

Junqiao Wu · Jinbo Cao
Wei-Qiang Han · Anderson Janotti
Ho-Cheol Kim *Editors*

Functional Metal Oxide Nanostructures

Functional Metal Oxide Nanostructures Springer Series In Materials Science

Arthur James Wells



Functional Metal Oxide Nanostructures Springer Series In Materials Science:

Functional Metal Oxide Nanostructures Junqiao Wu, Jinbo Cao, Wei-Qiang Han, Anderson Janotti, Ho-Cheol Kim, 2011-09-22 Metal oxides and particularly their nanostructures have emerged as an important class of materials with a rich spectrum of properties and great potential for device applications. In this book, contributions from leading experts emphasize basic physical properties, synthesis and processing, and the latest applications in such areas as energy catalysis and data storage. Functional Metal Oxide Nanostructures is an essential reference for any materials scientist or engineer with an interest in metal oxides and particularly in recent progress in defect physics, strain effects, solution-based synthesis, ionic conduction, and their applications.

Handbook of Nanofibers and Nanocomposites Mohd Yusuf, Aminoddin Haji, 2023-07-27 Textiles with functional properties such as antimicrobial finishes, drug delivery, ultraviolet resistance, electrical conductivity, superhydrophilicity, superhydrophobicity, self-cleaning, EMI shielding, flame retardance, can be developed with the help of nanotechnology. Nanomaterials can be added to the textile materials at different stages of the production process, including spinning, finishing, and coating. Nanofibers are textile fibers that show enhanced properties due to larger surface area compared with ordinary textile fibers. They have diameters less than 1000 nm and can hold nanoparticles, drugs, extracts, essential oils, etc. in their polymeric matrix. They actually encapsulate these compounds and are able to control their release by delivering them only at the targeted sites. Recently, nanofibers and textile nanocomposites have attracted great interest in the industry and research, and electrospinning is the most famous among the several methods that have been developed for the fabrication of nanofibers. This book is a collection of the reviews on the recent advances in the fields of nanofibers, nanocomposites, and their applications in textiles as well as related fields.

Low Power Semiconductor Devices and Processes for Emerging Applications in Communications, Computing, and Sensing Sumeet Walia, 2018-08-06 The book addresses the need to investigate new approaches to lower energy requirement in multiple application areas and serves as a guide into emerging circuit technologies. It explores revolutionary device concepts, sensors, and associated circuits and architectures that will greatly extend the practical engineering limits of energy-efficient computation. The book responds to the need to develop disruptive new system architectures and semiconductor processes aimed at achieving the highest level of computational energy efficiency for general purpose computing systems. Discusses unique technologies and materials only available in specialized journals and conferences. Covers emerging materials and device structures such as ultra-low power technologies, nanoelectronics, and microsystem manufacturing. Explores semiconductor processing and manufacturing, device design, and performance. Contains practical applications in the engineering field as well as graduate studies. Written by international experts from both academia and industry.

Nano-Engineering at Functional Interfaces for Multidisciplinary Applications Sai Sathish Ramamurthy, Seemesh Bhaskar, Narendra Reddy, 2024-10-18 Nano Engineering at Functional Interfaces for Multidisciplinary Applications. Electrochemistry, Photoplasmonics, Antimicrobials.

and Anticancer Applications provides a comprehensive overview of the fundamentals and latest advances of nano engineering strategies for the design development and fabrication of novel nanostructures for different applications in the fields of photoplasmonics and electrochemistry as well as antibacterial and anticancer research areas The book begins with an introduction to the fundamentals and characteristics of nanostructured interfaces and their associated technologies including an overview of their potential applications in different fields The following chapters present a thorough discussion of the synthesis processing and characterization methods of nanomaterials with unique functionalities suitable for energy harvesting food and textile applications electrocatalysis biomedical applications and more It then concludes outlining research future directions and potential industrial applications Presents the advantages and impact of nano engineering in technological advances with up to date discussions on their applications Covers research directions and potential future applications of nano engineering in industry Includes case studies that illustrate important processes

Thin Films

Dongfang Yang, Katherine Gibson, 2023-03-29 A thin film is a layer of material ranging from fractions of a nanometer to several micrometers in thickness Thin films have been employed in many applications to provide surfaces that possess specific optical electronic chemical mechanical and thermal properties Through ten chapters consisting of original research studies and literature reviews written by experts from the international scientific community this book covers the deposition and application of thin films

Functional Metal-oxide Nanostructures Materials Research Society. Meeting.

