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Properties, Synthesis
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Physics Research and Technology



Dragan P. Uskoković, Slobodan K. Milonjić, Dejan I. Raković

Magnetic Nanoparticles Beate Acklin, Lautens Edon Acklin Beate, 2012-06-01 Magnetic nanoparticles have been attracting much interest in the fields of advanced biological and medical applications such as drug delivery magnetic resonance imaging and array based assaying as well as in the fields of separation science This book presents current research in the study of the properties synthesis and applications of magnetic nanoparticles Topics include the synthesis of organic based magnetic nanoparticles polymers and calixarene based magnetic nanoparticles ferromagnetism in carbon and boron nitride nanostructures and computer simulations chemical syntheses and biomedical diagnosis using magnetic Magnetic Nanoparticle-Based Hybrid Materials Andrea Ehrmann, Mazaher Ahmadi, Ali nanoparticles Farmani, Phuong Nguyen-Tri, Tuan Anh Nguyen, 2021-06-23 Magnetic Nanoparticle Based Hybrid Materials Fundamentals and Applications introduces the principles properties and emerging applications of this important materials system The hybridization of magnetic nanoparticles with metals metal oxides and semiconducting nanoparticles may result in superior properties The book reviews the most relevant hybrid materials their mechanisms and properties Then the book focuses on the rational design controlled synthesis advanced characterizations and in depth understanding of structure property relationships The last part addresses the promising applications of hybrid nanomaterials in the real world such as in the environment energy medicine fields Magnetic Nanoparticle Based Hybrid Materials Fundamentals and Applications comprehensively reviews both the theoretical and experimental approaches used to rapidly advance nanomaterials that could result in new technologies that impact day to day life and society in key areas such as health and the environment It is suitable for researchers and practitioners who are materials scientists and engineers chemists or physicists in academia and R D Provides in depth information on the basic principles of magnetic nanoparticles based hybrid materials such as synthesis characterization properties and magnon interactions Discusses the most relevant hybrid materials systems including integration of metals metal oxides polymers carbon and more Addresses the emerging applications in medicine the environment energy sensing and computing enabled by magnetic nanoparticles based hybrid materials Silica-coated Magnetic Nanoparticles Mariela A. Agotegaray, Verónica L. Lassalle, 2017-01-04 This brief offers a comprehensive discussion of magnetic targeted drug delivery of silica coated nanodevices Focusing on the latest trend in pharmaceutical applications of these nanodevices a multidisciplinary overview is displayed from synthesis and design to pharmacokenetics biodistribution and toxicology Chapters include design of silica coated magnetic nanodevices techniques for drug loading with features applicable to biological systems synthesis characterization and the assessment of biomedical issues with both in vitro and in vivo experiments Applications in the treatment of different localized diseases are also addressed in order to present the potential use of these nanosystems as global commercially available therapeutics Green Magnetic Nanoparticles (GMNPs) Ruby Aslam, Chaudhery Mustansar Hussain, Jeenat Aslam, 2024-05-17 Green Magnetic Nanoparticles GMNPs Recent Developments in Preparation and Application highlights established research and technology on nanomaterials nanocomposites and other alternative materials to be used for different applications and move to their rapidly emerging aspects and then discusses future research directions Nanomaterials and nanocomposites are the most effective materials to be used in different industrial applications Green nanotechnology incorporates the principles of green chemistry and green engineering to fabricate innocuous and eco friendly nanoassemblies to combat problems affecting both human health and the environment It provides academia and industry with a high tech start up that will revolutionize the modern developments in synthesis and applications of green magnetic nanoparticles This book evaluates green magnetic nanoparticles as prime options for smart and transformational opportunities Covers the synthesis characterization properties and applications of green magnetic nanoparticles Highlights the use of green magnetic nanoparticles as revolutionized modern industrial practices Evaluates green magnetic nanoparticles as prime options for smart and transformational opportunities

