

NanoScience and Technology

Quan Li *Editor*

Anisotropic Nanomaterials

Preparation, Properties, and
Applications

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Anisotropic Nanomaterials Quan Li, 2015 In this book anisotropic one dimensional and two dimensional nanoscale building blocks and their assembly into fascinating and qualitatively new functional structures embracing both hard and soft components are explained Contributions from leading experts regarding important aspects like synthesis assembly properties and applications of the above materials are compiled into a reference book The anisotropy i e the direction dependent physical properties of materials is fascinating and elegant and has sparked the quest for anisotropic materials with useful properties With such a curiosity material scientists have ventured into the realm of nanometer length scale and have explored the anisotropic nanoscale building blocks such as metallic and nonmetallic particles as well as organic molecular aggregates It turns out that the anisotropic nanoscale building blocks in addition to direction dependent properties exhibit dimension and morphology dependence of physical properties Moreover ordered arrays of anisotropic nanoscale building blocks furnish novel properties into the resulting system which would be entirely different from the properties of individual ones Undoubtedly these promising properties have qualified them as enabling building blocks of 21st century materials science nanoscience and nanotechnology Readers will find this book professionally valuable and intellectually stimulating in the rapidly emerging area of anisotropic nanomaterials Quan Li Ph D is Director of the Organic Synthesis and Advanced Materials Laboratory at the Liquid Crystal Institute of Kent State University where he is also Adjunct Professor in the Chemical Physics Interdisciplinary Program He has directed research projects funded by US Air Force Research Laboratory AFRL US Air Force Office of Scientific Research AFSOR US Army Research Office ARO US Department of Defense Multidisciplinary University Research Initiative DoD MURI US National Science Foundation NSF US Department of Energy DOE US National Aeronautics and Space Administration NASA Ohio Third Frontier and Samsung Electronics among others

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science nanoscience and nanotechnology Readers will find this book professionally valuable and intellectually stimulating in the rapidly emerging area of anisotropic nanomaterials Quan Li Ph D is Director of the Organic Synthesis and Advanced Materials Laboratory at the Liquid Crystal Institute of Kent State University where he is also Adjunct Professor in the Chemical Physics Interdisciplinary Program He has directed research projects funded by US Air Force Research Laboratory AFRL US Air Force Office of Scientific Research AFSOR US Army Research Office ARO US Department of Defense Multidisciplinary University Research Initiative DoD MURI US National Science Foundation NSF US Department of Energy DOE US National Aeronautics and Space Administration NASA Ohio Third Frontier and Samsung Electronics among others

Integrated Nanoelectronics Vinod Kumar Khanna, 2016-09-16 Keeping nanoelectronics in focus this book looks at interrelated fields namely nanomagnetism nanophotonics nanomechanics and nanobiotechnology that go hand in hand or are likely to be utilized in future in various ways for backing up or strengthening nanoelectronics Complementary nanosciences refer to the alternative nanosciences that can be combined with nanoelectronics The book brings students and researchers from multiple disciplines and therefore with disparate levels of knowledge and more importantly lacunae in this knowledge together and to expose them to the essentials of integrative nanosciences The central idea is that the five identified disciplines overlap significantly and arguably cohere into one fundamental nanotechnology discipline The book caters to interdisciplinary readership in contrast to many of the existing nanotechnology related books that relate to a specific discipline The book lays special emphasis on nanoelectronics since this field has advanced most rapidly amongst all the nanotechnology disciplines and with significant commercial pervasion In view of the significant impact that nanotechnology is predicted to have on society the topics and their interrelationship in this book are of considerable interest and immense value to students professional engineers and reserachers

Functional Organic and Hybrid Nanostructured Materials Quan Li, 2018-01-26 The first book to explore the potential of tunable functionalities in organic and hybrid nanostructured materials in a unified manner The highly experienced editor and a team of leading experts review the promising and enabling aspects of this exciting materials class covering the design synthesis and or fabrication properties and applications The broad topical scope includes organic polymers liquid crystals gels stimuli responsive surfaces hybrid membranes metallic semiconducting and carbon nanomaterials thermoelectric materials metal organic frameworks luminescent and photochromic materials and chiral and self healing materials For materials scientists nanotechnologists as well as organic inorganic solid state and polymer chemists

