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NANOCRYSTALLINE METALS AND OXIDES

**Selected Properties
and Applications**

**Philippe Knauth
Joop Schoonman**



Kluwer Academic Publishers



Nanocrystalline Metals And Oxides Selected Properties And Applications

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Nanocrystalline Metals And Oxides Selected Properties And Applications:

Nanocrystalline Metals and Oxides Philippe Knauth, Joop Schoonman, 2006-04-11 Nanostructured materials have at least one dimension in the nanometer range. They became a very active research area in solid state physics and chemistry in recent years with anticipated applications in various domains including solar cells, electronics, batteries, and sensors. Nanocrystalline metals and oxides are dense polycrystalline solids with a mean grain size below 100 nm. This book is intended to give an overview on selected properties and applications of nanocrystalline metals and oxides by leading experts in the field. The first three chapters provide a very complete theoretical treatment of thermodynamics and atom/ion transport for nanocrystalline materials. The following chapters are experts' views on the development of experimental characterization techniques for nanocrystalline solids with emphasis on electroceramic materials. **Nanocrystalline Metals and Oxides** is intended for a broad range of readers: foremost chemists, physicists, and materials scientists. Theoretical physicists and chemists will certainly also profit from this book. The electroceramics and solid state ionics community are particularly addressed given the main interests of the editors.

Handbook of Nanophysics Klaus D. Sattler, 2010-09-17 Providing the framework for breakthroughs in nanotechnology, this landmark publication is the first comprehensive reference to cover both fundamental and applied physics at the nanoscale. After discussing the theoretical principles and measurements of nanoscale systems, the organization of the set follows the historical development of nanoscience. Each peer-reviewed chapter presents a didactic treatment of the physics underlying the nanoscale materials applications and detailed experimental results. State-of-the-art scientific content is enriched with fundamental equations and illustrations, many in color.

[Flexible Electronics](#) William S. Wong, Alberto Salleo, 2009-04-09 Flexible electronics is rapidly finding many mainstream applications where low cost, ruggedness, light weight, unconventional form factors, and ease of manufacturability are just some of the important advantages over their conventional rigid substrate counterparts. **Flexible Electronics: Materials and Applications** surveys the materials, systems, and processes that are used to fabricate devices that can be employed in a wide variety of applications including flexible flat panel displays, medical image sensors, photovoltaics, and electronic paper. Materials discussed range from polymeric semiconductors to nanotube transparent conductors, highlighting the important characteristics of each system and their target applications. An overview of the performance benchmarks for the different materials is given in order to allow a direct comparison of these different technologies. Furthermore, the devices and processes most suitable for given applications in flexible electronics are identified. Topics covered include: An overview and history of flexible electronics; Novel materials for solution processable thin film electronic devices and their properties; Low temperature processing of conventional materials and devices on plastic foils; Novel techniques such as printing and roll-to-roll processing for large area flexible electronics manufacturing; Materials and device physics relevant to flexible electronics; Device integration on flexible substrates; Mechanical and electronic characteristics for thin film transistors and nano-scale transparent conductors on

flexible platforms Applications towards flexible displays sensors actuators solar energy radio frequency identification and micro electro mechanical systems Written by leading researchers in the field Flexible Electronics Materials and Applications serves as a reference for researchers engineers and students interested in the characteristics capabilities and limitations of these exciting materials and emerging applications

Nanocomposites Philippe Knauth, Joop Schoonman, 2007-10-27 Nanocomposites have been receiving more and more attention given the improvement of synthesis techniques and the availability of powerful characterization techniques The aim of the book is to introduce nanocomposite materials using a broad range of inorganic and organic solids It also presents recent and not very common developments in especially spectroscopic characterization techniques including Mossbauer EXAFS NMR This should make the book attractive for a broad range of readers including chemists and physicists

Kirk-Othmer Chemical Technology and the Environment, 2 Volume Set Wiley, 2007-05-21 The two volume reference work Chemical Technology and the Environment provides readers with knowledge on contemporary issues in environmental pollution prevention and control as well as regulatory health and safety issues as related to chemical technology It introduces and expands the knowledge on emerging green materials and processes and greener energy technology as well as more general concepts and methodology including sustainable development and chemistry and green chemistry Based on Wiley's renowned Kirk Othmer Encyclopedia of Chemical Technology this compact reference features the same breadth and quality of coverage and clarity of presentation found in the original

