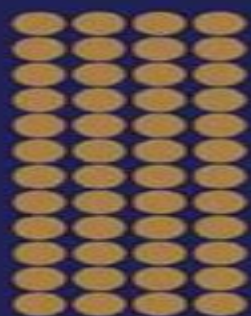


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# **NANOCRYSTALLINE METALS AND OXIDES**

**Selected Properties  
and Applications**

**Philippe Knauth  
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# Nanocrystalline Metals And Oxides Selected Properties And Applications

**Vincent Dusastre**



## **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

**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

**Flexible Electronics** William S. Wong, Alberto Salleo, 2009-04-09 Flexible electronics is rapidly finding many main stream 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

**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

**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

**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

**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

**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

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

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