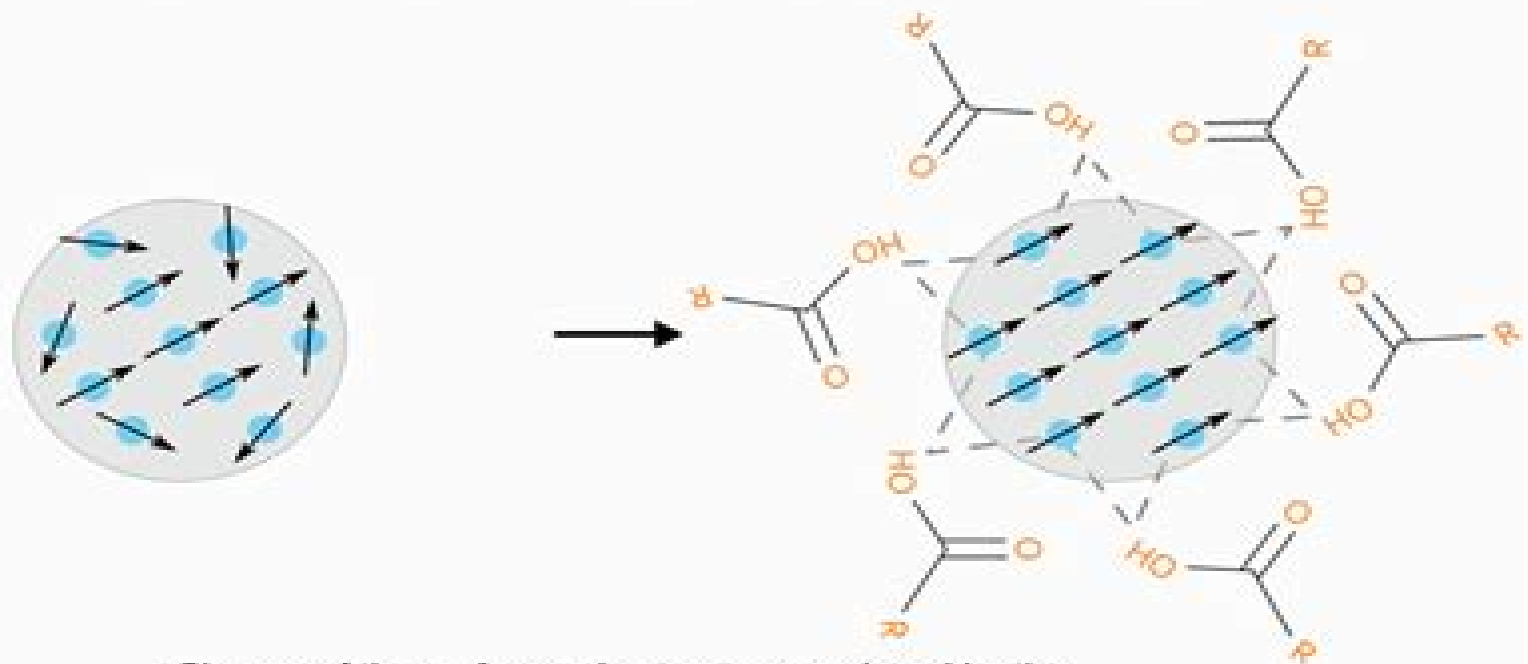


## Effects of organic coating on the magnetic properties of nanoparticles



Change of the surface spin structure produced by the bonds between organic molecules and surface cations

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Understanding of the role of the type of organic molecule, its electron donation capability, nature and strength of the bond, functional group, chain length, thickness of coating layer



- Tuning of saturation magnetization and anisotropy
- Control of interparticle interactions
- Control of morpho-structural properties

# Surface Effects In Magnetic Nanoparticles

**Alberto López-Ortega, Alejandro  
Gómez Roca**



## **Surface Effects In Magnetic Nanoparticles:**

*Surface Effects in Magnetic Nanoparticles* D. Fiorani, 2005-04 A collection of articles on different approaches to the investigation of surface effects on nanosized magnetic materials with special emphasis on magnetic nanoparticles The book provides an overview of progress in the field through recent results

**Surface Effects in Magnetic Nanoparticles** Dino Fiorani, 2006-06-09 This volume is a selected collection of articles on different approaches to the investigation on surface effects on nanosized magnetic materials with special emphasis to magnetic nanoparticles The book is aimed to provide an overview of progress in the understanding of surface properties and surface driven effects in magnetic nanoparticles through recent results of different modelling simulation and experimental investigations Its intended audience is Ph D students and researchers in materials science Magnetic nanoparticles have been the subject of continuous and growing interest from both fundamental and technological points of view in the last 50 years since the pionering work of Louis Niel Nanoparticles are unique physical objects with remarkable magnetic properties which differ greatly from their parent massive materials They are due to finite size effects of the magnetic core related to the reduced number of spins cooperatively linked within the particle and to surface and interface effects related to the lack of coordination for the surface ions inducing broken exchange bonds which can result in frustration and spin disorder

