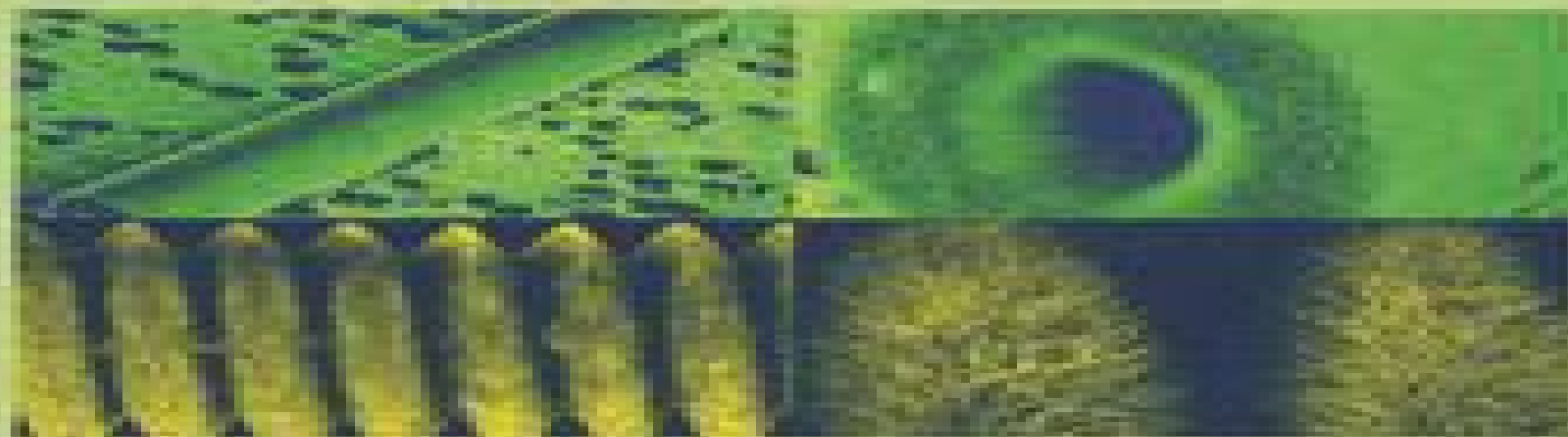


NANOTUBES AND NANOSHEETS

Functionalization and Applications of
Boron Nitride and Other Nanomaterials



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Nanotubes And Nanosheets Functionalization And Applications Of Boron Nitride And Other Nanomaterials

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Nanotubes and Nanosheets Ying (Ian) Chen, 2015-02-24 Reveals Innovative Research on BN Nanotubes and Nanosheets Nanotubes and Nanosheets Functionalization and Applications of Boron Nitride and Other Nanomaterials is the first book devoted to nanotubes and nanosheets made of boron nitride BN It shows how the properties of BN nanotubes and nanosheets have led to many exciting applications where carb **Nanotubes and Nanosheets** Ying (Ian) Chen, 2015-02-24 Reveals Innovative Research on BN Nanotubes and Nanosheets Nanotubes and Nanosheets Functionalization and Applications of Boron Nitride and Other Nanomaterials is the first book devoted to nanotubes and nanosheets made of boron nitride BN It shows how the properties of BN nanotubes and nanosheets have led to many exciting applications where carb

Inorganic Nanosheets and Nanosheet-Based Materials Teruyuki Nakato, Jun Kawamata, Shinsuke Takagi, 2017-04-18 This book focuses on inorganic nanosheets including various oxides chalcogenides and graphenes that provide two dimensional 2D media to develop materials chemistry in broad fields such as electronics photonics environmental science and biology The application area of nanosheets and nanosheet based materials covers the analytical photochemical optical biological energetic and environmental research fields All of these applications come from the low dimensionality of the nanosheets which anisotropically regulate structures of solids microspaces and fluids Understanding nanosheets from chemical structural and application aspects in relation to their fully nanoscopic characters will help materials scientists to develop novel advanced materials This is the first book that accurately and concisely summarizes this field including exfoliation and intercalation chemistries of layered crystals The book provides perspective on the materials chemistry of inorganic nanosheets The first section describes fundamental aspects of nanosheets common to diverse applications how unique structures and properties are obtained from nanosheets based on low dimensionality The second section presents state of the art descriptions of how the 2D nature of nanosheets is utilized in each application of the materials that are developed

