

Nanostructure Science and Technology

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Nanomedicine

Principles of Nanomedicine



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Nanostructure Science And Technology

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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

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

Solar Cells S. K. Sharma, Khuram Ali, 2020-01-07 This book addresses the rapidly developing class of solar cell materials and designed to provide much needed information on the fundamental principles of these materials together with how these are employed in photovoltaic applications A special emphasize have been given for the space applications through study of radiation tolerant solar cells This book present a comprehensive research outlining progress on the synthesis fabrication and application of solar cells from fundamental to device technology and is helpful for graduate students researchers and technologists engaged in research and development of materials

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

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

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

Handbook of Nanoencapsulation Jasmeet Kour, Raees Ul Haq, Sajad Ahmad Wani, Bhaskar Jyoti, 2023-04-05 Nutraceutical encapsulation envelopes protection of products from oxidative damage controlled delivery of nanoencapsulated nutraceuticals and improved nutraceutical bioavailability as well as biological action It is a promising technique to ensure the stabilization of such labile compounds and to protect the core ingredients from premature reactions and interactions In a comprehensive manner the Handbook of Nanoencapsulation Preparation Characterization Delivery and Safety of Nutraceutical Nanocomposites presents various nanosystems nanocarriers physical and chemical techniques used in encapsulation of various nutraceuticals and the targeted delivery of various significant nutraceuticals This book bridges the gap between academia and research as it encompasses the ubiquitous applications of nanoencapsulation technique used on significant nutraceuticals derived from plants animals as well as microalgae Key Features Provides a quick and easy access to major plant animal and microalgae derived nutraceutical ingredients Discusses nanoencapsulation techniques for protection and targeted release of various food bioactive ingredients Covers safety bioaccessibility and multiple applications of nanoencapsulated nutraceuticals in the food industry Unveiling pivotal aspects of nanoencapsulation of significant nutraceuticals this book is a valuable resource for researchers food toxicologists food scientists nutritionists and scientists in medicinal research

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

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British National Bibliography Arthur James Wells,2006 *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 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

Nanomaterials and Nanotechnology in Medicine Visakh P. M.,2022-09-13 NANOMATERIALS AND NANOTECHNOLOGY IN MEDICINE A comprehensive introduction to nanomaterials and their application in the field of medicine The use of nanotechnology and nanomaterials more generally is an emerging field that has generated a lot of interest in the last few years To this point there have been few books that deal with the recent advances in nanomaterials or nanocomposites in the medical discipline Intended as a one stop reference Nanomaterials and Nanotechnology in Medicine provides the reader with the most up to date and comprehensive exploration of the field of nanomedicine The scope of the topic is huge with nano applications in every medical specialization from diagnostics to pharmaceuticals from biological therapies to surgical devices and from regenerative therapies to gene therapy As such this volume provides the most comprehensive coverage of this intriguing field of study Nanomaterials and Nanotechnology in Medicine readers will also find An application oriented book dedicated towards helping researchers find solutions to both fundamental and applied problems Chapters written by leading researchers from industry academy government and private research institutions across the globe Nanomaterials and Nanotechnology in Medicine is a useful reference for medical doctors medical practitioners post doctoral research fellows senior graduate students and medical libraries

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

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

Handbook of Materials for Nanomedicine Vladimir Torchilin, 2020-03-16 In the fast developing field of nanomedicine a broad variety of materials have been used for the development of advanced delivery systems for drugs genes and diagnostic agents With the recent

breakthroughs in the field we are witnessing a new age of disease management which is governed by precise regulation of dosage and delivery This book presents the advances in the use of metal based and other nanomaterials for medical imaging diagnosis theranostics and drug delivery It discusses silver hybrid gold and surface modified magnetic nanoparticles fluorescent quantum dots lipid bubbles and nanobubbles It provides all available information about these materials and describes in detail their advantages and disadvantages and the areas where they could be utilized successfully The text also covers topics such as improving bioactivity of poorly soluble actives cellular and molecular toxicology of nanoparticles and biofate of nanoemulsions

Nanomedicine in Brain Diseases Xue Xue, 2019-11-07 This book provides an overview of the current applications of nanomaterials in brain diseases and introduces several novel nanomaterials that have excellent potential in this field During the last two decades nanotechnology had matured significantly as it has transitioned from a bench top science to an applied technology However the application of nanomaterials in basic and clinical neuroscience is still at an early stage and understanding how the intrinsic properties of nanomaterials translate to complex biological responses is an area of intensive research Part 1 of the book focuses on the principles and strategies of nanomedicine in the brain diseases while part 2 examines the applications of promising nanomaterials for therapy and diagnosis in the brain Together they offer a comprehensive picture of advances in nanotechnology and their successful use in treating brain diseases in the past 20 years

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