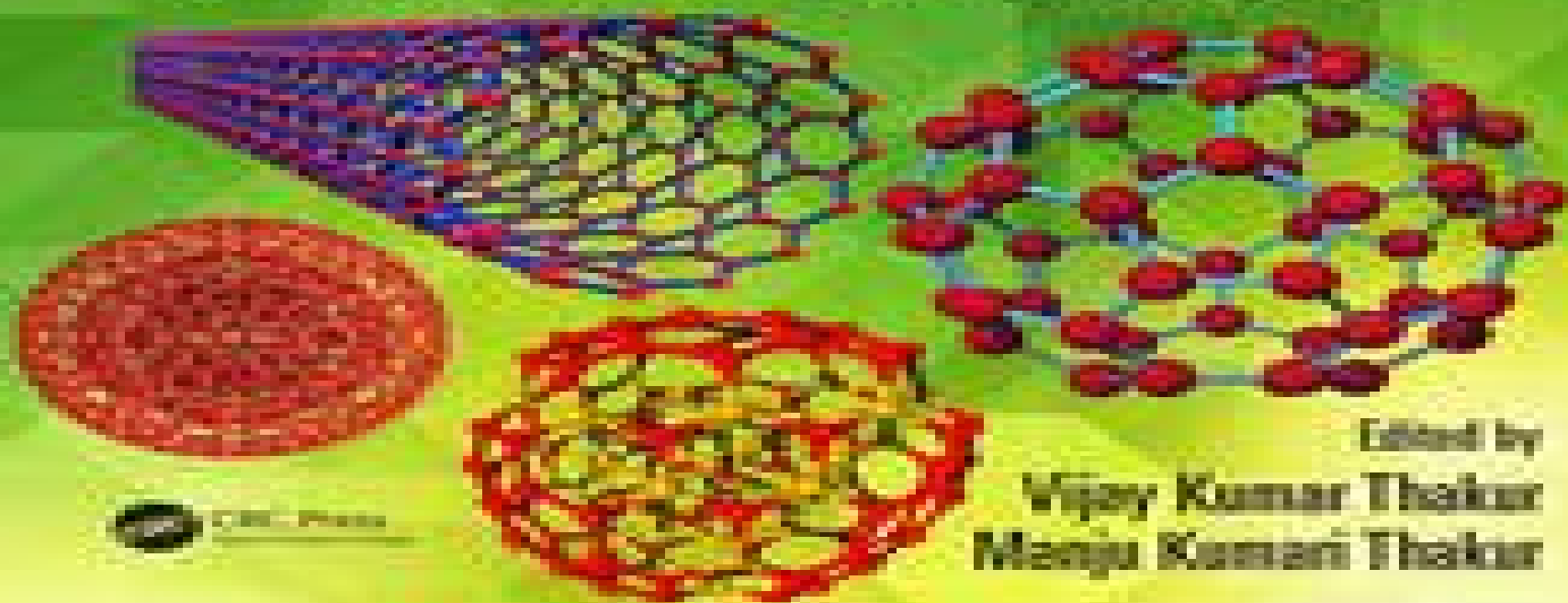


CHEMICAL FUNCTIONALIZATION OF CARBON NANOMATERIALS

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Vijay Kumar Thakur
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Chemical Functionalization Of Carbon Nanomaterials Chemistry And Applications

**Ranjusha Rajagopalan, Avinash
Balakrishnan**



Chemical Functionalization Of Carbon Nanomaterials Chemistry And Applications:

Chemical Functionalization of Carbon Nanomaterials Vijay Kumar Thakur, Manju Kumari Thakur, 2015-07-28 Carbon based nanomaterials are rapidly emerging as one of the most fascinating materials in the twenty first century Chemical Functionalization of Carbon Nanomaterials Chemistry and Applications provides a thorough examination of carbon nanomaterials including their variants and how they can be chemically functionalized It also gives a comprehensive Carbon Nanomaterials and their Nanocomposite-Based Chemiresistive Gas Sensors Shivani Dhall, 2023-01-20 Carbon Nanomaterials and their Nanocomposite Based Chemiresistive Gas Sensors Applications Fabrication and Commercialization sets out how carbon nanomaterials based chemiresistive gas sensor are made and their applications at lab and industrial levels The book focuses on major advances in the field of chemiresistive gas sensors in recent years and their potential applications in environmental monitoring and healthcare Carbon Nanomaterials and their Nanocomposite Based Chemiresistive Gas Sensors Applications Fabrication and Commercialization provides systematic and effective guidelines to the researchers as well as learners about sensor their fabrication and applications Chemiresistive sensors are widely used in automation of numerous industrial processes as well as for everyday monitoring of various activities as public safety engine performance medical therapeutics and in many other situations hence the book will catch the attention of readers and motivate them for advanced research for the development of smart and efficient gas sensors With full coverage of the state of the art in this active research field the book will appeal to researchers in a broad range of disciplines including nanotechnology engineering materials science chemistry and physics Offers a one stop resource bringing together information currently scattered over journal papers industrial lab outcomes and project reports Presents information about the properties synthesis of nanomaterials their device fabrication and applications as sensing materials Combining fundamental experimental and theoretical knowledge with industrial needs and engineering design methods **Carbon Nanomaterials for**

