

Advanced Materials Series
Series Editor: Ashutosh Tiwari

GRAPHENE

*An Introduction to the Fundamentals
and Industrial Applications*



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Graphene An Introduction To The Fundamentals And Industrial Applications Advanced Material Series

Daniela Niemeyer



Graphene An Introduction To The Fundamentals And Industrial Applications Advanced Material Series:

Graphene Madhuri Sharon,2015 **Advanced Bioelectronic Materials** Ashutosh Tiwari,Hirak K. Patra,Anthony P. F. Turner,2015-10-07 This book covers the recent advances in the development of bioelectronics systems and their potential application in future biomedical applications starting from system design to signal processing for physiological monitoring to in situ biosensing Advanced Bioelectronic Materials contributions from distinguished international scholars whose backgrounds mirror the multidisciplinary readership ranging from the biomedical sciences biosensors and engineering communities with diverse backgrounds interests and proficiency in academia and industry The readers will benefit from the widespread coverage of the current literature state of the art overview of all facets of advanced bioelectronics materials ranging from real time monitoring in situ diagnostics in vivo imaging image guided therapeutics biosensors and translational biomedical devices and personalized monitoring *Advanced Materials Interfaces* Ashutosh Tiwari,Hirak K. Patra,Xuemei Wang,2016-06-22 Advanced Material Interfaces is a state of the art look at innovative methodologies and strategies adopted for interfaces and their applications The 13 chapters are written by eminent researchers not only elaborate complex interfaces fashioned of solids liquids and gases but also ensures cross disciplinary mixture and blends of physics chemistry materials science engineering and life sciences Advanced interfaces operate fundamental roles in essentially all integrated devices It is therefore of the utmost urgency to focus on how newly discovered fundamental constituents and interfacial progressions can be materialized and used for precise purposes Interfaces are associated in wide multiplicity of application spectrum from chemical catalysis to drug functions and the advancement is funnelled by fine tuning of our fundamental understanding of the interface effects **Advanced Engineering Materials and Modeling** Ashutosh Tiwari,N. Arul Murugan,Rajeev Ahuja,2016-08-05 The engineering of materials with advanced features is driving the research towards the design of innovative materials with high performances New materials often deliver the best solution for structural applications precisely contributing towards the finest combination of mechanical properties and low weight The mimicking of nature s principles lead to a new class of structural materials including biomimetic composites natural hierarchical materials and smart materials Meanwhile computational modeling approaches are the valuable tools complementary to experimental techniques and provide significant information at the microscopic level and explain the properties of materials and their very existence The modeling also provides useful insights to possible strategies to design and fabricate materials with novel and improved properties The book brings together these two fascinating areas and offers a comprehensive view of cutting edge research on materials interfaces and technologies the engineering materials The topics covered in this book are divided into 2 parts Engineering of Materials Characterizations Applications and Computational Modeling of Materials The chapters include the following Mechanical and resistance behavior of structural glass beams Nanocrystalline metal carbides microstructure characterization SMA reinforced laminated glass panel Sustainable sugarcane bagasse cellulose for

papermaking Electrospun scaffolds for cardiac tissue engineering Bio inspired composites Density functional theory for studying extended systems First principles based approaches for modeling materials Computer aided materials design Computational materials for stochastic electromagnets Computational methods for thermal analysis of heterogeneous materials Modelling of resistive bilayer structures Modeling tunneling of superluminal photons through Brain Microtubules Computer aided surgical workflow modeling Displaced multiwavelets and splitting algorithms

Advanced 2D Materials Ashutosh Tiwari, Mikael Syväjärvi, 2016-06-22 This book brings together innovative methodologies and strategies adopted in the research and developments of Advanced 2D Materials Well known worldwide researchers deliberate subjects on 1 Synthesis characterizations modeling and properties 2 State of the art design and 3 innovative uses of 2D materials including Two dimensional layered gallium selenide Synthesis of 2D boron nitride nanosheets The effects of substrates on 2 D crystals Electrical conductivity and reflectivity of models of some 2D materials Graphene derivatives in semicrystalline polymer composites Graphene oxide based multifunctional composites Covalent and non covalent polymer grafting of graphene oxide Graphene semiconductor hybrid photocatalysts for solar fuels Graphene based sensors Graphene composites from bench to clinic Photocatalytic ZnO graphene hybrids Hydroxyapatite graphene bioceramics in orthopaedic applications

