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Magnetic Oxides



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Magnetic Oxides

**Lamberto Duò, Marco Finazzi, Franco
Ciccacci**



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Magnetic Oxides Gerald F. Dionne, 2010-03-26 Magnetic Oxides offers a cohesive up to date introduction to magnetism in oxides Emphasizing the physics and chemistry of local molecular interactions essential to the magnetic design of small structures and thin films this volume provides a detailed view of the building blocks for new magnetic oxide materials already advancing research and development of nano scale technologies Clearly written in a well organized structure readers will find a detailed description of the properties of magnetic oxides through the prism of local interactions as an alternative to collective electron concepts that are more applicable to metals and semiconductors Researchers will find Magnetic Oxides a valuable reference Magnetic Oxides and Composites II Rajshree B. Jotania, Sami H. Mahmood, 2020-10-15 Magnetic

oxides have highly interesting applications in the fields of permanent magnets microwave devices magnetic refrigeration sensors catalysis and the health sector This book focuses on the synthesis characterization and applications of various perovskites garnets manganites carbon based metal oxide nanocomposites nanoferrites and graphene metal oxide nanocomposites Keywords Magnetic Oxides Permanent Magnets Microwave Devices Magnetic Refrigeration Sensors Catalysis Perovskites Nanoferrites Manganites Rare Earth Iron Garnet Graphene Metal Oxide Nanocomposites Carbon Nanomaterials Mesoporous Materials Nanocatalysts Multifunctional Ferrites Magnetocaloric Effect Biosynthesis Photo Catalysis Antibacterial Activity High Density Recording Media Magnetic Oxides and Composites Rajshree B. Jotania, Sami H. Mahmood, 2018-05-10 The book focuses on the relevant basic concepts of Magnetic oxides as well as on synthesis routes and important applications of spinel ferrites hexaferrites and magnetic oxide nanomaterials Keywords Magnetic Oxides Spinel Ferrites Hexaferrites Magnetoelectric Ceramic Composites Soft Ferrites Nano Size Spinel Ferrites Magnetic Nanoparticles Device Miniaturization **Magnetic, Ferroelectric, and Multiferroic Metal Oxides** Biljana

Stojanovic, 2018-01-02 Magnetic Ferroelectric and Multiferroic Metal Oxides covers the fundamental and theoretical aspects of ferroics and magnetoelectrics their properties and important technological applications serving as the most comprehensive up to date reference on the subject Organized in four parts Dr Biljana Stojanovic leads expert contributors in providing the context to understand the material Part I Introduction the theoretical and practical aspects of ferroelectrics Part II Ferroelectrics From Theory Structure and Preparation to Application magnetic metal oxides Part III Magnetic Oxides Ferromagnetics Antiferromagnetics and Ferrimagnetics multiferroics Part IV Multiferroic Metal Oxides and future directions in research and application Part V Future of Metal Oxide Ferroics and Multiferroics As ferroelectric materials are used to make capacitors with high dielectric constant transducers and actuators and in sensors reed heads and memories based on giant magnetoresistive effects this book will provide an ideal source for the most updated information Addresses ferroelectrics ferromagnetics and multiferroelectrics providing a one stop reference for researchers Provides fundamental theory and relevant important technological applications Highlights their use in capacitors with high dielectric constant

