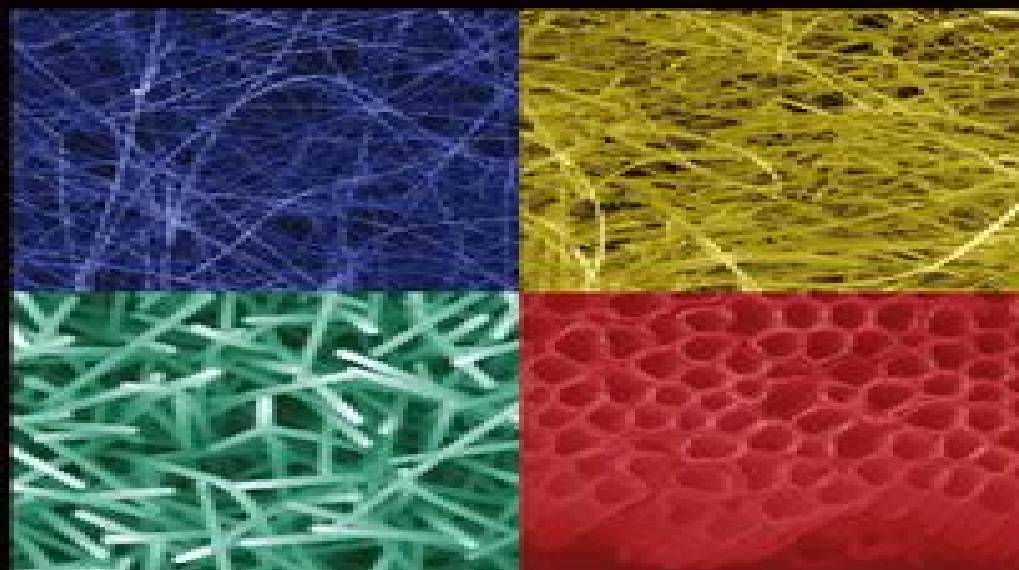


One-Dimensional Nanostructures

Principles and Applications

*Edited by
Tianyou Zhai and Jiannian Yao*



One Dimensional Nanostructures Principles And Applications

**Sabu Thomas, El Hadji Mamour
Sakho, Nandakumar
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Oluwafemi, Jihuai Wu**

One Dimensional Nanostructures Principles And Applications:

One-Dimensional Nanostructures Tianyou Zhai, Jiannian Yao, 2012-10-19 Reviews the latest research breakthroughs and applications Since the discovery of carbon nanotubes in 1991 one dimensional nanostructures have been at the forefront of nanotechnology research promising to provide the building blocks for a new generation of nanoscale electronic and optoelectronic devices With contributions from 68 leading international experts this book reviews both the underlying principles as well as the latest discoveries and applications in the field presenting the state of the technology Readers will find expert coverage of all major classes of one dimensional nanostructures including carbon nanotubes semiconductor nanowires organic molecule nanostructures polymer nanofibers peptide nanostructures and supramolecular nanostructures Moreover the book offers unique insights into the future of one dimensional nanostructures with expert forecasts of new research breakthroughs and applications One Dimensional Nanostructures collects and analyzes a wealth of key research findings and applications with detailed coverage of Synthesis Properties Energy applications Photonics and optoelectronics applications Sensing plasmonics electronics and biosciences applications Practical case studies demonstrate how the latest applications work Tables throughout the book summarize key information and diagrams enable readers to grasp complex concepts and designs References at the end of each chapter serve as a gateway to the literature in the field With its clear explanations of the underlying principles of one dimensional nanostructures this book is ideal for students researchers and academics in chemistry physics materials science and engineering Moreover One Dimensional Nanostructures will help readers advance their own investigations in order to develop the next generation of applications **One-Dimensional**

