**Engineering Materials** 

Alexei Nazarov Francis Balestra Valeriya Kilchytska Denis Flandre *Editors* 

Functional Nanomaterials and Devices for Electronics, Sensors and Energy Harvesting



Yugal Kishore Mohanta, Ishani Chakrabartty, Saravanan Muthupandian

Functional Nanomaterials and Devices for Electronics, Sensors and Energy Harvesting Alexei Nazarov, Francis Balestra, Valeriya Kilchytska, Denis Flandre, 2014-08-28 This book contains reviews of recent experimental and theoretical results related to nanomaterials It focuses on novel functional materials and nanostructures in combination with silicon on insulator SOI devices as well as on the physics of new devices and sensors nanostructured materials and nano scaled device characterization Special attention is paid to fabrication and properties of modern low power high performance miniaturized portable sensors in a wide range of applications such as telecommunications radiation control biomedical instrumentation and chemical analysis In this book new approaches exploiting nanotechnologies such as UTBB FD SOI Fin FETs nanowires graphene or carbon nanotubes on dielectric to pave a way between More Moore and More than Moore are considered in order to create different kinds of sensors and devices which will consume less electrical power be more portable and totally compatible with modern microelectronics products **Introduction to Functional Nanomaterials** M. Anusuva, Fabian I. Ezema, 2024-11-27 This book provides a comprehensive review of nanomaterials including essential foundational examples of nanosensors smart nanomaterials nanopolymers and nanotubes Chapters cover their synthesis and characteristics production methods and applications with specific sections exploring nanoelectronics and electro optic nanotechnology nanostructures and nanodevices This book is a valuable resource for interdisciplinary researchers who want to learn more about the synthesis of nanomaterials and how they are used in different types of energy storage devices including supercapacitors batteries fuel cells solar cells in addition to electrical chemical and biomedical engineering Key Features Comprehensive overview of how nanomaterials can be utilised in a variety of interdisciplinary applications Explores the fundamental theories alongside their electrochemical mechanisms and computation Discusses recent developments in electrode designing based on nanomaterials separators and the fabrication of advanced devices and their performances Modern Technologies for Creating the Thin-film Systems and Coatings Nikolay Nikitenkov, 2017-03-08 Development of the thin film and coating technologies TFCT made possible the technological revolution in electronics and through it the revolution in IT and communications in the end of the twentieth century Now TFCT penetrated in many sectors of human life and industry biology and medicine nuclear fusion and hydrogen energy protection against corrosion and hydrogen embrittlement jet engine space materials science and many others Currently TFCT along with nanotechnologies is the most promising for the development of almost all industries The 20 chapters of this book present the achievements of thin film technology in many areas mentioned above but more than any other in medicine and biology and energy saving and energy efficiency **Textile-Based Energy** Harvesting and Storage Devices for Wearable Electronics Xing Fan, Nannan Zhang, Yi Wang, 2022-03-14 Textile Based Energy Harvesting and Storage Devices for Wearable Electronics Discover state of the art developments in textile based wearable and stretchable electronics from leaders in the field In Textile Based Energy Harvesting and Storage Devices for

Wearable Electronics renowned researchers Professor Xing Fan and his co authors deliver an insightful and rigorous exploration of textile based energy harvesting and storage systems. The book covers the principles of smart fibers and fabrics as well as their fabrication methods It introduces in detail several fiber and fabric based energy harvesting and storage devices including photovoltaics piezoelectrics triboelectrics supercapacitors batteries and sensing and self powered electric fabrics The authors also discuss expanded functions of smart fabrics like stretchability hydrophobicity air permeability and color changeability The book includes sections on emerging electronic fibers and textiles including stress sensing strain sensing and chemical sensing textiles as well as emerging self powered electronic textiles Textile Based Energy Harvesting and Storage Devices for Wearable Electronics concludes with an in depth treatment of upcoming challenges opportunities and commercialization requirements for electronic textiles providing valuable insight into a highly lucrative new commercial sector The book also offers A thorough introduction to the evolution from classical functional fibers to intelligent fibers and textiles An exploration of typical film deposition technologies like dry process film deposition and wet process technologies for roll to roll device fabrication Practical discussions of the fabrication process of intelligent fibers and textiles including the synthesis of classical functional fibers and nano micro assembly on fiber materials In depth examinations of energy harvesting and energy storage fibers including photovoltaic piezoelectric and supercapacitor fibers Perfect for materials scientists engineering scientists and sensor developers Textile Based Energy Harvesting and Storage Devices for Wearable Electronics is also an indispensable resource for electrical engineers and professionals in the sensor industry seeking a one stop reference for fiber and fabric based energy harvesting and storage systems for wearable and stretchable power sources

