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Description. The book series Nanomaterials for the Life Sciences, provides an in-depth overview of all nanomaterial types and their uses in the life sciences. Each volume is dedicated to a specific material class and covers fundamentals, synthesis and characterization strategies, structure-property relationships and biomedical applications.

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Buy Magnetic Nanomaterials (Nanomaterials for Life Sciences (VCH)) by Kumar, Challa S. S. R. (ISBN: 9783527321544) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Magnetic Nanomaterials (Nanomaterials for Life Sciences (VCH)) Challa S. S. R. Kumar The new book series Nanomaterials for the Lie Sciences, successor to the highly acclaimed series "Nanotechnology for the Life Sciences", provides an in-depth overview of all nanomaterials types and their uses in the life sciences.

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science, technology and everyday life. Magnetic nanomaterials represent one of the most important and emerging class of materials in nanotechnology due to a range of potential applications, including magnetic data storage, catalysis, magnetic separation, sensing, waste water treatment and many others. [Nanomaterials | Special Issue : Magnetic Nanomaterials](#)

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Magnetic materials have an enormous impact to the modern science, technology and everyday life. Magnetic nanomaterials represent one of the most important and emerging class of materials in nanotechnology due to a range of potential applications, including magnetic data storage, catalysis, magnetic separation, sensing, waste water treatment and many others.

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the book series nanomaterials for the life sciences volume 4 magnetic nanomaterials this volume takes the reader on a tour showing how magnetic nanomaterials are used in the fields of diagnosis and therapy as well as in tissue engineering and environmental applications about the author challa kumar is currently the director of nanofabrication nanomaterials at the center for advanced

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Magnetic nanomaterials have undergone a significant evolution during the past decade, with supramolecular nanoparticle organization reaching unprecedented levels of complexity and the materials providing new approaches to treating cancer. Magnetic Nanomaterials will provide a comprehensive overview of the latest research in the area of magnetic nanoparticles and their broad applications in synthesis, catalysis and theranostics. The book starts with an introduction to magnetism in nanomaterials and magnetic nanoparticle design followed by individual chapters which focus on specific uses. Applications covered include drug delivery, theranostic agents for cancer treatment as well as catalysis, biomass conversion and catalytic enhancement of NMR sensitivity. The reader will have the opportunity to learn about the frontier of magnetic nanotechnology from scientists that have shaped this unique and highly collaborative field of research. Written and edited by experts working within the field across the world, this book will appeal to students and researched interested in nanotechnology, engineering and physical sciences.

The Series The new book series "Nanomaterials for the Life Sciences," successor to the highly acclaimed series "Nanotechnology for the Life Sciences," provides an in-depth overview of all nanomaterial types and their uses in the life sciences. Each volume is dedicated to a specific material class and covers fundamentals, synthesis and characterization strategies, structure-property relationships and biomedical applications. The new series brings nanomaterials to the life scientists and life science to the materials scientists so that synergies are seen and developed to the fullest. Written by international experts of various facets of this exciting field of research, the ten volumes of this single source of information comprehensively cover the complete range of nanomaterials for medical, biological and cybernetic applications. The series is aimed at scientists of the following disciplines: biology, chemistry, materials science, physics, bioengineering, and medicine, together with cell biology, biomedical engineering, pharmaceutical chemistry, and toxicology, both in academia and fundamental research as well as in pharmaceutical companies. Volume 4: Magnetic Nanomaterials Volume 4 takes the reader on a tour showing how magnetic nanomaterials are used in the fields of diagnosis and therapy, as well as in tissue engineering and environmental applications. For more information on NmLS, please visit www.NmLS.wiley-vch.de

The book series Nanomaterials for the Life Sciences, provides an in-depth overview of all nanomaterial types and their uses in the life sciences. Each volume is dedicated to a specific material class and covers fundamentals, synthesis and characterization strategies, structure-property relationships and biomedical applications. The series brings nanomaterials to the Life Scientists and life science to the Materials Scientists so that synergies are seen and developed to the fullest. Written by international experts of various facets of this exciting field of research, the series is aimed at scientists of the following disciplines: biology, chemistry, materials science, physics, bioengineering, and medicine, together with cell biology, biomedical engineering, pharmaceutical chemistry, and toxicology, both in academia and fundamental research as well as in pharmaceutical companies. VOLUME 4 - Magnetic Nanomaterials This volume takes the reader on a tour showing how magnetic nanomaterials are used in the fields of diagnosis and therapy, as well as in tissue engineering and environmental applications.