Metals Siegmund Roth, David Carroll, 2015-07-23 Low dimensional solids are of fundamental interest in materials science due to their anisotropic properties Written not only for experts in the field this book explains the important concepts behind their physics and surveys the most interesting one dimensional systems and discusses their present and emerging applications in molecular scale electronics Chemists polymer and materials scientists as well as students will find this book a very readable introduction to the solid state physics of electronic materials In this completely revised and expanded third edition the authors also cover graphene as one of the most important research topics in the field of low dimensional materials for electronic applications In addition the topics of nanotubes and nanoribbons are widely enlarged to reflect the research advances of the last years Biomedical Applications and Toxicity of Nanomaterials P. V. Mohanan, Sudha

Kappalli, 2023-05-08 This book covers the recent trends on the biological applications of nanomaterials methods for their preparation and techniques for their characterization Further the book examines the fundamentals of nanotoxicity methods to assess the toxicity of engineered nanomaterials approaches to reduce toxicity during synthesis It also provides an overview of the state of the art in the application of Artificial intelligence based methodologies for evaluation of toxicity of drugs and nanoparticles The book further discusses nanocarrier design routes of various nanoparticle administration nano based drug

delivery systems and the toxicity challenges associated with each drug delivery method It presents the latest advances in the interaction of nanoparticles with the cellular environment and assess nanotoxicity of these engineered nanoparticles The book also explores the comparative and mechanistic genotoxicity assessment of the nanomaterials This book is useful source of information for industrial practitioners policy makers and other professionals in the fields of toxicology medicine pharmacology food and drugs

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

One-Dimensional nanostructures Zhenyu Li,Ce Wang,2013-03-21 One Dimensional Nanostructures Electrospinning Technique and Unique Nanofibers is a comprehensive book depicting the electrospinning technique and related 1D unique electrospun nanofibers The first part of the book focuses on electrospinning technique with chapters describing Electrospinning setup electrospinning theories and related working parameter The second part of the book describes in detail specific topics on how to control the electrospun fiber properties such as how to control the fiber direction how to control the fiber surface morphology how to control the fiber structure and how to construct 3D structures by electrospun fibers The final part of the book depicts the applications of the electrospun nanofibers with sections describing in detail specific fields such as electrospun nanofiber reinforcement filtration electronic devices lithium ion batteries fuel cells biomedical field and so on One Dimensional Nanostructures Electrospinning Technique and Unique Nanofibers is designed to bring state of the art on electrospinning together into a single book and will be valuable resource for scientists in the electrospinning field and other scientists involved in biomedical field mechanical field materials and energy field Dr Zhenyu Li is an associate professor at the Dept of Chemistry Jilin University Changchun P R China Currently he also holds the position in Australian Future Fibres Research Innovation Centre Institute for Frontier Materials Deakin University Geelong Victoria Australia Dr Ce Wang is a professor at the Dept of Chemistry Jilin University Changchun P R China

One-Dimensional Nanostructures Zhiming M Wang,2008-07-20 One dimensional 1D nanostructures including nanowires nanotubes and quantum wires have been regarded as the most promising building blocks for nanoscale electronic and optoelectronic devices Worldwide efforts in both the theory and the experimental investigation of growth characterization and applications of 1D nanostructures have resulted in a mature multidisciplinary field In this book a wealth

of state of the art information offers the opportunity to uncover the underlying science from diverse perspectives Leading researchers elucidate the synthesis and properties of 1D nanostructures for various morphologies and compositions semiconductor metal carbon etc as well as their considerable impact on spintronics information storage and the design of field effect transistors

Carbon-Based Nanomaterials Archana (Joshi) Bachheti, Rakesh Kumar Bachheti, Azamal Husen, 2024-04-30 Carbon nanomaterials have several applications which is driving up scientific research into them The book showcases the most recent advancements and research discoveries rather than just providing an overview Each chapter offers authoritative insights into the ever changing field of carbon based nanomaterials as written by top authorities in their respective domains The book stands out for its persistent focus on real world application It is devoted to practical applications and is divided into four sections The intriguing promise of carbon nanomaterials their synthesis and their possible uses set the stage for the adventure Subsequently the emphasis shifts to agriculture where nanomaterials have been shown to improve plant health fend against illnesses promote growth and development and even help detect and remove herbicides The biomedical part explores the potential toxicological ramifications of these materials while introducing the reader to their ground breaking role in drug delivery tissue engineering and the fight against fungal diseases Overall the book provides valuable insights and serves as a comprehensive resource for researchers and scientists across various interdisciplinary subjects

