CARBON NANOSTRUCTURES

Rüdiger Klingeler
Robert B. Sim
Editors

Carbon Nanotubes for Biomedical Applications

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Carbon Nanotubes For Biomedical Applications Carbon Nanostructures

Jeenat Aslam,Chaudhery Mustansar Hussain,Ruby Aslam

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Carbon Nanotubes for Biomedical Applications Rüdiger Klingeler,Robert B. Sim,2011-02-09 This book explores the potential of multi functional carbon nanotubes for biomedical applications It combines contributions from chemistry physics biology engineering and medicine The complete overview of the state of the art addresses different synthesis and biofunctionalisation routes and shows the structural and magnetic properties of nanotubes relevant to biomedical applications Particular emphasis is put on the interaction of carbon nanotubes with biological environments i e toxicity biocompatibility cellular uptake intracellular distribution interaction with the immune system and environmental impact The insertion of NMR active substances allows diagnostic usage as markers and sensors e g for imaging and contactless local temperature sensing The potential of nanotubes for therapeutic applications is highlighted by studies on chemotherapeutic drug filling and release targeting and magnetic hyperthermia studies for anti cancer treatment at the cellular level

Carbon Nanostructures for Biomedical Applications Tatiana Da Ros,Nazario Martín,Jean-Francois Nierengarten,2021-02-15 Edited by renowned experts in the subject this book collects and delineates the most notable advances within the growing field surrounding carbon nanostructures for biomedical purposes **Carbon Nanotubes for Biomedical Applications** Rüdiger Klingeler,Robert B. Sim,2011-07-23 This book explores the potential of multi functional carbon nanotubes for biomedical applications It combines contributions from chemistry physics biology engineering and medicine The complete overview of the state of the art addresses different synthesis and biofunctionalisation routes and shows the structural and magnetic properties of nanotubes relevant to biomedical applications Particular emphasis is put on the interaction of carbon nanotubes with biological environments i e toxicity biocompatibility cellular uptake intracellular distribution interaction with the immune system and environmental impact The insertion of NMR active substances allows diagnostic usage as markers and sensors e g for imaging and contactless local temperature sensing The potential of nanotubes for therapeutic applications is highlighted by studies on chemotherapeutic drug filling and release targeting and magnetic hyperthermia studies for anti cancer treatment at the cellular level **Carbon Nanostructures in Biomedical Applications** Md Saquib Hasnain,Amit Kumar Nayak,Saad Alkahtani,2023-05-04 This book provides a holistic compilation on applications of carbon nanostructures especially in advanced healthcare applications It comprises chapters on utility of diverse multifunctional nanocarriers in drug delivery and biomedical applications especially emphasizing on the synthesis and characterizations of nanosystems along with surface engineering approaches used for active targeting of the drugs Moreover the chapters also include the recent updates on the applications of the nanocarriers to fulfill the needs of various healthcare systems **Carbon Nanomaterials for Biomedical Applications** Mei Zhang,Rajesh R. Naik,Liming Dai,2015-11-06 This book covers a wide range of topics relating to carbon nanomaterials from synthesis and functionalization to applications in advanced biomedical devices and systems As they possess unique and attractive chemical physical optical

