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Wide Band Gap Semiconductor Nanowires 2

*Heterostructures and
Optoelectronic Devices*



**Edited by
Vincent Consonni and Guy Feuillet**

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Wide Band Gap Semiconductor Nanowires For Optical Devices

**T. Daniel Thangadurai,N.
Manjubaashini,Sabu Thomas,Hanna J.
Maria**

Wide Band Gap Semiconductor Nanowires For Optical Devices:

Wide Band Gap Semiconductor Nanowires 2 Vincent Consonni, Guy Feuillet, 2014-09-15 This book the second of two volumes describes heterostructures and optoelectronic devices made from GaN and ZnO nanowires Over the last decade the number of publications on GaN and ZnO nanowires has grown exponentially in particular for their potential optical applications in LEDs lasers UV detectors or solar cells So far such applications are still in their infancy which we analyze as being mostly due to a lack of understanding and control of the growth of nanowires and related heterostructures Furthermore dealing with two different but related semiconductors such as ZnO and GaN but also with different chemical and physical synthesis methods will bring valuable comparisons in order to gain a general approach for the growth of wide band gap nanowires applied to optical devices

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Wide Band Gap Semiconductor Nanowires 1 Vincent Consonni, Guy Feuillet, 2014-08-08 GaN and ZnO nanowires can be grown using a wide variety of methods from physical vapor deposition to wet chemistry for optical devices This book starts by presenting the similarities and differences between GaN and ZnO materials as well as the assets and current limitations of nanowires for their use in optical devices including feasibility and perspectives It then focuses on the nucleation and growth mechanisms of ZnO and GaN nanowires grown by various chemical and physical methods Finally it describes the formation of nanowire heterostructures applied to optical devices

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Wide Band Gap Semiconductor Nanowires 1 Vincent Consonni, Guy Feuillet, 2014-09-22 GaN and ZnO nanowires can be grown using a wide

variety of methods from physical vapor deposition to wet chemistry for optical devices This book starts by presenting the similarities and differences between GaN and ZnO materials as well as the assets and current limitations of nanowires for their use in optical devices including feasibility and perspectives It then focuses on the nucleation and growth mechanisms of ZnO and GaN nanowires grown by various chemical and physical methods Finally it describes the formation of nanowire heterostructures applied to optical devices Wide Bandgap Semiconductor Materials and Devices 12 J. A.

Bardwell,2011-04 This issue of ECS Transactions focuses on issues pertinent to development of wide bandgap semiconductor materials and devices encompassing inorganic wide bandgap semiconductors III nitrides e g gallium nitride II oxides SiC diamond II VI and also emerging materials such as organic inorganic nanoscale structures *Wide Bandgap Light Emitting Materials And Devices* Gertrude F. Neumark,Igor L. Kuskovsky,Hongxing Jiang,2007-10-01

Wide bandgap light emitters include laser diodes and light emitting diodes LED the most modern diodes widely used in current technologies as microelectronics and optoelectronics Rapid advances have been made during the last few years with the result that more research is devoted to applications in line with the expanding market for optoelectronics This volume deals with recent research results on wide bandgap light emitting materials introducing new concepts for devices based on these materials The editors scientists with the best reputations have invited authors from different institutions who are acknowledged

researchers in the field as well as being involved in industrial applications They represent several lines of research III nitride compounds ZnO and ZnSe the most promising materials for device applications *Nanowires and Nanobelts* Zhong Lin

Wang,2013-06-05 Volume 1 Metal and Semiconductor Nanowires covers a wide range of materials systems from noble metals such as Au Ag Cu single element semiconductors such as Si and Ge compound semiconductors such as InP CdS and GaAs as well as heterostructures nitrides such as GaN and Si₃N₄ to carbides such as SiC The objective of this volume is to cover the synthesis properties and device applications of nanowires based on metal and semiconductor materials The volume starts with a review on novel electronic and optical nanodevices nanosensors and logic circuits that have been built using individual nanowires as building blocks Then the theoretical background for electrical properties and mechanical properties of nanowires is given The molecular nanowires their quantized conductance and metallic nanowires synthesized by chemical technique will be introduced next Finally the volume covers the synthesis and properties of semiconductor and nitrides nanowires **Nanowires** Xihong Peng,2021-07-14

Low dimensional structures have attracted extensive research interest due to their promising applications in nanotechnology These low dimensional materials have the potential to make revolutionary changes in science and technology because a reduction in size not only enables a faster speed and greater computing power but also helps reduce device form factors As such this book examines the behaviors of oxide nanowires group III V compounds and other nanowires including basic Si nanowires metallic wires and complex geometrical nanowires

Advances in Nanomaterials and Processing Byung Tae Ahn,Hyeong Tag Jeon,Bo Young Hur,Ki Bae Kim,Jong Wan

Park,2007-06-15 IUMRS ICA 2006 September 10 14 2006 Jeju Korea Optics of Nanomaterials Vladimir I. Gavrilenko,2016-10-14 While the chemistry physics and optical properties of simple atoms and molecules are quite well understood this book demonstrates that there is much to be learned about the optics of nanomaterials Through comparative analysis of the size dependent optical response from nanomaterials it is shown that although strides have been made in computational chemistry and physics bridging length scales from nano to macro remains a major challenge Organic molecular polymer and biological systems are shown to be potentially useful models for assembly Our progress in understanding the optical properties of biological nanomaterials is important driving force for a variety of applications

