaterials is eliminated This book considering the importance of nanomaterials and their application in medicine as well as the significant growth of biomaterials in research fields introduces the variables law Rabiee's theory for the implementation of this research and the establishment of a proper strategy Considering that the degree of number of biomaterial and host variables follow a variety factors and by increasing the degree of number of biomaterials and host variables the degree of total variables also increases and as a result performance and consequently biomaterial behavior in the host environment will have less control and predictive capabilities For an external substance that is supposed to be in the human body it must be predictable and controllable In addition according to the principle that the host in a fixed person does not have the ability to change therefore by using the simpler biomaterials with less variables the above goal is more accessible It should be noted that in addition to observing biocompatibility tests for a biomaterial based on existing protocols and standards the Applicable Compatibility AC parameter is also required in accordance with Rabiee's theory This book is written in accordance with Rabiee's theory and the contents of this book should be evaluated from this perspective

21st Century Nanoscience - A Handbook Klaus D. Sattler, 2020-04-22 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field This eighth volume in a ten volume set covers nanopharmaceuticals nanomedicine and food

nanoscience Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanophysics extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond **Principles of Nanomedicine**

Sourav Bhattacharjee,2019-10-18 The scope of nanotechnology in medical applications has expanded fast in the last two decades With their unprecedented material properties nanoscale materials present with unorthodox opportunities in a wide range of domains including drug delivery and medical imaging This book assembles the various facets of nanomedicine while discussing key issues such as physicochemical properties that enhance the appeal of nanomedicine The book is an excellent resource for physicians PhDs and postdocs involved in nanomedicine research to learn and understand the scope and complexity of the subject It begins with a short history of nanotechnology followed by a discussion on the fundamental concepts and extraordinary properties of nanoscale materials and then slowly unfolds into multiple chapters illustrating the uses of various nanomaterials in drug delivery sensing and imaging Nanomedicines for Breast Cancer Theranostics

Nanasaheb D. Thorat,Brigitte von Rechenberg,Joanna Bauer,2020-03 In recent years the commercialization of nanomedicine drugs and products has steadily increased Currently more than 250 nanomedicine products are identified on the market and many others are under clinical development for different therapeutic areas including in cancer infectious diseases diabetes cardiovascular and neurodegenerative diseases More than 80 nano products focus on cancer theranostics Nanomedicines for Breast Cancer Theranostics addresses translational aspects and clinical perspectives of breast cancer nanomedicine from a multidisciplinary perspective The book summarizes research efforts at the preclinical and clinical stage of nanostructures and nanomedicine for dealing with the important challenge of nanomedicine translation in breast cancer theranostics This book is an important resource for those working in both academia and industry focusing in the areas of biomaterials biomedical engineering drug delivery and oncology

Reviewing **Nanomedicine Principles And Perspectives Nanostructure Science And Technology**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Nanomedicine Principles And Perspectives Nanostructure Science And Technology**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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