Electrochemical Energy Technologies Shuhui Sun, Xueliang Sun, Zhongwei Chen, Yuyu Liu, David P. Wilkinson, Jiu-Jun Zhang, 2017-11-20 This book offers comprehensive coverage of carbon based nanomaterials and electrochemical energy conversion and storage technologies such as batteries fuel cells supercapacitors and hydrogen generation and storage as well as the latest material and new technology development It addresses a variety of topics such as electrochemical processes materials components assembly and manufacturing degradation mechanisms challenges and strategies With in depth discussions ranging from electrochemistry fundamentals to engineering components and applied devices this all inclusive reference offers a broad view of various carbon nanomaterials and technologies for electrochemical energy conversion and storage devices **Carbon Nanomaterials for Bioimaging, Bioanalysis, and Therapy** Yuen Y.

Hui, Huang-Cheng Chang, Haifeng Dong, Xueji Zhang, 2019-01-29 A comprehensive reference on biochemistry bioimaging bioanalysis and therapeutic applications of carbon nanomaterials Carbon nanomaterials have been widely applied for

biomedical applications in the past few decades because of their unique physical properties versatile functionalization chemistry and biological compatibility This book provides background knowledge at the entry level into the biomedical applications of carbon nanomaterials focusing on three applications bioimaging bioanalysis and therapy Carbon Nanomaterials for Bioimaging Bioanalysis and Therapy begins with a general introduction to carbon nanomaterials for biomedical applications including a discussion about the pros and cons of various carbon nanomaterials for the respective therapeutic applications It then goes on to cover fluorescence imaging deep tissue imaging photoacoustic imaging pre clinical clinical bioimaging applications carbon nanomaterial sensors for cancer and disease diagnosis targeted cancer therapy and photothermal photodynamic therapy Each chapter briefly introduces the biomedical application and emphasizes the most appropriate carbon nanomaterial s for the application Provides an introduction to the biomedical applications of carbon nanomaterials for early career scientists as well as background and context for mid career scientists and researchers Contains four sections covering biochemistry bioimaging bioanalysis and therapeutic applications of carbon nanomaterials Presented by experts who have strong background in the field of nanotechnology for biomedical applications Covers a hot area of research which has very unique physical properties versatile functionalization chemistry and biological compatibility Carbon Nanomaterials for Bioimaging Bioanalysis and Therapy is an excellent resource for academic researchers and industrial scientists working on preparation and bio application of carbon nanomaterials biomedical engineering and nanotechnology

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

Comprehensive Nanoscience and Nanotechnology, 2019-01-02 Comprehensive Nanoscience and Technology Second Edition Five Volume Set allows researchers to navigate a very diverse interdisciplinary and rapidly changing field with up to date comprehensive and authoritative coverage of every

