

WOODHEAD PUBLISHING SERIES IN ELECTRONIC AND OPTICAL MATERIALS



SEMICONDUCTOR GAS SENSORS

SECOND EDITION



Edited by
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OOI KIANG TAN

Semiconductor Gas Sensors Woodhead Publishing

**Sabu Thomas, Nirav Joshi, Vijay K.
Tomer**



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Semiconductor Gas Sensors Raivo Jaanisoo, Ooi Kiang Tan, 2013-08-31 Semiconductor gas sensors have a wide range of applications in safety process control environmental monitoring indoor or cabin air quality and medical diagnosis This important book summarises recent research on basic principles new materials and emerging technologies in this essential field The first part of the book reviews the underlying principles and sensing mechanisms for n and p type oxide semiconductors introduces the theory for nanosize materials and describes the role of electrode semiconductor interfaces The second part of the book describes recent developments in silicon carbide and graphene based gas sensors wide bandgap semiconductor gas sensors and micromachined and direct thermoelectric gas sensors Part 3 discusses the use of nanomaterials for gas sensing including metal oxide nanostructures quantum dots single walled carbon nanotubes and porous silicon The final part of the book surveys key applications in environmental monitoring detecting chemical warfare agents and monitoring gases such as carbon dioxide Semiconductor gas sensors is a valuable reference work for all those involved in gas monitoring including those in the building industry environmental engineers defence and security specialists and researchers in this field Provides an overview of resistor and non resistor sensors Reviews developments in gas sensors and sensing methods including graphene based sensors and direct thermoelectric sensors Discusses the use of nanomaterials in gas sensing

Semiconductor Gas Sensors Raivo Jaanisoo, Ooi Kiang Tan, 2019-09-24 Semiconductor Gas Sensors Second Edition summarizes recent research on basic principles new materials and emerging technologies in this essential field Chapters cover the foundation of the underlying principles and sensing mechanisms of gas sensors include expanded content on gas sensing characteristics such as response sensitivity and cross sensitivity present an overview of the nanomaterials utilized for gas sensing and review the latest applications for semiconductor gas sensors including environmental monitoring indoor monitoring medical applications CMOS integration and chemical warfare agents This second edition has been completely updated thus ensuring it reflects current literature and the latest materials systems and applications Includes an overview of key applications with new chapters on indoor monitoring and medical applications Reviews developments in gas sensors and sensing methods including an expanded section on gas sensor theory Discusses the use of nanomaterials in gas sensing with new chapters on single layer graphene sensors graphene oxide sensors printed sensors and much more

Semiconducting Metal Oxides for Gas Sensing Yonghui Deng, 2023-08-23 The second edition of this book focuses on the synthesis design and application of semiconducting metal oxides as gas sensing materials including the gas sensing mechanism and modification methods for sensing materials while also providing a comprehensive introduction to semiconductor gas sensing devices As an essential part of IoT Internet of things gas sensors have shown great significance and promising prospects Therefore studies on functional mesoporous metal oxides one of the most important gas sensing materials based on their unique Knudsen diffusion behavior and tailored pore structure have increasingly attracted attention

from various disciplines The book offers a valuable reference guide to metal oxide gas sensing materials for undergraduate and graduate students alike It will also benefit all researchers who are involved in synthesis and gas sensing of metal oxides nanomaterials with relevant frontier theories and concepts Engineers working on research and development of semiconductor gas sensors will also find some new ideas for sensor design Nanosensors for Chemical and Biological Applications Kevin C. Honeychurch,2014-02-28 Nano scale materials are proving attractive for a new generation of devices due to their unique properties They are used to create fast responding sensors with good sensitivity and selectivity for the detection of chemical species and biological agents Nanosensors for Chemical and Biological Applications provides an overview of developments brought about by the application of nanotechnology for both chemical and biological sensor development Part one addresses electrochemical nanosensors and their applications for enhanced biomedical sensing including blood glucose and trace metal ion analysis Part two goes on to discuss spectrographic nanosensors with chapters on the use of nanoparticle sensors for biochemical and environmental sensing and other techniques for detecting nanoparticles in the environment Nanosensors for Chemical and Biological Applications serves as a standard reference for R D managers in a range of industrial sectors including nanotechnology electronics biotechnology magnetic and optical materials and sensors technology as well as researchers and academics with an interest in these fields Reviews the range electrochemical nanosensors including the use of carbon nanotubes glucose nanosensors chemiresistor sensors using metal oxides and nanoparticles Discusses spectrographic nanosensors such as surface enhanced Raman scattering SERS nanoparticle sensors the use of coated gold nanoparticles and semiconductor quantum dots Technology in Forensic Science Deepak Rawtani,Chaudhery Mustansar Hussain,2020-11-02 The book Technology in Forensic Science provides an integrated approach by reviewing the usage of modern forensic tools as well as the methods for interpretation of the results Starting with best practices on sample taking the book then reviews analytical methods such as high resolution microscopy and chromatography biometric approaches and advanced sensor technology as well as emerging technologies such as nanotechnology and taggant technology It concludes with an outlook to emerging methods such as AI based approaches to forensic investigations *Printed Films* Maria Prudenziati,Jacob Hormadaly,2012-08-30 Whilst printed films are currently used in varied devices across a wide range of fields research into their development and properties is increasingly uncovering even greater potential Printed films provides comprehensive coverage of the most significant recent developments in printed films and their applications Materials and properties of printed films are the focus of part one beginning with a review of the concepts technologies and materials involved in their production and use Printed films as electrical components and silicon metallization for solar cells are discussed as are conduction mechanisms in printed film resistors and thick films in packaging and microelectronics Part two goes on to review the varied applications of printed films in devices Printed resistive sensors are considered as is the role of printed films in capacitive piezoelectric and pyroelectric

