



Nishad Deshpande
Sunil Gosavi

Metal Chalcogenides Thin Films-Fundamentals & its Sensor Applications

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Metal Chalcogenides Films Fundamentals Sensor Applications

**Abhijeet R. Kadam, Kranti
Zakde, Sanjay J. Dhoble, Hendrik C.
Swart**

Metal Chalcogenides Films Fundamentals Sensor Applications:

Metal Chalcogenides Thin Films-Fundamentals & Its Sensor Applications Deshpande Nishad, Gosavi Sunil, 2015-12-03 Currently there are two main issues i.e. energy and environment that need to be addressed by the researcher community. Significant efforts have been undertaken in finding solutions for saving energy and maintaining a clean environment. One of the easy solution to this is to make sensors which can work at room temperature, have long term stability, very selective and having high sensitivity. Notwithstanding to this, to save energy one requires an automated system i.e. automated lighting controls that can help in switching lights ON/OFF when needed while to maintain a clean environment one requires monitoring the harmful gases. These two issues are addressed in the current book. Metal chalcogenides have capabilities in developing photo gas sensors which can be helpful in addressing the above mentioned issues. A detailed literature review is done to help readers get a complete guide of metal chalcogenides and their applications in photo gas sensors.

Fundamentals of Sensor Technology Ahmed Barhoum, Zeynep Altintas, 2023-05-05 *Fundamentals of Sensor Technology: Principles and Novel Designs* presents an important reference on the materials, platforms, characterization and fabrication methods used in the development of chemical sensor technologies. Sections provide the historical context of sensor technology development, review principles for the design of sensing devices and circuits, delve into the most common chemical and biological sensor types, cover unique properties and performance requirements, discuss fabrication techniques including defining critical parameters, modeling and simulation strategies, and present important materials categories used in sensing applications such as nanomaterials, quantum dots, magnetic materials, and more. This book is appropriate for the interdisciplinary community of researchers and practitioners interested in the development of sensor technologies, including materials scientists and engineers, analytical chemists, and other related disciplines. Provides a comprehensive view of the latest advances in the design of chemical sensor materials, devices, and platforms. Reviews the most relevant nanosensor fabrication techniques for each sensor type, including critical parameters, modeling, simulation strategies, and characterization methods. Discusses enhancement strategies for materials and devices to help improve physical, chemical, and biological properties and enable practical applications.

Metal Chalcogenide Biosensors Ali Salehabadi, Morteza Enhessari, Mardiana Idayu Ahmad, Norli Ismail, Banshi Dhar Gupta, 2023-01-23 *Metal Chalcogenide Biosensors: Fundamentals and Applications* provides an overview of advances in materials development of chalcogenides for use in biosensing and sensing applications. The metal chalcogenides discussed include highly reactive metals, noble metals, and transition metals. Particular attention is given to the morphology, porosity, structure, and fabrication of materials for biosensing applications. The connection between the chalcogenides' physical and chemical properties and device performance is explored. Key parameters for biosensor devices are investigated such as thermodynamics, kinetics, selectivity, sensitivity, efficiency, and durability to aid in materials selection. Finally, a range of biosensor devices are addressed, including gas biosensors, chemical biosensors, environment

biosensors and biological molecule sensors This book is suitable for those in the fields of materials science and engineering chemistry and physics Reviews the latest advances in fabrication methods for metal chalcogenide based biosensors Discusses the parameters of biosensor devices to aid in materials selection Provides readers with a look at the chemical and physical properties of reactive metals noble metals and transition metals chalcogenides and their connection to biosensor device performance Metal-Chalcogenide Nanocomposites Mohammad Ehtisham Khan, Jeenat Aslam, 2023-11-19 Metal chalcogenides have exceptional properties and can be used for electronic devices environmental monitoring and sensing applications for energy storage as electrode materials in fuel cells membranes and for photocatalytic degradation of environmental pollutants in the field of waste water treatment applications Metal Chalcogenide Nanocomposites Fundamentals Properties and Industrial Applications focuses on metal chalcogenide nanomaterials for environmental remediation and corrosion applications The chapters focuses on cost effective and facile fabrication approaches their growth mechanisms optical electrical and other important properties and their applications in a broad range of diverse fields such as photocatalysis photovoltaics hydrogen production lithium batteries energy storage anticorrosion and sensor devices The book will be an important information source for both material scientists and engineers who want to create the next generation of products and devices for energy and environmental applications Covers fabrication standard characterization photocatalytic mechanisms and environmentally sustainable fabrication methods Applications covered include environmental electronics oil gas water treatment sensing and many more Includes challenges and future opportunities which are discussed in detail