aspect of modern nanoscience and nanotechnology Presents new chapters on the latest developments in the field Covers topics not discussed to this degree of detail in other works such as biological devices and applications of nanotechnology Compiled and written by top international authorities in the field Environmental Applications of Carbon Nanomaterials-Based Devices Shadpour Mallakpour, Chaudery M. Hussain, 2021-09-17 Environmental Applications of Carbon Nanomaterials Based Devices Explore this insightful treatment of the function and fabrication of high performance devices for environmental applications Environmental Applications of Carbon Nanomaterials Based Devices delivers an overview of state of the art technology in functionalized carbon nanomaterials based devices for environmental applications The book provides a powerful foundation based in materials science on functionalized carbon nanomaterials in general and environmental science and device fabrication in particular The book focuses on the chemical and physical methods of functionalization of carbon nanomaterials and the technology of device fabrication including lab on a chip approaches and applications such as wastewater purification and gas sensing It provides readers with a thorough understanding of effective environmental remediation techniques performed with carbon nanomaterials based devices In addition to topics such as cross linked graphene oxide membranes assembled with graphene oxide nanosheets free standing graphene oxide chitin nanocrystal composite membranes for dye adsorption and oil water separation and in situ grown covalent organic framework nanosheets on graphene for membrane based dye salt separation readers will also benefit from the inclusion of A thorough introduction to charge gated ion transport through polyelectrolyte intercalated amine reduced graphene oxide membranes An exploration of hydrotalcite graphene oxide hybrid nanosheets functionalized nanofiltration membrane for desalination A discussion of the incorporation of attapulgite nanorods into graphene oxide nanofiltration membranes for efficient dyes wastewater treatment An examination of attapulgite nanofibers and graphene oxide composite membranes for high performance molecular separation Perfect for materials scientists analytical chemists and environmental chemists Environmental Applications of Carbon Nanomaterials Based Devices will also earn a place in the libraries of sensor developers seeking a one stop resource for high performance devices and sensors useful for environmental applications

Nanomaterials for Biocatalysis Guillermo R. Castro, Ashok Kumar Nadda, Tuan Anh Nguyen, Xianghui Qi, Ghulam Yasin, 2021-10-12 Nanomaterials for Biocatalysis explains the fundamental design concepts and emerging applications of nanoscale biocatalysts such as bioconversions bioelectronics biosensors biocomputing and therapeutic applications Nano biocatalysts refers to the incorporation of enzymes into nanomaterials These enzyme enhanced nanocarriers have many advantages including low mass transfer limitation high enzyme capacity better stabilization and the formation of single enzyme nanoparticles Smart nanocontainers have been developed for the smart release of their embedded active substances These smart releases can be obtained by using smart coatings as their outer nanoshells In addition these nanocontainers could protect the enzymes from chemical or metabolic alterations on their delivering pathways towards the target This is an

important reference source for materials scientists and chemical engineers who want to know more about how nanomaterials are being used for biocatalysis applications Explains the major fabrication techniques and applications of nanobiocatalysts Shows how nanobiocatalysts are used in a variety of environmental and biomedical sectors Assesses the major challenges associated with the widespread manufacture of nanobiocatalysts **Carbon Nanomaterials** Yury Gogotsi, Volker

Presser, 2013-10-24 This book provides information on synthesis properties and applications of carbon nanomaterials With novel materials such as graphene atomically flat carbon or carbon onions carbon nanospheres the family of carbon nanomaterials is rapidly growing This book provides a state of the art overview and in depth analysis of the most important ca **Carbon Allotropes** Jeenat Aslam, Chandrabhan Verma, Chaudhery Mustansar Hussain, Ruby Aslam, 2023-12-12 1

Discusses carbon allotropes based nanostructured as corrosion resistant coatings materials 2 Reviews use of nanostructure materials based corrosion resistant coatings as revolutionized modern industrial practices 3 Focuses on most advanced nanostructure materials corrosion resistant coatings materials 4 Explores nanostructure materials as corrosion resistant coatings materials 5 Evaluates carbon allotropes as nanostructure materials based corrosion resistant coatings as options for sustainable and transformational opportunities **Synthesis, Technology and Applications of Carbon Nanomaterials**

Suraya Abdul Rashid, Raja Nor Izawati Raja Othman, Mohd Zobir Hussein, 2018-10-10 Synthesis Technology and Applications of Carbon Nanomaterials explores the chemical properties of different classes of carbon nanomaterials and their major applications As carbon nanomaterials are used for a variety of applications due to their versatile properties and characteristics this book discusses recent advances in synthesis methods characterization and applications of 0D 3D dimensional carbon nanomaterials It is an essential resource for readers focusing on carbon nanomaterials research Explores the chemical properties of different classes of carbon nanomaterials and their major applications Discusses recent advances in synthesis methods characterization and applications of 0D 3D dimensional carbon nanomaterials *Carbon-Based Metal Free Catalysts* Abdullah Mohammed Ah Asiri, Anish Khan, Showkat Ahmad Bhawani, Bahaa Mohamed Mahmoud

