

AN INTRODUCTION TO ELECTROSPINNING AND NANOFIBERS

**Seeram Ramakrishna
Kazutoshi Fujihara
Wee-Eong Teo
Teik-Cheng Lim
Zuwei Ma**

 **World Scientific**



An Introduction To Electrospinning And Nanofibers

Seeram Ramakrishna



An Introduction To Electrospinning And Nanofibers:

An Introduction to Electrospinning and Nanofibers Seeram Ramakrishna, 2005 The research and development of nanofibers has gained much prominence in recent years due to the heightened awareness of its potential applications in the medical engineering and defense fields Among the most successful methods for producing nanofibers is the electrospinning process In this timely book the areas of electrospinning and nanofibers are covered for the first time in a single volume The book can be broadly divided into two parts the first comprises descriptions of the electrospinning process and modeling to obtain nanofibers while the second describes the characteristics and applications of nanofibers The material is aimed at both newcomers and experienced researchers in the area *Introduction to Electrospinning and Nanofiber* Hesheng Yu, Zhongchao Tan, 2025-01-11 The target audience of this is senior undergraduate and graduate students researchers and engineering practitioners who are about to enter or entering the fields of nanofiber nanofiber materials electrospinning and the like This book is expected to prepare the readers rather than providing the details of any specifics This type of book is necessary because many researchers in training need basics to jump start the projects related to the research topics above They also need to understand the potential applications to be direct their research However this type of book is missing regardless of many handbooks or books focused on a specific field The first half of the book introduces the basics of electrospinning and nanofiber technologies leading the readers into the field step by step It is expected to set a solid foundation for researchers in training e g graduate students before the jump into the particular research project e g PhD thesis project The contents are ordered such way that junior researchers normally follow This book can also be used as a general reference book for those who are interested in the subjects Each chapter is written as independent as possible with references listed at the end of the chapter Readers who can dig deep into the field after reading the chapters and the references listed [An Introduction to Electrospinning and Nanofibers](#), 2005 **Electrospun Porous Nanofibers** Maria Mathew, Rony Rajan Paul, Ann Rose Abraham, A. K. Haghi, 2025-04-23 This book introduces readers to electrospinning a nanofabrication technique used to produce nanofibers and discusses the properties and applications of these nanofibers The book begins with an overview of the electrospinning process and strategies for producing nanofibers with different morphologies The advantages and limitations of the nanofiber technology and future outlook are addressed next Then recent and novel applications of electrospun nanofibers in different areas including biomedical environmental textile and energy are discussed followed by a more detailed review of the fabrication and properties of electrospun nanofiber membranes and composites **Electrospun Nanofibers** Mehdi Afshari, 2025-08-01 Electrospun Nanofibers Second Edition covers advances in the electrospinning process including the characterization testing and modeling of electrospun nanofibers and electrospinning for particular fiber types and applications This new edition includes sections on biomedical tissue engineering and drug applications of electrospun nanofibers offering systematic and comprehensive coverage for academic

researchers industry professionals and postgraduate students working in the field of fiber science Electrospinning is the most commercially successful process for the production of nanofibers and rising demand is driving research and development in this field Electrospinning is becoming more efficient and more specialized in order to produce particular fiber types such as bicomponent and composite fibers patterned and 3D nanofibers carbon nanofibers and nanotubes and nanofibers derived from chitosan Provides systematic and comprehensive coverage on the manufacturing properties and applications of nanofibers Covers recent developments in nanofibers materials including electrospinning of bicomponent chitosan carbon and conductive fibers Brings together expertise from academia and industry to provide comprehensive up to date information on nanofiber research and development Offers systematic and comprehensive coverage for academic researchers industry professionals and postgraduate students working in the field of fiber science

Electrospun Nanofibers

Santosh Kumar Tiwari,Kashma Sharma,Vishal Sharma,Vijay Kumar,2021-09-14 The book provides an up to date account of the various techniques of fabrication functionalization of electrospun nanofibers as well as recent advancements An overview of the advanced applications of such techniques in different areas is also presented Both experimental and theoretical approaches related to electrospun nanofibers are covered along with a discussion on the inherent properties of electrospun nanofibers Therefore this book provides a unique resource not only to established researchers but also newcomers starting out in this field

