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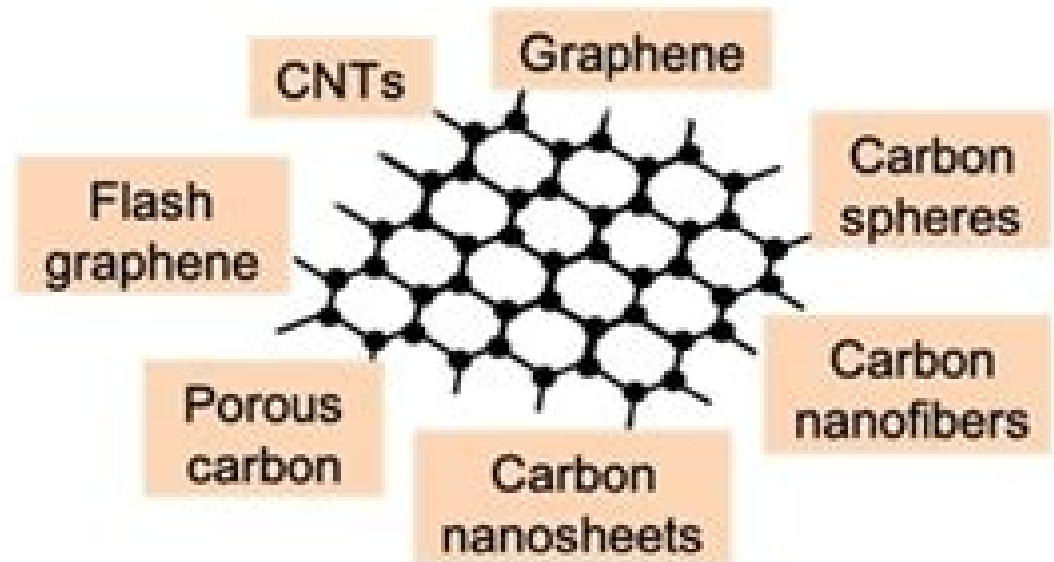
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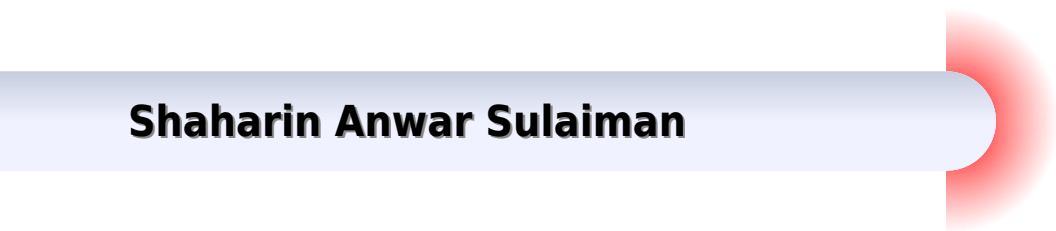
**Plastic
Waste**

**Carbon
Nanomaterials**



Waste Plastic To Carbon Nano Materials A New Source For Carbon Nanotechnology

Shaharin Anwar Sulaiman



Waste Plastic To Carbon Nano Materials A New Source For Carbon Nanotechnology:

Sustainable Nanotechnology Zibiao Li,Jie Zheng,Enyi Ye,2022-06-17 This book illustrates how green nanotechnology is being used to promote sustainability including applications in environmental remediation and energy optimization

Circularity of Plastics Zibiao Li,Jason Y.C. Lim,Chen-Gang Wang,2023-02-21 Circularity of Plastics Sustainability Emerging Materials and Valorization of Waste Plastic takes an innovative interdisciplinary approach to circularity and sustainability in plastics with an emphasis on plastic waste and end of life treatment and options for recycling re use valorization and development of biomass based polymers The book introduces key concepts of sustainable materials the circular economy and lifecycle assessment and discusses challenges in the valorization of waste Other sections cover the upcycling of waste plastic into new materials and fuels with dedicated chapters exploring state of the art techniques for conversion to new sustainable polymers fuel fine chemicals and carbon nanomaterials Emerging technologies used to produce functional polymers from renewable feedstocks including CO2 biomass natural polymers polylactic acid PLA and polyhydroxyalkanoate based materials PHAs are then explored with a final chapter focusing on applications of sustainable materials challenges and future perspectives This is a valuable resource for researchers scientists engineers R D professionals and advanced students from a range of disciplines and backgrounds with an interest in sustainable materials circularity in plastics and polymer waste and valorization Explains the fundamental concepts of sustainable materials circular economy lifecycle assessment and valorization of plastic waste Presents cutting edge methods for the conversion or upcycling of waste to sustainable polymers fuel and fine chemicals and carbon nanomaterials Provides detailed coverage of the development of functional polymers from a range of sustainable and renewable resources Chemistry, a Sustainable Bridge from Waste to Materials for Energy and Environment Francesca Deganello,Enrico Traversa,Ana C.