Emerging Materials for Energy and Sensing Applications Kuldeep Singh Gour, Vidya Nand Singh, 2025-02-28 The proposed book explores the latest advancements in materials science for energy generation storage and sensing technology It covers various topics including nanomaterials 2D materials thin film quantum dots solar cells gas sensors thermoelectric generators photodetectors water splitting etc This book highlights emerging materials applications making it an invaluable resource for researchers engineers and students looking to stay up to date in this rapidly growing field Its focus on cutting edge materials and their potential to develop energy harnessing and information gathering provides a deep insight into the exciting world of innovative materials Mixed Metal Chalcogenides Dr. Satishkumar V. Patil, 2020-12-10 1 1 Introduction VIA group elements in the periodic table are known as chalcogens Chalcogens are sometimes known as oxygen family Oxygen O Sulphur S Selenium Se and Tellurium Te are the elements of chalcogens The chalcogen term was first introduced by Wilhelm Bilts group around 1930 at the University of Honover where it was proposed by a Scientist Werner Fischer 1 Chalcogen is a Greek word which means ore forming Chalcogen elements react with almost all elements in the periodic table to form stable compounds which occurs in the earth crust and these are the ores of particular elements So they are named as ore formers Oxide sulphite selenide and telluride are insoluble in water A Chalcogenide is the chemical compound consisting of at least one chalcogen ion and at least one more electropositive element Chalcogenide term is more commonly reserved

for sulfides selenides tellurides and not for oxides

Fundamentals and Sensing Applications of 2D Materials Chandra

Sekhar Rout, Dattatray J. Late, Hywel Morgan, 2019-06-15 Fundamentals and Sensing Applications of 2D Materials provides a comprehensive understanding of a wide range of 2D materials. Examples of fundamental topics include defect and vacancy engineering, doping and advantages of 2D materials for sensing, 2D materials and composites for sensing, and 2D materials in biosystems. A wide range of applications are addressed such as gas sensors based on 2D materials, electrochemical glucose sensors, biosensors, enzymatic and non enzymatic, and printed stretchable wearable and flexible biosensors. Due to their sub nanometer thickness, 2D materials have a high packing density, thus making them suitable for the fabrication of thin film based sensor devices. Benefiting from their unique physical and chemical properties, e.g. strong mechanical strength, high surface area, unparalleled thermal conductivity, remarkable biocompatibility, and ease of functionalization, 2D layered nanomaterials have shown great potential in designing high performance sensor devices. Provides a comprehensive overview of 2D materials systems that are relevant to sensing, including transition metal dichalcogenides, metal oxides, graphene, and other 2D materials systems. Includes information on potential applications such as flexible sensors, biosensors, optical sensors, electrochemical sensors, and more. Discusses graphene in terms of the lessons learned from this material for sensing applications and how these lessons can be applied to other 2D materials.

Handbook of II-VI Semiconductor-Based Sensors and Radiation Detectors Ghenadii Korotcenkov, 2023-04-20 Three volumes book Handbook of II-VI Semiconductor Based Sensors and Radiation Detectors is the first to cover both chemical sensors and biosensors and all types of photodetectors and radiation detectors based on II-VI semiconductors. It contains a comprehensive and detailed analysis of all aspects of the application of II-VI semiconductors in these devices. The first volume Materials and Technologies of a three volume set describes the physical, chemical, and electronic properties of II-VI compounds, which give rise to an increased interest in these semiconductors. Technologies that are used in the development of various devices based on II-VI connections such as material synthesis, deposition, characterization, processing, and device fabrication are also discussed in detail in this volume. It covers also topics related to synthesis and application of II-VI based nanoparticles and quantum dots, as well as their toxicity, biocompatibility, and biofunctionalization.