and even magnetic properties for various applications considerable effort has been made to employ carbon nanomaterials e g fullerenes carbon nanotubes graphene nanodiamond as new materials for the development of novel biomedical tools such as diagnostic sensors imaging agents and drug gene delivery systems for both diagnostics and clinical treatment Tremendous progress has been made and the scattered literature continues to grow rapidly With chapters by world renowned experts providing an overview of the state of the science as well as an understanding of the challenges that lie ahead Carbon Nanomaterials for Biomedical Applications is essential reading not only for experienced scientists and engineers in biomedical and nanomaterials areas but also for graduate students and advanced undergraduates in materials science and engineering chemistry and biology **Carbon Nanomaterials for Bioimaging, Bioanalysis, and Therapy** Yuen Y. Hui,Huang-Cheng Chang,Haifeng Dong,Xueji Zhang,2019-01-29 A comprehensive reference on biochemistry bioimaging bioanalysis and therapeutic applications of carbon nanomaterials Carbon nanomaterials have been widely applied for biomedical applications in the past few decades because of their unique physical properties versatile functionalization chemistry and biological compatibility This book provides background knowledge at the entry level into the biomedical applications of carbon nanomaterials focusing on three applications bioimaging bioanalysis and therapy Carbon Nanomaterials for Bioimaging Bioanalysis and Therapy begins with a general introduction to carbon nanomaterials for biomedical applications including a discussion about the pros and cons of various carbon nanomaterials for the respective therapeutic applications It then goes on to cover fluorescence imaging deep tissue imaging photoacoustic imaging pre clinical clinical bioimaging applications carbon nanomaterial sensors for cancer and disease diagnosis targeted cancer therapy and photothermal photodynamic therapy Each chapter briefly introduces the biomedical application and emphasizes the most appropriate carbon nanomaterial s for the application Provides an introduction to the biomedical applications of carbon nanomaterials for early career scientists as well as background and context for mid career scientists and researchers Contains four sections covering biochemistry bioimaging bioanalysis and therapeutic applications of carbon nanomaterials Presented by experts who have strong background in the field of nanotechnology for biomedical applications Covers a hot area of research which has very unique physical properties versatile functionalization chemistry and biological compatibility Carbon Nanomaterials for Bioimaging Bioanalysis and Therapy is an excellent resource for academic researchers and industrial scientists working on preparation and bio application of carbon nanomaterials biomedical engineering and nanotechnology *Functionalized Carbon Nanotubes for Biomedical Applications* Jeenat Aslam,Chaudhery Mustansar Hussain,Ruby Aslam,2023-02-14 FUNCTIONALIZED CARBON NANOTUBES FOR BIOMEDICAL APPLICATIONS The book highlights established research and technology on current and emerging trends and biomedical applications of functionalized carbon nanotubes by providing academic researchers and scientists in industry as well as high tech start ups with knowledge of the modern practices that will revolutionize using functionalized carbon nanotubes Nanotechnology suggests fascinating

opportunities for a variety of applications in biomedical fields including bioimaging and targeted delivery of biomacromolecules into cells Numerous strategies have been recommended to functionalize carbon nanotubes with raised solubility for efficient use in biomedical applications Functionalized carbon nanotubes have unique arrangements and extravagant mechanical thermal magnetic optical electrical surface and chemical properties and the combination of these features gives them widespread biomedical applications Functionalized carbon nanotubes are relatively flexible and interact with the cell membranes and penetrate different biological tissues owing to a snaking effect therefore both the pharmacological and toxicological profiles of functionalized carbon nanotubes have gathered much attention in recent times This book covers a broad range of topics relating to carbon nanotubes from synthesis and functionalization to applications in advanced biomedical devices and systems As they possess unique and attractive physical chemical optical and even magnetic properties for various applications considerable effort has been made to employ functionalized carbon nanotubes as new materials for the development of novel biomedical tools such as diagnostic sensors imaging agents and drug gene delivery systems for both diagnostics and clinical treatment Audience The book is intended for a very broad audience of researchers and scientists working in the fields of nanomaterials nanomedicine bioinspired nanomaterials nanotechnology and biomedical application of nanomaterials **Bioengineering Applications of Carbon Nanostructures** Ado Jorio,2015-11-17 This book covers the development of biotechnology based on carbon nanostructures with a focus on nanotubes addressing also fullerenes and amorphous carbons The book is divided into 7 chapters addressing tissue engineering genetic engineering and therapy as well as the environmental and health impacts of carbon nanostructures Handbook of Functionalized Carbon Nanostructures Ahmed Barhoum,Kalim Deshmukh,2024-10-03 This book highlights all newly reported carbon nanostructures including graphene and its derivatives carbon nanotubes metal organic frameworks fullerenes nanorods nanospheres nano onions porous nanoparticles nanohorns nanofibers and nanoribbons nanodiamonds graphitic carbon nitrides carbon aerogels and hydrogels graphdiyne and graphenylene It presents the historical development of carbon nanostructures technologies different types and classifications and different fabrication and functionalization techniques including outer inner surface functionalization and covalent and noncovalent functionalization This Handbook discusses the unique properties of functionalized carbon nanostructures that can be obtained by modifying their structures composition and surface It gives the reader an in depth look at the current achievements of research and practice while pointing you ahead to new possibilities in functionalizing and using carbon nanomaterials Finally it covers the various applications of functionalized carbon nanostructures including adsorbents additives active materials in energy accumulating systems batteries hydrogen storage systems and supercapacitors filtering media catalysts or supports for catalysts sensors or substrates for sensors additives for polymers ceramic composites metal and carbon alloys glasses digital textiles and composite materials *Carbon Nanotubes for Biomedical Applications and Healthcare* Chin Hua Chia,Swati Gokul Talele,Ann Rose Abraham,A. K. Haghi,2024-03-12