sensors mechanical micro systems and gas sensors The applications of printed films in biosensors actuators heater elements varistors and polymer solar cells are then explored followed by a review of screen printing for the fabrication of solid oxide fuel cells and laser printed micro and meso scale power generating devices With its distinguished editors and international team of expert contributors Printed films is a key text for anyone working in such fields as microelectronics fuel cell and sensor technology in both industry and academia Provides a comprehensive analysis of the most significant recent developments in printed films and their applications Reviews the concepts properties technologies and materials involved in the production and use of printed films Analyses the varied applications of printed films in devices including printed restrictive sensors for physical quantities and printed thick film mechanical micro systems MEMS among others

Handbook of Functionalized Carbon Nanostructures Ahmed Barhoum, Kalim Deshmukh, 2024-10-03 This book highlights all newly reported carbon nanostructures including graphene and its derivatives carbon nanotubes metal organic frameworks fullerenes nanorods nanospheres nano onions porous nanoparticles nanohorns nanofibers and nanoribbons nanodiamonds graphitic carbon nitrides carbon aerogels and hydrogels graphdiyne and graphenylene It presents the historical development of carbon nanostructures technologies different types and classifications and different fabrication and functionalization techniques including outer inner surface functionalization and covalent and noncovalent functionalization This Handbook discusses the unique properties of functionalized carbon nanostructures that can be obtained by modifying their structures composition and surface It gives the reader an in depth look at the current achievements of research and practice while pointing you ahead to new possibilities in functionalizing and using carbon nanomaterials Finally it covers the various applications of functionalized carbon nanostructures including adsorbents additives active materials in energy accumulating systems batteries hydrogen storage systems and supercapacitors filtering media catalysts or supports for catalysts sensors or substrates for sensors additives for polymers ceramic composites metal and carbon alloys glasses digital textiles and composite materials

Environmental Applications of Carbon Nanomaterials-Based Devices Shadpour Mallakpour, Chaudery M. Hussain, 2021-09-17 Environmental Applications of Carbon Nanomaterials Based Devices Explore this insightful treatment of the function and fabrication of high performance devices for environmental applications Environmental Applications of Carbon Nanomaterials Based Devices delivers an overview of state of the art technology in functionalized carbon nanomaterials based devices for environmental applications The book provides a powerful foundation based in materials science on functionalized carbon nanomaterials in general and environmental science and device fabrication in particular The book focuses on the chemical and physical methods of functionalization of carbon nanomaterials and the technology of device fabrication including lab on a chip approaches and applications such as wastewater purification and gas sensing It provides readers with a thorough understanding of effective environmental remediation techniques performed with carbon nanomaterials based devices In addition to topics such as cross linked graphene oxide membranes

assembled with graphene oxide nanosheets free standing graphene oxide chitin nanocrystal composite membranes for dye adsorption and oil water separation and in situ grown covalent organic framework nanosheets on graphene for membrane based dye salt separation readers will also benefit from the inclusion of A thorough introduction to charge gated ion transport through polyelectrolyte intercalated amine reduced graphene oxide membranes An exploration of hydrotalcite graphene oxide hybrid nanosheets functionalized nanofiltration membrane for desalination A discussion of the incorporation of attapulgite nanorods into graphene oxide nanofiltration membranes for efficient dyes wastewater treatment An examination of attapulgite nanofibers and graphene oxide composite membranes for high performance molecular separation Perfect for materials scientists analytical chemists and environmental chemists Environmental Applications of Carbon Nanomaterials Based Devices will also earn a place in the libraries of sensor developers seeking a one stop resource for high performance devices and sensors useful for environmental applications

Functional Nanomaterials Sabu Thomas,Nirav Joshi,Vijay K. Tomer,2020-06-12 This book provides a comprehensive overview of the current state of art in oxide nanostructures carbon nanostructures and 2D materials fabrication It covers mimicking of sensing mechanisms and applications in gas sensors It focuses on gas sensors based on functional nanostructured materials especially related to issues of sensitivity selectivity and temperature dependency for sensors It covers synthesis properties and current gas sensing tools and discusses the necessity for miniaturized sensors This book will be of use to senior undergraduate and graduate students professionals and researchers in the field of solid state physics materials science surface science and chemical engineering

Handbook of Odors in Plastic Materials George Wypych,2023-02-07 Handbook of Odors in Plastic Materials Third Edition analyzes the reasons behind unwanted odor formation and outlines methods for prevention This new edition contains a thorough review of the most recent data achievements and information in this less known but very significant field of polymer modification The book covers the fundamentals of odor formation and its transport within a material the relationship between odor and toxicity and various methods of odor removal and unwanted odor formation Three chapters are devoted to the analysis of odor related matters in different polymers products and methods of processing Dozens of polymers and product groups are analyzed and the book also discusses regulations related to odor in products effects of odor on health and safety the effect of odors from plastic materials on indoor air quality information on testing of odor changes as well as a selection of raw materials for fog free products Analyzes the reasons behind odor formation Provides the best methods to prevent odors in various plastic materials Contains information on testing odor changes and the relationship between odor and toxicity Includes a comprehensive list of methods for removal of unwanted odors from plastic materials

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