



edited by Jan Valenta and Salvo Mirabella

Nanotechnology and Photovoltaic Devices

Light Energy Harvesting with
Group IV Nanostructures



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Nanotechnology And Photovoltaic Devices Light Energy Harvesting With Group Iv Nanostructures

G Thomas



Nanotechnology And Photovoltaic Devices Light Energy Harvesting With Group Iv Nanostructures:

Nanotechnology and Photovoltaic Devices Jan Valenta, Salvo Mirabella, 2015-06-01 Silicon is an abundant element and is produced in large quantities for the electronic industry The falling price of this commodity also feeds the growth of solar photovoltaics PV However solar cells SCs based on bulk semiconductors have quite limited maximum attainable performance Therefore new principles and materials are being investigated

Silicon Nanophotonics Leonid Khriachtchev, 2016-10-26 Photonics is a key technology of this century The combination of photonics and silicon technology is of great importance because of the potentiality of coupling electronics and optical functions on a single chip Many experimental and theoretical studies have been performed to understand and design the photonic properties of silicon nanocrystals Generation of light in silicon is a challenging perspective in the field however the issue of light emitting devices does not limit the activity in the field Research is also focused on light modulators optical waveguides and interconnectors optical amplifiers detectors memory elements photonic crystals etc A particularly important task of silicon nanostructures is to generate electrical energy from solar light Understanding the optical properties of silicon based materials is central in designing photonic components It is not possible to control the optical properties of nanoparticles without fundamental information on their microscopic structure which explains a large number of theoretical works on this subject Many fundamental and practical problems should be solved in order to develop this technology In addition to open fundamental questions it is even more difficult to develop the known experimental results towards practical realization However the world market for silicon photonics is expected to be huge thus more research activity in the field of silicon nanophotonics is expected in the future This book describes different aspects of silicon nanophotonics from fundamental issues to practical devices The second edition is essentially different from the book published in 2008 Eight chapters of the first edition are not included in the new book because the recent progress on those topics has not been large enough Instead seven new chapters appear The other eight chapters are essentially modified to describe recent achievements in the field

Nanotechnology and Photovoltaic Devices Jan Valenta, Salvo Mirabella, 2015 Silicon is an abundant element and is produced in large quantities for the electronic industry The falling price of this commodity also feeds the growth of solar photovoltaics PV However solar cells SCs based on bulk semiconductors have quite limited maximum attainable performance Therefore new principles and materials are being investigated to build the third generation of SCs with improved conversion efficiency achieved by the optimized harvesting of the solar spectrum improved carrier generation better light management etc The unique properties of semiconductor nanostructures tuning of optoelectronic properties by the quantum confinement effect stronger interaction with light etc can be exploited to fabricate novel types of high efficiency solar cells Here again silicon along with carbon and germanium group IV elements is about to play a major role In view of the increasing research effort devoted to nanostructures applications in PV this book aims to provide a background to students and newcomer researchers as well as

to point out some open questions and promising directions for future development It presents a useful overview of group IV nanostructures for PV which includes the theoretical background presentation of main solar cell principles technological aspects and nanostructure characterization techniques and finishes with the design and testing of prototype devices It is not intended to be just a review of the most up to date literature but the authors aim to provide an educative background of the field All authors are renowned researchers and experienced teachers in the field of semiconductor nanostructures and photovoltaics Liquid and Crystal Nanomaterials for Water Pollutants Remediation Uma Shanker, Manviri Rani, 2022-07-07 Nanoscience technology is playing a vital role in multidisciplinary research due to its unique characteristics at nanoscale as compared to bulk materials In view of such excellent properties like high surface area semiconducting nature and non toxicity nanotechnology has emerged as a promising means to curb pollution Liquid and crystal nanomaterials aim for products and processes that are ecofriendly economically sustainable safe and energy efficient One of the most popular fields widely adopted is photocatalysis of nanomaterials that involves photo conduction in efficient removal degradation of noxious pollutants This book focuses on generation of liquid and crystal nanomaterials for environmental remediation