Complex and Composite Metal Oxides for Gas, VOC, and Humidity Sensors, Volume 1 Bal Chandra Yadav, Pragati Kumar, 2023-10-16 Complex and Composite Metal Oxides for Gas, VOC, and Humidity Sensors focuses on an overview of the advanced nanocomposite metal oxide materials for use in sensors for environmental monitoring applications. Volume 1 Fundamentals and Approaches introduces the ground rules essential for the development of smart gas, VOC, and humidity sensors. This volume familiarizes researchers with the different sensors: resistive, electrolyte, FET, optical, etc., developed on various properties that includes electrical, SPR, luminescence, fiber optics, etc., fabricated using metal oxide hybrids and nanocomposites. Introduces the fundamentals of electrical and optical gas and humidity sensors. Reviews metal oxide hybrid materials for gas and humidity sensor applications, including metal oxide, polymer, and metal

oxide carbon composite materials Discusses complex metal oxide compounds and composite materials for use in gas VOC and humidity sensors

Electrochemistry of Metal Chalcogenides Mirtat Bouroushian, 2010-04-23 The author provides a unified account of the electrochemical material science of metal chalcogenide MCh compounds and alloys with regard to their synthesis processing and applications Starting with the chemical fundamentals of the chalcogens and their major compounds the initial part of the book includes a systematic description of the MCh solids on the basis of the Periodic Table in terms of their structures and key properties This is followed by a general discussion on the electrochemistry of chalcogen species and the principles underlying the electrochemical formation of inorganic compounds alloys The core of the book offers an insight into available experimental results and inferences regarding the electrochemical preparation and microstructural control of conventional and novel MCh structures It also aims to survey their photoelectrochemistry both from a material oriented point of view and as connected to specific processes such as photocatalysis and solar energy conversion Finally the book illustrates the relevance of MCh materials to various applications of electrochemical interest such as electro catalysis in fuel cells energy storage with intercalation electrodes and ion sensing

Applications of Chalcogenides: S, Se, and Te Gurinder Kaur Ahluwalia, 2016-11-02 This book introduces readers to a wide range of applications for elements in Group 16 of the periodic table such as optical fibers for communication and sensing X ray imaging electrochemical sensors data storage devices biomedical applications photovoltaics and IR detectors the rationale for these uses the future scope of their applications and expected improvements to existing technologies Following an introductory section the book is broadly divided into three parts dealing with Sulfur Selenium and Tellurium The sections cover the basic structure of the elements and their compounds in bulk and nanostructured forms properties that make these useful for various applications followed by applications and commercial products As the global technology revolution necessitates the search for new materials and more efficient devices in the electronics and semiconductor industry Applications of Chalcogenides S Se and Te is an ideal book for a wide range of readers in industry government and academic research facilities looking beyond silicon for materials used in the electronic and optoelectronic industry as well as biomedical applications

Chemical Solution Synthesis for Materials Design and Thin Film Device Applications Soumen Das, Sandip Dhara, 2021-01-09 Chemical Solution Synthesis for Materials Design and Thin Film Device Applications presents current research on wet chemical techniques for thin film based devices Sections cover the quality of thin films types of common films used in devices various thermodynamic properties thin film patterning device configuration and applications As a whole these topics create a roadmap for developing new materials and incorporating the results in device fabrication This book is suitable for graduate undergraduate doctoral students and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes Provides the different wet chemical routes for materials synthesis along with the most relevant thin film structured materials for device applications Discusses patterning and solution processing of inorganic thin films along with solvent based processing

techniques Includes an overview of key processes and methods in thin film synthesis processing and device fabrication such as nucleation lithography and solution processing

Thin Film and Flexible Thermoelectric Generators, Devices and Sensors Sergey Skipidarov, Mikhail Nikitin, 2021-03-13 This book presents and facilitates new research and development results with hot topics in the thermoelectric generators TEGs field Topics include novel thin film multilayer composite and nanostructured thermoelectric materials simulation of phenomena related to thermoelectricity thermoelectric thin film and multilayer materials manufacturing technologies measurement techniques for characterization thermoelectric generators and the simulation modeling design thermal and mechanical degradation problems This book helps researchers tackle the challenges that still remain in creating cheap and effective TEGs and presents the latest trends and technologies in development and production of advanced thermoelectric generation devices

2D Transition-Metal Dichalcogenides (TMDs): Fundamentals and Application Abhay Kumar Singh, 2025-01-18 This book offers to reader a sound understating of two dimensional Transition Metal Dichalcogenides 2D TMDs materials detailing their physio chemical mechanisms and technological applications in various areas such as nanoelectronics and optoelectronics Moving from their invention to their modern developments including theoretical approaches experimental interpretations and their technical applications the book explores the basic concepts of 2D TMDs It will be of interest to undergraduate and postgraduate students researchers and scientists working in the area of 2D TMDs A key goal of this book provides a sound or clear idea about two dimensional Transition Metal Dichalcogenides 2D TMDs materials by providing their sound background fabrication approaches including interpretations of the inside physio chemical mechanism including technological applications in various significant areas such as nanoelectronics optoelectronics topological insulators biomedical

