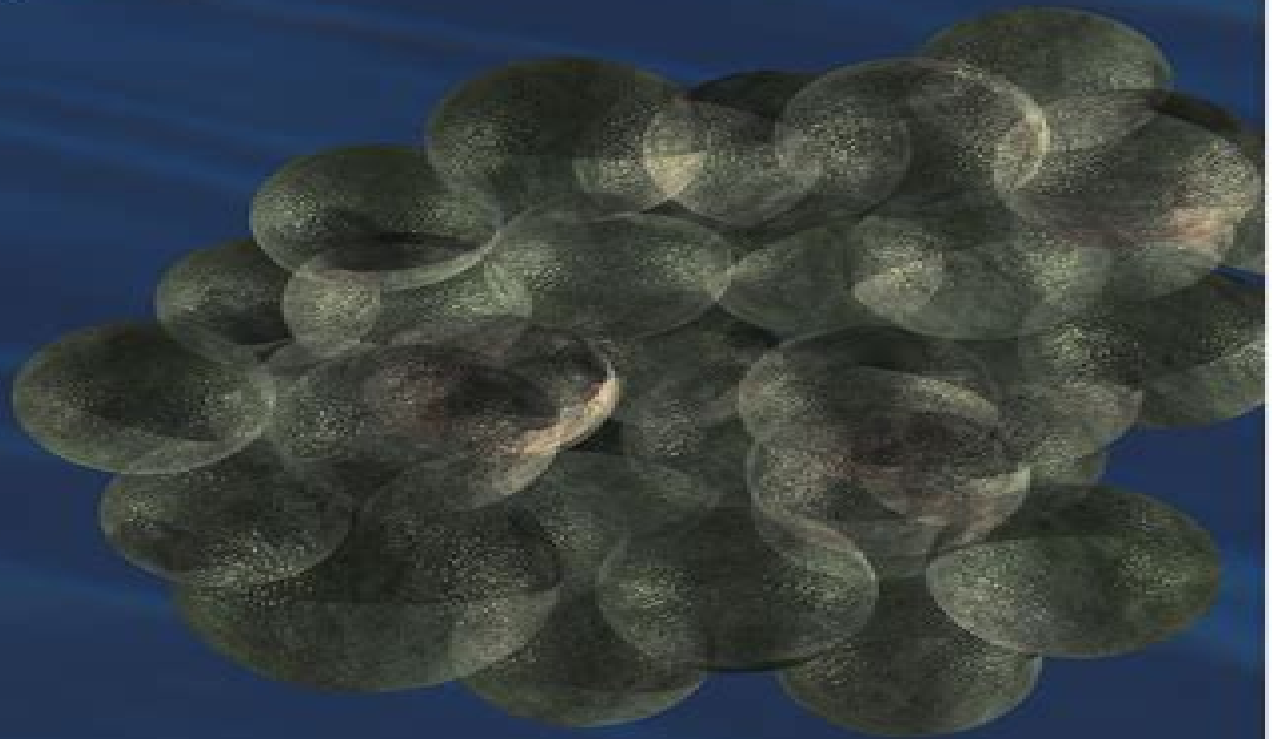
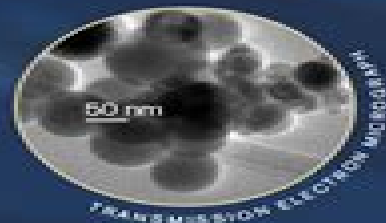


NANOPARTICLES

Based on their nanoscale dimensions and euhedral (cubo-octahedral or prismatic) crystal shapes, these magnetite nanoparticles are thought to have formed by biological processes.