Nanotechnology and Nanomaterials in the Treatment of Life-threatening Diseases takes a scientific approach to nanotechnology and nanomaterials applications in medicine, while also explaining the core biological principles for an audience of biomedical engineers, materials scientists, pharmacologists, and medical diagnostic technicians. The book is structured by major disease groups, offering a practical, application-based focus for scientists, engineers, and clinicians alike. The spectrum of medical applications is explored, from diagnostics and imaging to drug delivery, monitoring, therapies, and disease prevention. It also focuses specifically on the synthesis of nanomaterials and their potential health risks (particularly toxicity). Nanomedicine — the application of nanomaterials and devices for addressing medical problems — has demonstrated great potential for enabling improved diagnosis, treatment, and monitoring of many serious illnesses, including cancer, cardiovascular and neurological disorders, HIV/AIDS, and diabetes, as well as many types of inflammatory and infectious diseases. Gain an understanding of how nanotechnologies and nanomaterials can be deployed in the fight against the major life-threatening diseases: cancer, neurological disorders (including Alzheimer's and Parkinson's), cardiovascular diseases, and HIV/AIDS Discover the latest developments in nanomedicine, from therapies and drug delivery to diagnostics and disease prevention The authors cover the health risks of nanomaterials as well as their benefits, considering toxicity and potential carcinogens

A single-volume comprehensive yet concise overview of the materials science underlying nanotechnological applications for the life sciences, collating the many articles hitherto found in an overwhelmingly wide range of specialized journals.

This book describes in a comprehensive manner latest studies conducted by various research groups worldwide focusing on carbon and related nanomaterials. Fourteen chapters of this book deal with a number of key research topics and applications of pure and functionalized carbon nanomaterials and their hybrid nanocomposites. Specifically, the authors have presented interdisciplinary investigations including: (i) carbon nanoparticles and layers synthesis, (ii) analytical aspects of carbon nanomaterials and their characterisation under different conditions as well as (iii) various applications of carbon nanoparticles. They have reported and summarised key applications of carbon particles or nanoobjects in pharmacy, biomedicine, agriculture and food industry, water treatment, physicochemical analysis, optoelectronics, electronic and magnetic materials for supercapacitors or radar adsorbing materials, tribology, chromatography, electrophoresis, bioanalysis, nanobiocatalysis, biofuels production as well as environmental remediation.

Recently, magnetic nanostructures have gained a remarkable interest for basic research and applied studies. Because of their low cost and ease of manufacture and modification, they have great potential for agricultural and environmental applications. The use of magnetic nanostructures has been proven in a wide range of fields including catalysis, biotechnology, biomedicine, magnetic resonance imaging, agriculture, biosensors, and removal of environmental pollutants, among others. This book includes 16 chapters of collected knowledge, discoveries, and applications in agriculture, soil remediation, and water treatment. It describes the role of nano-agriculture with regard to food security and discusses environmental and agricultural protection concerns. It further offers potential applications of magnetic nanomaterials in the agriculture and food sectors, such as the development of sensors, environment monitoring for wastewater treatment and the remediation of contaminated soils. Increasing crop yield through the use of nanopesticides or nanofertilizers and biosecurity using sensors for detecting pathogens along the entire food chain are discussed as well. This book also brings together various sources of expertise on different aspects magnetic nanostructure application in the agri-food sector and environment remediation. Magnetic nanostructures also have great potential in biotechnological processes, as they can be utilized as a carrier for enzymes during different biocatalytic transformations. Novel magnetic nanomaterials can be used for detection and separation of pesticides from environmental and biological samples. The excellent adsorption capacity of the modified magnetic nanoadsorbents together with other advantages such as reusability, easy separation, environmentally friendly composition, and freedom of interferences of alkaline earth metal ions make them suitable adsorbents for removal of heavy metal ions from environmental and industrial wastes. One of the most important environmental applications of magnetic nanostructures has been in the treatment of water, whether in the remediation of groundwater or through the magnetic separation and/or sensing of contaminants present in various aqueous systems. The integrated combination of these 16 chapters, written by experts with considerable experience in their area of research, provides a comprehensive overview on the synthesis, characterization, application, environmental processing, and agriculture of engineered magnetic nanostructures. Its comprehensive coverage discusses how nanostructure materials interact in plants as well as their potential and useful applications.