Materials Challenges in Alternative and Renewable Energy II George Wicks, Jack Simon, Ragaiy Zidan, Robin Brigmon, Gary S. Fischman, Sivaram Arepalli, Ann Norris, Megan McCluer, 2013-01-03 The overall efficiency effectiveness and practicality of potential future energy sources and systems are directly related to many materials related factors This volume features 30 papers presented during the 2012 Materials Challenges in Alternative and Renewable Energy Conference They cover the latest developments involving materials for alternative and renewable energy sources and systems including batteries and energy storage hydrogen solar wind geothermal biomass and nuclear as well as materials availability the energy grid and nanocomposites

Electroceramic-Based MEMS Nava Setter, 2006-03-30 The book is focused on the use of functional oxide and nitride films to enlarge the application range of MEMS microelectromechanical systems including micro sensors micro actuators transducers and electronic components for microwaves and optical communications systems Applications emerging applications fabrication technology and functioning issues are presented and discussed The book covers the following topics Part A Applications and devices with electroceramic based MEMS Chemical microsensors Microactuators based on thin films Micromachined ultrasonic transducers Thick film piezoelectric and magnetostrictive devices Pyroelectric microsystems RF bulk acoustic wave resonators and filters High frequency tunable devices MEMS for optical functionality Part B Materials fabrication technology and functionality Ceramic thick films for MEMS Piezoelectric thin films for MEMS Materials and technology in thin films for tunable high frequency devices

Permittivity tunability and loss in ferroelectrics for reconfigurable high frequency electronics Microfabrication of piezoelectric MEMS Nano patterning methods for electroceramics Soft lithography emerging techniques The book is addressed to engineers scientists and researchers of various disciplines device engineers materials engineers chemists physicists and microtechnologists who are working and or interested in this fast growing and highly promising field The publication of this book follows a Special Issue on electroceramic based MEMS that was published in the Journal of Electroceramics at the beginning of 2004 The ten invited papers of that special issue were adapted by the authors into chapters of the present book and five additional chapters were added

Materials For Sustainable Energy: A Collection Of Peer-reviewed Research And Review Articles From Nature Publishing Group Vincent Dusastre, 2010-10-05 The search for cleaner cheaper smaller and more efficient energy technologies has to a large extent been motivated by the development of new materials The aim of this collection of articles is therefore to focus on what materials based solutions can offer and show how the rational design and improvement of their physical and chemical properties can lead to energy production alternatives that have the potential to compete with existing technologies In terms of alternative means to generate electricity that utilize renewable energy sources the most dramatic breakthroughs for both mobile i e transportation and stationary applications are taking place in the fields of solar and fuel cells And from an energy storage perspective exciting developments can be seen emerging from the fields of rechargeable batteries and hydrogen storage

Electron Microscopy and Analysis 2003 S McVitie, D McComb, 2004-02-19 Electron microscopy is now a mainstay characterization tool for solid state physicists and chemists as well as materials scientists Containing the proceedings from the Electron Microscopy and Analysis Group EMAG conference in September 2003 this volume covers current developments in the field primarily in the UK These conferences are biennial events organized by the EMAG of the Institute of Physics to provide a forum for discussion of the latest developments in instrumentation techniques and applications of electron and scanning probe microscopies

Nanotechnology in the Security Systems Janez Bonča, Sergei Kruchinin, 2014-07-23 The topics discussed at the NATO Advanced Research Workshop Nanotechnology in the Security Systems included nanophysics nanotechnology nanomaterials sensors biosensors security systems explosive detection There have been many significant advances in the past two years and some entirely new directions of research are just opening up Recent advances in nano science have demonstrated that fundamentally new physical phenomena are found when systems are reduced in size with dimensions comparable to the fundamental microscopic length scales of the investigated material Recent developments in nanotechnology and measurement techniques now allow experimental investigation of transport properties of nano devices This work will be of interest to researchers working in spintronics molecular electronics and quantum information processing

Solid State Proton Conductors Philippe Knauth, Maria Luisa Di Vona, 2012-01-18 Proton conduction can be found in many different solid materials from organic polymers at room temperature to inorganic oxides at high temperature Solid state

proton conductors are of central interest for many technological innovations including hydrogen and humidity sensors membranes for water electrolyzers and most importantly for high efficiency electrochemical energy conversion in fuel cells Focusing on fundamentals and physico chemical properties of solid state proton conductors topics covered include Morphology and Structure of Solid Acids Diffusion in Solid Proton Conductors by Nuclear Magnetic Resonance Spectroscopy Structure and Diffusivity by Quasielastic Neutron Scattering Broadband Dielectric Spectroscopy Mechanical and Dynamic Mechanical Analysis of Proton Conducting Polymers Ab initio Modeling of Transport and Structure Perfluorinated Sulfonic Acids Proton Conducting Aromatic Polymers Inorganic Solid Proton Conductors Uniquely combining both organic polymeric and inorganic proton conductors Solid State Proton Conductors Properties and Applications in Fuel Cells provides a complete treatment of research on proton conducting materials