Nanoparticles Nanoparticles

Mahendra Rai, Clemens Posten



Nanoparticles Nanoparticles:

Nanoparticle Technology Handbook Masuo Hosokawa, Makio Naito, Toyokazu Yokoyama, Kiyoshi Nogi, 2007-10-19

Nanoparticle technology which handles the preparation processing application and characterisation of nanoparticles is a new and revolutionary technology. It becomes the core of nanotechnology as an extension of the conventional Fine Particle Powder Technology. Nanoparticle technology plays an important role in the implementation of nanotechnology in many engineering and industrial fields including electronic devices, advanced ceramics, new batteries, engineered catalysts, functional paint and ink, Drug Delivery System, biotechnology, etc. and makes use of the unique properties of the nanoparticles which are completely different from those of the bulk materials. This new handbook is the first to explain complete aspects of nanoparticles with many application examples showing their advantages and advanced development. There are handbooks which briefly mention the nanosized particles or their related applications but no handbook describing the complete aspects of nanoparticles has been published so far. The handbook elucidates the basic properties of nanoparticles and various nanostructural materials with their characterisation methods in the first part. It also introduces more than 40 examples of practical and potential uses of nanoparticles in the later part dealing with applications. It is intended to give readers a clear picture of nanoparticles as well as new ideas or hints on their applications to create new materials or to improve the performance of the advanced functional materials developed with the nanoparticles. Introduces all aspects of nanoparticle technology from the fundamentals to applications. Includes basic information on the preparation through to the characterization of nanoparticles from various viewpoints. Includes information on nanostructures which play an important role in practical applications.

Nanoparticles Günter Schmid, 2006-03-06 An introduction to the science of nanoparticles from fundamental principles to their use in novel applications. As a basis for understanding nanoparticle behavior, the book first outlines the principles of quantum size behavior, nanoparticle architecture, formation of semiconductor and metal nanoparticles. It then goes on to describe the chemical syntheses of nanoparticles with defined characteristics, their structural, electrical, and magnetic properties as well as current methods to monitor these properties. Among others, the following nanoparticle-based applications are discussed: Single electron devices, Ultra dense recording media, Bioelectronic devices and sensors, Labeling of proteins, nucleic acids, and other biomaterials. With its clear structure and comprehensive coverage backed by numerous examples from the recent literature, this is a prime reference for chemists and materials scientists working with and developing nanoparticle systems.

Nanoparticles and Nanocarriers Based Pharmaceutical Formulations Akhlesh K. Jain, Keerti Mishra, 2022-12-09 Nanomedicine is a rapidly expanding field because of its benefits over conventional drug delivery technology as it offers site specific and target oriented delivery of therapeutic agents. *Nanoparticles and Nanocarriers Based Pharmaceutical Preparations* presents a structured summary of recent advances and discoveries in nanomedicine and nanocarrier based drug delivery. The book covers several key topics in a very simple and

easy to understand language Readers will be familiarized with many types of nanocarriers that have been developed over the past decade the pharmaceutical formulations composed of organic and inorganic materials as well as their clinical benefits Chapters are written with the help of authoritative sources of knowledge with the goal of building a foundational understanding of novel drug delivery systems Since the subject matter is interdisciplinary it will be of interest to students teachers and researchers in a broad range of fields including pharmaceutical sciences nanotechnology biomedical engineering and material sciences

Metal Nanoparticles Daniel L. Fedlheim, Colby A. Foss, 2001-10-26 A state of the art reference Metal Nanoparticles offers the latest research on the synthesis characterization and applications of nanoparticles Following an introduction of structural optical electronic and electrochemical properties of nanoparticles the book elaborates on nanoclusters hyper Raleigh scattering nanoarrays and several applications including single electron devices chemical sensors biomolecule sensors and DNA detection The text emphasizes how size shape and surface chemistry affect particle performance throughout Topics include synthesis and formation of nanoclusters nanosphere lithography modeling of nanoparticle optical properties and biomolecule sensors

Green Biosynthesis of Nanoparticles Mahendra Rai, Clemens Posten, 2013-12-04 There are physical and chemical methods of synthesis of nanomaterials But due to the damage caused by these methods to the environment there is a pressing need of green nanotechnology which is a clean and eco friendly technology for the development of nanomaterials The present book includes green synthesis of nanoparticles by algae diatoms and plants The mechanism behind the synthesis of nanoparticles will also be discussed The book would be a valuable resource for students researchers and teachers of biology chemistry chemical technology nanotechnology microbial technology and those who are interested in green nanotechnology