Desalination Sustainability Hassan Arafat, 2017-06-09 Desalination Sustainability A Technical Socioeconomic and Environmental Approach presents a technical socioeconomical and environmental approach that guides researchers and technology developers on how to quantify the energy efficiency of a proposed desalination process using thermodynamics based tools The book offers the technical reader an understanding of the issues related to desalination sustainability For example technology users such as public utility managers will gain the ability and tools to assess whether or not desalination is a good choice for a city or country Readers will learn new insights on a clear and practical methodology on how to probe the economic feasibility of desalination using simple and effective tools such as levelized cost of water LCOW calculation Decision makers will find this book to be a valuable resource for the preliminary assessment of whether renewable powered desalination is a good choice for their particular setting Presents the issues related to desalination sustainability Guides researchers and technology developers on how to quantify the energy efficiency of a proposed desalination process using

thermodynamics based tools Outlines a clear and practical methodology on how to probe the economic feasibility of desalination using simple and effective tools Provides a roadmap for decision makers on the applicability of a desalination process at a particular setting *The Unique Properties of 4D Spiral Spacetime: Toryx* Vladimir Ginzburg, 2017-08-31 According to the title of this book the toryx is a four dimensional 4D spiral spacetime It means its properties are described by three space plus one time parameters Part 1 of this book presents properties of toryces in abstract mathematical terms Part 2 shows several applications of toryces for mathematical modeling of properties of entities of both micro and macro worlds This book further confirms a main proposition of the author s Universal Space Theory UST that the toryx has all attributes required to be a prime element of nature *The 4D Spiral Spacetimes Toryx & Helyx - Prime Elements of the Multiverse* Vladimir Ginzburg, 2018-05-25 This book describes abstract and applied mathematics of the unique properties of 4D spiral spacetimes called toryx and helyx There is a good reason for studying the mathematics of these two spacetimes Their unique properties provide them with a capability to be the prime elements of nature In that capacity their potential role in nature would be comparable with a role of the DNA double helyces discovered by James Watson and Francis Crick in 1953 The DNA double helyces contain genetic codes defining the properties of both organic entities and living organisms whereas both toryx and helyx contain generic codes defining the properties of matter and radiation entities of the Universe Also similar are the locations of these codes The genetic codes of DNA are located inside of cells of all organic entities and living organisms whereas the generic codes of toryces and helyces reside inside of all elementary matter and radiation particles the building blocks of the Universe *2D Boron Nanosheets* Raju Khan, Mohd. Abubakar Sadique, Shalu Yadav, Andrei Rotaru, 2024-09-17 This book presents a detailed study of different approaches to synthesis for 2D Borophene its peculiar properties and its use in different applications such as energy storage catalysis hydrogen evolution reactions supercapacitors optoelectronics sensors diagnostics bioimaging drug delivery cancer therapy and various other practical applications This book integrates and sets the evolving knowledge and approaches to utilizing Borophene as an alternative 2D nanomaterial for commercialization in real life applications The book covers emerging innovative topics of relevance to scientists academicians and innovators in the field of energy storage sensing optoelectronics nanoelectronics and biomedical applications for further research and development ***The Spacetime Origin Of the Universe With Visible Dark Matter & Energy*** Vladimir Ginzburg, 2015-02-10 The Universal Spacetime Theory UST is the main subject of this book It attempts to answer some very interesting questions related to the science and philosophy What is the origin of the Universe How was the Universe created out of nothing What are the structure and properties of ordinary matter that makes up less than 5% of the Universe What are the structure and properties of dark matter that occupies about 27% of the Universe What are the structure and properties of the dark energy that occupies roughly 68% of the Universe Is the communication possible with superluminal velocity ***Recent Advances in Fluorescent Probes for Super-Resolution Microscopy***