Integrating Green Chemistry and Sustainable Engineering Shahid Ul Islam, 2019-04-01 This groundbreaking book covers the recent advances in sustainable technologies and developments and describes how green chemistry and engineering practices are being applied and integrated in various industrial sectors Over the past decade the population explosion rise in global warming depletion of fossil fuel resources and environmental pollution have been the major driving force for promoting and implementing the principles of green chemistry and sustainable engineering in all sectors ranging from chemical to environmental sciences It plays a growing role in the chemical processing industries Green chemistry and engineering are relatively new areas focused on minimizing generations of pollution by utilizing alternative feedstocks developing selecting and using less environmentally harmful solvents finding new synthesis pathways improving selectivity in reactions generating less waste avoiding the use of highly toxic compounds and much more In an effort to advance the discussion of green chemistry and engineering this book contains 19 chapters describing greener approaches to the design and development of processes and products The contributors describe the production of third generation biofuels sustainable and economic production of hydrogen by water splitting using solar energy efficient energy harvesting mechanisms involved in the conversion of biomass green nanocomposites bio based polymers ionic liquids as green solvents sustainable nitrogen fixation bioremediation and much more The book aims at motivating chemists and engineers as well as postgraduate and PhD students and postdocs to pay attention to an acute need for the implementation of green chemistry principles in the field of chemical engineering biomedical engineering agriculture environmental engineering chemical processing and material sciences *Handbook of Research on Nanoscience, Nanotechnology, and Advanced Materials* Bououdina, Mohamed, Davim, J. Paulo, 2014-03-31 The burgeoning field of nanotechnology has led to many recent technological innovations and discoveries

Understanding the impact of these technologies on business science and industry is an important first step in developing applications for a variety of settings and contexts Handbook of Research on Nanoscience Nanotechnology and Advanced Materials presents a detailed analysis of current experimental and theoretical approaches surrounding nanomaterials science With applications in fields such as biomedicine renewable energy and synthetic materials the research in this book will provide experimentalists professionals students and academics with an in depth understanding of nanoscience and its impact on modern technology

CMOS Indoor Light Energy Harvesting System for Wireless Sensing Applications Carlos Manuel Ferreira Carvalho,Nuno Filipe Silva Veríssimo Paulino,2015-07-30 This book discusses in detail the CMOS implementation of energy harvesting The authors describe an integrated indoor light energy harvesting system based on a controller circuit that dynamically and automatically adjusts its operation to meet the actual light circumstances of the environment where the system is placed The system is intended to power a sensor node enabling an autonomous wireless sensor network WSN Although designed to cope with indoor light levels the system is also able to work with higher levels making it an all round light energy harvesting system The discussion includes experimental data obtained from an integrated manufactured prototype which in conjunction with a photovoltaic PV cell serves as a proof of concept of the desired energy harvesting system

Advances in Nanocomposite Materials for Environmental and Energy Harvesting Applications Ahmed Esmail Shalan,Abdel Salam Hamdy Makhlouf,Senentxu Lanceros-Méndez,2022-03-03 This book discusses the fundamental synthesis properties physico chemical characterizations and applications of recently explored nanocomposite materials It covers the applications of these different nanocomposite materials in the environmental and energy harvesting fields The chapters explore the different techniques used for preparation and characterization of several types of nanocomposite materials for applications related to environmental and energy pathways This book presents a panorama of current research in the field of nanocomposite structures for different applications It also assesses the advantages and disadvantages of using different types of nanocomposite in the design of different material products The comprehensive chapters explain the interactions between nanocomposite materials and mechanisms related to applications in environmental pollution and energy shortage

Solar Energy Harvesting, Conversion, and Storage Mohammad Khalid,Rashmi Walvekar,Hitesh Panchal,Mahesh Vaka,2023-04-29 Solar Energy Harvesting Conversion and Storage Materials Technologies and Applications focuses on the current state of solar energy and the recent advancements in nanomaterials for different technologies from harnessing energy to storage The book covers different aspects of advanced nanomaterials for solar energy rapid developments in solar thermal and hot water systems and PV and CSP technologies In addition sections cover storing harnessed solar heat energy using different available energy storage technologies including phase change materials PCMs batteries and supercapacitors Various applications such as agriculture and aquaculture desalination domestic appliances and transport are also explored Provides an overview of solar energy harvesting technologies energy storage

technologies and the role of advanced nanomaterials in solar energy Explores applications of technology in the fields of agriculture aquaculture desalination and transport Includes discussion of current policies strategies and socioeconomic analysis and challenges **Graphene, Nanotubes and Quantum Dots-Based Nanotechnology** Yarub