Nonequilibrium Carrier Dynamics in Semiconductors Marco Saraniti,Umberto Ravaioli,2007-12-14 Nonequilibrium Carrier Dynamics in Semiconductors is a well established specialist conference held every 2 years covering a range of topics of current interest to R D in semiconductor physics materials optoelectronics nanotechnology quantum information processing Papers accepted for publication are selected and peer reviewed by members of the Program Committee during the conference to ensure both rapid and high quality processing The proceedings of this series of conferences constitute a comprehensive source of reference of the acknowledged state of the art in the field **Nanowires** Paola Prete,2010-02-01 This volume is intended to orient the reader in the fast developing field of semiconductor nanowires by providing a series of self contained monographs focusing on various nanowire related topics Each monograph serves as a short review of previous results in the literature and description of methods used in the field as well as a summary of the authors recent achievements on the subject Each report provides a brief sketch of the historical background behind the physical and or chemical principles underlying a specific nanowire fabrication characterization technique or the experimental theoretical methods used to study a given nanowire property or device Despite the diverse topics covered the volume does appear as a unit The writing is generally clear and precise and the numerous illustrations provide an easier understanding of the phenomena described The volume contains 20 Chapters covering altogether many although not all semiconductors of technological interest starting with the IV IV group compounds SiC and SiGe carrying on with the binary and ternary compounds of the III V GaAs AlGaAs GaSb InAs GaP InP and GaN and II VI HgTe HgCdTe families the metal oxides CuO ZnO ZnCoO tungsten oxide and PbTiO₃ and finishing with Bi a semimetal **Radiation Resilience in Reduced Dimensionality Systems** Benjamin W. Jacobs,2007 Wide Bandgap Nanowires Tuan Anh Pham,Toan Dinh,Nam-Trung Nguyen,Hoang-Phuong Phan,2022-07-04 WIDE BANDGAP NANOWIRES Comprehensive resource covering the synthesis properties and applications of wide bandgap nanowires This book presents first hand knowledge on wide bandgap nanowires for sensor and energy applications Taking a multidisciplinary approach it brings together the materials science physics and engineering aspects of wide bandgap nanowires an area in which research has been accelerating dramatically in the past decade Written by four well qualified authors who have significant experience in the field sample topics covered within the work include

Nanotechnology enabled fabrication of wide bandgap nanowires covering bottom up top down and hybrid approaches Electrical mechanical optical and thermal properties of wide bandgap nanowires which are the basis for realizing sensor and energy device applications Measurement of electrical conductivity and fundamental electrical properties of nanowires Applications of nanowires such as in flame sensors biological sensors and environmental monitoring For materials scientists electrical engineers and professionals involved in the semiconductor industry this book serves as a completely comprehensive resource to understand the topic of wide bandgap nanowires and how they can be successfully used in practical applications

Renewable Energies for Central Asia Countries: Economic, Environmental and Social Impacts Aldo Iacomelli, 2006-07-02 In the last few years awareness and worries about the exhaustion of natural resources are increasing but this fact is still very much discussed about its analytical measurement and therefore not yet demonstrated However what has been demonstrated is that the 6 billion inhabitants of the Earth move every kind of goods and wares around the world at about 8 tons per capita which means about 50 billion tons per year This is the same amount as is moved yearly by natural forces such as winds eruptions earthquakes rain Since the Kyoto Protocol entered into force on 16 February 2005 an investment on rational use of energy savings and efficiency is the main premise supporting the development of new energy sources needed to meet the target of the KP and UNFCCC If energy consumption decreases renewable sources could cover a significant part of the demand of energy in particular electricity if consumption remains uselessly high because inefficient and less energy consuming acting also on final uses renewable energy would become a reality a feasible method even in these sectors With investments being equal today all in the sector of generation from fossil sources if there were parallel researches on how to reduce consumption and wastes considerably at least 35% and on power plants from renewable sources there would be also a reduction of gas emissions without any negative influence on development New technologies and new energy products will play a crucial role in the development of a market of sustainable energy products that should grow in a competitive way cost effective to stand against the challenge of change

Nanostructured Materials T. Daniel Thangadurai, N. Manjubaashini, Sabu Thomas, Hanna J. Maria, 2020-02-27 This book discusses the early stages of the development of nanostructures including synthesis techniques growth mechanisms the physics and chemistry of nanostructured materials various innovative characterization techniques the need for functionalization and different functionalization methods as well as the various properties of nanostructured materials It focuses on the applications of nanostructured materials such as mechanical applications nanoelectronics and microelectronic devices nano optics nanophotonics and nano optoelectronics as well as piezoelectric agriculture biomedical and environmental remediation applications and anti microbial and antibacterial properties Further it includes a chapter on nanomaterial research developments highlighting work on the life cycle analysis of nanostructured materials and toxicity aspects

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 their toxicity biocompatibility and biofunctionalization Sensors and Microsystems Giovanni Neri,Nicola Donato,Arnaldo d'Amico,Corrado Di Natale,2011-08-18 Sensors and Microsystems contains a selection of papers presented at the 15th Italian Conference on Sensors and Microsystems It provides a unique perspective on the research and development of sensors microsystems and related technologies in Italy The scientific values of the papers also offers an invaluable source to analysts intending to survey the Italian situation about sensors and microsystems In an interdisciplinary approach many aspects of the disciplines are covered ranging from materials science chemistry applied physics electronic engineering and biotechnologies **New Developments in Nanotechnology Research** Eugene V. Dirote,2007 Nanotechnology is a catch all description of activities at the level of atoms and molecules that have applications in the real world A nanometer is a billionth of a metre about 1 80 000 of the diameter of a human hair or 10 times the diameter of a hydrogen atom Nanotechnology is now used in precision engineering new materials development as well as in electronics electromechanical systems as well as mainstream biomedical applications in areas such as gene therapy drug delivery and novel drug discovery techniques This book presents the latest research in this frontier field

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