transducers and actuators and in sensors reed heads and memories based on giant magnetoresistive effects **Magnetic Oxides** Derek J. Craik,1975 **Nano-Crystalline and Thin Film Magnetic Oxides** Ivan Nedkov,M. Ausloos,2012-12-06 Proceedings of the NATO Advanced Research Workshop on Ferrimagnetic Nano crystalline and Thin Film Magneto-optical and Microwave Materials Sozopol Bulgaria 27 September 3 October 1998 Magnetic Properties of Antiferromagnetic Oxide Materials Lamberto Duò,Marco Finazzi,Franco Ciccacci,2010-04-16 This first focused treatment on a hot topic highlights fundamental aspects as well as technological applications arising from a fascinating area of condensed matter physics The editors have excellent track records and in light of the broadness of the topic retain the focus on antiferromagnetic oxides They thus cover such topics as dichroism in x ray absorption non magnetic substrates exchange bias ferromagnetic antiferromagnetic interface coupling and oxide multilayers as well as imaging using soft x ray microscopy The result is a very timely monograph for solid state physicists and chemists materials scientists electrical engineers physicists in industry physical laboratory technicians and suppliers of sensors Magnetic Oxides-1999. FSRC Book of Abstracts V. Stefan,1999-07-05 *Thin Films and Heterostructures for Oxide Electronics* Satishchandra B. Ogale,2005-07-15 Oxides form a broad subject area of research and technology development which encompasses different disciplines such as materials science solid state chemistry physics etc The aim of this book is to demonstrate the interplay of these fields and to provide an introduction to the techniques and methodologies involving film growth characterization and device processing The literature in this field is thus fairly scattered in different research journals covering one or the other aspect of the specific activity This situation calls for a book that will consolidate this information and thus enable a beginner as well as an expert to get an overall perspective of the field its foundations and its projected progress Magnetic Oxides and Composites II Rajshree B. Jotania,Sami H. Mahmood,2020-10-15 Magnetic oxides have highly interesting applications in the fields of permanent magnets microwave devices magnetic refrigeration sensors catalysis and the health sector This book focuses on the synthesis characterization and applications of various perovskites garnets manganites carbon based metal oxide nanocomposites nanoferrites and graphene metal oxide nanocomposites Keywords Magnetic Oxides Permanent Magnets Microwave Devices Magnetic Refrigeration Sensors Catalysis Perovskites Nanoferrites Manganites Rare Earth Iron Garnet Graphene Metal Oxide Nanocomposites Carbon Nanomaterials Mesoporous Materials Nanocatalysts Multifunctional Ferrites Magnetocaloric Effect Biosynthesis Photo Catalysis Antibacterial Activity High Density Recording Media

Bulletin of the STEFAN UNIVERSITY: Science and Technology of MAGNETIC OXIDES—1999; ISSN: 1098-1632. Editors of the Stefan University Press,1999-07-05 Bulletin of the STEFAN UNIVERSITY La Jolla CA92038 1007 e mail wisdom stefan university edu website http www stefan university edu Stefan Frontier Conferences Frontier Science Research Conferences FSRC La Jolla California 1999 The Stefan University Press **Nanopowders of Metal Oxides and Fluorides** Sergey Sokovnin,Vladislav Ilves,2022-12-27 One of the directions of nanotechnology is the production of

nanopowders NPs Nanopowders according to the currently widely used classification of nanomaterials belong to zero dimensional systems in which the limitation of wave functions occurs in all three directions Biological methods are considered the most environmentally friendly way to synthesize NPs but the possibility of biological contamination with mutated microorganisms cannot be ruled out This book presents a new method for producing simple and complex metal oxide and fluoride NPs based on the evaporation condensation process using pulsed electron beam evaporation It presents the results of more than 10 years of study of the characteristics of NPs produced using the aforementioned method This eco friendly method ensures the production of clean NPs which are mesoporous and suitable for use in various applications such as medicine spintronics optoelectronics dosimeters photocatalysis semiconductors and ultraviolet and blue lasers Importantly these NPs have the potential to be used as a drug delivery system and in the creation of new nanostructures that do not contain noble metals The book will be useful for the researchers in macromolecular science nanotechnology chemistry biology and medicine especially those with an interest in drug delivery or cancer therapy

Springer Handbook of Surface Science Mario Rocca,Talat Rahman,Luca Vattuone,2021-01-14 This handbook delivers an up to date comprehensive and authoritative coverage of the broad field of surface science encompassing a range of important materials such metals semiconductors insulators ultrathin films and supported nanoobjects Over 100 experts from all branches of experiment and theory review in 39 chapters all major aspects of solid state surfaces from basic principles to applications including the latest ground breaking research results Beginning with the fundamental background of kinetics and thermodynamics at surfaces the handbook leads the reader through the basics of crystallographic structures and electronic properties to the advanced topics at the forefront of current research These include but are not limited to novel applications in nanoelectronics nanomechanical devices plasmonics carbon films catalysis and biology The handbook is an ideal reference guide and instructional aid for a wide range of physicists chemists materials scientists and engineers active throughout academic and industrial research