This book provides comprehensive coverage of the most recent progress and developments in the field of magnetic nanoparticles, with special emphasis on new materials design approaches for magnetic nanoarchitectures, advanced characterization techniques, and a wide range of applications areas including permanent magnets, biomedicine, and life sciences. The book also features an exhaustive section on fundamentals, covering single particle effects, surface effects, and interparticle interactions. The book delivers a strong focus throughout on the multidisciplinary nature of the subject spanning physics, chemistry, engineering, biology, medicine, and environmental science. This forward-looking contributed

volume highlights future perspectives and areas of emerging research, and will be of great interest to advanced undergraduates, as well as researchers in academia and industry.

Following an overview of nanotechnologies for diagnostic purposes, this book goes on to look at nanoparticle-based magnetic resonance, molecular and other imaging applications, as well as the potential roles of carbon nanotubes and bionanoparticles in biomedical applications. The book's main focus is on drug delivery systems based on nonporous and nanosize materials, solid lipid and polymeric nanoparticles, intelligent hydrogels, core-shell nanoparticles, and nanocapsules, rounded off by a discussion of their biomedical applications. The final part of this volume covers such biomedical strategies as gene therapy, synthetic gene-transfer vectors and targeted delivery.

NANOTECHNOLOGY IN MEDICINE Discover thorough insights into the toxicology of nanomaterials used in medicine In *Nanotechnology in Medicine: Toxicity and Safety*, an expert team of nanotechnologists delivers a robust and up-to-date review of current and future applications of nanotechnology in medicine with a special focus on neurodegenerative diseases, cancer, diagnostics, nano-nutraceuticals, dermatology, and gene therapy. The editors offer resources that address nanomaterial safety, which tends to be the greatest hurdle to obtaining the benefits of nanomedicine in healthcare. The book is a one-stop resource for recent and comprehensive information on the toxicological and safety aspects of nanotechnology used in human health and medicine. It provides readers with cutting-edge techniques for delivering therapeutic agents into targeted cellular compartments, cells, tissues, and organs by using nanoparticulate carriers. The book also offers methodological considerations for toxicity, safety, and risk assessment. *Nanotechnology in Medicine: Toxicity and Safety* also provides readers with: A thorough introduction to the nanotoxicological aspects of nanomedicine, including translational nanomedicine and nanomedicine personalization Comprehensive introductions to nanoparticle toxicity and safety, including selenium nanoparticles and metallic nanoparticles Practical discussions of nanotoxicology and drug delivery, including gene delivery using nanocarriers and the use of nanomaterials for ocular delivery applications In-depth examinations of nanotechnology ethics and the regulatory framework of nanotechnology and medicine Perfect for researchers, post-doctoral candidates, and specialists in the fields of nanotechnology, nanomaterials, and nanocarriers, *Nanotechnology in Medicine: Toxicity and Safety* will also prove to be an indispensable part of the libraries of nanoengineering, nanomedicine, and biopharmaceutical professionals and nanobiotechnologists.

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