Symposium V, 2009

Functionalized Nanomaterials II Vineet Kumar, Praveen Guleria, Nandita Dasgupta, Shivendu Ranjan, 2021-04-11

The functionalization of nanomaterials provides them with some unique properties making the same nanomaterial amenable for various applications by simply manipulating functional components However functionalized nanomaterials also face some challenges along with some encouraging new applications in the future This book provides a detailed account of applications of the functionalization of nanomaterials This book can serve as a reference book for scientific investigators including doctoral and post doctoral scholars and undergraduate and graduate students in context with the scope of applications of functionalized nanomaterials It also highlights recent advances challenges and opportunities in the application of nanomaterials This book will provide critical and comparative data for nanotechnologists It may also be beneficial for multidisciplinary researchers industry personnel journalists policy makers and the common public to understand the scope of functionalized nanomaterials in detail and in depth Features This book covers various applications of functionalized nanomaterials It discusses recent global research trends and future applications of functionalized nanomaterials It highlights the need for more rigorous regulatory frameworks for the safe use of functionalized nanomaterials It contains contributions from international experts and will be a valuable resource for researchers

Nanostructured Carbon Nitrides for Sustainable Energy and Environmental Applications Shamik Chowdhury, Mu.

Naushad, 2022-06-12 In recent years carbon nitride a new type of two dimensional 2D material has attracted great interest in

terms of fundamental scientific investigation and potential practical applications for a range of energy and environmental technologies This can be largely attributed to its optoelectronic and physicochemical properties including moderate band gap adjustable energy band configuration tailor made surface functionalities low cost metal free nature remarkable thermochemical stability and environmentally benign manufacturing protocol Nanostructured Carbon Nitrides for Sustainable Energy and Environmental Applications offers a comprehensive authoritative and critical account of the recent progress in the development and application of multifunctional carbon nitride materials and their hybrid heterostructures There are two major objectives of this book first to provide a systematic overview of the key design principles toward the fabrication of high performance carbon nitride based nanostructures and second to provide insights into a range of clean energy technologies and environmental remediation methods that build on these nanoengineered carbon nitrides This book serves as an important reference source for materials scientists and engineers who are interested in developing their understanding of how carbon based nanomaterials are being used for sustainable energy and environmental applications Helps users gain deeper insights into various aspects of carbon nitride materials from multidisciplinary perspectives Covers how to apply nanostructured carbon nitrides to tackle global energy and environmental challenges in a sustainable manner Explains the design and fabrication of carbon nitride based materials with optimized structures controlled morphologies and tailored properties for practical implementation

Surfaces and Interfaces of Metal Oxide Thin Films, Multilayers, Nanoparticles and Nano-composites Alejandro G. Roca, Paolo Mele, Hanae Kijima-Aoki, Elvira Fantechi, Jana K. Vejpravova, Martin Kalbac, Satoru Kaneko, Tamio Endo, 2021-09-20 This book provides a general overview and current state of the art of different types of metal oxide nanomaterials either in nanoparticles or thin film structure It covers from the development and optimization of different nanofabrication synthesis techniques for nanostructures which are currently the attention of the research community the study of the structure and interactions by different characterization techniques of heterostructured materials and the final impact in different applications such as nanotherapy data storage super magnets high frequency devices The book s 13 chapters provide deep insight into the intriguing science of oxide materials and include contributions on novel technologies to fabricate nanomaterials with a broad range of functional properties semiconducting magnetic ferroelectric thermoelectric optical flexible and mechanical This book is intended to the experts for consolidation of their knowledge but also for students who aim to learn and get basics of nanostructured metal oxides in diverse forms