Nanomaterials for Sustainable Energy Quan Li, 2016-05-12 This book presents the unique mechanical electrical and optical properties of nanomaterials which play an important role in the recent advances of energy related applications Different nanomaterials have been employed in energy saving generation harvest conversion storage and transport processes very effectively and efficiently Recent progress in the preparation characterization and usage of 1D 2D nanomaterials and hybrid architectures for energy related applications and relevant

technologies and devices such as solar cells thermoelectronics piezoelectronics solar water splitting hydrogen production storage fuel cells batteries and supercapacitors is covered Moreover the book also highlights novel approaches in nanomaterials design and synthesis and evaluating materials sustainability issues Contributions from active and leading experts regarding important aspects like the synthesis assembly and properties of nanomaterials for energy related applications are compiled into a reference book As evident from the diverse topics the book will be very valuable to researchers working in the intersection of physics chemistry biology materials science and engineering It may set the standard and stimulates future developments in this rapidly emerging fertile frontier of nanomaterials for energy

Photoactive Functional Soft Materials Quan Li, 2019-04-29 This book covers the design synthesis properties and applications of functional photoactive soft materials including aspects of polymers block copolymers elastomers biomaterials liquid crystals chemical and physical gels colloids and host guest systems It combines in a unified manner authoritative accounts describing various structural and functional aspects of photoactive soft materials Photoactive Functional Soft Materials Preparation Properties and Applications Brings together the state of the art knowledge on photoactive functional soft materials in a unified manner Covers a vibrant research field with tremendous application potential in areas such as optoelectronics photonics and energy generation Appeals to a large interdisciplinary audience because it is highly useful for researchers and engineers working on photonics optoelectronics imaging and sensing nanotechnology and energy materials Photoactive Functional Soft Materials Preparation Properties and Applications focuses on the design and fabrication of photoactive functional soft materials for materials science nanophotonics nanotechnology and biomedical applications

Mixed Metal Nanomaterials , 2009-05-26 The book series Nanomaterials for the Life Sciences provides an in depth overview of all nanomaterial types and their uses in the life sciences Each volume is dedicated to a specific material class and covers fundamentals synthesis and characterization strategies structure property relationships and biomedical applications The series brings nanomaterials to the Life Scientists and life science to the Materials Scientists so that synergies are seen and developed to the fullest Written by international experts of various facets of this exciting field of research the series is aimed at scientists of the following disciplines biology chemistry materials science physics bioengineering and medicine together with cell biology biomedical engineering pharmaceutical chemistry and toxicology both in academia and fundamental research as well as in pharmaceutical companies VOLUME 3 Mixed Metal Nanomaterials This volume covers the aspects of synthesis characterization and application of bimetallic and multielemental spherical and anisotropic nanomaterials in the life sciences *Liquid and Crystal Nanomaterials for Water Pollutants Remediation* Uma Shanker, Manviri Rani, 2022-07-07 Nanoscience technology is playing a vital role in multidisciplinary research due to its unique characteristics at nanoscale as compared to bulk materials In view of such excellent properties like high surface area semiconducting nature and non toxicity nanotechnology has emerged as a promising means to curb pollution Liquid and

crystal nanomaterials aim for products and processes that are ecofriendly economically sustainable safe and energy efficient One of the most popular fields widely adopted is photocatalysis of nanomaterials that involves photo conduction in efficient removal degradation of noxious pollutants This book focuses on generation of liquid and crystal nanomaterials for environmental remediation *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

Fibrous Structures for Sustainable Future Jiří Militký, Mohanapriya Venkataraman, 2025-11-01 This book highlights and explains some topics of functionalized less common e g bio based fibrous structures creation characterization of their properties and their special applications It comprises

mainly some important but not widely known fibers such as bacterial cellulose coir banana and mohair fibers of natural origin bio based fibers and waste based fibers such as paper more suitable for the future needs of the textile branch The benefits of the preparation of synthetic fibers from natural based monomers in comparison with fibers of natural origin are shown The use of reprocessed and recycled fibrous wastes leading to a reduction of consumption of resources whether renewable or fossil is covered as well The modification of fibrous structures by bio prepared metal nanoparticles is also discussed

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