Graphene in Wearable Sensors for Health Monitoring Sourabhi Debnath, Tanmoy Debnath, Mohammad Ali Moni, Manoranjan Paul, 2025-09-26 This book highlights the advancement of graphene based non invasive sensors for health monitoring Graphene has been considered the strongest and thinnest known material to date Unlike most semiconductor systems its two dimensional 2D electronic state can be accessed directly by tunneling or other local probes With their mechanical thermal and electrical properties graphene based materials have shown effectiveness in sensing various biophysical and biochemical signals such as body temperature heart rate respiration rate blood pressure blood glucose levels and electrocardiograms electromyograms and electroencephalograms

Advanced Electrode Materials Ashutosh Tiwari, Filiz Kuralay, Lokman Uzun, 2016-11-04 This book covers the recent advances in electrode materials and their novel applications at the cross section of advanced materials The book is divided into two sections State of the art electrode materials and engineering of applied electrode materials The chapters deal with electrocatalysis for energy conversion in view of bionanotechnology surfactant free materials and polyoxometalates through the concepts of biosensors to renewable energy applications mesoporous carbon diamond conducting polymers and tungsten oxide conducting polymer based electrodes and hybrid systems Numerous approaches are reviewed for lithium batteries fuel cells the design and construction of anode for microbial fuel cells including phosphate polyanion electrodes electrocatalytic materials fuel cell reactions conducting polymer based hybrid nanocomposites and advanced nanomaterials

An Introduction to Condensed Matter Physics for the Nanosciences Arthur McGurn, 2023-04-13 The book provides an accessible introduction to the principles of condensed matter physics with a focus on the nanosciences and device technologies The basics of electronic phononic

photonic superconducting optics quantum optics and magnetic properties are explored and nanoscience and device materials are incorporated throughout the chapters Many examples of the fundamental principles of condensed matter physics are taken directly from nanoscience and device applications This book requires a background in electrodynamics quantum mechanics and statistical mechanics at the undergraduate level It will be a valuable reference for advanced undergraduates and graduate students of physics engineering and applied mathematics Features Contains discussions of the basic principles of quantum optics and its importance to lasers quantum information and quantum computation Provides references and a further reading list to additional scientific literature so that readers can use the book as a starting point to then follow up with a more advanced treatment of the topics covered Requires only a basic background in undergraduate electrodynamics quantum mechanics and statistical mechanics

Graphene: The Future of Materials Science Ruang Saintek,2023-01-21 Graphene The Future of Materials Science is a comprehensive guide to the groundbreaking material of graphene Written by experts in the field this book delves into the history of graphene s discovery its chemical structure and properties and methods for its production and purification The book also explores the various applications of graphene including in electronics sensors coatings and paint energy and more Additionally the book addresses the limitations and challenges of graphene as well as the prospects for its future development and potential research directions This book is a must read for scientists researchers and anyone interested in understanding the potential of this revolutionary material

Advanced Materials for Wastewater Treatment Shahid Ul Islam,2017-09-21 This comprehensive book deals with the use of novel materials such as plant derived agents and advanced nanocomposites for the removal of heavy metals nitrates and synthetic dyes Water is an essential component for living organisms on planet earth and its pollution is one of the critical global environmental issues today The influx of significant quantities of organic and inorganic waste sediments surfactants synthetic dyes sewage and heavy metals into all types of water bodies has been increasing substantially over the past century due to rapid industrialization population growth agricultural activities and other geological and environmental changes These pollutants are very dangerous and are posing serious threat to us all Advanced Materials for Wastewater Treatment brings together innovative methodologies and research strategies to remove toxic effluents from wastewaters With contributions from leading scientists from all around the world the book provides a comprehensive coverage of the current literature up to date overviews of all aspects of toxic chemical remediation including the role of nanomaterials Together they showcase in a very lucid manner an array of technologies that complement the traditional as well as advanced treatment practices of textile effluents In particular the book provides Up to date overviews of all aspects of toxic chemical remediation The role of plants and abundantly available agro wastes in the remediation of wastewater The removal of nitrates from wastewater using nanocomposites