Chayan Kanti Nandi, Fan Wang, Xusan Yang, Qiuqiang Zhan, 2021-07-21 Anti-Corrosive Nanomaterials Renhui Zhang, Lei Guo, Ime Bassey Obot, 2023-08-15 Corrosion is a great challenge in many industries especially in the automotive aerospace and oil and gas industries with conservative estimations accounting for losses of around 2.2 trillion US dollars per year in the United States alone Providing a comprehensive overview of the history and development of nanomaterials this book discusses various practices for protection against corrosion Key Features Provides a comprehensive and updated review of major innovations in the field of nanomaterials in industrial corrosion and environmental science and engineering Encompasses design characterization mechanism and application of nanomaterials from different strategies on the efficacy and major challenges associated with successful scaleup designing Essential reference for present and future research in nanomaterials Includes relevant aspects of organic and inorganic nanomaterials hybrid nanomaterials and nanocoatings in anticorrosion applications Coalescing a wide range of research on nanomaterials and anticorrosion practices this book is of particular appeal to students industry professionals and academics **Hexagonal Boron Nitride** Kalim Deshmukh, Mayank Pandey, Chaudhery Mustansar Hussain, 2024-05-31 Hexagonal Boron Nitride Synthesis Properties and Applications offers a comprehensive approach to hexagonal boron nitride (h-BN) covering synthesis exfoliation properties characterization functionalization heterostructures nanocomposites and modelling and simulation and guiding the reader towards advanced applications in biomedicine electronics energy storage wastewater treatment and other areas The book begins by introducing hexagonal boron nitride discussing classification structure synthesis methods exfoliation and functionalization techniques This is followed by in depth coverage of properties and characterization as well as heterostructures and other two dimensional materials as well as nanocomposites The fourth section of the book examines specific target applications covering a range of cutting edge areas including micro and nano electronics anti friction and anti corrosive coatings bone tissue engineering wound healing nanomedicine drug delivery catalysis water treatment energy storage and conversion sensing and bio sensing and fire retardant applications Finally computational modelling and simulation and environmental aspects are addressed in detail This is a valuable resource for researchers and advanced students across nanotechnology materials science chemistry environmental science chemical engineering biomedicine electronics and engineering In an industrial setting this book supports scientists engineers and R D professionals with an interest in advanced 2D materials or nanomaterials for advanced applications Presents the synthesis properties functionalization and characterization methods for hexagonal boron nitride Explores novel applications across biomedicine electronics energy storage and water treatment Addresses key challenges such as biocompatibility toxicity and environmental and health impact **Smart Nanomaterials for Environmental Applications** Olusola Olaitan Ayeleru, Azeez Olayiwola Idris, Sadanand Pandey, Peter Apata Olubambi, 2024-08-26 Smart nanomaterials are making their presence ever so noticeable in areas like environmental protection and remediation as well as in many other fields of study The international team of expert researchers behind

Smart Nanomaterials for Environmental Applications aims to spotlight the latest rapid developments in the design and manipulation of materials at the nanoscale and to concisely present information regarding their novel methods of utilization for the safeguard of the environment while at the same time apprising readers of challenges encountered and anticipated prospects. The volume illustrates state of the art actionable content which is relevant and extremely valuable for those who want to apply this up to date knowledge in industry too. Offers fundamentals of smart nanomaterials including characterization design and fabrication methods. Includes advanced information on fine tuning different morphologies of smart nanomaterials. Features three case studies on real life applications of smart nanomaterials. **2D Materials:**

Chemistry and Applications (Part 2) Vinay Deep Punetha, 2024-10-28. 2D Materials Chemistry and Applications Part 2 addresses the cutting edge advancements in the synthesis functionalization and applications of two dimensional materials focusing on graphene and other emerging materials like boron nitride germanene silicene and stanene. This volume explores the potential of these materials in energy storage nanoelectronics waste management and more while addressing challenges like toxicity and cost effective production. The book highlights innovative approaches to graphene based supercapacitors nanoparticle functionalized graphene and the application of 2D materials in diverse fields. It also provides insights into the toxicity and remediation strategies of graphene family materials and outlines the roadmap for sustainable graphene production. This book is ideal for researchers academics and professionals in materials science nanotechnology chemistry and environmental engineering. **Key Features:** Advanced applications of graphene based supercapacitors. Functionalization and applications of boron nitride germanene silicene and stanene. Insights into graphene toxicity and remediation approaches. Roadmap for cost effective graphene production and waste management. **Readership:** Graduate and undergraduate students professionals.