Advanced Structural and Functional Materials for Protection, 2008 William Lau,Shang Huai Min,Lee Nam Sua,Ma Jan,Alfred Ling Yoong Tok,2008-02-27 Volume is indexed by Thomson Reuters CPCI S WoS This very special volume on Advanced Structural and Functional Materials for Protection focuses on the choice of materials intended for the specific task of protecting civilians and soldiers against the effects of blast fragmentation weapons and unconventional attacks and also covers multi functional materials intended for the enhancement of soldier performance Protective materials represent one of the greatest challenges to synthesis and processing due to the extreme requirements of the application

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World Textile Conference - Unfolding the Future Fernando B.N. Ferreira,Ana Maria Rocha,Andrea Zille,António Dinis Marques,Raul Fangueiro,2022-09-12 Selected peer reviewed extended articles based on abstracts presented at the 20th

AUTEX World Textile Conference Unfolding the Future AUTEX 2021 Aggregated Book

Electrospinning of Nanofibers

A. K. Haghi,2011 This new book presents some fascinating phenomena associated with the remarkable features of nanofibers in electrospinning processes and new progress in applications of electrospun nanofibers This book offers an overview of structureproperty relationships synthesis and purification and potential applications of electrospun nanofibers The collection of topics in this book reflects the diversity of recent advances in electrospun nanofibers with a broad perspective

Electrospun Nanofibers from Bioresources for High-Performance Applications Praveen K.M.,Rony Thomas

Murickan,Jobin Joy,Hanna J. Maria,Jozef T. Haponiuk,Sabu Thomas,2022-10-03 Nanofibers are possible solutions for a wide spectrum of research and commercial applications and utilizing inexpensive bio renewable and agro waste materials to

produce nanofibers can lower manufacturing cost via electrospinning This book explains synthesis of green biodegradable and environmentally friendly nanofibers from bioresources their mechanical and morphological characteristics along with their applications across varied areas It gives an elaborate idea on conductive polymers for tissue engineering application as well Features Provides insight about electrospun nanofibers from green biodegradable and environmentally friendly bio resources Reviews surface characterization of electrospun fibers Covers diversified applications such as cancer treatment COVID 19 solutions food packaging applications textile materials and flexible electronic devices Describes the combined use of 3D printing and electrospinning for tissue engineering scaffolds Includes Melt electrospinning technique and its advantages over Solution electrospinning This book aims at Researchers and Graduate Students in Material Science and Engineering Environmental Engineering Chemical Engineering Electrical Engineering Mechanical Engineering and Biomedical Engineering

Nanofibers and Nanotechnology in Textiles P. Brown,K Stevens,2007-10-17 Nanotechnology is revolutionising the world of materials This important book reviews its impact in developing a new generation of textile fibers with enhanced functionality and a wide range of applications The first part of the book reviews nanofiber production discussing how different fiber types can be produced using electrospinning techniques Part two analyses the production and properties of carbon nanotubes and polymer nanocomposites and their applications in such areas as aerospace engineering The third part of the book considers ways of using nanotechnology to improve polymer properties such as thermal stability and dyeability The final part of the book reviews the use of nanotechnology to modify textile surfaces including the use of coatings and films in order to improve hydrophobic filtration and other properties Nanofibers and nanotechnology in textiles is a valuable reference in assessing and using a new generation of textile fibers in applications as diverse as tissue and aerospace engineering Nanotechnology is revolutionising the world of materials Learn about a new generation of textile fibers that have a wide range of applications Examines how to improve polymer properties

Frontiers of Nanofiber Fabrication and Applications Hong Yan Liu,Ji Huan He,2013-11-21 Special topic volume with invited peer reviewed papers only

International Conference on Solid State Lighting ,2007

Electrochemistry Craig Banks,2023-07-12 Providing the reader with an up to date digest of the most important current research carried out in the field this volume is compiled and written by leading experts from across the globe It reviews the trends in electrochemical sensing and its applications and touches on research areas from a diverse range including microbial fuel cells 3D printing electrodes for energy conversion and electrochemical and electrochromic colour switching in metal complexes and polymers Coverage is extensive and will appeal to a broad readership from chemists and biochemists to engineers and materials scientists The reviews of established and current interests in the field make this book a key reference for researchers in this exciting and developing area