Mineralogy Ali Al-Juboury, 2020-05-27 Mineralogy Significance and Applications includes new contributions to the field of mineralogy in terms of mineral chemistry and petrogenesis using updated facilities from regions in Asia and Europe to interpret petrologic significance It discusses the industrial uses of some minerals as raw materials and in electrical firms and gemology The book also introduces several works on synthesis of some compounds and applications of mineralogy in biomedicine including iron oxide nanoparticles and nanocomposites and their biomedical applications as diagnostic and drug delivery tools for treatment of cancer and many other diseases

One-Dimensional Polymeric Nanocomposites Ram K. Gupta, Tuan Anh Nguyen, 2023-02-14 One dimensional nanomaterials are emerging as promising materials for their many unique characteristics This book covers their synthesis and applications in batteries supercapacitors fuel cells solar cells green energy production flexible electronics electrochemical sensors and biomedicine Progress in nanotechnology offers an opportunity to synthesize materials with unique properties The properties of nanomaterials can be further improved by growing them in one dimension structural with variations in their architecture One dimensional polymeric nanocomposites offer various advantages such as nano dimensions high surface area structural stability and the ability to tune their electrochemical electronic and optical properties The book covers basic concepts chemistries properties and the importance of one dimensional nanomaterials along with their wide applications and state of the art progress in the energy flexible electronics sensor and biomedical fields The fundamentals of electrochemical behavior and their understanding for various applications are also discussed in detail This book will provide new direction to scientists

researchers and students to better understand the chemistry technologies and applications of one dimensional polymeric nanocomposites

Nanowire Electronics Guozhen Shen, Yu-Lun Chueh, 2018-11-23 This book gives a comprehensive overview of recent advances in developing nanowires for building various kinds of electronic devices Specifically the applications of nanowires in detectors sensors circuits energy storage and conversion etc are reviewed in detail by the experts in this field Growth methods of different kinds of nanowires are also covered when discussing the electronic applications Through discussing these cutting edge researches the future directions of nanowire electronics are identified

Atomic Force Microscopy Based Nanorobotics Hui Xie, Cagdas Onal, Stéphane Régnier, Metin Sitti, 2011-09-25 The atomic force microscope AFM has been successfully used to perform nanorobotic manipulation operations on nanoscale entities such as particles nanotubes nanowires nanocrystals and DNA since 1990s There have been many progress on modeling imaging teleoperated or automated control human machine interfacing instrumentation and applications of AFM based nanorobotic manipulation systems in literature This book aims to include all of such state of the art progress in an organized structured and detailed manner as a reference book and also potentially a textbook in nanorobotics and any other nanoscale dynamics systems and controls related research and education Clearly written and well organized this text introduces designs and prototypes of the nanorobotic systems in detail with innovative principles of three dimensional manipulation force microscopy and parallel imaging manipulation force microscopy

Anisotropic Metal Chalcogenide Nanomaterials Geon Dae Moon, 2018-12-14 This book explores the recent advances in designing and synthesizing one and two dimensional metal chalcogenide nanostructures along with their practical applications helping readers understand what has happened and what is currently happening in the field of nanotechnology It also includes a comprehensive table showing 1D and 2D nanostructured metal chalcogenides which presents the recent developments from a synthetic point of view Further it describes the wide applicability of anisotropic metal chalcogenides such as in electronics energy storage and conversion and sensors Lastly it discusses the current understanding of the thermodynamic and kinetic aspects associated with the forming mechanisms of anisotropic metal chalcogenide nanostructures This book is a valuable reference resource for practitioners and researchers enabling them to obtain a quick overview of anisotropic metal chalcogenide nanomaterials through synthetic approaches and related applications Presenting representative applications of anisotropic metal chalcogenide nanomaterials that are important in the industrial sector it is also of interest to academics and industry specialists