Abu-Zied, Suchart Siengchin, Huriya Dzudzevic-Cancar, 2022-05-11 Carbon Based Metal Free Catalysts Preparation Structural and Morphological Property and Application covers the different aspects of carbon based metal free catalysts including the fabrication of catalysts from natural sources and carbon allotropes their manufacturing and design characterization techniques and applications Special features in the book include illustrations and tables which summarize up to date information on research carried out on manufacturing design characterization and applications of metal free catalysts This book assembles the information and knowledge on metal free catalysts and emphasizes the concept of green technology in the field of manufacturing and design It is an ideal reference source for lecturers students researchers and industrialists working in the field of new catalyst development especially polymer composites and is a valuable reference book handbook for teaching learning and research Describes the design on metal free catalysts Includes manufacturing technique of carbon

based metal free catalysts Lists applications of carbon based metal free catalysts Discusses the characterization of carbon based metal free catalysts *Bio-derived Carbon Nanostructures* Bharat Apparao Bhanvase, Divya Prakash Barai, 2024-08-01 Bio derived Carbon Nanostructures Fundamentals Synthesis and Applications explores the entire journey from selecting the right source materials to crafting them into precisely engineered carbon nanostructures with a purpose Opening with an exploration of raw materials and their structural intricacies offering readers a profound insight into the transformation of bio based resources into highly functional carbon nanostructures These remarkable materials find applications that span energy environmental solutions catalysis and innovative additives Unveiling the latest technological advancements this book delves into the exciting realm of emerging applications and the challenges of scaling up these technologies for widespread use These novel materials originate from nature promising a sustainable future Ideal for students researchers and those in industry focusing on materials science and biomass utilization and chemical engineers this book is the key to unlocking the potential of novel carbon based nanomaterials for a sustainable tomorrow Presents the art of crafting bio derived carbon nanostructures their applications and scale up issues Unveils the secrets behind various fabrication techniques and provides background for manufacturing Embarks on a journey through the fundamentals of process property relationships and cutting edge characterization methods Explores and compares diverse preparation and characterization techniques unveiling their remarkable outcomes

Progresses in Chemical Sensor Wen Wang, 2016-08-24 Although the history of chemical sensor dates back not long ago it has attracted great research interest owing to its many excellent properties such as small size satisfactory sensitivity larger dynamic range low cost and easy to realize automatic measurement and on line or in situ and continuous detection With decades of vigorous research works various sophisticated chemical sensors have been widely used in environmental conservation and monitoring industrial process monitoring gas composition analysis medicine national defense and public security and on site emergency disposal Hence the chemical sensor becomes one of the most active and effective directions of modern sensor technology A typical chemical sensor is the analyzer that responds to a particular analyte in a selective and reversible way and transforms input chemical quantity ranging from the concentration of a specific sample component to total composition analysis into an analytically electrical signal This book is an attempt to highlight recent progresses in the chemical sensors It is composed of seven chapters and divided into four sections categorized by the working principle of the chemical sensor This collection of up to date information and the latest research progress on chemical sensor will provide valuable references and learning materials for all those working in the field of chemical sensors

Next Generation Point-of-care Biomedical Sensors Technologies for Cancer Diagnosis Pranjal Chandra, Yen Nee Tan, Surinder P. Singh, 2017-12-30 This book presents recent research on cancer detection methods based on nanobiosensors which offer ultrasensitive point of care diagnosis Several methods for diagnosing cancer have been discovered and many more are currently being developed Conventional clinical approaches to detecting cancers are based on a biopsy followed by

histopathology or on the use of biomarkers protein levels or nucleic acid content Biopsy is the most widely used technique however it is an invasive technique and is not always applicable Furthermore biomarker based detection cannot be relied on when the biomarkers are present in an extremely low concentration in the body fluids and in malignant tissues Thus in recent years highly sensitive and robust new cancer diagnosis techniques have been developed for clinical application and may offer an alternative strategy for cancer diagnosis As such this book gathers the latest point of care cancer diagnostic methods and protocols based on biomedical sensors microfluidics and integrated systems engineering It also discusses recent developments and diagnostics tests that can be conducted outside the laboratory in remote areas These technologies include electrochemical sensors paper based microfluidics and other kit based diagnostic methods that can be adapted to bring cancer detection and diagnostics to more remote settings around the globe Overall the book provides students researchers and clinicians alike a comprehensive overview of interdisciplinary approaches to cancer diagnosis

