



Nanoengineered Nanofibrous Materials

Edited by

Selcuk Guceri, Yury G. Gogotsi and
Vladimir Kuznetsov

NATO Science Series

Nanoengineered Nanofibrous Materials

**Selcuk Guceri, Yury G. Gogotsi, Vladimir
Kuznetsov**

Nanoengineered Nanofibrous Materials:

Nanoengineered Nanofibrous Materials Selcuk Guceri, Yury G. Gogotsi, Vladimir Kuznetsov, 2005-09-15 The combination of conductive polymer technology with the ability to produce nanofibres will facilitate major new developments in biotechnology and information technology benefiting such areas as scaffolds for tissue engineering and drug delivery systems wires capacitors transistors and diodes sensor technology biohazard protection and energy transport conversion and storage The work on nanofibrous materials presented here is designed first of all to instruct scientists in the most advanced methods for the formation of nanofibres and nanotubes The second section covers the physics and chemistry of nanofibres while the third deals with computer simulation and modelling The applications described in section 4 include biomedical applications nanotube based devices electronic applications of nanotubes and nanofibres nanofluidics and composites Finally the fifth section discusses recent developments in nanomaterials nanoparticles and nanostructures Nanoengineered Nanofibrous Materials Selcuk Guceri, Yury G. Gogotsi, Vladimir Kuznetsov, 2007-11-12 The combination of conductive polymer technology with the ability to produce nanofibres will facilitate major new developments in biotechnology and information technology benefiting such areas as scaffolds for tissue engineering and drug delivery systems wires capacitors transistors and diodes sensor technology biohazard protection and energy transport conversion and storage The work on nanofibrous materials presented here is designed first of all to instruct scientists in the most advanced methods for the formation of nanofibres and nanotubes The second section covers the physics and chemistry of nanofibres while the third deals with computer simulation and modelling The applications described in section 4 include biomedical applications nanotube based devices electronic applications of nanotubes and nanofibres nanofluidics and composites Finally the fifth section discusses recent developments in nanomaterials nanoparticles and nanostructures *Introduction to Nanofiber Materials* Frank K. Ko, Yuqin Wan, 2014-07-31 Presenting the latest coverage of the fundamentals and applications of nanofibrous materials and their structures for graduate students and researchers this book bridges the communication gap between fiber technologists and materials scientists and engineers Featuring intensive coverage of electroactive bioactive and structural nanofibers it provides a comprehensive collection of processing conditions for electrospinning and includes recent advances in nanoparticle nanotube based nanofibers The book also covers mechanical properties of fibers and fibrous assemblies as well as characterization methods *Nanoengineered Biomaterials for Regenerative Medicine* Masoud Mozafari, Jayakumar Rajadas, David L. Kaplan, 2018-09-17 Nanoengineered Biomaterials for Regenerative Medicine showcases the advances that have taken place in recent years as an increasing number of nanoengineered biomaterials have been targeted to various organ tissues The book systematically explores how nanoengineered biomaterials are used in different aspects of regenerative medicine including bone regeneration brain tissue reconstruction and kidney repair It is a valuable reference resource for scientists working in biomaterials science who want to learn more about how nanoengineered materials are

practically applied in regenerative medicine Nanoengineered biomaterials have gained particular focus due to their many advantages over conventional techniques for tissue repair As a wide range of biomaterials and nanotechnology techniques have been examined for the regeneration of tissues this book highlights the discussions and advancements made Provides a digestible reference source for surgeons and physicians who want to learn more on nanoengineered biomaterials and their use in effective medical treatments Offers systematic coverage on how nanoengineered biomaterials are used for different types of medicine Assesses the benefits and drawbacks of the use of bioengineered nanomaterials in different areas of regenerative medicine

Stem-Cell Nanoengineering H. Baharvand,2015-03-30 Stem Cell Nanoengineering reviews the applications of nanotechnology in the fields of stem cells tissue engineering and regenerative medicine Topics addressed include various types of stem cells underlying principles of nanobiotechnology the making of nano scaffolds nano tissue engineering applications of nanotechnology in stem cell tracking and molecular imaging nano devices as well as stem cell nano engineering from bench to bedside Written by renowned experts in their respective fields chapters describe and explore a wide variety of topics in stem cell nanoengineering making the book a valuable resource for both researchers and clinicians in biomedical and bioengineering fields

Smart Nanoparticles Technology Abbass A. Hashim,2012-04-18 In the last few years Nanoparticles and their applications dramatically diverted science in the direction of brand new philosophy The properties of many conventional materials changed when formed from nanoparticles Nanoparticles have a greater surface area per weight than larger particles which causes them to be more reactive and effective than other molecules In this book we InTech publisher editor and authors have invested a lot of effort to include 25 most advanced technology chapters The book is organised into three well heeled parts We would like to invite all Nanotechnology scientists to read and share the knowledge and contents of this book

