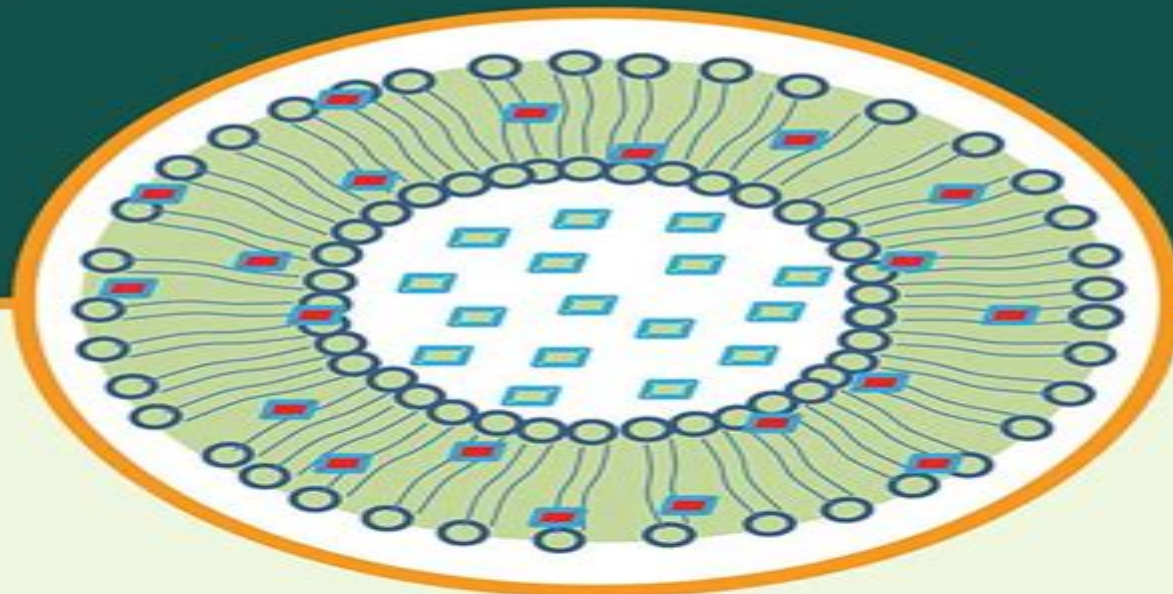


Jenny Stanford
Series on
Biomedical
Nanotechnology
Volume 6

— Handbook of — Materials for Nanomedicine

Lipid-Based and Inorganic Nanomaterials



edited by
Vladimir Torchilin



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Handbook Of Materials For Nanomedicine Pan Stanford Series On Biomedical Nanotechnology

Sabine Zange



Handbook Of Materials For Nanomedicine Pan Stanford Series On Biomedical Nanotechnology:

Handbook of Materials for Nanomedicine Vladimir Torchilin, Mansoor M. Amiji, 2011-11 The fast developing field of nanomedicine uses a broad variety of materials to serve as delivery systems for drugs genes and diagnostic agents This book is the first attempt to put under one cover all major available information about these materials both still on experimental levels and already applied in patients

Biomedical Nanosensors Joseph M. Irudayaraj, 2012-11-21 This book draws together recent data on both cytoplasmic and flagellar dyneins and the proteins they interact with to give the reader a clear picture of what is currently known about the structure and mechanics of these remarkable macro molecular machines Each chapter is written by active researchers with a focus on currently used biophysical biochemical and cell biological methods In addition to comprehensive coverage of structural information gained by electron microscopy electron cryo tomography X ray crystallography and nuclear magnetic resonance this book provides detailed descriptions of mechanistic experiments by single molecule nanometry