Nanoparticles in the Management of Atherosclerosis Sourabh Mehta, 2025-01-29 The book s primary objective is to introduce the pathology and physiology atherosclerosis in brief and its diagnosis and treatment Atherosclerosis is an inflammatory disease of the arterial wall An advanced understanding of atherosclerosis shows that it leads to myocardial infarction and other cardiovascular diseases taking 17 million people every year worldwide The literature suggests that atherosclerosis is an ancient disease and is still a long standing health problem globally Hence early diagnosis and treatment of atherosclerosis are crucial to solving long standing health issues This book provides a systemic summary of recent literature focusing on disease pathology advancement in diagnosis and therapies Recently nanoparticles performing dual roles as diagnostic and therapeutic agents have been keenly interested However the nanoparticle has yet to reach the clinic Understanding the role of biomaterials in formulations and existing strategies is critical whendeveloping novel formulations and working on translation to clinical settings The book provides a systematic biomaterial based summary of the literature methods used to formulate nanoparticles and their scale up potential Another key objective of the book is to motivate the reader to conduct research on theranostic nanoparticles to treat atherosclerosis and put us one step closer to solving a long standing health problem

atherosclerosis The auto summaries have been generated by a recursive clustering algorithm via the Dimensions Auto summarizer by Digital Science handled by Subject Matter Experts and the external editor The editor of this book selected which SN content should be auto summarized and decided its order of appearance Please be aware that the auto summaries consist of original sentences but are not representative of its original paper since we do not show the full length of the publication Please note that only published SN content is represented here and that machine generated books are still at an experimental stage

Delivery Technologies for Biopharmaceuticals Lene Jorgensen,Hanne Morck Nielson,2009-10-23

Advances in biotechnology have provided scientists with an increasing number of biopharmaceuticals such as novel peptide and protein drugs as well as nucleic acid based drugs for gene therapy However successful delivery of these biopharmaceuticals is a major challenge because their molecular properties lead to poor physical and chemical stability in the body and limited membrane permeability Therefore researchers are developing a range of new delivery technologies and materials to enable these new drugs to be delivered intact to their target sites Delivery Technologies for Biopharmaceuticals describes strategies to overcome the main barriers for successful delivery of therapeutic peptides proteins and nucleic acid based drugs or vaccines related to the site of administration and the target site Many of the approaches described are reported in formulations in current clinical trials as well as in marketed products Contents include challenges in delivery of biopharmaceuticals novel formulation approaches for peptide and protein injectables non viral chemical vectors and viral technology for delivery of nucleic acid based drugs immune response adjuvants and delivery systems for vaccines several examples of delivery systems for different biopharmaceuticals a critical assessment of delivery technologies for biopharmaceuticals Delivery Technologies for Biopharmaceuticals is an essential single volume introduction to the technologies used by researchers to ensure efficient delivery of this exciting new class of drugs It will be of value to researchers and students working in drug delivery formulation biopharmaceuticals medicinal chemistry and new materials development

Nanoparticles for Biomedical Applications Eun Ji Chung,Lorraine Leon,Carlos Rinaldi,2019-11-19

Nanoparticles for Biomedical Applications Fundamental Concepts Biological Interactions and Clinical Applications brings into one place information on the design and biomedical applications of different classes of nanoparticles While aspects are dealt with in individual journal articles there is not one source that covers this area comprehensively This book fills this gap in the literature Outlines an in depth review of biomedical applications of a variety of nanoparticle classes Discusses the major techniques for designing nanoparticles for use in biomedicine Explores safety and regulatory aspects for the use of nanoparticles in biomedicine

Biological Synthesis of Nanoparticles and Their Applications L Karthik,A. Vishnu

Kirthi,Shivendu Ranjan,V. Mohana Srinivasan,2019-12-06 Biological Synthesis of Nanoparticles and Their Applications gives insight into the synthesis of nanoparticles utilizing the natural routes It demonstrates various strategies for the synthesis of nanoparticles utilizing plants microscopic organisms like bacteria fungi algae and so forth It orchestrates interdisciplinary

hypothesis ideas definitions models and discoveries associated with complex cell of the prokaryotes and eukaryotes Highlights Discusses biological approach towards the nanoparticle synthesis Describes the role of nanotechnology in the field of medicine and its medical devices Covers application and usage of the chemicals at the molecular level to act as catalysts and binding products for both organic and inorganic Chemical Reactions Reviews application in physics such as solar cells photovoltaics and other usage Microorganisms can aggregate and detoxify substantial metals because of different reductase enzymes which can diminish metal salts to metal nanoparticles The readers after going through this book will have detailed account of mechanism of bio synthesis of nanoparticles