Two-dimensional Materials Pramoda Kumar Nayak,2016-08-31 There are only a few discoveries and new technologies in materials science that have the potential to dramatically alter and revolutionize our material world Discovery of two dimensional 2D materials the thinnest form of materials to ever occur in nature is one of them After isolation of graphene from graphite in 2004 a whole other class of atomically thin materials dominated by surface effects and showing completely unexpected and extraordinary properties has been created This book provides a comprehensive view and state of the art knowledge about 2D materials such as graphene hexagonal boron nitride h BN transition metal dichalcogenides TMD and so on It consists of 11 chapters contributed by a team of experts in this exciting field and provides latest synthesis techniques of 2D materials characterization and their potential applications in energy conservation electronics optoelectronics and biotechnology Smart Micro- and Nanomaterials for Drug Delivery Ajit Behera,Arpan Kumar Nayak,Ranjan Kumar Mohapatra,Ali Ahmed Rabaan,2024-08-27 Smart drug delivery at both the micro and nanoscale is an evolving field with numerous potential applications It has the potential to revolutionize drug therapy by making treatments more effective reducing side effects and improving patient outcomes This book presents a comprehensive review of the most recent studies on smart micro and nanomaterials with a focus on their smart activity for formation of targeted and responsive drug delivery

carriers This volume Introduces readers to the fundamentals of these the micro and nanoscale materials as well as approaches to smart drug delivery and drug delivery systems Covers polymers metals and composite materials as well as quantum dots and carbon nanotubes Describes of all possible stimulated systems for drug delivery such as enzyme responsive small molecules responsive thermo responsive pH responsive electric field responsive magnetic field responsive light responsive ultrasound responsive and reductive environment responsive Offers a critical perspective on the future scope of smart drug delivery systems This reference work is written to support researchers in the fields of materials engineering and biotechnology with the goal of improving the diagnosis and treatment of disease and patient quality of life

2D Materials and Van der Waals Heterostructures Antonio Di Bartolomeo, 2020-06-23 The advent of graphene and more recently two dimensional materials has opened new perspectives in electronics optoelectronics energy harvesting and sensing applications This book based on a Special Issue published in Nanomaterials MDPI covers experimental simulation and theoretical research on 2D materials and their van der Waals heterojunctions. The emphasis is the physical properties and the applications of 2D materials in state of the art sensors and electronic or optoelectronic devices Functional Finishing of Textiles Mohammad Shahid, Ravindra Adivarekar, 2020-06-10 This book provides a comprehensive overview of the field of functional finishing of textiles describing the state of the art research and well established techniques applied in the textile industry and covering all areas of textile dyeing and finishing It is intended for academic researchers and professionals in related scientific and engineering fields including textile engineering chemistry nanotechnology material science biotechnology and environmental science The book also provides reference material for stakeholders looking for innovative technologies and insights into the environmental and sustainability issues in the development of functional textiles and related products Nanostructured Semiconductors Serge Zhuiykov, 2018-01-02 Nanostructured Semiconductors focuses on the development of semiconductor nanocrystals their technologies and applications including energy harvesting solar cells solid oxide fuel cells and chemical sensors Semiconductor oxides are used in electronics optics catalysts sensors and other functional devices In their 2D form the reduction in size confers exceptional properties useful for creating faster electronics and more efficient catalysts Since the first edition of the book there has been significant progress in the development of new functional nanomaterials with unique and sometimes unpredictable quantum confined properties within the class what it called two dimensional 2D semiconductors These nanocrystals represent extremely thin nano structures with thickness of just few nano meters Since that time not only were 2D semiconductor oxides further developed more importantly 2D metal dichalcogenides such as MoS2 MoSe2 WS2 WSe2 and others also progressed significantly in their development demonstrating their superior properties compared to their bulk and microstructural counterparts The book has been expanded to include these advancements The book begins with the structure and properties of semiconductor nanocrystals chapter 1 addresses electronic device applications chapter 2 discusses 2 Dimensional oxides and dichalcogenide semiconductors chapters 3 through 5 and ends with energy environment and bio applications chapters 6 through 8 Focuses on the development of semiconductor nanocrystals and their technologies and applications including energy harvesting solar cells solid oxide fuel cells and chemical sensors Include other 2D materials such as dichalcogenides to present a comprehensive resource on the latest advancements in nanostructured semiconductors Reviews the fundamental physics of conductivity and electron arrangement before proceeding to practical applications Contains a unique chapter dedicated to the new atomic layer deposition ALD technique which has the ability to develop 2D nanostructures with great precision