Al-Douri,2022-07-28 A comprehensive look combining experimental and theoretical approaches to graphene nanotubes and quantum dots based nanotechnology evaluation and development are including a review of key applications Graphene nanotubes and quantum dots based nanotechnology review the fundamentals processing methods and applications of this key materials system The topics addressed are comprehensive including synthesis preparation both physical and chemical properties both accepted and novel processing methods modeling and simulation The book provides fundamental information on key properties that impact performance such as crystal structure and particle size followed by different methods to analyze measure and evaluate graphene nanotubes and quantum dots based nanotechnology and particles Finally important applications are covered including different applications of biomedical energy electronics etc Graphene nanotubes and quantum dots based nanotechnology is appropriate for those working in the disciplines of nanotechnology materials science chemistry physics biology and medicine Provides a comprehensive overview of key topics both on the experimental side and the theoretical Discusses important properties that impact graphene nanotubes and quantum dots performance processing methods both novel and accepted and important applications Reviews the most relevant applications such as biomedical energy electronics and materials ones **Diatom Nanotechnology** Dusan Losic,2018 A comprehensive overview of the

unique porous silica structure of diatoms their mechanism of formation properties and applications **Handbook of Microbial Nanotechnology** Chaudhery Mustansar Hussain,2022-03-13 Handbook of Microbial Nanotechnology is a collection of the most recent scientific advancements in the fundamental application of microbial nanotechnology across various sectors This comprehensive handbook highlights the vast subject areas of microbial nanotechnology and its potential applications in food pharmacology water environmental remediation etc This book will serve as an excellent reference handbook for researchers and students in the food sciences materials sciences biotechnology microbiology and in the pharmaceutical fields Microbial nanotechnology is taking part in creating development and innovation in various sectors Despite the participation of microbial nanotechnology in modern development there are some hindrances The lack of information the possibility of adverse impacts on the environment human health safety and sustainability are still a challenge This handbook addresses these challenges Offers up to date scientific information on the integration of microbiology and nanotechnology Explores how nanotechnology can improve the detection of trace chemical contaminants viruses and bacteria in food and other industry applications Provides readers with a fundamental understanding of microbial nanotechnology and its challenges Includes real time applications with case studies to illustrate how microbial nanotechnology influences modern sciences and technologies **Nanoscience Advances in CBRN Agents Detection, Information and Energy Security**

Plamen Petkov,Dumitru Tsiulyanu,Wilhelm Kulisch,Cyril Popov,2015-02-05 The preparation and characterization of various nano scaled materials and their applications in diverse security and safety related fields Readers are provided with a broad overview on the topic as it combines articles addressing the preparation and characterization of different nano scaled materials metals oxides glasses polymers carbon based etc The contributions derive from the lectures and contributions of the NATO Advanced Study Institute meeting Nanoscience Advances in CBRN Agents Detection Information and Energy Security held in Sozopol Bulgaria 29 May 6 June 2014 In addition it presents an interdisciplinary approach utilizing Nanoscience and Nanotechnology research from different disciplines including physics chemistry engineering materials science and biology A major advantage of this book which represents the knowledge of experts from 20 countries is the combination of longer papers introducing the basic knowledge on a certain topic and brief contributions highlighting specific applications in different security areas