MXenes as Surface-Active Advanced Materials Mumtaz A. Quraishi,Chandrabhan Verma,Elyor Berdimurodov,2024-06-25 MXenes as Surface Active Advanced Materials From Basic Research to Industrial and Biomedical

Applications covers numerous aspects of the basic science and applications of MXenes including synthesis classification structure and properties as well as applications in gas storage and separation environment and catalysis tribology biomedicine and more The first part of the book focuses on the characterization synthesis and properties of MXenes including surface interface chemistry properties as well as metal MXenes interaction The second part illustrates the current and potential applications of these nanomaterials within industry and biomedicine These include a through discussion of surface chemistry and surface interaction of MXenes with different materials and the definition of the current and future applications based on the MXenes surface chemistry This book provides a complete exploration of surface and interface applications of MXenes highlighting established research and future perspectives and is a valuable resource to scientists and professionals in the field of material science nanotechnology and 2D material chemistry Discusses fundamental characteristics properties synthesis methods and processing techniques of MXenes Provides state of the art information on the most recent advances including theoretical and experimental studies and new applications Includes recent studies concerning surface chemistry and surface interaction of MXenes with different materials

Advanced Materials for Wastewater Treatment and Desalination Ahmad Fauzi Ismail, Pei Sean Goh, Hasrinah Hasbullah, Farhana Aziz, 2022-08-19

Advanced Materials for Wastewater Treatment and Desalination Fundamentals to Applications offers a comprehensive overview of current progress in the development of advanced materials used in wastewater treatment and desalination The book is divided into two major sections covering both fundamentals and applications This book Describes the synthesis and modification of advanced materials including metal oxides carbonaceous materials perovskite based materials polymer based materials and advanced nanocomposites Examines relevant synthesis routes and mechanisms as well as correlates materials properties with their characterization Details new fabrication techniques including green synthesis solvent free and energy saving synthesis approaches Highlights various applications such as removal of organic contaminants discoloration of dye wastewater petrochemical wastewater treatment and electrochemically enhanced water treatment With chapters written by leading researchers from around the world this book will be of interest to chemical materials and environmental engineers working on progressing materials applications to improve water treatment technologies

Advanced Surface Engineering Materials Ashutosh Tiwari, Rui Wang, Bingqing Wei, 2016-09-14

Advanced surfaces enriches the high throughput engineering of physical and chemical phenomenon in relation to electrical magnetic electronics thermal and optical controls as well as large surface areas protective coatings against water loss and excessive gas exchange A more sophisticated example could be a highly selective surface permeability allowing passive diffusion and selective transport of molecules in the water or gases The smart surface technology provides an interlayer model which prevents the entry of substances without affecting the properties of neighboring layers A number of methods have been developed for coatings which are essential building blocks for the top down and or bottom up design of numerous functional materials Advanced Surface Engineering Materials

offers a detailed up to date review chapters on the functional coatings and adhesives engineering of nanosurfaces high tech surface characterization and new applications The 13 chapters in this book are divided into 3 parts Functional coatings and adhesives Engineering of nanosurfaces High tech surface characterization and new applications and are all written by worldwide subject matter specialists The book is written for readers from diverse backgrounds across chemistry physics materials science and engineering medical science environmental bio and nano technologies and biomedical engineering It offers a comprehensive view of cutting edge research on surface engineering materials and their technological importance