Polymer Nanocomposites Rajesh Kumar Verma, Shivi Kesarwani, Jinyang Xu, J. Paulo Davim, 2023-09-11. Polymer Nanocomposites Fabrication to Applications offers readers an up to date interpretation of various polymeric nanocomposite materials and technologies via critical reviews. It covers developments and advancements in various nanomaterials polymeric materials biopolymers and processes. It initiates from nanomaterial synthesis fabrication and characterization to the manufacturing aspect and feasible product applications of polymer based nanocomposites. The prime focus is on polymer matrix nanocomposites and their future trends in the engineering sector. **Features:** Explores synthesis characterization properties fabrication processing and applications of polymer nanocomposite materials. Elaborates on polymer manufacturing phase challenges using various control methods and statistical tools and modules. Includes machining and micro machining investigation on the polymer nanocomposites. Discusses modeling simulation and optimization of process parameters during the machining processes and applications of additive manufacturing. Comprehends the significance of nanomaterials functionalizing synthetic fibrous and biocompatible composites. This book is aimed at researchers and graduate students in mechanical engineering materials science polymers composites and nanomaterials.

Two-Dimensional Nanomaterials for Biosensing and Imaging Applications Ram Sevak Singh, Kalim Deshmukh, Chaudhery Mustansar Hussain, 2026-07-08 The book is essential for anyone eager to understand the transformative potential of 2D nanomaterials in biotechnology and medical science offering in depth insights into their unique properties synthesis methods and practical applications in an ever evolving field Nanotechnology is pivotal in advancing biotechnology and medical science Nanomaterials essential components of this technology showcase unique and superior physicochemical properties when compared to their bulk equivalents Since the groundbreaking discovery of graphene in 2004 two dimensional 2D nanomaterials have garnered immense attention for their potential in a wide range of applications across multiple industries including biochemistry biophysics and engineering Two Dimensional Nanomaterials for Biosensing and Imaging Applications examines the current state and new challenges associated with the development of 2D nanomaterials for biosensing and imaging applications This volume focuses on the synthesis processing methods characterization properties and applications of 2D nanomaterials their nanocomposites or heterostructures for biosensors and imaging devices and the essential criteria in each specified field Comparative performance evaluations of various biosensor devices and their advantages and disadvantages for the commercialization of 2D materials based biosensors are comprehensively covered giving essential insight into the challenges this technology presents A handpicked selection of topics and expert contributors from across the globe will make this book an outstanding resource for students and industry professionals looking to explore the potential of these ground breaking materials Readers will find the book Provides a comprehensive overview of the synthesis processing compositions structure device design and various properties of two dimensional nanomaterials for biosensing and imaging applications Comprehensively covers 2D materials and their processing techniques properties and enhancement for biosensing and imaging applications Explores the coverage of biocompatibility toxicity concerns environmental and safety considerations and legal and commercialization aspects of 2D nanomaterials for biosensing and imaging applications Audience Graduate postgraduate and engineering students research scholars and faculty working in materials science biotechnology biomedical engineering biochemistry and biophysics as well as material engineers scientists and technologists in the electronic electrical and biomedical industries