Mechanistic Studies of the Densification Behavior of Nanostructure Zirconium Oxide Jin Xu, 2006 **Metal Oxide Nanostructures** Daniela Nunes, Ana Pimentel, Lidia Santos, Pedro Barquinha, Luis Pereira, Elvira Fortunato, Rodrigo Martins, 2018-11-01 Metal Oxide Nanostructures Synthesis Properties and Applications covers the theoretical and experimental aspects related to design synthesis fabrication processing structural morphological optical and electronic properties on the topic In addition it reviews surface functionalization and hybrid materials focusing on the advantages of

these oxide nanostructures The book concludes with the current and future prospective applications of these materials Users will find a complete overview of all the important topics related to oxide nanostructures from the physics of the materials to its application Delves into hybrid structured metal oxides and their promising use in the next generation of electronic devices Includes fundamental chapters on synthesis design and the properties of metal oxide nanostructures Provides an in depth overview of novel applications including chromogenics electronics and energy

Functional Metal-Oxide Nanostructures: Volume 1406 Alberto Vomiero, Sanjay Mathur, Zhong Lin Wang, Eric Wei-Guang Diao, 2012-07-09

Symposium Z Functional Metal Oxide Nanostructures was held November 27 December 2 during the 2011 MRS Fall Meeting in Boston Massachusetts Metal oxides represent an assorted and appealing class of materials whose properties cover the entire range from metals to semiconductors to insulators and almost all aspects of material science and physics in areas including superconductivity and magnetism In the past few years a great deal of progress has been made in the field of metal oxide nanostructures particularly with regard to innovative synthetic pathways as well as the structural physical and chemical characterization modification and assembly of nanostructured oxides to exploit their nanoscopic properties and their size dependent modulation These proceedings captures some of the most recent developments in the field of synthesis structural and functional characterization of self assembled metal oxides nanostructures and heterostructures thereof to illustrate their application potential as functional materials

Toward Functional Nanomaterials Zhiming M Wang, 2010-03-14 This book presents a detailed overview of recent research developments on functional nanomaterials including synthesis characterization and applications This state of the art book is multidisciplinary in scope and international in authorship

Molecular Materials and Functional Polymers Werner J. Blau, Panagiotis Lianos, Ulrich Schubert, 2001-03-08 The articles in this book summarize the work presented at the final workshop of the COST European Cooperation in the Field of Scientific and Technical Research Action on Molecular Materials and Functional Polymers for Advanced Devices which was held in June 2000 in Patras Greece The collection gives an excellent overview of the state of the art in this field and the progress made by the coordinated research projects The results range over the synthesis physical properties and applications of molecular materials nanotubes fullerenes phthalocyanines inorganic and inorganic organic hybrid materials and functional polymers electronic conduction photoluminescence optical storage photovoltaic devices

Surfaces and Interfaces of Metal Oxide Thin Films, Multilayers, Nanoparticles and Nano-composites Alejandro G. Roca, Paolo Mele, Hanae Kijima-Aoki, Elvira Fantechi, Jana K. Vejpravova, Martin Kalbac, Satoru Kaneko, Tamio Endo, 2021 This book provides a general overview and current state of the art of different types of metal oxide nanomaterials either in nanoparticles or thin film structure It covers from the development and optimization of different nanofabrication synthesis techniques for nanostructures which are currently the attention of the research community the study of the structure and interactions by different characterization techniques of heterostructured materials and the final impact in different

applications such as nanotherapy data storage super magnets high frequency devices The book s 13 chapters provide deep insight into the intriguing science of oxide materials and include contributions on novel technologies to fabricate nanomaterials with a broad range of functional properties semiconducting magnetic ferroelectric thermoelectric optical flexible and mechanical This book is intended to the experts for consolidation of their knowledge but also for students who aim to learn and get basics of nanostructured metal oxides in diverse forms **The British National Bibliography** Arthur James Wells,2009