Nanotechnology for the Energy Challenge Javier García-Martínez,2013-05-20 With the daunting energy challenges faced by Mankind in the 21st century revolutionary new technologies will be the key to a clean secure and sustainable energy future Nanostructures often have surprising and very useful capabilities and are thus paving the way for new methodologies in almost every kind of industry This exceptional monograph provides an overview of the subject and presents the current state of the art with regard to different aspects of sustainable production efficient storage and low impact use of energy Comprised of eighteen chapters the book is divided in three thematic parts Part I Sustainable Energy Production covers the main developments of nanotechnology in clean energy production and conversion including photovoltaics hydrogen production thermal electrical energy conversion and fuel cells Part II Efficient Energy Storage is concerned with the potential use of nanomaterials in more efficient energy storage systems such as advanced batteries supercapacitors and hydrogen storage Part III Energy Sustainability shows how nanotechnology helps to use energy more efficiently and the mitigation of impacts to the environment with special emphasis on energy savings through green nanofabrication advanced catalysis nanostructured light emitting and eletrochromic devices and CO2 capture by nanoporous materials An essential addition to any bookshelf it will be invaluable to a variety of research fields including materials science chemical engineering solid state surface industrial and physical chemistry as this is a subject that is very interdisciplinary

Nanomaterials-Based Composites for Energy Applications Keka Talukdar,2019-12-11 This volume Nanomaterials Based Composites for Energy Applications Emerging Technology and Trends covers the importance of nanomaterials based composites for renewable and alternative energy applications Taking a multidisciplinary approach it looks at using composites without losing the extraordinary strength of the nanomaterials preparing new composites with high dielectric permittivity improving load carrying capacity and more Simulation and experimental work is included providing a current view of the research that is going on in laboratories all over the world The book will be a rich reference for professors and instructors professionals researchers and engineering students interested in applying the emerging field of nanoscience and

nanotechnology to energy applications **Nanocomposite Materials** Jyotishkumar Parameswaranpillai, Nishar Hameed, Thomas Kurian, Yingfeng Yu, 2016-09-19 This book provides a comprehensive collection of the latest information on nanomaterials and nanocomposites. It covers material synthesis, processing, structure, characterization, properties, and applications. It presents a coherent treatment of how composite properties depend on nanostructure and covers cutting edge topics like bionanocomposites for sustainable development. This book summarizes many developments in the field, making it an ideal resource for researchers from industry, academia, government, and private research institutions.

Optical Properties of Metal Oxide Nanostructures Vijay Kumar, Irfan Ayoub, Vishal Sharma, Hendrik C. Swart, 2023-09-23 This book highlights the optical properties of metal oxides at both the fundamental and applied level and their use in various applications. The book offers a basic understanding of the optical properties and related spectroscopic techniques essential for anyone interested in learning about metal oxide nanostructures. This is partly due to the fact that optical properties are closely associated with other properties and functionalities, e.g., electronic, magnetic, and thermal, which are of essential significance to many technological applications such as optical data communications, imaging, lighting, and displays. Life sciences, health care, security, and safety. The book also highlights the fundamentals and systematic developments in various optical techniques to achieve better characterization, cost-effective, user-friendly approaches, and most importantly, state of the art, developing methodologies for various scientific and technological applications. It provides an adequate understanding of the imposed limitations and highlights the prospects and challenges associated with optical analytical methods to achieve the desired performance in targeted applications.

Nanotechnology Shilpi Birla, Neha Singh, Neeraj Kumar Shukla, 2022-03-02 This reference text discusses recent advances in the field of nanotechnology with applications in the fields of electronics, sector, agriculture, health services, smart cities, food industry, and energy sector in a comprehensive manner. The text begins by discussing important concepts including bio nanotechnology, nano electronics, nano devices, nano medicine, and nano memories. It then comprehensively covers applications of nanotechnology in different areas including healthcare, energy sector, environment, security, and defense, agriculture sector, food industry, automotive sector, smart cities, and Internet of Things (IoT). Aimed at senior undergraduate, graduate students, and professionals in the fields of electrical engineering, electronics engineering, nanoscience, and nanotechnology, this text discusses nano image sensors useful for imaging in medical and for security applications. Covers advances in the field of nanotechnology with their applications. It covers important concepts including neuro simulators, nano medicine, and nano materials. Covers applications of nanotechnology in diverse fields including health sector, agriculture, energy sector, and electronics.