Advanced Ceramic Materials Ashutosh Tiwari, Rosario A. Gerhardt, Magdalena Szutkowska, 2016-08-05 Ceramic materials are inorganic and non metallic porcelains tiles enamels cements glasses and refractory bricks Today ceramics has gained a wider meaning as a new generation of materials influence on our lives electronics computers communications aerospace and other industries rely on a number of their uses In general advanced ceramic materials include electro ceramics optoelectronic ceramics superconductive ceramics and the more recent development of piezoelectric and dielectric ceramics They can be considered for their features including mechanical properties decorative textures environmental uses energy applications as well as their usage in bio ceramics composites functionally graded materials intelligent ceramics and so on Advanced Ceramic Materials brings together a group of subject matter experts who describe innovative methodologies and strategies adopted in the research and development of the advanced ceramic materials The book is written for readers from diverse backgrounds across chemistry physics materials science and engineering medical science pharmacy environmental technology biotechnology and biomedical engineering It offers a comprehensive view of cutting edge research on ceramic materials and technologies Divided into 3 parts concerning design composites and functionality the topics discussed include Chemical strategies of epitaxial oxide ceramics nanomaterials Biphasic triphasic and multiphasic calcium orthophosphates Microwave assisted processing of advanced ceramic composites Continuous fiber reinforced ceramic matrix composites Ytria and magnesia doped alumina ceramic Oxidation induced crack healing SWCNTs vs MWCNTs reinforcement agents Organic and inorganic wastes in clay brick production Functional tantalum oxides Application of silver tin research on hydroxyapatite

Nanoscience & Nanotechnologies Raffaele Pisano, 2025-08-19 Nanoscience has explored new modelling and new devices in the applied sciences and technologies in health and life sciences This includes work on structures nano machines communications environment and materials science closing the gap for society toward a sustainable civilization Feynman s Plenty of Room 1959 opened a new perspective science in society debate how can we handle the applications and implications of nanoscience What is the human factor in the 21st century This volume offers both the state of the art in the field and the corresponding research with discussion of exciting developments in nanoscience technologies including historical educational and societal aspects For the first time in a unique volume it brings together cutting edge chapters in a multi disciplinary and historical context It describes the ways it differently accounted for variation

in unlike countries and consequently how its results remain still nowadays a debated question as well as due to constraints preventing an extensive exploration of its remarkable historiography It is written by leading authoritative scholars working in the various respective fields This book is ideal for scientists historians and scholars interested in nanoscience and its historical societal ramifications

Graphene: A Versatile Advanced Material Mohamad Nasir Mohamad Ibrahim, Khalid Umar, Tabassum Parveen, Asim Ali Yaqoob, Muhammad Taqi-uddeen Safian, 2024-06-07 Most of us have been exposed to graphene through the use of pencils since elementary school After all pencil leads are made out of graphite which are graphene layers that are piled on top of each other Graphene is an excellent material and has stimulated much research interest due to its unique structure and interesting properties There are several unique and powerful properties exhibited by graphene that makes it suitable for various advanced applications For example it is the thinnest material with a thickness of only one atomic layer It is also very strong flexible has high thermal and electrical conductivity and much more In addition it also has special electrical conductor and insulator properties with tunable optical properties This book covers fundamental and advanced topics related to graphene including the introduction and history structure and chemistry basic properties and the preparation methods of graphene Furthermore graphene nanocomposites different characterization techniques as well as the basic and advanced graphene applications are presented within this book in order to provide a broad reference for researchers scientists as well as postgraduate and undergraduate students Additionally this book contains a special topic related to bio based graphene which is currently gaining a lot of attention

Superhydrophobic Polymer Coatings Sushanta Samal, Smita Mohanty, Sanjay Kumar Nayak, 2019-08-21 Superhydrophobic Polymer Coatings Fundamentals Design Fabrication and Applications offers a comprehensive overview of the preparation and applications of polymer coatings with superhydrophobicity guiding the reader through advanced techniques and scientific principles Sections present detailed information on the fundamental theories and methods behind the preparation of superhydrophobic polymer coatings and demonstrate the current and potential applications of these materials covering a range of novel and marketable uses across industry including coatings with properties such as foul resistance and self cleaning anti icing and ice release corrosion inhibition antibacterial anti reflection slip and drag reduction oil water separation and advanced medical applications This book is a highly valuable resource for academic researchers scientists and advanced students working on polymer coatings or polymer surface modifications as well as professionals across polymer science polymer chemistry plastics engineering and materials science The detailed information in this book will also be of great interest to scientists R D professionals product designers and engineers who are looking to develop products with superhydrophobic coatings Presents in depth information on the advanced methods required in the preparation of superhydrophobic polymer coatings Covers the latest advances in the design of polymer coatings with superhydrophobic properties including nanofabrication Explains cutting edge industrial and medical applications including self cleaning coatings corrosion inhibition anti icing and ice release and oil water