Boron Nitride Nanotubes in Nanomedicine Gianni Ciofani, Virgilio MATTOLI, 2016-04-26 Boron Nitride Nanotubes in Nanomedicine compiles for the first time in a single volume all the information needed by researchers interested in this promising type of smart nanoparticles and their applications in biomedicine Boron nitride nanotubes BNNTs represent an innovative and extremely intriguing class of nanomaterials After introducing BNNTs and explaining their preparation and evaluation the book shows how the physical chemical piezoelectric and biocompatibility properties of these nanotubes give rise to their potential uses in biomedicine Evidence is offered from both in vitro and in vivo investigations for how BNNTs can be useful in biomedical and nanomedicine applications such as therapeutic applications tissue regeneration nanovectors for drug delivery and intracellular nanotransducers Covers a range

of promising biomedical BNNT applications Provides great value not just to academics but also industry researchers in fields such as materials science molecular biology pharmacology biomedical engineering and biophysical sciences Offers evidence for how BNNTs can be useful in biomedical and nanomedicine applications such as therapy tissue regeneration nanovectors for drug delivery and intracellular nanotransducers Incorporates for the first time in a single volume all the information needed by researchers interested in this promising type of smart nanoparticles and their applications in biomedicine

Isotopes in Nanoparticles Jordi Llop, Vanessa Gomez-Vallejo, 2016-03-30 Nanoparticles may be used in industrial processes incorporated into consumer products or applied as biomedical agents Isotopic radio labeling is one of the most powerful methods for nanoparticle tracing in experimental studies This book presents an introduction to some commonly used nanomaterials describes various methods with which they may **Smart Tools for Caring: Nanotechnology Meets Medical Challenges** Giada Genchi, Gianni Ciofani, 2019-04-03 Two-Dimensional Nanomaterials Based Polymer Nanocomposites Mayank Pandey, Kalim Deshmukh, Chaudhery Mustansar Hussain, 2024-05-21 Two Dimensional Nanomaterials Based Polymer Nanocomposites This book presents an extensive discussion on fundamental chemistry classifications structure unique properties and applications of various 2D nanomaterials The advent of graphene in 2004 has brought tremendous attention to two dimensional 2D nanomaterials Lately this has prompted researchers to explore new 2D nanomaterials for cutting edge research in diverse fields Polymer nanocomposites PNCs represent a fascinating group of novel materials that exhibit intriguing properties The unique combination of polymer and nanomaterial not only overcomes the limitations of polymer matrices but also changes their structural morphological and physicochemical properties thereby broadening their application potential The book comprising 22 chapters provides a unique and detailed study of the process involved in the synthesis of 2D nanomaterials modification strategies of 2D nanomaterials and numerous applications of 2D nanomaterials based polymer nanocomposites The book also emphasizes the existing challenges in the functionalization and exfoliation of 2D nanomaterials as well as the chemical structural electrical thermal mechanical and biological properties of 2D nanomaterials based polymer nanocomposites The key features of this book are Provides fundamental information and a clear understanding of synthesis processing methods structure and physicochemical properties of 2D materials based polymer nanocomposites Presents a comprehensive review of several recent accomplishments and key scientific and technological challenges in developing 2D materials based polymer nanocomposites Explores various processing and fabrication methods and emerging applications of 2D materials based polymer nanocomposites Audience Engineers and polymer scientists in the electrical coatings and biomedical industries will find this book very useful Advanced students in materials science and polymer science will find it a fount of information **Handbook of Material Engineering in Nanobiomedicine and Diagnostics** Uday Pratap Azad, Pranjal Chandra, 2025-03-10 The book is about the application of nanotechnology in the field of medicine with a focus on diagnosis and therapy The first few chapters introduce the basics of

material engineering and nanobiomedicine followed by chapters on different types of engineered nanomaterials and their surface modification strategies for biomedicine. The book then covers the application of nanobiomedicines and nanodiagnostics in clinical settings and how functionalized nanomaterials can be used in microfluidic biosensors and diagnosis devices. The latter half of the book discusses various nanobiomaterials used in cancer diagnosis and therapy as well as regenerative medicine, infectious diseases, and bioimaging. The book concludes with a chapter on the commercial aspects of nanobiomedicines.

Nanotubes And Nanosheets Functionalization And Applications Of Boron Nitride And Other Nanomaterials Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Nanotubes And Nanosheets Functionalization And Applications Of Boron Nitride And Other Nanomaterials**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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