Handbook of Safety Assessment of Nanomaterials Bengt Fadeel, 2014-12-10 The rapidly evolving field of nanomedicine refers to the clinical application of nanotechnologies However as with all new technologies there are ethical safety and regulatory issues This handbook written by leading international experts provides a meticulous overview of the state of the art of safety assessment of nanomaterials nanotoxicology in the context of their application in nanomedicine The volume includes a historical perspective on the development of nanomedicine and its regulation and a personal view of the future of nano medicine by Patrick Hunziker president of the European Society of Nanomedicine Ethical considerations in relation to nanomedicine are discussed There are a series of chapters on organ specific toxicities of nanomaterials including pulmonary and cardiovascular toxicity neurotoxicity dermatotoxicity and reproductive toxicity as well as a discussion on immunotoxicity and genotoxicity The importance of a thorough characterization of physicochemical properties of nanomaterials is emphasized The handbook also contains a critical discussion on the applicability of in vitro versus in vivo methods and models for nanosafety assessment along with an introduction to mathematical modeling approaches with a view to a predictive toxicology of nanomaterials The overall aim is to provide a comprehensive science based framework for safety assessment of current and future nanomedicines

Nanoimaging Beth A. Goins, William T. Phillips, 2011-09-07 The first resource of its kind this book covers cutting edge research on the use of nanoparticles for in vivo diagnostic medical imaging and therapy It discusses a variety of nanoparticles including quantum dots carbon nanotubes dendrimers gold nanoshells metal nanorods micelles liposomes polymers MRI iron oxide particles and microbubbles Examples in the book include multifunctional nanoparticles that designed for multimodality imaging and simultaneous diagnostic and therapy theranostic applications

Nanotechnology for the Delivery of Therapeutic Nucleic Acids Dan Peer, 2013-03-27 Nucleic acid NA therapeutics has been extensively studied both in the academia and in the pharmaceutical industry and is still considered the promise for new therapeutic modalities especially in personalized medicine The only

hurdle that limits the translation of NA therapeutics from an academic idea to the new therapeutic modality is the lack of efficient and safe delivery strategies Nanotechnology for the Delivery of Therapeutic Nucleic Acids written by world experts in the field of nanotechnology for NA delivery the contributing authors bring together the state of the art in delivery strategies with strong emphasis on aspects that are of essence to the pharmaceutical industry such as stability general toxicity immune toxicity pharmacokinetics efficacy and validation of new drug targets using unique approaches based on exquisite nanotechnology strategies

Ultrasonic Synthesis of Functional Materials Muthupandian

Ashokkumar,2016-01-11 This book begins by giving a summary of sonochemistry and explains how a chemical reaction can be induced by the interaction of sound waves and gas bubbles in liquids The work outlines how primary and secondary radicals combined with the physical effects generated during acoustic cavitation are active in the ultrasonic synthesis of a variety of functional materials The brief covers hot topics that include ultrasonic synthesis of various functional materials covering the following broad areas acoustic cavitation and sonochemistry synthesis of functional polymers and their applications synthesis of functional inorganic materials and their applications improving functionality of food dairy systems synthesis of functional biomaterials and their applications synthesis of graphene based catalytic materials Theory is kept to a minimum The book is aimed at individuals at universities and will also interest those in industry It is suitable for all levels

Nanocosmetics Jean Cornier,Cornelia M. Keck,Marcel Van de Voorde,2019-06-14 This book addresses the application of nanotechnology to cosmetics Edited by three respected experts in the field the book begins with a general overview of the science behind cosmetics and skin care today and of the status quo of nanotechnology in cosmetics Subsequent chapters provide detailed information on the different nanoparticles currently used in cosmetics the production and characterization of nanoparticles and nanocosmetics and regulatory safety and commercialization aspects Given its scope the book offers an indispensable guide for scientists in academia and industry technicians and students as well as a useful resource for decision makers in the field and consumer organizations Chapter 6 of this book is available open access under a CC BY 4 0 licence at link.springer.com

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 polymeric nanomaterials for medical imaging diagnosis theranostics and drug delivery Beginning with the combinatorial approach for polymer design it discusses star shaped amphiphilic polymers self assembling polymer drug conjugates amphiphilic dendrimers dendrimer nanohybrids sustainable green polymeric nanoconstructs chitosan based nanogels and multifunctional hybrid nanogels The book provides all available information about these materials and describes in detail their advantages and disadvantages and the areas where they could be utilized successfully

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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