separation *Advanced Magnetic and Optical Materials* Ashutosh Tiwari, Parameswar K. Iyer, Vijay Kumar, Hendrik Swart, 2016-11-29 *Advanced Magnetic and Optical Materials* offers detailed up to date chapters on the functional optical and magnetic materials engineering of quantum structures high tech magnets characterization and new applications It brings together innovative methodologies and strategies adopted in the research and development of the subject and all the contributors are established specialists in the research area The 14 chapters are organized in two parts Part 1 Magnetic Materials Magnetic Heterostructures and superconducting order Magnetic Antiresonance in nanocomposites Magnetic bioactive glass ceramics for bone healing and hyperthermic treatment of solid tumors Magnetic iron oxide nanoparticles Magnetic nanomaterial based anticancer therapy Theoretical study of strained carbon based nanobelts Structural energetical electronic and magnetic properties Room temperature molecular magnets Modeling and applications Part 2 Optical Materials Advances and future of white LED phosphors for solid state lighting Design of luminescent materials with Turn on off response for anions and cations Recent advancements in luminescent materials and their potential applications Strongly confined quantum dots Emission limiting photonic doping and magneto optical effects Microstructure characterization of some quantum dots synthesized by mechanical alloying Advances in functional luminescent materials and phosphors Development in organic light emitting materials and their potential applications

Conducting Polymer-Based Nanocomposites Ayesha Kausar, 2021-04-22 *Conducting Polymer Based Nanocomposites Fundamentals and Applications* delivers an up to date overview on cutting edge advancements in the field of nanocomposites derived from conjugated polymeric matrices Design of conducting polymers and resultant nanocomposites has instigated significant addition in the field of modern nanoscience and technology Recently conducting polymer based nanocomposites have attracted considerable academic and industrial research interest The conductivity and physical properties of conjugated polymers have shown dramatic improvement with nanofiller addition Appropriate fabrication strategies and the choice of a nanoreinforcement along with a conducting matrix may lead to enhanced physicochemical features and material performance Substantial electrical conductivity optical features thermal stability thermal conductivity mechanical strength and other physical properties of the conducting polymer based nanocomposites have led to high performance materials and high tech devices and applications This book begins with a widespread impression of state of the art knowledge in indispensable features and processing of conducting polymer based nanocomposites It then discusses essential categories of conducting polymer based nanocomposites such as polyaniline polypyrrole polythiophene and derived nanomaterials Subsequent sections of this book are related to the potential impact of conducting polymer based nanocomposites in various technical fields Significant application areas have been identified for anti corrosion EMI shielding sensing and energy device relevance Finally the book covers predictable challenges and future opportunities in the field of conjugated nanocomposites Integrates the fundamentals of conducting polymers and a range of multifunctional applications Describes categories of essential

conducting polymer based nanocomposites for polyaniline polypyrrole polythiophene and derivative materials Assimilates the significance of multifunctional nanostructured materials of nanocomposite nanofibers Portrays current and future demanding technological applications of conjugated polymer based nanocomposites including anti corrosion coatings EMI shielding sensors and energy production and storage devices *Graphene* Madhuri Sharon, Maheshwar Sharon, 2015-07-27 Often described as a miracle material graphene's potential applications are extraordinary ranging from nanoscale green technologies to sensors and future conductive coatings This book covers the topic of graphene the history fundamental properties methods of production and applications of this exciting new material The style of the book is both scientific and technical it is accessible to an audience that has a general undergraduate level background in the sciences or engineering and is aimed at industries considering graphene applications As the graphene topic is a broad reaching and rapidly moving field of research the aim of this book is therefore to provide information about graphene and its current and future applications that are immediately implementable relevant and concise After reading this book the reader will have sufficient knowledge and background to move forward independently into graphene R D and to apply the knowledge therein Although the book will be self contained each chapter has copious references to enable further reading research and exploration of the chapter topics

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