Recent advancements and research in nanotechnology biotechnology materials engineering the applications of nanomaterial are evolving Carbon nanotubes CNT and CNT based systems possess unique chemical physical and biological properties that make them good candidates in biomedical applications but they also have some inherent properties that cause great concern about their biosafety This volume explores the practical applications of carbon nanotubes in biomedical science and human health It discusses the synthesis properties modification and recent progress of carbon nanotubes and their applications for biosensing cancer treatment antibacterial therapy tissue engineering targeted drug delivery and toxicity It relays the potential and promise of carbon based nanomaterials for host of applications while also looking at the challenges in synthesis characterization and applications of nanomaterials and how to overcome them Carbon Nanotubes and Biomedicine Rishabha Malviya,Selcan Karakuş,Sonali Sundram,Sathvik Belagodu Sridhar,2025-09-10 This book explores the advanced integration of nanotechnology and biomedicine providing an in depth analysis of the transformative impact of carbon nanotubes CNTs on healthcare It provides a comprehensive coverage of the distinctive characteristics of CNTs including their remarkable mechanical strength electrical conductivity and large surface area which make them very suitable for numerous biomedical uses The book provides an overview of the process of synthesizing and functionalizing CNTs It then delves into the specific applications of CNTs in drug delivery systems to improve the effectiveness and targeting of therapeutic agents Additionally the book explores the use of CNTs in imaging and diagnostics enhancing techniques such as MRI and fluorescence imaging The book also discusses the involvement of CNTs in tissue engineering namely in the fabrication of scaffolds that facilitate cell growth and tissue regeneration It explores the application of CNTs in biosensors where their high sensitivity enables early and accurate identification of diseases Antibacterial characteristics of CNTs are reviewed in order to hinder infections in medical devices and implants The potential of CNTs in gene therapy to enhance genetic treatments is also explored in the book It addresses the concerns related to the toxicity biocompatibility and regulatory issues of CNTs It carefully balances the promising potential of CNTs with the practical implications of their usage in the field of biomedicine This book is indispensable for researchers doctors and individuals with an interest in the cutting edge utilisation of nanotechnology in the field of medicine **Functionalized Carbon Nanotubes for Biomedical Applications** Jeenat Aslam,Chaudhery Mustansar Hussain,Ruby Aslam,2023-03-14 FUNCTIONALIZED CARBON NANOTUBES FOR BIOMEDICAL APPLICATIONS The book highlights established research and technology on current and emerging trends and biomedical applications of functionalized carbon nanotubes by providing academic researchers and scientists in industry as well as high tech start ups with knowledge of the modern practices that will revolutionize using functionalized carbon nanotubes Nanotechnology suggests fascinating opportunities for a variety of applications in biomedical fields including bioimaging and targeted delivery of biomacromolecules into cells Numerous strategies have been recommended to functionalize carbon nanotubes with raised solubility for efficient use in biomedical applications