Nanostructured Thin Films Maria Benelmekki, Andreas Erbe, 2019-08-25 Nanostructured Thin Films Fundamentals and Applications presents an overview of the synthesis and characterization of thin films and their nanocomposites Both vapor phase and liquid phase approaches are discussed along with the methods that are sufficiently attractive for large scale production Examples of applications in clean energy sensors biomedicine anticorrosion and surface modification are also included As the applications of thin films in nanomedicine cell phones solar cell powered devices and in the protection of structural materials continues to grow this book presents an important research reference for anyone seeking an informed overview on their structure and applications Shows how thin films are being used to create more efficient devices in the fields of medicine and energy harvesting Discusses how to alter the design of nanostructured thin films by vapor phase and liquid phase methods Explores how modifying the structure of thin films for specific applications enhances their performance

Handbook of Semiconductors Ram K. Gupta, 2024-07-10 This book provides readers with state of the art knowledge of established and emerging semiconducting materials their processing and the fabrication of chips and microprocessors In addition to covering the fundamentals of these materials it details the basics and workings of many semiconducting devices and their role in

modern electronics and explores emerging semiconductors and their importance in future devices Provides readers with latest advances in semiconductors Covers diodes transistors and other devices using semiconducting materials Covers advances and challenges in semiconductors and their technological applications Discusses fundamentals and characteristics of emerging semiconductors for chip manufacturing This book provides directions to scientists engineers and researchers in materials engineering and related disciplines to help them better understand the physics characteristics and applications of modern semiconductors

CMOSET 2013: Abstracts CMOS Emerging Technologies Research, **Materials Science for Future Applications** Abhijeet R. Kadam, Kranti Zakde, Sanjay J. Dhoble, Hendrik C. Swart, 2025-06-20 Materials Science for Future Applications Emerging Development and Future Perspectives offers an overview of the materials used for progressive energy systems such as solar cells luminescent energy sensors and detectors and energy storage devices Today's worldwide energy and materials production is going through important changes which are developing novel prospects These developments and innovative technologies are changing the way energy is manufactured transported and spent The materials emphasis in this book conveys a new perspective and highlights the many challenges that are often overlooked in other literature An understanding of these challenges can be critical when working with new energy material technologies Particular devotion is given to the key materials and their conversion productivity extensive duration of permanency materials expenses and energy materials sustainability Materials Science for Future Applications offers a comprehensive introduction for students and researchers in both academia and industry who are interested in understanding the properties of emerging materials and their challenges

Non-layered 2D Materials, 2023-11-29 Semiconductors and Semimetals series highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors The existence of this book is a testament to the dedication and expertise of our esteemed authors and contributors from across the globe all of whom are at the forefront of this rapidly evolving field Serves as your gateway to a comprehensive exploration of non layered 2D materials Not only teaches you something new but also sparks your creativity and curiosity

2D Materials for Surface Plasmon Resonance-based Sensors Sanjeev Kumar Raghuwanshi, Santosh Kumar, Yadvendra Singh, 2021-12-12 2D Materials for Surface Plasmon Resonance based Sensors offers comprehensive coverage of recent design and development including processing and fabrication of 2D materials in the context of plasmonic based devices It provides a thorough overview of the basic principles and techniques used in the analysis and design of 2D material based optical sensor systems Beginning with the basic concepts of plasmon plasmonic sensors and mathematical modelling the authors explain the fundamental properties of 2D materials including Black Phosphorus BP Phosphorene Graphene Transition metal dichalcogenides TMDCs MXenes and SW CNT It also details the applications of these emerging materials in clinical diagnosis and their future trends This text will be useful for practising engineers undergraduate and postgraduate students

Key Features Presents the fundamental concepts of 2D material assisted

fibre optic and prism based SPR sensor in a student friendly manner Includes the recent synthesis and characterization techniques of 2D materials Provides computational results of recently discovered electronic and optical properties of the 2D materials along with their effectiveness in the field of plasmonic sensors Presents emerging applications of novel 2D material based plasmonic sensors in the field of chemical bio chemical and biosensing

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