Application of Nanoparticles in Tissue Engineering Sarah Afaq, Arshi Malik, Mohammed Tarique, 2022-09-14 This book discusses advancements in the applications of nanoparticles in tissue engineering It examines the applications of nanobiomaterials in hard tissue regeneration fabrication and characterization The book also analyzes the implication of three dimensional and four dimensional fabrication techniques for the production of the scaffold in tissue engineering and their advantages over conventional scaffold production techniques Further it presents smart materials used in making 4 D scaffolds that imitate the dynamic response of tissue against natural stimuli and adapt to the microenvironment by changing their conformation or other properties It also summarizes the growing field of biomolecular detection and biosensors in tissue engineering and the increasing prominence of nanoparticles in the biosensors Further it provides the future outlook and associated challenges of the application of nanomaterials in tissue engineering

Nanostructures & Nanomaterials Guozhong Cao, 2004 This important book focuses on the synthesis and fabrication of nanostructures and nanomaterials but also includes properties and applications of nanostructures and nanomaterials particularly inorganic nanomaterials It provides balanced and comprehensive coverage of the fundamentals and processing techniques with regard to synthesis characterization properties and applications of nanostructures and nanomaterials Both chemical processing and lithographic techniques are presented in a systematic and coherent manner for the synthesis and fabrication of 0 D 1 D and 2 D nanostructures as well as special nanomaterials such as carbon nanotubes and ordered mesoporous oxides The book will serve as a general introduction to nanomaterials and nanotechnology for teaching and self study purposes

Plant and Nanoparticles Jen-Tsung Chen, 2022-08-13 This book explores the interactions between nanomaterials nanoparticles and plants and unveils potential applications The chapters emphasize the implications of nanoparticles in cross discipline approaches including agricultural science plant physiology plant biotechnology material science environmental science food chemistry biomedical science etc It presents recent advances in experimental and theoretical studies and gives in depth insights into the interaction between nanoparticles and plant cells In addition it discusses the potential applications and concerns of nanoparticles comprehensively The research field of plant nanotechnology has great potential within plant sciences and agriculture and the related research is getting increased at present The study of plant nanotechnology receives an advantage from the great progress of nanotechnology in biomedical

sciences particularly the well development of a variety of biocompatible nanoparticles NPs and advanced analytical techniques Nowadays although some NPs have been applied in the studies of plant and agronomic sciences the knowledge regarding physiology and underlying mechanisms within the plant cell remains limited This book offers a critical reference for students teachers professionals and a wide array of researchers in plant science plant physiology plant biotechnology material science environmental science food chemistry nanotechnology and biomedical science It could also benefit the related field of plant nanotechnology for designing and organizing future research

Green Synthesis of Nanoparticles: Applications and Prospects Quaiser Saquib, Mohammad Faisal, Abdulaziz A. Al-Khedhairy, Abdulrahman A. Alatar, 2020-10-19 This book describes various strategies for the synthesis of green nanoparticles using plant extracts and microbes including the advantages and disadvantages of different methods and their applications After discussing strategies for and the potential of green synthesis of noble metal nanoparticles it highlights the role of the solvent system The book then explores the stability toxicity of nanoparticles and the associated surface engineering techniques for achieving biocompatibility and examines the antimicrobial efficacy of green nanoparticles with regard to various bacterial pathogens as well as the underlying cytotoxicity mechanisms Lastly the book addresses the potential applications of various green nanoparticles in cancer theranostics and reviews a number of plant mediated nanoparticles as potential pharmaceutical agents Given its scope the book will be of interest to all scientists and students wanting to learn more about the synthesis and applications of green nanoparticles