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

Handbook of Clinical Nanomedicine Raj Bawa, Gerald F. Audette, Israel Rubinstein, 2016-02-22 This handbook 55 chapters provides a comprehensive roadmap of basic research in nanomedicine as well as clinical applications However unlike other texts in nanomedicine it not only highlights current advances in diagnostics and therapeutics but also explores related issues like nomenclature historical developments regulatory aspects nanosim

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for Nanomedicine Vladimir Torchilin, 2020-03-12 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 lipid based and inorganic nanomaterials for medical imaging diagnosis theranostics and drug delivery The materials discussed include liposome scaffold systems elastic liposomes targeted liposomes solid lipid nanoparticles lipoproteins exosomes porous inorganic nanomaterials silica nanoparticles and inorganic nanohybrids The book provides all available information about them and describes in detail their advantages and disadvantages and the areas where they could be utilized successfully

Handbook of Nanobiomedical Research Vladimir Torchilin, 2014 This book consists of 4 volumes containing about 70 chapters covering all the major aspects of the growing area of nanomedicine Leading scientists from 15 countries cover all major areas of nanobiomedical research materials for nanomedicine application of nanomedicine in therapy of various diseases use of nanomedicines for diagnostic purposes technology of nanomedicines and new trends in nanobiomedical research This is the first detailed handbook specifically addressing various aspects of nanobiomedicine Readers are treated to cutting edge research and the newest data from leading researchers in this area Contents Materials for Nanomedicine Liposomal Nanomedicines Amr S Abu Lila Tatsuhiko Ishida and Theresa M Allen Solid Lipid Nanoparticles for Biomedical Applications Karsten Mader Micellar Nanopreparations for Medicine Rupa Sawant and Aditi Jhaveri Nanoemulsions in Medicine William B Tucker and Sandro Mecozzi Drug Nanocrystals and Nanosuspensions in Medicine Leena Peltonen Jouni Hirvonen and Timo Laaksonen Polymeric Nanosystems for Integrated Image Guided Cancer Therapy Amit Singh Arun K Iyer and Mansoor M Amiji Polysaccharide Based Nanocarriers for Drug Delivery Carmen Teijeiro Adam McGlone Noemi Csaba Marcos Garcia Fuentes and Maria J Alonso Dendrimers for Biomedical Applications Lisa M Kaminskas Victoria M McLeod Seth A Jones Ben J Boyd and Christopher J H Porter Layer by Layer Nanopreparations for Medicine Smart Polyelectrolyte Multilayer Capsules and Coatings Rawil F Fakhrullin Gleb B Sukhorukov and Yuri M Lvov Inorganic Nanopreparations for Nanomedicine James Ramos and Kaushal Rege Silica Based Nanoparticles for Biomedical Imaging and Drug Delivery Applications Stephanie A Kramer and Wenbin Lin Carbon Nanotubes in Biomedical Applications Krunal K Mehta Elena E Paskaleva Jonathan S Dordick and Ravi S Kane Core Shell Nanoparticles for Biomedical Applications Mahmoud Elsabahy and Karen L Wooley Structure Activity Relationships for Tumor Targeting Gold Nanoparticles Erik C Dreaden Ivan H El Sayed and Mostafa A El Sayed Silver Nanoparticles as Novel Antibacterial and Antiviral Agents Stefania Galdiero Annarita Falanga Marco Cantisani Avinash Ingle Massimiliano Galdiero and Mahendra Rai Magnetic Nanoparticles for Drug Delivery Rainer Tietze Harald Unterwiesing and Christoph Alexiou Quantum Dots as a Platform Nanomaterial for Biomedical Applications Eleonora Petryayeva Roza Bidshahri Kate Liu Charles A Haynes Igor L Medintz and W Russ Algar Applications in Therapy The Application of

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Applications of Nanotechnology in Drug