Diffusion Fundamentals Jörg Kärger, 2005 *Synthesis, Properties, and Applications of Oxide Nanomaterials* José A. Rodríguez, Marcos Fernández-García, 2007-03-30 Current oxide nanomaterials knowledge to draw from and build on Synthesis Properties and Applications of Oxide Nanomaterials summarizes the existing knowledge in oxide based materials research It gives researchers one comprehensive resource that consolidates general theoretical knowledge alongside practical applications Organized by topic for easy access this reference Covers the fundamental science synthesis characterization physicochemical properties and applications of oxide nanomaterials Explains the fundamental aspects quantum mechanical and thermodynamic that determine the behavior and growth mode of nanostructured oxides Examines synthetic procedures using top down and bottom up fabrication technologies involving liquid solid or gas solid transformations Discusses the sophisticated experimental techniques and state of the art theory used to characterize the structural and electronic properties of nanostructured oxides Describes applications such as sorbents sensors ceramic materials electrochemical and photochemical devices and catalysts for reducing environmental pollution transforming hydrocarbons and producing hydrogen With its combination of theory and real world applications plus extensive bibliographic references Synthesis Properties and Applications of Oxide Nanomaterials consolidates a wealth of current complex information in one volume for practicing chemists physicists and materials scientists and for engineers and researchers in government industry and academia It is also an outstanding reference for graduate students in chemistry chemical engineering physics and materials science

Nanostructured and Advanced Materials for Applications in Sensor, Optoelectronic and Photovoltaic Technology Ashok K. Vaseashta, D. Dimova-Malinovska, J.M. Marshall, 2005-09-01 The principal aim of this NATO Advanced Study Institute ASI Nanostructured and Advanced Materials for Applications in Sensor Optoelectronic and Photovoltaic Technology was to present a contemporary overview of the field of nanostructured and advanced electronic materials Nanotechnology is an emerging scientific field receiving significant worldwide attention On a nanometer scale materials or structures may possess new and unique physical properties Some of these are now known to the scientific community but there may well be many properties

not yet known to us rendering it as a fascinating area of research and a suitable subject for a NATO ASI Yet another aspect of the field is the possibility for creating meta stable phases with unconventional properties and the ultra miniaturization of current devices sensors and machines Such nanotechnological and related advanced materials have an extremely wide range of potential applications viz nanoscale electronics sensors optoelectronics photonics nano biological systems na medicine energy storage systems etc This is a wide ranging subject area and therefore requires the formation of multi disciplinary teams of physicists chemists materials scientists engineers molecular biologists pharmacologists and others to work together on the synthesis and processing of materials and structures the understanding of their physical properties the design and fabrication of devices etc Hence in formulating our ASI we adopted an int disciplinary approach bringing together recognised experts in the various fields while retaining a level of treatment accessible to those active in specific individual areas of research and development

Diffusion in Advanced Materials and Processing Yong Ho Sohn,C. Campbell,D.

Lewis,Afina Lupulescu,2007-09-04 Selected peer reviewed papers from the Symposium TMS 136th Annual Meeting and Exhibition Orlando FL February 25 March 1 2007 Synthesis, Functionalization and Surface Treatment of Nanoparticles

Marie-Isabelle Baraton,2003 Synthesis Functionalization and Surface Treatment of Nanoparticles is an area of crucial importance in the emerging field of nanotechnology Controlling the surface chemical composition and mastering its modification at the nanometer scale are critical issues for high added value applications involving nanoparticles The basic applications of surface functionalization range from altering the wetting or adhesion characteristics and improving the nanoparticles dispersion in matrices to enhancing the catalytic properties and ordering the interfacial region and such The creation of specific surface sites on nanoparticles for selective molecular attachment is considered a promising approach for their applications in nanofabrication nanopatterning selfassembly nanosensors bioprobes drug delivery pigments photocatalysis LEDs etc This book presents novel and improved synthesis methods and approaches for controlling and functionalizing the nanoparticle surfaces to enhance the overall performance of the nanoparticles for targeted applications