Tavares,2021-03-08 *Green and Sustainable Approaches Using Wastes for the Production of Multifunctional Nanomaterials* Abhishek Kumar Bhardwaj,Kuldip Dwivedi,Mika Sillanpää,Arun Lal Srivastav,2024-01-19 Green and Sustainable Approaches Using Wastes for the Production of Multifunctional Nanomaterials focuses on the examination of green synthesis utilizing green waste materials derived from home and industrial applications This book also examines the current state of material generations future problems and their industrial constraints and the synthesis of NMs for various applications such as medicinal agriculture environmental food and beverage storage and so on The book includes the most recent practical and theoretical aspects of the use of waste materials released in the fabrication of various types of valuable nanomaterials such as metal metal oxide polymeric and graphene among others This is a relatively new concept in waste utilization and green synthesis is a viable resource in making NPs This book will also be valuable for waste management professionals who need proper disposal techniques for by products Provides various types of waste management helps to develop innovative ideas Discusses waste to valuable wealth waste resources management approaches to focus sustainable

development pollution reduction and alternative options for smooth recovery of resources Contains advanced information about green nanotechnology **Environmental Nanotechnology: Implications and Applications** ,2022-11-02

Environmental Nanotechnology Implications and Applications Volume 99 focuses on the implications and applications of Environmental Nanotechnology The book presents the various methods used for the production and characterization of nanoparticles and includes chapters on Nanoparticles An overview Nanomaterials and photocatalysis for environment Applications and characterization Toxicity of inorganic nanoparticles Overview of nanoparticles technology usage for water treatment with an emphasis on the emerging water pollutants Nanotechnology in wastewater treatment Nanomaterials for groundwater remediation Development of nano sensor and biosensor as an air pollution detection technique for the foreseeable future and more Additional chapters in this comprehensive release include Nanomaterials as a tool for soil remediation in sustainable agriculture Impact of nanoparticles in wastewater treatment Nanoparticles in solid waste Impact and management strategies and Global regulations and legislations on nanoparticles usage and application in diverse horizons Includes information on how nanotechnology impacts different environmental fields Presents the benefits of Nanotechnology usage in the treatment of groundwater water wastewater air and soil like environmental compartments Discusses available management and policies for the regulation of nanotechnology usage **Waste-Derived Nanoparticles**
Jeenat Aslam,Ruby Aslam,Chaudhery Mustansar Hussain,2024-07-05 Waste derived Nanoparticles Synthesis Applications and Sustainability embarks on an illuminating exploration at the intersection of waste management and nanotechnology Delving deep into the realm of nanoparticle synthesis this comprehensive volume meticulously examines various waste sources ranging from industrial residues to electronic waste uncovering their potential for sustainable innovation Through detailed discussions on synthesis methodologies and characterization techniques each chapter offers insights into the intricate processes involved in transforming waste materials into functional nanoparticles Beyond synthesis the book ventures into the diverse applications of waste derived nanoparticles offering transformative solutions to pressing environmental challenges From revolutionizing wastewater treatment to combating air pollution and advancing energy technologies these applications hold promise for a greener future With a forward looking perspective this book envisions a shift toward a circular economy where waste materials are not only repurposed but also contribute to a more sustainable and environmentally conscious world This book serves as a beacon guiding us toward a future where waste becomes a valuable resource in our quest for a cleaner and healthier planet Discusses the synthesis of nanoparticles made from waste as well as their uses in contemporary industrial platforms Offers researchers an influential framework for a fundamental multidisciplinary study as the use of waste derived nanoparticles as sustainable materials has changed modern industrial processes Reviews the most cutting edge industrial uses of waste derived nanoparticles as well as current manufacturing problems Maintains a current study on nanoparticles made from waste along with fresh advancements in a variety of related fields Nanotechnology and the