Functionalized Carbon Nanomaterials for Theranostic Applications Shadpour Mallakpour, Chaudhery Mustansar Hussain, 2022-09-17 Functionalized Carbon Nanomaterials for Theranostic Applications offers insights into the developments and trends that are progressing fast in the field of functionalized carbon nanomaterials based devices as diagnostic tools for early stage detection of human diseases The book provides information on how functionalized carbon nanomaterials are being used as the basis for products such as early disease diagnostic kits quantum dots for medical imaging and a growing list of other applications Sections cover different mechanical absorption optical and electrical properties than those found in original nanomaterials This is an important reference source that will be valuable to materials scientists biomedical engineers and pharmaceutical scientists who are looking to increase their understanding on how functionalized carbon nanomaterials are being used for a variety of theranostic applications Provides readers with information on how to develop functionalized carbon nanomaterials based diagnostic devices and tools Identifies fabrication and characterization methods for integrated devices for use in theranostic applications Assesses major challenges for manufacturing functionalized carbon nanomaterial materials for theranostic devices on an industrial scale

Innovations in Engineered Porous Materials for Energy Generation and Storage Applications Ranjusha Rajagopalan, Avinash Balakrishnan, 2018-04-27 Making innovative products for energy generation that decrease carbon footprints are the need of the hour This book describes innovations in porous materials for energy generation and storage applications that can have applications in developed as well as developing countries It provides a comprehensive account of porous materials for potential new applications such as catalysts for gas storage and energy efficient transformations which engineers and scientists working in the areas of solar cells batteries supercapacitors fuel cells etc will find to be of immense interest

Fullerens, Graphenes and Nanotubes Alexandru Mihai Grumezescu, 2018-05-28 Fullerens Graphenes and Nanotubes A Pharmaceutical Approach shows how carbon nanomaterials are used in the pharmaceutical industry While there are various books on the carbonaceous nanomaterials available on the

market none approach the subject from a pharmaceutical point of view In this context the book covers different applications of carbonaceous nanomaterials Chapters examine different types of carbon nanomaterials and explore how they are used in such areas as cancer treatments pulse sensing and prosthetics Readers will find this book to be a valuable reference resource for those working in the areas of carbon materials nanomaterials and pharmaceutical science Explains how the unique properties of carbon based nanomaterials allow them to be used to create effective drug delivery systems Covers how carbon based nanomaterials should be prepared for use in pharmaceutical applications Discusses the relative toxicity of a range of carbon based nanomaterials Considers the safety of their use in different types of drugs Emerging Carbon Materials for Catalysis Samahe Sadjadi,2020-09-24 Emerging Carbon Materials for Catalysis covers various carbon based materials with a focus on their utility for catalysis Each chapter examines the photo and electrocatalytic applications of a material including hybrid systems composed of carbon materials The range of chemical reactions that can be catalyzed with each material as well as the potential drawbacks of each are discussed Covering nanostructured systems as well as other microstructured materials the book reviews emerging carbon based structures including carbon organic frameworks Written by a global team of experts this volume is ideal for graduate students and researchers working in organic chemistry catalysis nanochemistry and nanomaterials Introduces novel and emerging carbon materials with utility for photocatalysis and electrocatalysis Covers a wide range of photochemical and electrochemical processes that can be catalyzed by carbon based catalysts Addresses the hybrid systems composed of carbon materials for catalysis Serves as an ideal reference for graduate students and researchers working in organic chemistry catalysis nanochemistry and nanomaterials Waste Production and Utilization in the Metal Extraction Industry Sehliselo Ndlovu,Geoffrey S. Simate,Elias Matinde,2017-06-27 Increasingly stringent environmental regulations and industry adoption of waste minimization guidelines have thus stimulated the need for the development of recycling and reuse options for metal related waste This book therefore gives an overview of the waste generation recycle and reuse along the mining beneficiation extraction manufacturing and post consumer value chain This book reviews current status and future trends in the recycling and reuse of mineral and metal waste and also details the policy and legislation regarding the waste management health and environmental impacts in the mining beneficiation metal extraction and manufacturing processes This book is a useful reference for engineers and researchers in industry policymakers and legislators in governance and academics on the current status and future trends in the recycling and reuse of mineral and metal waste Some of the key features of the book are as follows Holistic approach to waste generation recycling and reuse along the minerals and metals extraction Detailed overview of metallurgical waste generation Practical examples with complete flow sheets techniques and interventions on waste management Integrates the technical issues related to efficient resources utilization with the policy and regulatory framework Novel approach to addressing future commodity shortages

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