Discovery and Delivery Chukwuebuka Egbuna, Mihnea-Alexandru Găman, Jaison Jeevanandam, 2022-08-17 Applications of Nanotechnology in Drug Discovery and Delivery in the Drug Discovery Update series presents complete coverage of the application of nanotechnology in the discovery of new drugs and efficient target delivery of drugs The book highlights recent advances of nanotechnology applications in the biomedical sciences starting with chapters that provide the basics of nanotechnology nanoparticles and nanocarriers Part II deals with the application of nanotechnology in drug discovery with an emphasis on enhanced delivery of pharmaceutical products with Part III discussing toxicological and safety issues arising from the use of nanomaterials This book brings together a global team of experts making it an essential resource for researchers drug developers medicinal chemists toxicologists and analytical chemists Serves as a guide to drug developers working in pharma biotech and academia bringing together the latest research on the topic Presents recent information on the use of nanomaterials for the development of drugs using engineered nanocarriers to target specific delivery Features a global team of contributing experts who discuss nanotechnology applications in drug discovery as well as safety issues and challenges

Handbook of Nanoethics Gunjan Jeswani, Marcel Van de Voorde, 2021-09-07 With nanotechnology being a relatively new field the questions regarding safety and ethics are steadily increasing with the development of the research This book aims to give an overview on the ethics associated with employing nanoscience for products with everyday applications The risks as well as the regulations are discussed and an outlook for the future of nanoscience on a manufacturer's scale and for the society is provided Handbook of Nanoethics is perfect for academicians and scientist as well as all other industry professionals and researchers It is a good introduction for newcomers in the field who do not want to dive deep into the details but are eager to understand the ethical challenges and possible solution related to nanotechnology and ethics

Low-Dimensional Materials, Systems, and Applications, Volume 2 Purushottam Chakraborty, Dambarudhar Mohanta, 2025-10-13 Low Dimensional Materials Systems and Applications Volume 2 Principles Methods and Approaches in Biomedicine and Bioengineering showcases the complexities and uniqueness of low dimensional materials and highlights the most recent discoveries in the fields of biomedicine and bioengineering Low dimensional

nanoscale materials are challenging as they exhibit properties distinctly different from their bulk counterparts There is an exponential increase of reactivity at the molecular level due to high surface to volume ratios in these materials and not only are their electronic optical and chemical properties different so too are their mechanical characteristics This book highlights the state of the art theoretical and experimental descriptions of the complexities unique properties and latest applications of low dimensional materials with a particular focus on the fields of biomedicine and bioengineering The book is primarily for researchers working on the simulation fabrication analysis and uses of low dimensional nanoscale materials including biotechnologists materials scientists and chemists Serves as a comprehensive ready reference for beginners researchers and expert practitioners working on the understanding and manipulation of low dimensional structures in biomedicine and bioengineering Presents the latest theoretical and experimental approaches and complexities of low dimensional materials research Features contributions from leading experts in the field of low dimensional materials

Theranostics and Image Guided Drug Delivery Maya Thanou, 2018-01-02 Molecular imaging of drugs or drug carriers is a valuable tool that can provide important information on spatiotemporal distribution of drugs allowing improved drug distribution at target sites Chemically labelled drugs can be used to both diagnose and treat diseases This book introduces the topic of image guided drug delivery and covers the latest imaging techniques and developments in theranostics highlighting the interdisciplinary nature of this field as well as its translational ability These technologies and techniques hold potential for individualised safer therapies The book introduces the chemistry behind labelling drugs or drug carriers for imaging It then discusses current scientific progress in the discovery and development of theranostic agents as well as the latest advances in triggered drug delivery Novel imaging techniques that can be combined with therapeutics are presented as well as results and findings from early clinical trials This text will provide postgraduates and researchers in various disciplines associated with drug discovery including chemistry device engineering oncology neurology cardiology imaging and nanoscience an overview of this important field where several disciplines have been combined to improve treatments Readers will be introduced to techniques that can be translated to the clinic and be applied widely