Electrospinning: Nanofabrication and Applications Bin Ding,Xianfeng Wang,Jianyong Yu,2018-11-12 Electrospinning Nanofabrication and Applications presents an overview of the electrospinning technique nanofabrication

strategies and potential applications The book begins with an introduction to the fundamentals of electrospinning discussing fundamental principles of the electrospinning process controlling parameters materials and structures Nanofabrication strategies including coaxial electrospinning multi needle electrospinning needleless electrospinning electro netting near field electrospinning and three dimensional macrostructure assembling are also covered Final sections explore the applications of electrospun nanofibers in different fields and future prospects This is a valuable reference for engineers and materials scientist working with fibrous materials and textiles as well as researchers in the areas of nanotechnology electrospinning nanofibers and textiles Explores controllable fabrication of electrospun nanomaterials and their multifunctional applications Explains the electrospinning technique as used in nanofabrication and nanofibers Outlines the applications of electrospun nanofibrous materials in tissue engineering filtration oil water separation water treatment food technology supercapacitors sensors and so on

Product Design and Manufacturing Xiao Dong Zhang,Zhi Jiu Ai,Prasad Yarlagadda,Yun Hae Kim,2011-09-02 Selected peer reviewed papers from the 2011 International Conference on Materials and Products Manufacturing Technology ICMPMT 2011 28 30 October 2011 Chengdu China

Orientation and Morphology Development in Electrospun Nanofibers David Yuh-Shyang Lin,2005 Advanced Materials and Processes IV Zheng Yi Jiang,Jian Zhong Lin,Jing Wei Zhao,Tian Hong Yan,Xin Sheng Xu,2014-09-19 Selected peer reviewed papers from the 4th International Conference on Advanced Design and Manufacturing Engineering ADME 2014 July 26 27 2014 Hangzhou China

Functional Bio-based Materials for Regenerative Medicine From Bench to Bedside (Part 2) Mohd Fauzi Mh Busra, Daniel Law Jia Xian, Yogeswaran Lokanathan, Ruszymah Haji Idrus,2024-02-02 Functional Bio based Materials for Regenerative Medicine From Bench to Bedside explores the use of bio based materials for the regeneration of tissues and organs The book presents an edited collection of 28 topics in 2 parts focused on the translation of these materials from laboratory research the bench to practical applications in clinical settings the bedside Chapter authors highlight the significance of bio based materials such as hydrogels scaffolds and nanoparticles in promoting tissue regeneration and wound healing Topics in the book include the properties of bio based materials including biocompatibility biodegradability and the ability to mimic the native extracellular matrix fabrication techniques and approaches for functional bio based material design with desired characteristics like mechanical strength and porosity to promote cellular attachment proliferation and differentiation the incorporation of bioactive molecules such as growth factors into bio based materials to enhance their regenerative potential strategies for the controlled release of molecules to create a favorable microenvironment for tissue regeneration the challenges and considerations involved in scaling up the production of bio based materials ensuring their safety and efficacy and obtaining regulatory approval for clinical use Part 2 covers advanced materials and techniques used in tissue engineering Topics focus on advanced composite materials for 3D scaffolds and the repair of tissues in different organs such as the heart cornea bone and ligaments Materials highlighted in this part include

polyamide composites electrospun nanofibers and different bio based hydrogels Functional Bio based Materials for Regenerative Medicine From Bench to Bedside is a valuable reference for researchers in biomedical engineering cell biology and regenerative medicine who want to update their knowledge on current developments in the synthesis and application of functional biomaterials *Nano Engineering and Materials Technologies II* Kazuo Umemura, 2018-03-15 6th ICNNN 2017 and ICMTA 2017 Selected peer reviewed papers from the 6th International Conference on Nanostructures Nanomaterials and Nanoengineering 2017 ICNNN 2017 and 2017 the 2nd International Conference on Materials Technology and Applications ICMTA2017 October 26 29 2017 Tokyo Japan

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