Nanostructured Materials Zesheng Li, Changlin Yu, 2023-08-31 Nanostructured Materials Physicochemical Chemistry Fundamentals for Energy and Environmental Applications summarizes research knowledge and helps advanced students researchers and industrial technicians understand specific applications of nanomaterials in energy and the environment Sections bring a strong foundational focus on the physicochemical basis of nanomaterials for these applications the basic theory and physicochemical basis of nanomaterials an energy and environment applications examination of typical

cases and progress This book will appeal to researchers in the chemical sciences inorganic and physical chemistry coordination chemistry molecular dynamics electrochemistry photocatalysis thermocatalysis thermodynamics etc nanoscience graphene carbon nanotubes nanocrystals nano catalysis energy and environment nano science and more Efficient use of energy eco friendly environmental systems and technologies play an important role in global sustainable development Multifunctional nanocomposites have excellent properties and can meet the practical needs of energy development and environmental treatment They have been gradually applied in chemical materials energy preparation pollution control and other fields and have achieved impressive development Provides a unified overview of a large variety of different applications on the design and synthesis of nanomaterials with potential applications in various conventional and new energy and environmental technologies Provides a strong foundational focus on the analysis of the structure of nanomaterials the basic principles of design nanomaterial structure activity relationship and the theoretical basis of physical chemistry theoretical basis of nanomaterial design and applications Meets a need to summarize and examine ongoing research and advances in a rapidly developing field

New Developments in Crystal Growth Research George V. Karas, 2005 New Developments In Crystal Growth

Transparent Conductive Materials David Levy, Erick Castellón, 2019-04-29 Edited by well known pioneers in the field this handbook and ready reference provides a comprehensive overview of transparent conductive materials with a strong application focus Following an introduction to the materials and recent developments subsequent chapters discuss the synthesis and characterization as well as the deposition techniques that are commonly used for energy harvesting and light emitting applications Finally the book concludes with a look at future technological advances All encompassing and up to date this interdisciplinary text runs the gamut from chemistry and materials science to engineering from academia to industry and from fundamental challenges to readily available applications

Nanomaterials for Solar Cell Applications Sabu Thomas, El Hadji Mamour Sakho, Nandakumar Kalarikkal, Oluwatobi Samuel Oluwafemi, Jihuai Wu, 2019-06-12 Nanomaterials for Solar Cell Applications provides a review of recent developments in the field of nanomaterials based solar cells It begins with a discussion of the fundamentals of nanomaterials for solar cells including a discussion of lifecycle assessments and characterization techniques Next it reviews various types of solar cells i e Thin film Metal oxide Nanowire Nanorod and Nanoporous materials and more Other topics covered include a review of quantum dot sensitized and perovskite and polymer nanocomposites based solar cells This book is an ideal resource for those working in this evolving field of nanomaterials and renewable energy Provides a well organized approach to the use of nanomaterials for solar cell applications Discusses the synthesis characterization and applications of traditional and new material Includes coverage of emerging nanomaterials such as graphene graphene derivatives and perovskites

Capillary Electrophoresis Suvardhan Kanchi, Salvador Sagrado, Myalo I. Sabela, Krishna Bisetty, 2017-08-21 Capillary electrophoresis CE has become an established method with widespread recognition as an analytical technique of

choice in numerous analytical laboratories including industrial and academic sectors Pharmaceutical and biochemical research and quality control are the most important CE applications This book provides a comparative assessment of related techniques on mode selection method development detection and quantitative analysis and estimation of pharmacokinetic parameters and broadens the understanding of modern CE applications developments and prospects It introduces the fundamentals of CE and clearly outlines the procedures used to mitigate several barriers such as detection limits signal detection changing capillary environment resolution separation of analytes and hyphenation of mass spectrometry with CE for a range of analytical problems Each chapter outlines a specific electrophoretic variant with detailed instructions and some standard operating procedures In this respect the book meets its desired goal of rendering assistance to lovers of electrophoresis