Nanomagnetic Materials Akinobu Yamaguchi,Atsufumi Hirohata,Bethanie Stadler,2021-06-28 Nanomagnetic Materials Fabrication Characterization and Application explores recent studies of conventional nanomagnetic materials in spintronics data storage magnetic sensors and biomedical applications In addition the book also reviews novel magnetic characteristics induced in two dimensional materials diamonds and those induced by the artificial formation of lattice defect and heterojunction as novel nanomagnetic materials Nanomagnetic materials are usually based on d and f electron systems They are an important solution to the demand for higher density of information storage arising from the emergence of novel technologies required for non volatile memory systems Advances in the understanding of magnetization dynamics and in the characteristics of nanoparticles or surface of nanomagnetic materials is resulting in greater expansion of applications of nanomagnetic materials including in biotechnology sensor devices energy harvesting and power generating systems This book provides a cogent overview of the latest research on novel nanomagnetic materials including spintronic

nanomagnets molecular nanomagnets self assembling magnetic nanomaterials nanoparticles multifunctional materials and heterojunction induced novel magnetism Explains manufacturing principles and process for nanomagnetic materials Discusses physical and chemical properties and potential industrial applications such as magnetic data storage sensors oscillator permanent magnets power generations and biomedical applications Assesses the major challenges of using magnetic nanomaterials on a broad scale **Epitaxial Growth of Complex Metal Oxides** Gertjan Koster, Mark

Huijben, Guus Rijnders, 2015-05-14 The atomic arrangement and subsequent properties of a material are determined by the type and conditions of growth leading to epitaxy making control of these conditions key to the fabrication of higher quality materials Epitaxial Growth of Complex Metal Oxides reviews the techniques involved in such processes and highlights recent developments in fabrication quality which are facilitating advances in applications for electronic magnetic and optical purposes Part One reviews the key techniques involved in the epitaxial growth of complex metal oxides including growth studies using reflection high energy electron diffraction pulsed laser deposition hybrid molecular beam epitaxy sputtering processes and chemical solution deposition techniques for the growth of oxide thin films Part Two goes on to explore the effects of strain and stoichiometry on crystal structure and related properties in thin film oxides Finally the book concludes by discussing selected examples of important applications of complex metal oxide thin films in Part Three Provides valuable information on the improvements in epitaxial growth processes that have resulted in higher quality films of complex metal oxides and further advances in applications for electronic and optical purposes Examines the techniques used in epitaxial thin film growth Describes the epitaxial growth and functional properties of complex metal oxides and explores the effects of strain and defects **Defect-Induced Magnetism in Oxide Semiconductors** Parmod Kumar, Jitendra Pal Singh, Vinod

Kumar, 2023-05-26 Defect Induced Magnetism in Oxide Semiconductors provides an overview of the latest advances in defect engineering to create new magnetic materials and enable new technological applications First the book introduces the mechanisms behavior and theory of magnetism in oxide semiconductors and reviews the methods of inducing magnetism in these materials Then strategies such as pulsed laser deposition and RF sputtering to grow oxide nanostructured materials with induced magnetism are discussed This is followed by a review of the most relevant postdeposition methods to induce magnetism in oxide semiconductors including annealing ion irradiation and ion implantation Examples of defect induced magnetism in oxide semiconductors are provided along with selected applications This book is a suitable reference for academic researchers and practitioners and for people engaged in research and development in the disciplines of materials science and engineering Reviews the magnetic electrical dielectric and optical properties of oxide semiconductors with defect induced magnetism Discusses growth and post deposition strategies to grow oxide nanostructured materials such as oxide thin films with defect induced magnetism Provides examples of materials with defect induced magnetism such as zinc oxide cerium dioxide hafnium dioxide and more Tailored Functional Oxide Nanomaterials Chiara Maccato, Davide