Environment Mousumi Sen, 2020-12-02 Nanotechnology is a vibrant area of research and a growing industry. The core scientific principles and applications of this interdisciplinary field bring together chemists, physicists, materials scientists, and engineers to meet the potential future challenges for sustainable development through new technologies and preparation of advanced materials with sustainable environmental protection. This book on Nanotechnology and the Environment includes the design and the sophisticated fabrication of nanomaterials along with their potential energy and environmental applications. This book is a significant contribution towards the development of the knowledge for all advanced undergraduate, graduate level students, researchers, and professional engineers leading in the fields of nanotechnology, nanochemistry, macromolecular science, and those who have interest in energy and environmental science. *Energy Materials and Devices* Ambesh Dixit, Vijay K. Singh, Shahab Ahmad, 2024-02-26 This book is a collection of peer-reviewed best selected research papers presented at the National Conference on Energy Materials and Devices E-MAD 2022 organized by the Indian Institute of Technology Jodhpur, India, during 16-18 December 2022. The book focusses on the current state of the art research and development in the field of lithium and beyond lithium ion batteries as electrochemical energy storage devices for sustainable development to meet the energy storage needs. This includes the materials design using computational approaches together with experimental advances targeting the next generation energy storage materials and devices such as photo-rechargeable batteries. In addition, the proceedings also focus simultaneously on green hydrogen energy generation, storage, and integration in fuel cells. It includes the catalytically active nanoengineered materials for hydrogen generation, functionalized hydrides, and their composites for enhanced hydrogen storage together with their possible integration in fuel cells for their direct energy generation applications. *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. **Biotechnological**

Approaches for Sustainable Environment Management Sudhir Pratap Singh, Jyoti Singh Jadaun, Amit Kumar Rai, 2025-09-09 Biotechnological advancements offer approaches for sustainable environmental management owing to their capacity to tackle various environmental issues including pollution waste management and resource conservation The state of the environment is continually deteriorating due to industrialization and different human actions Innovations must be pursued to mitigate the detrimental impact of environmental pollutants The ubiquitous presence of microbial resources offers vast potential for developing technologies aimed at reducing the levels of harmful substances contaminating the environment This book is focused on biotechnological applications designed to address environmental challenges associated with industrial effluents plastic and biological wastes The chapters in the book emphasize the microbial agents that are helpful in managing industrial and agricultural wastes

Graphene from Natural Sources Amir Al-Ahmed, Inamuddin, 2022-07-18 This book examines the synthesis of graphene obtained from different natural raw materials and waste products as a low cost environmentally friendly alternative that delivers a quality final product Expert researchers review potential sources of natural raw materials and waste products methods or characterization graphene synthesis considerations and important applications

FEATURES Explores the different approaches to the synthesis of graphene oxide GO and reduced graphene oxide rGO from natural and industrial carbonaceous wastes Outlines the modification and characterization methods of GO and rGO Addresses the characterization methods of GO and rGO Details applications of GO and rGO created from natural sources Graphene is a multidisciplinary material with applications in almost every sector of science and engineering Graphene from Natural Sources Synthesis Characterization and Applications is a noteworthy reference for material scientists and engineers in academia and industry interested in reducing costs and employing green synthesis methods in their work

New Materials for a Circular Economy Alberto García-Peñas, Gaurav Sharma, 2023-09-01 A circular and environment friendly economy could displace the linear economy as it is in use around the world This would involve enlarged life cycles for products and an increase in the efficiency of electric and electronic devices The generation of new materials will be essential as well as materials recycling or conversion after use This book discusses new ways of production management recycling and conversion of new and regular materials

Keywords Microplastics Lignocellulose Based Materials Food Packaging Biorefinery Solar Energy Reused Materials Recycling of Plastics Biopolymers Composites Polymeric Systems CO₂ Capture Anticorrosive Polymeric Coatings Metallic Structures Scrap for New Steel Nanomaterials Waste from Electronic Components Future of Cars Raw Materials Biomaterials Bioeconomy Circular Bioeconomy Polymeric Electrolytes Fuel Cells