Functionalized carbon nanotubes have unique arrangements and extravagant mechanical thermal magnetic optical electrical surface and chemical properties and the combination of these features gives them widespread biomedical applications Functionalized carbon nanotubes are relatively flexible and interact with the cell membranes and penetrate different biological tissues owing to a snaking effect therefore both the pharmacological and toxicological profiles of functionalized carbon nanotubes have gathered much attention in recent times This book covers a broad range of topics relating to carbon nanotubes from synthesis and functionalization to applications in advanced biomedical devices and systems As they possess unique and attractive physical chemical optical and even magnetic properties for various applications considerable effort has been made to employ functionalized carbon nanotubes as new materials for the development of novel biomedical tools such as diagnostic sensors imaging agents and drug gene delivery systems for both diagnostics and clinical treatment Audience The book is intended for a very broad audience of researchers and scientists working in the fields of nanomaterials nanomedicine bioinspired nanomaterials nanotechnology and biomedical application of nanomaterials Magnetism in Carbon Nanostructures Frank Hagelberg,2017-07-13 A comprehensive survey of carbon nanostructure magnetism emphasizing both the fundamental nature of the field and its groundbreaking nanotechnological applications *Biomedical Applications and Toxicology of Carbon Nanomaterials* Chunying Chen,Haifang Wang,2016-03-28 An overview of biomedical applications and the toxicity properties of carbon nanomaterials aimed at helping to avoid detrimental health effects while laying the groundwork for further research in this highly relevant field Summarizing recent research the book starts with the synthesis and functionalization of carbon nanomaterials as well as identification and detection in biosystems It then moves on to the interaction between carbon nanoparticles and biocomponents focusing on the toxicity and mechanisms to various organs and systems and potential biomedical applications as well Each section highlights the challenges outlines unanswered questions and suggests directions for further research and development efforts **Mechanics of Carbon Nanotubes** Vasyl Harik,2018-07-27 Mechanics of Carbon Nanotubes Fundamentals Modeling and Safety draws on the latest academic research and nanotechnology applications to provide a comprehensive guide on the most recent developments in the science of carbon nanotubes The fundamentals of nanomechanics and mechanical behavior of carbon nanotubes are presented in initial chapters followed by more advanced topics such as the classification of carbon nanotubes carbon nanotubes in nanocomposites multiwall carbon nanotubes and recent trends This book provides a system for the classification of carbon nanotubes into 20 classes aiding correct selection for various applications and includes the Atomic Registry Matrix Analysis for nanoscale interfaces essential for design involving friction or sliding Parametric maps are included to help readers pick the correct model for a particular CNT geometry in addition to a thorough examination of the effective thickness paradox and safety issues related to CNTs such as toxicity at high aspect ratio Mechanics of Carbon Nanotubes is essential reading for anyone involved in research or engineering that includes carbon nanotubes be they students or seasoned professionals in the

field It is particularly useful to those working with applications in the areas of microelectronics robotics aerospace composites or prosthetics Provides a system for the classification of carbon nanotubes aiding correct selection for various applications Includes the Matrix Registry Analysis for nanoscale interfaces that is essential for design involving friction or sliding Features parametric maps to help readers pick the right model for a particular CNT geometry beam vs shell vs thin or thick shells etc Presents a thorough examination of the safety issues related to CNTs including toxicity at high aspect ratio