Nanotechnology-based Sensors for Detection of Environmental Pollution Fernanda Maria Policarpo Tonelli, Arpita Roy, Munir Ozturk, H C Ananda Murthy, 2024-05-09 Nanotechnology based Sensors for Efficient Detection of Environmental Pollution discusses the use of nanotechnology to generate sensors capable of performing efficient detection of different types of environmental pollutants.

Nanomaterials characteristics such as large surface area good reactivity and possibility to suffer chemical surface modification to recognize different types of molecules are useful especially to perform the detection of specific environmental pollutants Innovative and efficient ways to detect environmental pollution are urgently needed for sustainability and the nanotechnology field has an enormous potential to offer strategic solutions Nanotechnology based sensors offer an efficient way of detecting the presence of contaminants and determine its structure and chemical nature is by applying nanotechnology and or nanobiotechnology This book will contain 5 parts the first one will be dedicated to exploring environmental pollution as a threat to life on Earth and main contaminants inorganic organic or pathogens and the risk they represent to living beings The second part will be dedicated to nanotechnology allowing pollutants detection covering a brief history of nanotechnology based sensors different types of nanotechnology based sensor optical electrochemical and magnetic nanotechnology based sensors design and fabrication and nano biosensors The third part will be focused on important specific pollutants pesticides heavy metal dyes toxic gas pharmaceutical waste petroleum hydrocarbons and pathogenic microbes and their detection by nanotechnology based sensors The fourth part will be dedicated to important nanomaterials in nanotechnology based sensors exploring carbon based and non carbon based material in nanoscale graphene carbon nanotubes quantum dots magnetic nanomaterials non magnetic nanoparticles and also point of care sensors and functionalization to generate optimized nanotechnology based sensors to pollutants detection The fifth and last part of Nanotechnology based Sensors for Efficient Detection of Environmental Pollution will address relevant practical aspects related to nanotechnology based sensors covering advantages and challenges safety economic and commercial aspects related to the field and also sustainability highlighting green nanomaterials on nanotechnology based sensors Provides a comprehensive multidisciplinary review of nanotechnology based sensors Supplies readers extensive knowledge on detecting harmful pollutants in different environments using nanotechnology based sensors Presents chapters dedicated to the detection of pollutants different from toxic gas and pharmaceutical products such as pesticides heavy metals dyes pathogens and petroleum hydrocarbons Introduces information on pollutants and the threats they represent to living beings nanotechnology based sensor s design and fabrication a brief history of the field and practical issues related to the field such as economics safety and challenges

One-Dimensional Polymeric Nanocomposites Ram K. Gupta, Tuan Anh

Nguyen, 2023-02-14 One dimensional nanomaterials are emerging as promising materials for their many unique characteristics This book covers their synthesis and applications in batteries supercapacitors fuel cells solar cells green energy production flexible electronics electrochemical sensors and biomedicine Progress in nanotechnology offers an opportunity to synthesize materials with unique properties The properties of nanomaterials can be further improved by growing them in one dimension structural with variations in their architecture One dimensional polymeric nanocomposites offer various advantages such as nano dimensions high surface area structural stability and the ability to tune their

electrochemical electronic and optical properties The book covers basic concepts chemistries properties and the importance of one dimensional nanomaterials along with their wide applications and state of the art progress in the energy flexible electronics sensor and biomedical fields The fundamentals of electrochemical behavior and their understanding for various applications are also discussed in detail This book will provide new direction to scientists researchers and students to better understand the chemistry technologies and applications of one dimensional polymeric nanocomposites

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Nanotechnology And Photovoltaic Devices Light Energy Harvesting With Group Iv Nanostructures**

In a world inundated with displays and the cacophony of immediate transmission, the profound energy and emotional resonance of verbal art usually disappear in to obscurity, eclipsed by the continuous barrage of noise and distractions. However, located within the lyrical pages of **Nanotechnology And Photovoltaic Devices Light Energy Harvesting With Group Iv Nanostructures**, a captivating perform of literary elegance that impulses with natural emotions, lies an unforgettable journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this exciting opus manuals viewers on a psychological odyssey, gently exposing the latent potential and profound impact stuck within the complicated web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is central styles, dissect their interesting writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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