Radiotracer Studies of Interfaces G. Horanyi,2004-09-18 Radiotracer Studies of Interfaces presents a selection of examples illustrating the application of radiotracer studies for different types of interfaces The value of radiotracer studies in fields such as food chemistry corrosion of metals neurochemistry biology and catalysis is revealed Separate chapters are devoted to the environmental problems connected with nuclear reactors and with the nuclear industry in general The book also presents efforts to minimize and avoid the risk of radioactive contamination in the environment by describing new approaches to the problem Demonstrates the use of radiotracers Contains a detailed discussion of double layer phenomena Separate chapters are devoted to the most important branches of science where radiotracer study of interfacial phenomena plays an important role

Electric and Electronic Applications of Metal Oxides Srikanta Moharana,Bibhuti Bhusan

Sahu,Santosh Kumar Satpathy,Tuan Anh Nguyen,2025-05-23 Electric and Electronic Applications of Metal Oxides provides a

comprehensive guide to the use of metal oxides in a variety of electronic and electric applications The book delivers a thorough understanding of the fundamental properties of metal oxides and their use across a wide range of electronic devices including Schottky diodes p n diodes thin film transistors field effect transistors Mott transition field effect transistors varistors high K dielectric capacitors devices with electron emission cold cathodes microelectronic technology high power and high temperature electronics transparent and flexible electronics resistive switching memory spintronics magnetic memory and piezoelectric devices In addition the book covers the latest advances and offers a glimpse of future prospects and challenges in the field The book is a valuable resource for researchers graduate students and professionals working in the field of materials science chemistry physics and engineering Provides a comprehensive overview of metal oxide fundamental properties related to electric and electronic applications Includes prospective challenges offering insights into future applications of metal oxides in electric and electronics Presents an outstanding reference for researchers material scientists engineers and students working in the fields of materials science chemistry physics and other related disciplines

Tin Oxide Materials Marcelo Ornaghi Orlandi, 2019-10-05 Tin Oxide Materials Synthesis Properties and Applications discusses the latest in metal oxides an emerging area in electronic materials As more is learned about this important materials system more functionalities and applications have been revealed This key reference on the topic covers important material that is ideal for materials scientists materials engineers and materials chemists who have been introduced to metal oxides as a general category of materials but want to take the next step and learn more about a specific material Provides a complete resource on tin oxide materials systems including in depth discussions of properties their synthesis modelling methods and applications Presents information on the well investigated SnO₂ but also includes discussions on its emerging stoichiometries such as SnO and Sn₃O₄ Includes the most relevant applications in varistors sensing devices fuel cells transistors biological studies and much more [Metal Oxide Nanoparticles, 2 Volume Set](#) Oliver Diwald, Thomas Berger, 2021-09-14 Ein umfassendes Referenzwerk f r Chemiker und Industriefachleute zum Thema Nanopartikel Nanopartikel aus Metalloxid sind ein wesentlicher Bestandteil zahlreicher nat rlicher und technologischer Prozesse von der Mineralumwandlung bis zur Elektronik Dar ber hinaus kommen Metalloxid Nanopartikel in Pulverform im Maschinenbau in der Elektronik und der Energietechnik zum Einsatz Das Werk Metal Oxide Nanoparticles Formation Functional Properties and Interfaces stellt die wichtigsten Synthese und Formulierungsans tze bei der Nutzung von Metalloxid Nanopartikeln als Funktionsmaterialien vor Es werden die blichen Verarbeitungswege erkl rt und die physikalischen und chemischen Eigenschaften der Partikel mithilfe von umfassenden und erg nzenden Charakterisierungsmethoden bewertet Dieses Werk kann als Einf hrung in die Formulierung von Nanopartikeln ihre Grenzfl chenchemie und ihre funktionellen Eigenschaften im Nanobereich genutzt werden Dar ber hinaus dient es zum vertiefenden Verst ndnis denn das Buch enth lt detaillierte Angaben zu fortschrittlichen Methoden bei der physikalischen chemischen Oberfl chen und Grenzfl chencharakterisierung

von Metalloxid Nanopartikeln in Pulvern und Dispersionen Erläuterung der Anwendung von Metalloxid Nanopartikeln und der wirtschaftlichen Auswirkungen Betrachtung der Partikelsynthese einschließlich der Grundsätze ausgewählter Bottom up Strategien Untersuchung der Formulierung von Nanopartikeln mit einer Auswahl von Verarbeitungs und Anwendungswegen Diskussion der Bedeutung von Partikeloberflächen und Grenzflächen für Strukturbildung Stabilität und funktionelle Materialeigenschaften Betrachtung der Charakterisierung von Metalloxid Nanopartikeln auf verschiedenen Längenskalen In diesem Buch finden Forscher im akademischen Bereich Chemiker in der Industrie und Doktoranden wichtige Erkenntnisse über die Synthese Eigenschaften und Anwendungen von Metalloxid Nanopartikeln

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