Materials for Potential EMI Shielding Applications Kuruvilla Joseph, Runcy Wilson, George Gejo, 2019-11-01 Materials for Potential EMI Shielding Applications Processing Properties and Current Trends extensively and comprehensively reviews materials for EMI shielding applications ranging from the principles to possible applications and various types of shielding materials The book provides a thorough introduction to electromagnetic interference its effect on both the environment and other electronic items various materials that are used for electromagnetic interference shielding applications and its properties It explains the mechanism behind EMI shielding the methods by which EMI SE of a given material is estimated and the different fabrication methods currently employed for fabricating EMI shielding materials Final sections focus on the theoretical background of EMI shielding and shielding mechanisms This theoretical background is extended to the physics of EMI shielding wherein the physics behind mechanism of shielding is explained Focuses on the different types of available EMI shielding their applications processing characterization and the mechanism behind their shielding Discusses how to incorporate EMI shielding with low cost low density and high strength Provides an understanding and clarifies both elementary and practical problems relating to EMI shielding materials

Optochemical Nanosensors Andrea Cusano, Francisco J. Arregui, Michele Giordano, Antonello Cutolo, 2016-04-19 This book provides an overview of the state of the art in optical and chemical nanosensors for industrial environmental diagnostic security and medical applications It summarizes the various types and developments in optical and chemical sensor technology and then explains how the integration of optical chemical sensors and nanomaterials creates new opportunities The text also reviews optochemical sensors starting from the basics in optoelectronics and concluding with the principles of operation at the basis of optochemical devices The authors offer insight into future trends in this growing field and present a range of applications in the fields of medicine security and bioterrorism

Environmental Nanotechnology Volume 3 Nandita Dasgupta, Shivendu Ranjan, Eric Lichtfouse, 2019-11-18 This third volume on environmental nanotechnology includes chapters dealing with topics such nanoremediation waste water purification nanosensors nanomedicine and nanofiltration It also highlights the safety aspects and risk assessment and management related to several toxins as well as nanotechnology

related solutions for these challenges The book also discusses new nanomaterials from the nexus of environment water remediation and total environment

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Table of Contents One Dimensional Nanostructures Principles And Applications

1. Understanding the eBook One Dimensional Nanostructures Principles And Applications
 - The Rise of Digital Reading One Dimensional Nanostructures Principles And Applications
 - Advantages of eBooks Over Traditional Books
2. Identifying One Dimensional Nanostructures Principles And Applications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an One Dimensional Nanostructures Principles And Applications
 - User-Friendly Interface
4. Exploring eBook Recommendations from One Dimensional Nanostructures Principles And Applications
 - Personalized Recommendations

- One Dimensional Nanostructures Principles And Applications User Reviews and Ratings
- One Dimensional Nanostructures Principles And Applications and Bestseller Lists
- 5. Accessing One Dimensional Nanostructures Principles And Applications Free and Paid eBooks
 - One Dimensional Nanostructures Principles And Applications Public Domain eBooks
 - One Dimensional Nanostructures Principles And Applications eBook Subscription Services
 - One Dimensional Nanostructures Principles And Applications Budget-Friendly Options
- 6. Navigating One Dimensional Nanostructures Principles And Applications eBook Formats
 - ePub, PDF, MOBI, and More
 - One Dimensional Nanostructures Principles And Applications Compatibility with Devices
 - One Dimensional Nanostructures Principles And Applications Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of One Dimensional Nanostructures Principles And Applications
 - Highlighting and Note-Taking One Dimensional Nanostructures Principles And Applications
 - Interactive Elements One Dimensional Nanostructures Principles And Applications
- 8. Staying Engaged with One Dimensional Nanostructures Principles And Applications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers One Dimensional Nanostructures Principles And Applications
- 9. Balancing eBooks and Physical Books One Dimensional Nanostructures Principles And Applications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection One Dimensional Nanostructures Principles And Applications
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine One Dimensional Nanostructures Principles And Applications
 - Setting Reading Goals One Dimensional Nanostructures Principles And Applications
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of One Dimensional Nanostructures Principles And Applications
 - Fact-Checking eBook Content of One Dimensional Nanostructures Principles And Applications

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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