The Nanotechnology Revolution Dale A. Stirling, 2018-01-17 Nanotechnology is changing the world in a very big way but at the atomic and sub atomic level Although the roots of nanotechnology can be traced back to more than a century ago the last three decades have witnessed an explosion of nano based technologies and products This reference work examines the history current status and future directions of nanotechnology through an exhaustive search of the technical and scientific literature The more than 4000 bibliographic citations it includes are carefully organized into core subject areas and a geographic and subject index allows readers to quickly locate documents of interest Although a sense of the global reach and interest in nanotechnology can be gleaned from the reference sections of countless journal articles conference papers and books this is the only reference work providing an in depth global perspective that is ready made for nanotechnology professionals and those interested in learning

more about all things nanotechnology Despite the abundance of online resources there is still an urgent need for well researched well presented concise and thematically organized reference works Instead of relying on wiki pages citation aggregators and related websites the author searched the databases and databanks of scholarly literature search providers such as EBSCO ProQuest PUBMED STN International and Thomson Reuters In addition he used select serials related databases to account for pertinent documents from countries in which English is not the primary national language i e China Online Journals e periodica J STAGE and SciELO Brazil among others

Cerium Oxide Nanoparticles and Gadolinium Integration Peter Eriksson, 2019-08-29 A challenging task in the area of magnetic resonance imaging is to develop contrast enhancers with built in antioxidant properties Oxidative stress is considered to be involved in the onset and progression of several serious conditions such as Alzheimer s and Parkinson s disease and the possibility to use cerium contained nanoparticles to modulate such inflammatory response has gained a lot of interest lately The rare earth element gadolinium is due to its seven unpaired f electrons and high symmetry of the electronic state a powerful element for contrast enhancement in magnetic resonance imaging Chelates based on gadolinium are the most commonly used contrast agents worldwide When introducing external contrast agents there is always a risk that it may trigger inflammatory responses why there is an urgent need for new tailor made contrast agents Small sized cerium oxide nanoparticles have electronic structures that allows coexistence of oxidation states 3 and 4 of cerium which correlates to applicable redox reactions in biomedicine Such cerium oxide nanoparticles have recently shown to exhibit antioxidant properties both in vitro and in vivo via the mechanisms involving enzyme mimicking activity This PhD project is a comprehensive investigation of cerium oxide nanoparticles as scaffold materials for gadolinium integration Gadolinium is well adopted into the crystal structure of cerium oxide enabling the combination of diagnostic and therapeutic properties into a single nanoparticle The main focus of this thesis project is to design cerium oxide nanoparticles with gadolinium integration A stepwise approach was employed as follows 1 synthesis with controlled integration of gadolinium 2 material characterization by means of composition crystal structure size and size distribution and 3 surface modification for stabilization The obtained nanoparticles exhibit remarkable antioxidant capability in vitro and in vivo They deliver strongly enhanced contrast per gadolinium in magnetic resonance imaging compared to commercially available contrast agents A soft shell of dextran is introduced to encapsulate the cerium oxide nanoparticles with integrated gadolinium which protects and stabilizes the hard core and to increases their biocompatibility The dextran coating is clearly shown to reduce formation of a protein corona and it improves the dispersibility of the nanoparticles in cell media Functionalization strategies are currently being studied to endow these nanoparticles with specific tags for targeting purposes This will enable guidance of the nanoparticles to a specific tissue for high local magnetic resonance contrast complemented with properties for on site reduced inflammation In conclusion our cerium oxide nanoparticles with integrated gadolinium exhibit combined therapeutic and diagnostic i e theragnostic

capabilities This type of nanomaterial is highly promising for applications in the field of biomedical imaging *Green Polymeric Nanocomposites* Satya Eswari Jujjavarapu, Krishna Mohan Poluri, 2020-01-28 Covering fundamentals through applications this book discusses environmentally friendly polymer nanocomposites and alternatives to traditional nanocomposites through detailed reviews of a variety of materials procured from different resources their synthesis and applications using alternative green approaches The text Describes green polymeric nanocomposites that show greater properties in terms of degradability biocompatibility synthesis process cost effectiveness mechanical strength high surface area nontoxicity and environmental friendliness Explains the basics of eco friendly polymer nanocomposites from different natural resources and their chemistry Discusses practical applications that present future directions in the biomedical pharmaceutical and automotive industries This book is aimed at scientists researchers and academics working in nanotechnology biomaterials polymer science and those studying products derived from eco friendly nanomaterials

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