Waste Recycling Technologies for Nanomaterials Manufacturing Abdel Salam Hamdy Makhlouf, Gomaa A. M. Ali, 2021-05-09 This book discusses the recent advances in the wastes recycling technologies to provide low cost and alternative ways for nanomaterials production It shows how carbon nanomaterials can be synthesized from different waste sources such as banana fibers argan *Argania spinosa* seed shells corn grains camellia *oleifera* shell sugar cane bagasse oil

palm empty fruit bunches and leaves and palm kernel shells Several nanostructured metal oxides MnO_2 Co_3O_4 can be synthesized via recycling of spent batteries The recovered nanomaterials can be applied in many applications including Energy supercapacitors solar cells etc water treatments heavy metal ions and dyes removal and other applications Spent battery and agriculture waste are rich precursors for metals and carbon respectively The book also explores the various recycling techniques agriculture waste recycling batteries recycling and different applications of the recycled materials

Particulate Plastics in Terrestrial and Aquatic Environments Nanthi S. Bolan, M.B. Kirkham, Claudia Halsband, Dayanthi Nugegoda, Yong Sik Ok, 2020-07-30 The manufacture of plastic as well as its indiscriminate disposal and destruction by incineration pollutes atmospheric terrestrial and aquatic ecosystems Synthetic plastics do not break down they accumulate in the environment as macro micro and nanoplastics These particulate plastics are a major source of pollutants in soil and marine ecosystems Particulate Plastics in Terrestrial and Aquatic Environments provides a fundamental understanding of the sources of these plastics and the threats they pose to the environment The book demonstrates the ecotoxicity of particulate plastics using case studies and offers management practices to mitigate particulate plastic contamination in the environment Features Describes physical and chemical properties of particulate plastics in terrestrial and aquatic ecosystems Presents information on characteristics of particulate plastics as impacted by weathering processes Provides numerous approaches for managing particulate plastic contamination Identifies sources of particulate plastics in the environment distribution and characteristics of particulate plastics and management strategies of particulate plastics Written by a global team of scientists this book is for researchers in the fields of environmental safety and waste management or individuals interested in the impact of particulate plastics on environmental health

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 *Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2017-01-11 The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology By better understanding the components and structures of materials researchers can increase its applications across different industries Materials Science and Engineering Concepts Methodologies Tools and Applications is a compendium of the latest academic material on investigations technologies and techniques pertaining to analyzing the synthesis and design of new materials Through its broad and extensive coverage on a variety of crucial topics such as nanomaterials biomaterials and relevant computational methods this multi volume work is an essential reference source for engineers academics researchers students professionals and practitioners seeking innovative perspectives in the field of materials science and engineering **Modern Nanotechnology** Junaid Ahmad Malik,Mohamed Jaffer Sadiq Mohamed,2023-07-18 This two volume set provides a comprehensive overview of modern nanoscience and encompasses advanced techniques of nanocomposite materials that make their way from the laboratory to the field for the revival of energy and environmental systems in a sustainable manner It includes the design and the sophisticated fabrication of nanomaterials along with their potential energy and environmental applications while looking at how nanoscience and nanotechnology can be used to promote environmentally friendly processes and strategies The books purpose is to promote eco friendly methods and techniques by covering many elements of both the synthesis and uses of nanoparticles and nanofluids for energy and environmental engineering They provide an up to date synthesis of nanocomposite materials for modern nanotechnology applications in the fields of environment protection heterogeneous catalysis wastewater treatment fuel cells electrochemical energy conversion and storage applications The set is designed for environmental scientists nanotechnologists chemists engineers and individuals seeking current research on nanotechnology and its applications in environmental engineering Graduate students working in these fields will also find it a valuable resource Volume 1 focuses on the fundamentals of nanotechnology environmental protection sustainable agriculture bioremediation bio nanocomposites and wastewater treatment *Energy and Environment in the Tropics* Shaharin Anwar Sulaiman,2022-11-21 The tropical zones are dominated by developing countries which mainly face problematic environmental issues Different than four season countries tropical countries have a continuous summer like season and therefore they are rich in clean energy sources like solar and biomass Hence the mitigations of environment and energy issues in the tropics would require specific understanding and different approach to solutions This book offers an assortment

of studies on scenarios of environment as well as energy demand and power generation technologies in the tropics Many of the countries within the tropics are highly populated and this results in various problems related to the environment and energy The demand for energy in these countries keeps increasing but concurrently there are also environmental issues that require serious attention As the global concern on the environment is alarming today the choice of power generation should be of the cleanest possible resource This various reports on research activities carried out in the tropics on the aspect of environment and energy presented in this book are highly beneficial for those who like to see an improvement in the tropics with regard to environment and energy systems