Surface Modification of Nanoparticles for Targeted Drug Delivery Yashwant V Pathak, 2019-03-11 This unique book is the only one to discuss various new techniques developed to enhance the application of nanoparticulate drug delivery systems using surface modification of nanoparticles The understanding of the surface characteristics nano particles is growing significantly with the advent of new analytical techniques Polymer chemistry is contributing to the development of many new versatile polymers which have abilities to accommodate many different very reactive chemical groups and can be used as a diagnostic tool for better targeting for more effective therapeutic results as well as for reducing the toxic and side effects of the drugs Surface modification of such polymeric nanoparticles has been found by many scientists to enhance the application of nanoparticles and also allows the nano particles to carry specific drug molecule and disease tumor specific antibodies which refine and improve drug delivery Surface Modification of Nanoparticles for Targeted Drug Delivery is a collection essential information with various applications of surface modification of nanoparticles and their disease specific applications for therapeutic purposes

Nanoparticle Toxicity and Compatibility Jorddy N. Cruz, 2024-03-15 The book focuses on the interplay between nanoparticles and biological systems Topics covered include the synthesis characterization and application of nanomaterials in tissue engineering the interaction of nanoparticles with macromolecules biomedical and food science applications the cardiovascular toxicity of nanoparticles colon targeted nano drug delivery systems the biocompatibility and immunogenicity of nanoparticles plasmon

enhanced biosensing applications strategies for enhancing the biocompatibility of nanoparticles the environmental impact of nanoparticles as well as the intricate dynamics between nanoparticles and living organisms

Keywords Tissue Engineering Cardiovascular Toxicity Drug Delivery Systems Plasmon Enhanced Biosensing Biocompatibility of Nanoparticles Ecotoxicology of Nanoparticles Bioinspired Nanosynthesis Hepatotoxicity Nano Drug Delivery Nanofabrication Nanorobots Plasmonics Probiotics Protein

Pharmaceutical Manufacturing Handbook Shayne Cox Gad, 2008-03-11 This handbook features contributions from a team of expert authors representing the many disciplines within science engineering and technology that are involved in pharmaceutical manufacturing They provide the information and tools you need to design implement operate and troubleshoot a pharmaceutical manufacturing system The editor with more than thirty years experience working with pharmaceutical and biotechnology companies carefully reviewed all the chapters to ensure that each one is thorough accurate and clear

Engineered Nanoparticles Ashok K. Singh, 2015-11-24 Engineered Nanoparticles Structure Properties and Mechanisms of Toxicity is an indispensable introduction to engineered nanomaterials ENM and their potential adverse effects on human health and the environment Although research in the area of pharmacology and toxicology of ENM is rapidly advancing a possible correlation between their physicochemical properties and biomedical properties or toxicity is not yet fully understood This understanding is essential to develop strategies for the safe applications and handling of ENM The book comprehensively defines the current understanding of ENM toxicity first describing these materials and their physicochemical properties and then discussing the toxicological theory and methodology before finally demonstrating the potential impact of ENM on the environment and human health It represents an essential reference for students and investigators in toxicology pharmacology chemistry material sciences medicine and those in related disciplines who require an introduction to ENM and their potential toxicological effects Provides state of the art physicochemical descriptions and methodologies for the characterization of engineered nanomaterials ENM Describes the potential toxicological effects of ENM and the nanotoxicological mechanisms of action Presents how to apply theory to practice in a public health and risk assessment setting

Toxicology of Nanoparticles and Nanomaterials in Human, Terrestrial and Aquatic Systems Marc A. Williams, 2022-06-27 Toxicology of Nanoparticles and Nanomaterials in Human Terrestrial and Aquatic Systems An indispensable compendium detailing the toxicology of nanoparticles with a focus on mechanisms emerging issues and new approaches Toxicology of Nanoparticles and Nanomaterials in Human Terrestrial and Aquatic Systems provides authoritative information on the toxicology of ultrafine and nanoparticulate matter that contaminate terrestrial or aquatic environments and present unique challenges in applied public health and toxicological research Detailed chapters by a panel of world renowned experts examine the complementary and dynamic interdependence of aquatic terrestrial and human systems and the toxicological impacts on exposure to engineered and manufactured nanoparticles and nanomaterials Organized into four sections the book opens with a thorough overview of the field including

