



# Nanoengineered Nanofibrous Materials

*Edited by*

Selcuk Guceri, Yury G. Gogotsi and  
Vladimir Kuznetsov

NATO Science Series

# Nanoengineered Nanofibrous Materials Nanoengineered Nanofibrous Materials

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

## **Nanoengineered Nanofibrous Materials 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 **Nanoengineering Materials for Biomedical Uses** Emilio I.

Alarcon, Manuel Ahumada, 2019-11-02 This book fills the gap between fundamental and applied research in the use of nanomaterials in biomedical applications covering the most relevant areas such as the fundamental concepts of the preparation of nanostructures and regulatory requirements for their safe use in biomedical devices It also critically discusses what has been achieved in the field and what needs to be urgently addressed and reviews the state of the art medical uses of nanomaterials for treating damaged organs and tissues Combining the expertise of clinical researchers working in the field of

tissue engineering and novel materials the book explores the main topics regarding the characterization of materials specific organ oriented biomaterials and their applications as well as regulations and safety Further it also examines recent advances difficulties and clinical requirements in terms of human bone cornea heart skin and the nervous system allowing readers to gain a clear and comprehensive understanding of current nanomaterial use in biomedical applications and devices together with the challenges and future trends This book is a valuable tool for multidisciplinary scientists and experts interested in fundamental concepts and synthetic routes for preparing nanomaterials It is also of interest to students and researchers involved in cross disciplinary research in nanomaterials for clinical applications and offers practical insights for clinicians as well as engineers and materials scientists working in nanoengineering

### **Nano- and Biocomposites**

Alan Kin-tak Lau, Farzana Hussain, Khalid Lafdi, 2009-08-20 Advances in nanotechnology are leading to the creation of composites with a myriad of medical applications This forward thinking book melds research in biocomposites with advances in nanocomposite technology to provide an interdisciplinary resource on advanced materials for the biomedical industry It brings together pioneering researchers who describe their contributions to the field Among other areas they cover nanostructured polymer composites and nano bio composites They look at developments in tissue engineering safer resins for tooth and bone repair and improved artificial joints They also discuss potential opportunities for continued research in this well funded field

### Nanoengineering of Structural, Functional and Smart Materials

Mark J. Schulz, Ajit D. Kelkar, Mannur J. Sundaresan, 2005-08-29 In chapters contributed by 24 university government laboratories Nanoengineering of Structural Functional and Smart Materials combines wide ranging research aimed at the development of multifunctional materials that are strong lightweight and versatile This book explores promising and diverse approaches to the design of nanoscale

*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

**Analysis and Performance of Engineering Materials** Gennady E. Zaikov, 2015-08-28 This new book facilitates the study of problematic chemicals in such applications as chemical fate modeling chemical process design and experimental design It provides a valuable overview of current chemical processes products and practices and analyzes theories to formulate and prove physicochemical principles It addresses the production and

**Electrospinning for Advanced Biomedical Applications and Therapies** Nuno M Neves, 2012-08-30 The main focus of this book is on the development of electrospun membranes for advanced biomedical technologies including tissue engineering and drug delivery devices Serving as a reference book for the beginner this book also provides an in depth analysis of the challenges to be overcome in the future Each section of the book covers not only the developments in the various fields of application of the electrospun meshes but also the advances required for the successful development of new and high end biomedical applications Important areas tackled include Biomedical applications of the technology Specific aspects of equipments and materials Surface characterization and functionalization In vitro testing with electrospun meshes In all of these areas the main achievements challenges ahead and expert opinions are given making this book highly unusual in the level of detail covered

**Carbon Nanotubes: From Basic Research to Nanotechnology** Valentin N. Popov, Philippe Lambin, 2006-04-04 The book comprises reviews on various topics of carbon nanotube research from specialists in the field together with reports on on going research Both are intended to give a detailed picture of the remarkable properties of these one dimensional nanostructures Particular attention is paid to the synthesis characterization properties and application of nanotubes The book will be an indispensable introduction for the newcomers in the field as well as a valuable update for researchers in the field for it contains the most recent developments

**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 **Nanofiber Research**

Mohammed Rahman,Abdullah Mohammed Asiri,2016-10-19 This book titled Nanofiber Research Reaching New Heights contains a number of latest research results on growth and developments on material fibers in nanoscale It is a promising novel research area that has received a lot of interest in recent years This book includes interesting reports on cutting edge science and technology related to synthesis morphology control self assembly and prospective application of nanofibers I hope that the book will lead to systematization of nanofiber science creation of new nanofiber research field and further promotion of nanofiber technology This potentially unique work offers various approaches on the implementation of nanofibers As it is widely known nanotechnology presents the control of matter at the nanoscale and nano dimensions within few nanometers whereas this exclusive phenomenon enables us to regulate and control novel applications with nanofibers This book presents an overview of recent and current nanofibers fundamental significant applications and implementation research worldwide It examined the methods of nanofiber synthesis types of fibers used and potential applications associated with nanofiber researches It is an important booklet for research organizations governmental research centers academic libraries and R *Synthetic Biology* Anton Glieder,Christian P. Kubicek,Diethard Mattanovich,Birgit Wiltschi,Michael

Sauer,2015-11-03 This book provides a comprehensive up to date overview of the opportunities and challenges of the complex field of synthetic biology which combines various scientific disciplines The emerging field of synthetic biology employs biotechnological approaches to recreate and enhance basic biological structures intracellular processes and whole organisms The book addresses a broad range of topics including redesigning complex metabolic pathways DNA RNA and protein engineering as well as novel synthetic biomaterials It discusses both bottom up and top down approaches and presents the latest genome engineering tools with predictions about how these could change our way of thinking and working Since the use of synthetic biology raises a number of ethical questions a chapter is devoted to public awareness and risk management The book is of interest to scientists from both academia and industry as well as PhD students and postdocs working in the field *Polymer Membranes in Biotechnology* Seeram Ramakrishna,Zuwei Ma,Takeshi Matsuura,2011