Barreca,2022-03-07 Tailored Functional Oxide Nanomaterials A comprehensive exploration of the preparation and application of metal oxide nanomaterials Tailored Functional Oxide Nanomaterials From Design to Multi Purpose Applications delivers a one of a kind discussion of the fundamentals and key applications of metal oxide nanomaterials The book explores everything from their preparation to the mastering of their characteristics in an interdisciplinary view The distinguished authors address theoretical research and advanced technological utilizations illustrating key issues for the understanding and real world end uses of the most important class of inorganic materials The interplay between the design preparation chemico physical characterization and functional behaviors of metal oxide nanomaterials in a variety of fields is presented Up to date work and knowledge on these materials is also described with fulsome summaries of important applications that are relevant to researchers pursuing safety sustainability and energy end uses Readers will also find A thorough introduction to vapor phase growth of metal oxide thin films and nanostructures Comprehensive explorations of addressing complex transition metal oxides at the nanoscale including bottom up syntheses of nano objects and properties Practical discussions of nanosized oxides supported on mats of carbon nanotubes including synthesis strategies and performances of Ti CNT systems In depth examinations of computational approaches to the study of oxide nanomaterials and nanoporous oxides Perfect for materials scientists inorganic chemists physicists catalytic chemists and chemical engineers Tailored Functional Oxide Nanomaterials will also earn a place in the libraries of solid state chemists **Thin Film**

Metal-Oxides Shriram Ramanathan,2009-12-03 Thin Film Metal Oxides provides a representative account of the fundamental structure property relations in oxide thin films Functional properties of thin film oxides are discussed in the context of applications in emerging electronics and renewable energy technologies Readers will find a detailed description of deposition and characterization of metal oxide thin films theoretical treatment of select properties and their functional performance in solid state devices from leading researchers Scientists and engineers involved with oxide semiconductors electronic materials and alternative energy will find Thin Film Metal Oxides a useful reference Noble Metal-Metal Oxide Hybrid Nanoparticles Satyabrata Mohapatra,Tuan Anh Nguyen,Phuong Nguyen-Tri,2018-10-11 Noble Metal Metal Oxide Hybrid Nanoparticles Fundamentals and Applications sets out concepts and emerging applications of hybrid nanoparticles in biomedicine antibacterial energy storage and electronics The hybridization of noble metals Gold Silver Palladium and Platinum with metal oxide nanoparticles exhibits superior features when compared to individual nanoparticles In some cases metal oxides act as semiconductors such as nano zinc oxide or titanium oxide nanoparticles where their hybridization with silver nanoparticles enhanced significantly their photocatalytic efficiency The book highlights how such nanomaterials are used for practical applications Examines the properties of metal metal oxide hybrid nanoparticles that make them so adaptable Explores the mechanisms by which nanoparticles interact with each other showing how these can be exploited for practical applications Shows how metal oxide hybrid nanomaterials are used in a range of industry sectors including energy

the environment and healthcare **Solution Methods for Metal Oxide Nanostructures** Rajaram S. Mane, Vijaykumar Jadhav, Abdullah M. Al-Enizi, 2023-06-27

Solution Methods for Metal Oxide Nanostructures reviews solution processes that are used for synthesizing 1D 2D and 3D metal oxide nanostructures in either thin film or in powder form for various applications. Wet chemical synthesis methods deal with chemical reactions in the solution phase using precursors at proper experimental conditions. Wet chemical synthesis routes offer a high degree of controllability and reproducibility for 2D nanomaterial fabrication. Solvothermal synthesis, template synthesis, self-assembly, oriented attachment, hot injection, and interface-mediated synthesis are the main wet chemical synthesis routes for 2D nanomaterials. Solution Methods for Metal Oxide Nanostructures also addresses the thin film deposition of metal oxides nanostructures, which plays a very important role in many areas of chemistry, physics, and materials science. Each chapter includes information on a key solution method and their application in the design of metal oxide nanostructured materials with optimized properties for important applications. The pros and cons of the solution method and their significance and future scope is also discussed in each chapter. Readers are provided with the fundamental understanding of the key concepts of solution synthesis methods for fabricating materials and the information needed to help them select the appropriate method for the desired application. Reviews the most relevant wet chemical solution methods for metal oxide nanostructures including sol-gel, solvothermal, hydrothermal, co-precipitation methods, and more. Addresses thin film deposition techniques for metal oxide nanostructures such as spray pyrolysis, electrodeposition, spin coating, and self-assembly. Discusses the pros and cons of each solution method and its significance and future opportunities.

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