Food Applications of Nanotechnology ,2019-05-29 Food Applications of Nanotechnology Volume 88 consolidates the literature on recent developments in nanotechnology addressing production safety and nutritional aspects pertaining to foods and nutraceuticals Chapters in this new release include Assembled protein nanoparticles in food and nutrition applications Nano scale carbohydrate Materials in food nutrition agricultural applications Nanotechnology based colloidal delivery systems in foods Electrospinning and Electrospaying in food Bioavailability of nanotechnology based bioactives and nutraceuticals and more Contains contributions from experts in the areas of food nano science and technology Provides extensive citation of references to cover up to date and background literature Covers past present and future aspects of food nano science and technology

Advances in Technical Nonwovens George Kellie,2016-05-17 Advances in Technical Nonwovens presents the latest information on the nonwovens industry a dynamic and fast growing industry with recent technological innovations that are leading to the development of novel end use applications The book reviews key developments in technical nonwoven manufacturing specialist materials and applications with Part One covering important developments in materials and manufacturing technologies including chapters devoted to

fibers for technical nonwovens the use of green recycled and biopolymer materials and the application of nanofibres The testing of nonwoven properties and the specialist area of composite nonwovens are also reviewed with Part Two offering a detailed and wide ranging overview of the many applications of technical nonwovens that includes chapters on automotive textiles filtration energy applications geo and agrotextiles construction furnishing packaging and medical and hygiene products Provides systematic coverage of trends developments and new technology in the field of technical nonwovens Focuses on the needs of the nonwovens industry with a clear emphasis on applied technology Contains contributions from an international team of authors edited by an expert in the field Offers a detailed and wide ranging overview of the many applications of technical nonwovens that includes chapters on automotive textiles filtration energy applications geo and agrotextiles and more

Comprehensive Nanoscience and Technology, 2010-10-29 From the Introduction Nanotechnology and its underpinning sciences are progressing with unprecedented rapidity With technical advances in a variety of nanoscale fabrication and manipulation technologies the whole topical area is maturing into a vibrant field that is generating new scientific research and a burgeoning range of commercial applications with an annual market already at the trillion dollar threshold The means of fabricating and controlling matter on the nanoscale afford striking and unprecedented opportunities to exploit a variety of exotic phenomena such as quantum nanophotonic and nanoelectromechanical effects Moreover researchers are elucidating new perspectives on the electronic and optical properties of matter because of the way that nanoscale materials bridge the disparate theories describing molecules and bulk matter Surface phenomena also gain a greatly increased significance even the well known link between chemical reactivity and surface to volume ratio becomes a major determinant of physical properties when it operates over nanoscale dimensions Against this background this comprehensive work is designed to address the need for a dynamic authoritative and readily accessible source of information capturing the full breadth of the subject Its six volumes covering a broad spectrum of disciplines including material sciences chemistry physics and life sciences have been written and edited by an outstanding team of international experts Addressing an extensive cross disciplinary audience each chapter aims to cover key developments in a scholarly readable and critical style providing an indispensable first point of entry to the literature for scientists and technologists from interdisciplinary fields The work focuses on the major classes of nanomaterials in terms of their synthesis structure and applications reviewing nanomaterials and their respective technologies in well structured and comprehensive articles with extensive cross references It has been a constant surprise and delight to have found amongst the rapidly escalating number who work in nanoscience and technology so many highly esteemed authors willing to contribute Sharing our anticipation of a major addition to the literature they have also captured the excitement of the field itself in each carefully crafted chapter Along with our painstaking and meticulous volume editors full credit for the success of this enterprise must go to these individuals together with our thanks for largely adhering to the given deadlines Lastly we record our sincere thanks and appreciation for