Energy Harvesting and Storage Devices Laxman Raju Thoutam, J. Ajayan, D. Nirmal, 2023-11-29 The book discusses the materials devices and methodologies that can be used for energy harvesting including advanced materials devices and systems It describes synthesis and fabrication details of energy storage materials It explains use of high energy density thin films for future power systems flexible and biodegradable energy storage devices fuel cells and supercapacitors nanogenerators for self powered systems and innovative energy harvesting methodologies Features Covers all relevant topics in energy harvesting research and focuses on the current state of the art techniques and materials for this application Showcases the true potential of the nature in energy harvesting industry by discussing various harvesting mechanisms based on renewable and sustainable energy sources Explains the recent trends in flexible and wearable energy storage devices that are currently being used in IoT based smart devices Overviews of the state of the art research performed on design and development of energy harvesting devices Highlights the interdisciplinary research efforts needed in energy harvesting and storage devices to transform conceptual ideas to working prototypes This book is aimed at graduate students and researchers in emerging materials energy engineering including harvesting and storage Nano-Engineering at Functional Interfaces for Multidisciplinary Applications Sai Sathish Ramamurthy, Seemesh Bhaskar, Narendra Reddy, 2024-10-18 Nano Engineering at Functional Interfaces for Multi disciplinary Applications Electrochemistry Photoplasmonics Antimicrobials and Anticancer Applications provides a comprehensive overview of the fundamentals and latest advances of nano engineering strategies for the design development and fabrication of novel nanostructures for different applications in the fields of photoplasmonics and electrochemistry as well as antibacterial and anticancer research areas The book begins with an introduction to the fundamentals and characteristics of nanostructured interfaces and their associated technologies including an overview of their potential applications in different fields. The following chapters present a thorough discussion of the synthesis processing and characterization methods of nanomaterials with unique functionalities suitable for energy harvesting food and textile applications electrocatalysis biomedical applications and more It then concludes outlining research future directions and potential industrial applications Presents the advantages and impact of nano engineering in technological advances with up to date discussions on their applications Covers research directions and potential future applications of nano engineering in industry Includes case studies that illustrate important processes

Flexible Sensors for Energy-Harvesting Applications Anindya Nag, Subhas Chandra Mukhopadhyay, 2022-04-21 This book investigates the fabrication of different types of flexible sensors and their subsequent implementation for energy harvesting applications A range of techniques including 3D printing soft lithography laser ablation micro contract printing screen printing inkjet printing and others have been used to form the flexible sensors with varied characteristics These sensors have been used for biomedical environmental and healthcare applications on the basis of their performances The quality of these flexible sensors has depended on certain types of nanomaterials that have been used to synthesize the conductive parts of the prototypes These nanomaterials have been based on different sizes and shapes whose quality varied on the basis of certain factors like crystallinity shapes and sizes One of the primary utilization of these nanotechnology based flexible sensors has been the harvesting of energy where nano generators and nano harvesters have been formed to generate and store energy respectively on small and moderate magnitudes Mechanical and thermal energies have been harvested on the basis of the piezoelectric pyroelectric and triboelectric effects created by the formed prototypes The work highlights the amalgamation of these sectors to spotlight the essence of these types of sensors and their intended application