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**Magnetic Nanoparticles** Sergey P. Gubin, 2009-11-18 This interdisciplinary approach to the topic brings together reviews of the physics chemistry fabrication and application of magnetic nanoparticles and nanostructures within a single cover With its discussion of the basics as well as the most recent developments and featuring many examples of practical applications the result is both a clear and concise introduction to the topic for beginners and a guide to relevant comprehensive physical phenomena and essential technological applications for experienced researchers

**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

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Essentials in Nanoscience and Nanotechnology Narendra Kumar,Sunita Kumbhat,2016-04-06 This book describes various aspects of nanoscience and nanotechnology It begins with an introduction to nanoscience and nanotechnology and includes a historical prospective nanotechnology working in nature man made nanomaterial and impact of nanotechnology illustrated with examples It goes on to describes general synthetic approaches and strategies and also deals with the characterization of nanomaterial using modern tools and techniques to give basic understanding to those interested in learning this emerging area It then deals with different kinds of nanomaterial such as inorganics carbon based nanocomposites and self assembled supramolecular nano structures in terms of their varieties synthesis properties etc In addition it contains chapters devoted to unique properties with mathematical treatment wherever applicable and the novel applications dealing with information technology pollution control environment water energy nanomedicine healthcare consumer goods etc

*21st Century Nanoscience - A Handbook* Klaus D. Sattler,2020-04-02 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field The fifth volume in a ten volume set covers exotic nanostructures and quantum systems Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanoscience extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond

**21st Century Nanoscience** Klaus D. Sattler, 2022-01-18 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanoscience extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond Gastric Cancer Prewarning and Early Diagnosis System Daxiang Cui, 2017-06-21 The book explores recent developments in the application of nanotechnology in the early detection of gastric cancer It discusses various aspects such as screening for gastric cancer associated biomarkers establishing new ultrasensitive detection methods based on nanoparticle labeling and nanoeffects developing a new generation of nanodevices for high throughput examination of serum and breath biomarkers developing multifunctional nanoprobe for targeted imaging and simultaneous therapy of gastric cancer evaluating the biosafety of multifunctional nanoprobe and the establishment of a pre warning and early diagnosis system It also presents clinical applications and prospects The book provides a valuable reference for researchers in nanomedicine and clinicians involved in gastric cancer and radiology Advanced Materials for Biomechanical Applications Ashwani Kumar, Mangey Ram, Yogesh Kumar Singla, 2022-05-26 This book provides in depth knowledge about cross rolling of biomedical alloys cellulose magnetic iron oxide nanoparticles magnesium based nanocomposites titanium titanium alloys stainless steel and improved biodegradable implants materials for biomechanical applications like joint replacements bone plates bone cement artificial ligaments and tendons dental implants for tooth fixation and hip implants It comprehensively covers advancements in materials including graphene reinforced magnesium metal matrix magnesium and its alloys and 2D nanomaterials The text discusses important topics including advanced materials for biomechanical applications design and analysis of stainless steel 316L for femur bone fracture healing design and manufacturing of prosthetic dental implants a biomechanical study of a low cost prosthetic leg and an energy harvesting mechanism for walking applications The text will serve as a useful text for graduate students academic researchers and general practitioners in areas including materials science manufacturing engineering mechanical

engineering and biomechanical engineering      Advances in Nanostructured Materials Bibhu Prasad Swain,2022-03-30 This book presents recent advances in nanostructured materials It describes the characterization of nanomaterials their preparation methods and performance testing techniques the design and development of nano scale devices and the applications of nanomaterials with examples taken from different industries such as energy bioengineering and medicine The book is broadly divided into sections such as nanostructure semiconductor materials for device applications nanostructured ferroelectric and ferromagnetic materials The topics covered include experimental approaches of device fabrication photovoltaics and supercapacitors applications etc Given the contents the book will be useful for students researchers and professionals working in the area of nanotechnology and nanomaterials      **Functionalized Magnetic Nanomaterials** Shikha Gulati,2025-11-01 This contributed volume discusses advanced applications of functionalized magnetic nanomaterials FMNs across biomedical and industrial sectors exploring their innovative uses in drug delivery diagnostic imaging water treatment and energy technologies It highlights the interdisciplinary nature of FMNs examining their roles in cancer treatment biosensing and waste management while also addressing regulatory economic and safety aspects Through case studies and a focus on future trends the book provides a comprehensive understanding of FMNs potential to transform various fields The intended audience includes researchers professionals and students in materials science biomedical engineering environmental science and industrial technology      **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      **Treatise on Geophysics, Volume 2** G David Price,2010-04-20 Treatise on Geophysics Mineral Physics Volume 2 provides a comprehensive review of the current state of understanding of mineral physics Each chapter demonstrates the significant progress that has been made in the understanding of the physics and chemistry of minerals and also highlights a number of issues which are still outstanding or that need further work to resolve current contradictions The book first reviews the current status of our understanding of the nature of the deep Earth These include the seismic properties of rocks and minerals problems of the lower mantle and the core mantle boundary and the state of knowledge on mantle chemistry and the nature and evolution of the core The discussions then turn to the theory



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