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Magnetic Nanoparticles Abdollah Hajalilou, Mahmoud Tavakoli, Elahe Parvini, 2022-10-06 Magnetic Nanoparticles Learn how to make and use magnetic nanoparticles in energy research electrical engineering and medicine In Magnetic Nanoparticles Synthesis Characterization and Applications a team of distinguished engineers and chemists delivers an insightful overview of magnetic materials with a focus on nano sized particles The book reviews the foundational concepts of magnetism before moving on to the synthesis of various magnetic nanoparticles and the functionalization of nanoparticles that enables their use in specific applications The authors also highlight characterization techniques and the characteristics of nanostructured magnetic materials like superconducting quantum interference device SQUID magnetometry Advanced applications of magnetic nanoparticles in energy research engineering and medicine are also discussed and explicit derivations and explanations in non technical language help readers from diverse backgrounds understand the concepts contained within Readers will also find A thorough introduction to magnetic materials including the theory and fundamentals of magnetization In depth explorations of the types and characteristics of soft and hard magnetic materials Comprehensive discussions of the synthesis of nanostructured magnetic materials including the importance of various preparation methods Expansive treatments of the surface modification of magnetic nanoparticles including the technical resources employed in the process Perfect for materials scientists applied physicists and measurement and control engineers Magnetic Nanoparticles Synthesis Characterization and Applications will also earn a place in the libraries of inorganic chemists

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Yahya, Wan Md Zin Wan Yunus, Nor Laili Azua Jamari, Noor Azilah Mohd Kasim, Wan Yusmawati Wan Yusoff, Fadhlina Che Ros, Norli Abdullah, Noor Aisyah Ahmad Shah, Norhana Abdul Halim, 2021-05-10 Selected peer reviewed papers from the 7th International Conference on Solid State Science and Technology 7th ICSSST Selected peer reviewed papers from the 7th International Conference on Solid State Science and Technology 2019 7th ICSSST 2019 November 11 13 2019 Putrajaya Journal of Nano Research Vol. 34 Anand Bhalerao, 2015-07-15 Multi Functionality of Nanoparticles in the Fields of Biomedicine and Nanobioelectronics Biofunctionalization of Nanomaterials Challa S. S. R. Kumar, 2005 Written by international experts describing the various facets of nanofabrication the ten volumes of this series cover the complete range of synthetic methods tools and techniques being developed towards medical biological and cybernetic applications This volume covers the synthetic and materials aspects of instilling biocompatibility into nanomaterials with properties desirable for advanced medical and biological applications **Current Research in Advanced Materials and Processes** Dragan P. Uskoković, Slobodan K. Milonjić, Dejan I. Raković, 2005 The present book comprises ninety two papers by leading scientists from 21 countries thematically arranged into ten sections I Nanostructures and Thin Films II Solid State Phenomena III Nanomaterials IV Advanced Materials V Materials for Electrochemistry VI Spectroscopic Characterization VII Synthesis and Processing VIII Powders Ceramics and Sintering IX Composites and X Biomaterials The book is recommended to all researchers and students working in this fascinating scientific and technological field as they cannot fail to find many fruitful and stimulating ideas in this rich vein of theoretical and experimental contributions Iournal of Nano Research Vol. 30 Efstathios I. Meletis, 2015-03-02 This periodical edition includes peer reviewed scientific and engineering papers on all aspects of research in the area of nanoscience and nanotechnologies and wide practical application of the achieved results

Clinical Applications of Magnetic Nanoparticles Nguyen TK Thanh, 2018-02-06 Offering the latest information in magnetic nanoparticle MNP research this book builds upon the success of the first volume and provides an updated and comprehensive review from synthesis characterization and biofunctionalization to clinical applications of MNPs including the diagnosis and treatment of cancers The book captures some of emerging research area which was not available in the first volume Good Manufacturing Practices and Commercialization of MNPs are also included This volume also written by some of the most qualified experts in the field incorporates new developments in the literature and continues to bridge the gaps between the different areas in this field

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