Following an introduction to the general concept of membrane separation in Chapter 1 preparation of polymeric membranes is discussed in Chapter 2 The book then describes in Chapter 3 membrane surface activation which is a key step in ligand immobilizations Chapter 4 focuses on ligand immobilization techniques and the organic chemistries behind them Chapter 5 introduces the application of affinity membrane chromatography Finally in Chapter 6 membranes used in biosensors and gas sensors enzymatic membranes used as biosensor and membrane biosensor for waste water treatment will be discussed

Fluid-Structure Interactions in Low-Reynolds-Number Flows Camille Duprat,Howard A Stone,2015-11-11 Fluid structure interactions have been well studied over the years but most of the focus has been on high Reynolds number flows inertially

dominated flows where the drag force from the fluid typically varies as the square of the local fluid speed. There are though a large number of fluid structure interaction problems at low values of the Reynolds number where the fluid effects are dominated by viscosity and the drag force from the fluid typically varies linearly with the local fluid speed which are applicable to many current research areas including hydrodynamics, microfluidics and hemodynamics. Edited by experts in complex fluids, *Fluid Structure Interactions in Low Reynolds Number Flows* is the first book to bring together topics on this subject including elasticity of beams, flow in tubes, mechanical instabilities induced by complex liquids, drying blood flow, theoretical models for low Reynolds number locomotion and capsules in flow. The book includes introductory chapters highlighting important background ideas about low Reynolds number flows and elasticity to make the subject matter more approachable to those new to the area across engineering, physics, chemistry and biology.

### **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.

### Complex

Mediums, 2005. **Nano-Engineered Cementitious Composites** Baoguo Han, Siqi Ding, Jialiang Wang, Jinping

Ou, 2019-04-10. This book focuses on civil engineering materials and nanotechnology. Highlighting recent advances in the field of nano engineered cementitious composites, it discusses their key principles, design and fabrication, testing and characterization, performance and mechanisms as well as applications. Future developments and remaining challenges are also outlined. Nano engineered cementitious composites are exceptionally strong, durable and offer multifunctional smart performance that differs considerably from that of normal cementitious composites. Providing valuable insights into these composites' future development, the book offers an essential source of information, inspiration, theory and practical guidance for developing sustainable cementitious composites. As such, it will benefit researchers, scientists and engineers in the fields of civil engineering materials and nanotechnology alike.

### Micro and Nanoengineering of the Cell Microenvironment Ali

Khademhosseini, 2008. Supported with 140 illustrations, the volume exhaustively covers the micro and nano system technologies involved in developing cell based bioengineering applications. You get full details on efforts to engineer the soluble and insoluble cell microenvironments including the latest advances in microfluidic devices, surface patterning, 3D scaffolds and techniques for engineering cellular mechanical properties and topography.

### **Nanoengineering of**

**Biomaterials** Sougata Jana, Subrata Jana, 2022-04-18. In *Nanoengineering of Biomaterials: Drug Delivery*, Biomedical Applications untersucht ein Expertenteam von Chemikern in prägnanter Form die Synthese, Charakterisierung und

Freisetzung von Wirkstoffmolekülen in vitro und in vivo die pharmakokinetische Aktivität und pharmakodynamische Aktivität und die biomedizinischen Anwendungen verschiedener Arten von nanotechnologisch hergestellten Biomaterialien. Zudem werden die neuesten Entwicklungen in diesem Bereich anhand von aktuellen Materialien präsentiert. Dieses Werk ist eine Sammlung von wertvollen und leicht zugänglichen Referenzquellen für Forscher in der Materialchemie und verwandten Forschungsgebieten. Unter Verwendung eines funktionsorientierten Ansatzes werden organische und anorganische Ausgangsverbindungen zur Herstellung biologischer Systeme genutzt, die als Gerüste Mizellen, Dendrimere und andere Verabreichungssysteme dienen. Nanoengineering of Biomaterials vermittelt aktuelle Erkenntnisse aus der Chemie und der Materialwissenschaft, die sich leicht auf biomedizinische Systeme übertragen lassen. Darüber hinaus bietet das Werk eine gründliche Einführung in die Verabreichung von Therapeutika durch Alginat-Nanopartikel und Nanomaterialien auf Chitosan-Basis in biologischen Anwendungen. Eine umfassende Betrachtung von nanostrukturiertem Carrageen als Wirkstoffträger, Gellangummi-Nanopartikeln bei der Wirkstoffverabreichung und Guar gummi Nanopartikeln bei der Verabreichung bioaktiver Moleküle. Eine praktische Erörterung von proteinbasierten Nanopartikeln bei der Wirkstoffverabreichung, festen Lipid-Nanopartikeln als Wirkstoffträger und auf den pH-Wert reagierenden Nanopartikeln in der Therapie. Eine grundlegende Untersuchung von auf bestimmte Stimuli reagierenden Nanoträgern bei der gezielten Wirkstoffverabreichung. Nanoengineering of Biomaterials: Drug Delivery and Biomedical Applications ist nicht nur perfekt für Fachleute in der pharmazeutischen Chemie, Materialwissenschaft, Polymerchemie, den Biowissenschaften und der Medizinalchemie geeignet, sondern ist auch eine unverzichtbare Quelle für Biologen und Bioingenieure auf der Suche nach einem umfassenden Nachschlagewerk, das sich mit der Übertragbarkeit der Materialchemie und Nanotechnologie auf die Biomedizin beschäftigt.



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