Bio-derived Carbon Nanostructures Bharat Apparao Bhanvase,Divya Prakash Barai,2024-08-01 Bio derived Carbon Nanostructures Fundamentals Synthesis and Applications explores the entire journey from selecting the right source materials to crafting them into precisely engineered carbon nanostructures with a purpose Opening with an exploration of raw materials and their structural intricacies offering readers a profound insight into the transformation of bio based resources into highly functional carbon nanostructures These remarkable materials find applications that span energy environmental solutions catalysis and innovative additives Unveiling the latest technological advancements this book delves into the exciting realm of emerging applications and the challenges of scaling up these technologies for widespread use These novel materials originate from nature promising a sustainable future Ideal for students researchers and those in industry focusing on materials science and biomass utilization and chemical engineers this book is the key to unlocking the potential of novel carbon based nanomaterials for a sustainable tomorrow Presents the art of crafting bio derived carbon nanostructures their applications and scale up issues Unveils the secrets behind various fabrication techniques and provides background for manufacturing Embarks on a journey through the fundamentals of process property relationships and cutting edge characterization methods Explores and compares diverse preparation and characterization techniques unveiling their remarkable outcomes **Defect Engineering of Carbon Nanostructures** Sumanta Sahoo,Santosh Kumar Tiwari,Ashok Kumar Das,2022-03-19 This book presents an analysis of the techniques used for the synthesis of innovative functional carbon nanostructures The chapters describe the research and development of various layered carbon nanostructures Emphasis is given to the impact of defects on carbon nanostructures The application of carbon nanostructured materials in biomedical field and energy storage is described Carbon Nanomaterials, Second Edition Yury Gogotsi,Volker Presser,2013-10-24 This book provides information on synthesis properties and applications of carbon nanomaterials With novel materials such as graphene atomically flat carbon or carbon onions carbon nanospheres the family of carbon nanomaterials is rapidly growing This book provides a state of the art overview and in depth analysis of the most important carbon nanomaterials Each chapter is written by a leading expert in the field which ensures that both a review on the subject along with emerging perspectives are provided to the reader Carbon Nanomaterials for Biological and Medical Applications Sekhar Chandra Ray,Nikhil Ranjan Jana,2017-03-07 Nanomaterials for Biological and Medical Applications explores the different applications of carbon nanomaterials in drug and gene therapies and their use in tissue regeneration

biosensor diagnosis enantiomer separation of chiral drugs extraction and analysis of drugs and pollutants and as antitoxents The book describes the synthesis processing of carbon nanomaterials carbon composite nanomaterials and their different biological and biomedical applications including the removal of biologically toxic materials optical biosensor applications bio imaging probe drug delivery cancer treatments and other biomedical applications Explains the major synthesis chemical process of carbon nanomaterials for biological applications Discusses how carbon nanomaterials can be practically used to create more efficient nanodevices in biosensing medical imaging and drug delivery Explores how the unique physical properties of carbon nanomaterials allows them to remove biologically toxic materials **Carbon Nanotubes for a Green Environment** Shrikaant Kulkarni,Iuliana Stoica,A. K. Haghi,2022-06-30 Carbon Nanotubes for a Green Environment Balancing the Risks and Rewards describes the synthesis characterization and unique applications of undoped and doped carbon nanotubes as well as hybrids of them with grapheme or nanocomposites focusing on green aspects of carbon nanotube applications The volume shows new approaches used for tapping the potential and promise of key materials in isolation or combined with other materials The research oriented chapters highlight a spectrum of applications of carbon nanotubes as novel materials for energy storage as well as for environmental remediation wastewater treatment green health care products and more Chapters explore the use of carbon nanotubes for remediation methods for wastewater treatment such as by using graphene oxide carbon nanotube composites and by applying undoped and doped carbon nanotubes for removing contaminates The book also looks at the application of carbon nanotubes for enhanced oil recovery and for heavy metal separation Other chapters look at the rheological behavior of carbon nanotubes based materials and their role in processing for various products the thermal and electrical transport in carbon nanotubes composites carbon nanotubes based composite materials for electromagnetic shielding applications The biomedical applications of carbon nanotube based nanomaterials also explored such as FTIR spectroscopy

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