Sustainable Green Nanotechnology Yugal Kishore Mohanta, Ishani Chakrabartty, Sarayanan Muthupandian, 2024-08-06 The book places a strong emphasis on the significance of synthesizing nanomaterials and explores various methods of achieving this with particular attention given to the production of environmentally friendly or green nanomaterials This book illustrates the current gaps in the agriculture and food industry and explores the potential applications of nanomaterials within this field The integration of nanotechnology into the fields of biology and biochemistry holds the potential to exert a significant impact on the food industry in the future This book comprehensively explores the various facets of design utilization and implementation of green nanomaterials within the agriculture and food industry It delves into their applications in areas such as fertilizers sensors food processing food packaging and sustainable agricultural practices Additionally this book explores the current limitations and potential solutions in the field of green nanomaterials highlighting their role in fostering a sustainable economy Features Addressing the global food crisis and presenting a picture of depleting food reserves Importance of nanomaterials and their efficient utilization Green synthesis of nanomaterials Utilization of green nanomaterials for development of smart and sustainable agriculture Emergence and growing application of green nanomaterials in the food industry Green nanomaterials towards a sustainable economy Existing challenges and limitations with future prospects of using green nanomaterials in food and agricultural conversion devices Soft Materials for Functional Applications Vijay Kumar, Yogendra Kumar Mishra, 2025-01-29 This book highlights the fundamental and applied properties of different soft functional materials in pure and engineered forms It presents recent developments in soft materials such as material synthesis properties multicomponent materials engineering device fabrication experimental techniques computational calculations theoretical outcomes state of the art characterizations new technologies and

evaluation of device performance The chapters in this book are useful for researchers professionals policymakers etc who are interested and involved in exploring the scope of soft materials in future green and sustainable technologies The book also includes state of the art review chapters written by well known specialists in the field and discusses applications in areas such as energy harvesting soft grippers robotics biomimetic devices drug delivery surgical devices smart packaging and aerospace devices including self reporting and self healing materials Advanced Nanomaterials for Solution-Processed Flexible Optoelectronic Devices Manjeet Singh, Ashish Kumar Singh, 2025-03-17 This book covers the recent advancements in the fabrication of flexible optoelectronic devices using advanced nanomaterials It provides information on how to process non layered advanced nanomaterials such as carbon nanotubes fullerenes nanowires colloidal quantum dots inorganic halide perovskite perovskite nanomaterials stabilized in porous materials doped ZnO lead chalcogenide nano crystals for the easy fabrication of the optoelectronic devices at an industrial scale Advanced Nanomaterials for Solution Processed Flexible Optoelectronic Devices provides up to date knowledge centered on the various non layered nanomaterials and their different types of application in optoelectronic device fabrication The first few chapters focus on the processing and applications of carbon nanotubes and fullerenes into devices for photovoltaics Throughout the book the authors demonstrate not only device fabrication but processing of the advanced nanomaterials to make them suitable for wide applications as different components in optoelectronics. The book also presents discussions on the current challenges and future perspective for the proper processing and utilization of advanced nanomaterials for the fabrication of devices This book is intended for graduate students researchers and engineers working in the area of advanced nanomaterials energy conversion energy storage sensors and different types of optoelectronic devices **Enhanced Carbon-Based Materials and Their Applications Poh** Choon Ooi, Mengying Xie, Chang Fu Dee, 2022-11-15 An authoritative and robust overview of the synthesis characterization and application of carbon based materials In Enhanced Carbon Based Materials and Their Applications a team of distinguished researchers delivers a timely and carefully referenced overview of carbon based materials and their applications Following a summary of carbon based materials and their synthesis methods the authors move on to highlight advanced topics regarding enhanced carbon based materials and their applications Discussions of the discovery of memristor based memory substrate options and the effect of electrodes materials are accompanied by a review of the developments in carbonous materials an explanation of the working principle of thermoelectric energy harvesting and the applications of carbon enhanced piezoelectric materials sensors optoelectronic devices actuators and display applications as well The book concludes with a presentation of anticipated future prospects and challenges in this area including those obstacles that must be addressed before the large scale production of carbon based products can begin Readers will also find A thorough introduction to carbon based nanomaterials including their synthesis and characterization Comprehensive explorations of functional carbon based nanomaterials and sensor applications as well as fabrication techniques of resistive switching carbon