the skills and professionalism of the numerous Elsevier staff who have been involved in this project notably Fiona Geraghty Megan Palmer and Greg Harris and especially Donna De Weerd Wilson who has steered it through from its inception We have greatly enjoyed working with them all as we have with each other *Magnetic Materials* Khan Maaz,2016-08-24 This book reports on the recent progresses in theory application and characterization of magnetic materials It covers a broad spectrum of topics on magnetic materials with different shapes and morphologies such as transition metals cylindrical and 2D ferromagnetic nanowires core shell nanowires monoatomic layered nanostructures and nanocrystals This book addresses diverse groups of readers with general background in physics and material science and also covers topics for the specialists in the field of magnetism It is believed that this book will be interesting for the readers and will provide a solid foundation about the topic for the students scientists and engineers working in the field of material science and condensed matter physics **Fibrous Filter Media** Philip Brown,Christopher L Cox,2017-06-16 Fibrous Filter Media comprehensively covers the types manufacture applications performance and modeling of fibrous filter media Part I introduces the principles of gas and liquid filtration while Part II presents an overview of the types of fibrous filters including details of fiber types fabric construction and applications Part III covers a variety of filtration applications in which fibrous assemblies are used with examples ranging from filtration for improving air quality to medical filters to industrial waste water filtration Finally Part III covers the properties and performance of fibrous filters including chapters on filter performance and simulation With its expert editors and international team of contributors this important book provides information on fibrous filters relevant to fiber and textile scientists and is also ideal for academics and industry professionals working in the field of filtration Dr Philip Brown is Sweetenburg Professor of polymer and textile engineering at Clemson University USA Dr Christopher Cox is Professor of mathematical sciences at Clemson University USA Systematic and comprehensive coverage of the trends and new technologies being developed in the field of fibrous filter media Focused on the needs of the textiles and filtration industries with a clear emphasis on applied technology Contains contributions from an international team of authors edited by an expert in the field *Structural Health Monitoring 2015* Fu-Kuo Chang ,Fotis Kopsaftopoulos,2015-10-01 Proceedings of the Tenth International Workshop on Structural Health Monitoring September 1 3 2015 Selected research on the entire spectrum of structural health techniques and areas of application Available in print complete online text download or individual articles Series book comprising two volumes provides selected international research on the entire spectrum of structural health monitoring techniques used to diagnose and safeguard aircraft vehicles buildings civil infrastructure ships and railroads as well as their components such as joints bondlines coatings and more Includes special sections on system design signal processing multifunctional materials sensor distribution embedded sensors for monitoring composites reliability and applicability in extreme environments The extensive contents can be viewed below [Functional Nanostructures](#) Sudipta Seal,2010-06-02 Nanocrystalline materials exhibit the outstanding properties and represent a new

class of structural materials having a wide range of applications In particular there is considerable interest in developing nanocrystalline materials to be used as functional materials in aerospace applications automotive industry wear applications MEMS etc The future progress in these high technological applications of nanocrystalline materials crucially depends on development of new methods of their fabrication and understanding of the underlying nano scale and interface effects causing their unique mechanical properties

Developments in Palygorskite-Sepiolite Research ,2011-07-20 The aim of this comprehensive book is to present the most important results achieved in the research of the clay minerals palygorskite and sepiolite Palygorskite and sepiolite have found to be useful in a huge variety of industrial and medical applications As a result research on these clays has been intensified during the last two decades and important advances in their characterization have been made The book contains contributions from distinguished scientists in the field

Comprehensive treatment of palygorskite and sepiolite Cutting edge developments in industrial minerals and applications

Written by distinguished scientists in the field **Multiphase Polymer Systems** Andreea Irina Barzic,Silvia Ioan,2016-09-19 Phase morphology in multicomponent polymer based systems represents the main physical characteristic that allows for control of the material design and implicitly the development of new plastics Emphasizing properties of these promising new materials in both solution and solid phase this book describes the preparation processing properties and practical implications of advanced multiphase systems from macro to nanoscales It covers a wide range of systems including copolymers polymer blends polymer composites gels interpenetrating polymers and layered polymer metal structures describing aspects of polymer science engineering and technology The book analyzes experimental and theoretical aspects regarding the thermal and electrical transport phenomena and magnetic properties of crucial importance in advanced technologies It reviews the most recent advances concerning morphological rheological interfacial physical fire resistant thermophysical and biomedical properties of multiphase polymer systems Concomitantly the book deals with basic investigation techniques that are sensitive in elucidating the features of each phase It also discusses the latest research trends that offer new solutions for advanced bio and nanotechnologies Introduces an overview of recent studies in the area of multiphase polymer systems their micro and nanostructural evolutions in advanced technologies and provides future outlooks new challenges and opportunities Discusses multicomponent structures that offer enhanced physical mechanical thermal electrical magnetic and optical properties adapted to current requirements of modern technologies Covers a wide range of materials such as composites blends alloys gels and interpenetrating polymer networks Presents new strategies for controlling the micro and nanomorphology and the mechanical properties of multiphase polymeric materials Describes different applications of multiphase polymeric materials in various fields including automotive aeronautics and space industry displays and medicine **Biomimetic Nanoengineered Materials for Advanced Drug Delivery** Afeesh Rajan

Unnithan,Arathyram Ramachandra Kurup Sasikala,Chan Hee Park,Cheol Sang Kim,2019-11-05 Biomimetic Nanoengineered