known challenges and the necessity for current research activity The second section describes terrestrial and aquatic systems and the ecotoxicological impact of nanomaterials followed by critical analysis of the many human health effects of nanomaterials The book concludes with an in depth discussion of current gaps in knowledge future directions new approach methodologies alternatives to animal models and the emerging environmental threat from nanoplastics Presenting case exemplars of the ecotoxicological impact of nanoparticles in aquatic and terrestrial systems this important resource Presents in depth coverage of ecosafety environmental behavior fate and transport interactive effects with other contaminants and current challenges in soil nano ecotoxicology Addresses rising concerns regarding air pollution and neurological disorders and the roles played by the gastrointestinal system the mucosal microbiome and the immunotoxicology and vasculotoxicity of metal based nanoparticles Provides detailed coverage of nanomaterial health effects from both animal and in vitro models including the gut microbiome innate immunity neurological and cardiovascular impacts mechanisms of action and hazard characterization Analyzes key topics in ecological nanotoxicology such as environmental micro and nano plastic pollution and applied risk assessment Toxicology of Nanoparticles and Nanomaterials in Human Terrestrial and Aquatic Systems is essential reading for toxicologists applied biologists ecotoxicologists research scientists medical professionals regulators and advanced students in fields such as public health environmental ecotoxicology and medicine immunotoxicology neurotoxicology cardiovascular and systems biology hazard identification and risk assessment

Magnetic Nanoparticles in Human Health and Medicine Costica Caizer, Mahendra Rai, 2021-09-08 Magnetic Nanoparticles in Human Health and Medicine Explores the application of magnetic nanoparticles in drug delivery magnetic resonance imaging and alternative cancer therapy Magnetic Nanoparticles in Human Health and Medicine addresses recent progress in improving diagnosis by magnetic resonance imaging MRI and using non invasive and non toxic magnetic nanoparticles for targeted drug delivery and magnetic hyperthermia Focusing on cancer diagnosis and alternative therapy the book covers both fundamental principles and advanced theoretical and experimental research on the magnetic properties biocompatibilization biofunctionalization and application of magnetic nanoparticles in nanobiotechnology and nanomedicine Chapters written by a panel of international specialists in the field of magnetic nanoparticles and their applications in biomedicine cover magnetic hyperthermia MHT MRI contrast agents biomedical imaging modeling and simulation nanobiotechnology toxicity issues and more Readers are provided with accurate information on the use of magnetic nanoparticles in diagnosis drug delivery and alternative cancer therapeutics featuring discussion of current problems proposed solutions and future research directions Topics include current applications of magnetic iron oxide nanoparticles in nanomedicine and alternative cancer therapy drug delivery magnetic resonance imaging superparamagnetic hyperthermia as alternative cancer therapy magnetic hyperthermia in clinical trials and simulating the physics of magnetic particle heating for cancer therapy This comprehensive volume Covers both general research on magnetic nanoparticles in medicine and specific applications in cancer therapeutics

Discusses the use of magnetic nanoparticles in alternative cancer therapy by magnetic and superparamagnetic hyperthermia
Explores targeted medication delivery using magnetic nanoparticles as a future replacement of conventional techniques
Reviews the use of MRI with magnetic nanoparticles to increase the diagnostic accuracy of medical imaging
Magnetic Nanoparticles in Human Health and Medicine is a valuable resource for researchers in the fields of nanomagnetism magnetic nanoparticles nanobiomaterials nanobioengineering biopharmaceuticals nanobiotechnologies nanomedicine and biopharmaceuticals particularly those focused on alternative cancer diagnosis and therapeutics *Concepts and Applications in Environmental Geochemistry* Dibyendu Sarkar,Rupali Datta,Robyn Hannigan,2011-09-14 This volume is for environmental researchers and government policy makers who are required to monitor environmental quality for their environmental investigators and remediation plans It uses concepts and applications to aid in the exchange of scientific information across all the environmental science disciplines ranging from geochemistry to hydrogeology and ecology to biotechnology Focusing on issues such as metals organics and nutrient contamination of water and soils and interactions between soil water plants chemicals the book synthesizes the latest findings in this rapidly developing multi disciplinary field Cutting edge environmental analytical methods are also presented making this a must have for professionals tasked with monitoring environmental quality These concepts and applications help in decision making and problem solving in a single resource Integrative approach promotes the exchange of scientific information among different disciplines New concepts and case studies make the text unique among existing resources Tremendous practical value in environmental quality and remediation with an emphasis on human health and ecological risk assessment

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