Functional Metal-Oxide Nanostructures: Junqiao Wu,Wei-Qiang Han,Anderson Janotti,Ho-Cheol Kim,2014-06-05 Metal oxides and their nanostructures have emerged as an important class of materials with a rich spectrum of properties and great potential for device applications These include transparent electrodes high electron mobility transistors gas sensors photovoltaic and photonic devices energy harvesting devices with multiferroic oxides nonvolatile memories with defective oxides etc The book addresses fundamental challenges related to synthesis characterization assembly and device applications of oxide nanostructures as well as the most recent progress in these fields Topics include physics and applications of phase transitions strain and interfaces in complex oxide nanostructures nano ionics and resistance switching in oxides assembly and processing of oxide nanostructures zinc oxide titanium dioxide other oxide semiconductors and their applications **Metal Oxide Nanoparticles in Organic Solvents** Markus Niederberger,Nicola Pinna,2009-09-17 Metal Oxide Nanoparticles in Organic Solvents discusses recent advances in the chemistry involved for the controlled synthesis and assembly of metal oxide nanoparticles the characterizations required by such nanoobjects and their size and shape depending properties In the last few years a valuable alternative to the well known aqueous sol gel processes was developed in the form of nonaqueous solution routes Metal Oxide Nanoparticles in Organic Solvents reviews and compares surfactant and solvent controlled routes as well as providing an overview of techniques for the characterization of metal oxide nanoparticles crystallization pathways the physical properties of metal oxide nanoparticles their applications in diverse fields of technology and their assembly into larger nano and mesostructures Researchers and postgraduates in the fields of nanomaterials and sol gel chemistry will appreciate this book s informative approach to chemical formation mechanisms in relation to metal oxides

1-Dimensional Metal Oxide Nanostructures Zainovia Lockman,2018-12-07 1 D metal oxide nanostructures especially those with semiconducting properties have attracted much attention in recent years due to their potential and emerging applications specifically in environment purification and energy devices For these applications there have been many efforts to grow 1 D nanostructures in the form of nanotubes nanorods and nanowires using processes that conserve energy are cost effective and can be scaled up for large scale production 1 Dimensional Metal Oxide Nanostructures gathers under one title the most recent development of oxide nanomaterials especially those fabricated via oxidation process in the nanoscale field Thermal and anodic oxidation processes are reviewed with an aim to offer an in depth understanding of mechanisms of 1 D nanostructure formation their characteristics and limitations Other

more common methods are also discussed including sol gel hydrothermal and other templated methods Important applications of 1 D nanostructures are then presented focusing on oxides like zinc oxide titanium oxide zirconium oxide copper oxide and iron oxide A chapter on carbon nanotubes hybrid with these oxides is also included as well as one on silicon oxide nanowires formation by local anodic oxidation process Aimed at researchers academics and engineers working across the fields of nanotechnology materials science chemistry physics semiconductors and environmental and biomedical engineering this essential reference enables readers to grasp the main concepts of nanomaterials in 1 D formation technique characteristics and uses It also encourages practical innovations in nanotechnology especially in curbing pressing global issues related to energy environment and security

Recent Advances in Complex Functional Materials Elson Longo, Felipe de Almeida La Porta, 2017-07-12 In this book we explore new approaches to understanding the physical and chemical properties of emergent complex functional materials revealing a close relationship between their structures and properties at the molecular level The primary focus of this book is on the ability to synthesize materials with a controlled chemical composition a crystallographic structure and a well defined morphology Special attention is also given to the interplay of theory simulation and experimental results in order to interconnect theoretical knowledge and experimental approaches which can reveal new scientific and technological directions in several fields expanding the versatility to yield a variety of new complex materials with desirable applications and functions Some of the challenges and opportunities in this field are also discussed targeting the development of new emergent complex functional materials with tailored properties to solve problems related to renewable energy health and environmental sustainability A more fundamental understanding of the physical and chemical properties of new emergent complex functional materials is essential to achieving more substantial progress in a number of technological fields With this goal in mind the editors invited acknowledged specialists to contribute chapters covering a broad range of disciplines

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