Materials for Advanced Drug Delivery is an indispensable guide for new developments in biomimetic nanoengineering for advanced drug delivery applications Focusing on the fundamentals of a new type of nanocarriers for drug delivery in the most recent miRNA therapeutics the book provides readers with detailed knowledge from the basics to the most recent innovations Early chapters of the book discuss a range of drug delivery techniques including nanofibers biomimetic polymers 3D bioprinting nanotechnology and radiofrequency sensitive nanocarriers Later chapters explore miRNA therapeutics magnetic nanoparticles nanogel based and ROS mediated drug delivery systems The book is a vital reference for biomaterials and nanomedicine researchers and clinicians with an interest in advanced drug delivery Analyzes nanoparticle plasma protein interactions making it one of the first books on this topic Includes the latest trends in nanotherapeutic drug delivery Presents comprehensive chapters that cover a specific drug delivery carrier and its mode of operation stimuli and the target site of action Provides an essential tool for researchers in nanomedicine and nanobiomaterials *Engineering of*

High-Performance Textiles Menghe Miao, John H Xin, 2017-09-07 *Engineering of High Performance Textiles* discusses the fiber to fabric engineering of various textile products Each chapter focuses on practical guidelines and approaches for common issues in textile research and development The book discusses high performance fibers and yarns before presenting the engineering fabrics and architectures needed for particular properties required of high performance textiles Properties covered include moisture absorption pilling resistant knitwear fire retardant fabrics camouflage fabrics insect repellent fabrics filtration and many more Coordinated by two highly distinguished editors this book is a practical resource for all those engaged in textile research development and production for both traditional and new generation textile products and for academics involved in research into textile science and technology Offers a range of perspectives on high performance textiles from an international team of authors with diverse expertise in academic research textile development and manufacture Provides systematic and comprehensive coverage of the topic from fabric construction through product development to the range of current and potential applications that exploit high performance textile technology Led by two high profile editors with many years experience in engineering high performance textiles **Smart Textiles** Nazire Deniz Yilmaz, 2018-11-14

Smart Textiles Wearable Nanotechnology provides a comprehensive presentation of recent advancements in the area of smart nanotextiles giving specific importance to materials and production processes Different materials production routes performance characteristics application areas and functionalization mechanisms are covered The book provides a guideline to students researchers academicians and technologists who seek novel solutions in the related area by including groundbreaking advancements in different aspects of the diverse smart nanotextiles fields This ground breaking book is expected to spark an inspiration to allow future progress in smart nanotextiles research The diversity of the topics as well as the expert subject matter contributors from all over the world representing various disciplines ensure comprehensiveness and a broad understanding of smart nanotextiles *Functionalized Nanoscale Materials, Devices and*

Systems Ashok K. Vaseashta, Ion N. Mihailescu, 2008-10-23 The primary objective of the NATO Advanced Study Institute ASI titled Functionalized Nanoscale Materials Devices and Systems for Chem Bio Sensors Photonics and Energy Generation and Storage was to present a contemporary and comprehensive overview of the field of nanostructured materials and devices and its applications in chem bio sensors nanophotonics and energy generation and storage devices The study has become one of the most promising disciplines in science and technology as it aims at the fundamental understanding of new physical chemical and biological properties of systems and the technological advances arising from their exploration Such systems are intermediate in size between the isolated atoms and molecules and bulk material where the unique transitional characteristics between the two can be understood controlled and manipulated Nanotechnologies refer to the creation and utilization of functional materials devices and systems with novel properties and functions that are achieved through the control of matter atom by atom molecule by molecule or at a molecular level Advances made over the last few years provide new opportunities for scientific and technological developments in nanostructures and nanosystems with new architectures with improved functionality The field is very actively and rapidly evolving and covers a wide range of disciplines Recently various nanoscale materials devices and systems with remarkable properties have been developed with numerous unique applications in chemical and biological sensors nanophotonics nano biotechnology and in vivo analysis of cellular processes at the nanoscale

Advanced Textiles for Wound Care S. Rajendran, 2018-09-20 *Advanced Textiles for Wound Care* Second Edition provides a detailed review of how textiles are incorporated into wound care applications also explaining the importance and suitability of using textiles on different wound types It is an interdisciplinary book which directly links textile technology with advances in wound care The book discusses new developments and techniques related to antimicrobial dressings the use of biopolymers in infection control management advanced dressings for managing cavity and cancerous wounds and the application of nanofibers and novel textile structures in scaffolds among other new areas This updated edition also reflects recent changes in regulatory affairs The book is essential reading for manufacturers designers scientists and producers of wound care materials It is a valuable resource for professionals within the medical sector as well as those in academia enabling materials scientists and engineers in both academia and at medical device companies to stay abreast of new technology Provides a comprehensive introduction to wound care from the different types of wound and wound healing mechanisms to the importance of testing in relation to wound care Analyzes the application of textiles to wound healing covering minor wounds burns ulcers and other deep skin wounds Reviews the current use of smart textiles for wound care including drug delivery dressings and textile based scaffolds for tissue engineering

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Nanoengineered Nanofibrous Materials Introduction

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