Handbook of Carbon Nanotubes Jiji Abraham, Sabu

Thomas, Nandakumar Kalarikkal, 2022-11-16 This Handbook covers the fundamentals of carbon nanotubes CNT their composites with different polymeric materials both natural and synthetic and their potential advanced applications Three different parts dedicated to each of these aspects are provided with chapters written by worldwide experts in the field It provides in depth information about this material serving as a reference book for a broad range of scientists industrial practitioners graduate and undergraduate students and other professionals in the fields of polymer science and engineering materials science surface science bioengineering and chemical engineering Part 1 comprises 22 chapters covering early stages of the development of CNT synthesis techniques growth mechanism the physics and chemistry of CNT various innovative characterization techniques the need of functionalization and different types of functionalization methods as well as the different properties of CNT A full chapter is devoted to theory and simulation aspects Moreover it pursues a significant amount of work on life cycle analysis of CNT and toxicity aspects Part 2 covers CNT based polymer nanocomposites in approximately 23 chapters It starts with a short introduction about polymer nanocomposites with special emphasis on CNT based polymer nanocomposites different manufacturing techniques as well as critical issues concerning CNT based polymer nanocomposites The text deeply reviews various classes of polymers like thermoset elastomer latex amorphous thermoplastic crystalline thermoplastic and polymer fibers used to prepare CNT based polymer composites It provides detailed awareness about the characterization of polymer composites The morphological rheological mechanical viscoelastic thermal electrical electromagnetic shielding properties are discussed in detail A chapter dedicated to the simulation and multiscale modelling of polymer nanocomposites is an additional attraction of this part of the Handbook Part 3 covers various potential applications of CNT in approximately 27 chapters It focuses on individual applications of CNT including mechanical applications energy conversion and storage applications fuel cells and water splitting solar cells and photovoltaics sensing applications nanofluidics nanoelectronics and microelectronic devices nano optics nanophotonics and nano optoelectronics non linear optical applications piezo electric applications agriculture applications biomedical applications thermal materials environmental remediation applications anti microbial and antibacterial properties and other miscellaneous applications and multi functional applications of CNT based polymer nanocomposites One chapter is fully focussed on carbon nanotube

research developments published papers and patents Risks associated with carbon nanotubes and competitive analysis of carbon nanotubes with other carbon allotropes are also addressed in this Handbook

Waste-Derived Carbon

Nanostructures Neetu Talreja, Divya Chauhan, Mohammad Ashfaq, 2025-01-09 This contributed volume focuses on the development of waste derived carbon nanostructures WD CNs from various waste materials such as municipal garbage plastics industrial waste and agricultural residues highlighting their potential for recycling in a circular economy It explores synthetic processes that convert waste into valuable carbon nanomaterials reducing the need for cleansing and lowering the carbon footprint compared to traditional methods The book also examines the functionalization of WD CNs for diverse applications in energy environment and biology promoting sustainable innovation and commercialization of green technologies It is a useful tool for researchers graduate students and professionals working in the fields of materials science nanotechnology environmental science and chemical engineering

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Waste Plastic To Carbon Nano Materials A New Source For Carbon Nanotechnology**

In some sort of inundated with monitors and the cacophony of instant transmission, the profound energy and psychological resonance of verbal artistry frequently disappear in to obscurity, eclipsed by the constant assault of noise and distractions. However, situated within the lyrical pages of **Waste Plastic To Carbon Nano Materials A New Source For Carbon Nanotechnology**, a charming work of fictional beauty that impulses with raw thoughts, lies an unique journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that magical opus courses viewers on a psychological odyssey, gently exposing the latent potential and profound influence embedded within the elaborate web of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is main themes, dissect their charming writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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