based memories Practical discussions of carbonous based optoelectronic devices thermoelectric energy harvesters and their applications Fulsome treatments of carbon enhanced piezoelectric materials and their applications Perfect for a multi disciplinary audience in the broader scientific and industrial communities Enhanced Carbon Based Materials and Their Applications will also earn a place in the libraries of researchers and industry professionals with an interest in the synthesis and characterization of carbon nanomaterials Nanomanufacturing and Nanomaterials Design Subhash Singh, Sanjay K. Behura, Ashwani Kumar, Kartikey Verma, 2022-12-12 Nanomanufacturing includes bottom up or top down techniques each of which gives an advanced reliable scaled up and economical methods in the production of nanomaterials The text discusses fundamental concepts advanced topics and applications of nanomanufacturing in a comprehensive manner Features Discussion of the design and fabrication of nano and micro devices in a comprehensive manner Covers nanofabrication techniques for photovoltaics applications Lists constitutive modelling and simulation of multifunctional nanomaterials Introduces nanomanufacturing of nanorobots and their industrial applications Presents nanomanufacturing of a high performance piezoelectric nanogenerator for energy harvesting Important topics include nanomanufacturing of high performance piezoelectric nanogenerators for energy harvesting nanosensor nanorobots nanomedicine nano diagnostic tools 3D nano printing additive nanomanufacturing of functional materials for human integrated smart wearables and nanofabrication techniques Nanomanufacturing and Nanomaterials Design covers the latest applications of nanomanufacturing for a better understanding of the concepts The text provides scientific and technological insights on novel routes of design and fabrication of few layered nanostructures and their heterostructures based on a variety of advanced materials It will be a valuable resource for senior undergraduate graduate students and researchers in the fields of mechanical manufacturing industrial production engineering and materials science **Advanced Sensors for Smart** Healthcare Tuan Anh Nguyen, 2025-01-27 Advanced Sensors for Smart Healthcare provides an invaluable resource for researchers and healthcare practitioners who are eager to use technology to improve the lives of patients Sections highlight data from sensor networks via the smart hospital framework including data insights and access This book shows how the use of sensors to gather data on a patient s condition and the environment their care takes place in can allow healthcare professionals to monitor well being and make informed decisions about treatment Describes the fundamentals of sensors biosensors and smart hospitals Explains how sensors and implanted nanodevices can be used in smart healthcare Discusses how intelligent wireless medical sensor networks can be used for healthcare in the future Companion volume to Sensor Networks for Smart Hospitals Semiconductor Devices in Harsh Conditions Kirsten Weide-Zaage, Malgorzata Chrzanowska-Jeske, 2016-11-25 This book introduces the reader to a number of challenges for the operation of electronic devices in various harsh environmental conditions While some chapters focus on measuring and understanding the effects of these environments on electronic components many also propose design solutions whether in choice of material innovative

structures or strategies for amelioration and repair Many applications need electronics designed to operate in harsh environments Readers will find in this collection of topics tools and ideas useful in their own pursuits and of interest to their intellectual curiosity With a focus on radiation operating conditions sensor systems package and system design the book is divided into three parts The first part deals with sensing devices designed for operating in the presence of radiation commercials of the shelf COTS products for space computing and influences of single event upset The second covers system and package design for harsh operating conditions The third presents devices for biomedical applications under moisture and temperature loads in the frame of sensor systems and operating conditions **Graphene Bioelectronics** Ashutosh Tiwari,2017-11-22 Graphene Bioelectronics covers the expending field of graphene biomaterials a wide span of biotechnological breakthroughs opportunities possibilities and challenges It is the first book that focuses entirely on graphene bioelectronics covering the miniaturization of bioelectrode materials bioelectrode interfaces high throughput biosensing platforms and systemic approaches for the development of electrochemical biosensors and bioelectronics for biomedical and energy applications. The book also showcases key applications including advanced security forensics and environmental monitoring Thus the evolution of these scientific areas demands innovations in crosscutting disciplines starting from fabrication to application This book is an important reference resource for researchers and technologists in graphene bioelectronics particularly those working in the area of harvest energy biotechnology employing state of the art bioelectrode materials techniques Offers a comprehensive overview of state of art research on graphene bioelectronics and their potential applications Provides innovative fabrication strategies and utilization methodologies which are frequently adopted in the graphene bioelectronics community Shows how graphene can be used to make more effective energy harvesting devices

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through Functional Nanomaterials And Devices For Electronics Sensors And Energy Harvesting Engineering Materials

In a global inundated with monitors and the cacophony of instant transmission, the profound energy and psychological resonance of verbal artistry often fade in to obscurity, eclipsed by the continuous assault of noise and distractions. However, nestled within the musical pages of **Functional Nanomaterials And Devices For Electronics Sensors And Energy Harvesting Engineering Materials**, a interesting work of fictional elegance that impulses with natural thoughts, lies an unique trip waiting to be embarked upon. Penned with a virtuoso wordsmith, this exciting opus courses viewers on a mental odyssey, gently exposing the latent possible and profound impact embedded within the elaborate web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is main themes, dissect their interesting writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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