

NanoScience and Technology

Quan Li *Editor*

Anisotropic Nanomaterials

Preparation, Properties, and
Applications



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Anisotropic Nanomaterials Preparation Properties And Applications Nanoscience And Technology

Klaus D. Sattler



Anisotropic Nanomaterials Preparation Properties And Applications Nanoscience And Technology:

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

Anisotropic Nanomaterials Quan Li, 2015-06-09 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

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

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 Functional Organic and Hybrid Nanostructured Materials Quan Li, 2018-05-29 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 **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 **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

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

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

Nano-Technological Intervention in Agricultural Productivity Javid A. Parray, Mohammad Yaseen Mir, Nowsheen Shameem, 2021-07-13 Provides detailed information about the use of

nanotechnology in remediating waste and pollution in agriculture Nano Technological Intervention in Agricultural Productivity explores sustainable eco friendly technologies for remediating wastes and contaminated areas in both water and land ecosystems Focusing on nano technological innovations that use microbes and microbial agents to improve the quality and pollutant discharge of contaminated sites this comprehensive volume also discusses molecular approaches for the characterization of nanoparticles the biosynthetic pathways of microbes gene and protein expression studies for bio deterioration techniques and more Organized into nine chapters the book opens with a thorough overview of the functions classification properties synthesis and applications of nanoparticles Following a discussion of the environmental and agricultural implications of nanotechnology the authors examine the current role and future prospects of nanotechnology in managing plant diseases improving agri food production and increasing agricultural productivity Subsequent chapters cover lignin nanoparticles various applications of nanotechnology in agriculture and nano based advances in plant and microbial science Offering an up to date account of the role of nanotechnologies in agricultural bioremediation this book Explores biotechnological advances in the development of sophisticated green technologies for waste minimization and waste control Emphasizes the use of microbes for degradation and removal of various xenobiotic substances Discusses bioremediation approaches in relation to the impact of increased urbanization and industrialization on the environment Covers a variety of applications of nanotechnology in agriculture including nano fertilizers nano biosensors nano pesticides and nanoparticle protection in plants Nano Technological Intervention in Agricultural Productivity is a valuable resource for students in plant biotechnology and agricultural science and engineering as well as an important reference for researchers in plant biotechnology and agricultural sciences particularly those with interest in the use of nanomaterials for pollution remediation and sustainable development

Anisotropic and Shape-Selective Nanomaterials Simona E. Hunyadi Murph, George K. Larsen, Kaitlin J. Coopersmith, 2017-07-14 This book reviews recent advances in the synthesis characterization and physico chemical properties of anisotropic nanomaterials It highlights various emerging applications of nanomaterials including sensing and imaging bio medical applications environmental protection plasmonics catalysis and energy It provides an excellent and comprehensive overview of the effect that morphology and nanometric dimension has on the physico chemical properties of various materials and how this leads to novel applications

Nanoscience: Volume 9 Neerish Revaprasadu, Malik Dilshad Khan, 2023-09-27 Publications in nanoscience cross conventional boundaries from chemistry to specialised areas of physics and nanomedicine With such a vast landscape of material careful distillation of the most important discoveries helps researchers find the key information This volume provides a critical and comprehensive assessment of the most recent research and opinion from across the globe Topics covered include single atom catalysts for water splitting bacteriophages for nanotechnology preparation of nanomaterials for scanning electrochemical techniques noise spectroscopy of nanomaterials and sustainable energy harvesting Appealing to anyone practising in nano allied fields or

wishing to enter the nano world this useful resource provides a succinct reference on recent developments in this area now and looking to the future 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

Dekker Encyclopedia of Nanoscience and Nanotechnology James A. Schwarz, Cristian I. Contescu, Karol Putyera, 2004 2nd International Conference on Smart Sustainable Materials and Technologies (ICSSMT 2023) M. Sumesh, João Manuel R. S. Tavares, S. C. Vettivel, Mario Orlando Oliveira, 2024-03-11 Sustainable materials science and engineering is one of the important characteristics of the existing high tech revolution The advances of materials science pave way for technical advancements in materials science and industrial technologies throughout the world Materials are regarded as critical component in all emerging industries Exquisite preparation and manufacturing must be carried out before a new material may be used Nevertheless electronic materials are undeniably important in many aspects of life Smart materials and structures is a multi disciplinary platform dedicated to technical advances in smart materials systems and structures including intelligent materials sensing and actuation adaptive structures and active control Recently sustainable materials and technologies reshape the electronics industry to build realistic applications At present without the impact of sustainability the electronics industry faces challenges Researchers are now more focused on understanding the fundamental science of nano micro and macro scale aspects of materials and technologies for sustainable development with a special attention toward reducing the knowledge gap between materials and system designs The main aim of this international conference is to address the new trends on smart sustainable materials field for industrial and electronics applications The main purpose of this conference is to assess the recent development in the applied science involving research activity from micro to macro scale aspects of materials and technologies for sustainable applications In such a context particular emphasis is given to research papers tailored in order to improve electronic and industrial applications and market extension of sustainable materials **Advances in Metal Oxides and Their Composites for Emerging Applications** Sagar D.

Delekar, 2022-08-26 Advances in Metal Oxides and their Composites for Emerging Applications reviews key properties of metal oxide based composites including their structural physicochemical optical electrical components and resulting performance in a wide range of diverse applications Synthetic protocols used to create metal oxides with desirable morphologies properties and performance for applications in solar energy harvesting energy storage and environmental

remediation are emphasized Emerging technologies that address important global challenges such as energy shortage the hazardous effects of non renewable energy sources unaffordable energy technologies and the contaminants present in air and water are also covered This book is an ideal resource for materials scientists and engineers working in academia and R D In addition it s appropriate for those who either need an introduction to potential research directions or for experienced researchers and practitioners looking for a key reference on the latest advances Introduces the fundamental properties of metal oxide based composites paying special attention to physicochemical optical electrical and structural characteristics Provides an overview of the synthetic protocols used to design and tune the properties of metal oxide based composites for key emerging applications Discusses metal oxide based composites and their use in energy applications such as energy storage energy harvesting and environmental remediation

21st Century Nanoscience - A Handbook Klaus D.

Sattler,2020-11-09 21st Century Nanoscience A Handbook Low Dimensional Materials and Morphologies Volume 4 will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field This fourth volume in a ten volume set covers low dimensional materials and morphologies Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanophysics extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond

Metal-Matrix Composites T. S.

Srivatsan,Pradeep K. Rohatgi,Simona Hunyadi Murph,2022-02-09 This collection brings together engineers scientists scholars and entrepreneurs to present their novel and innovative contributions in the domain specific to metal matrix composites and on aspects specific to processing characterization mechanical behavior measurements failure behavior and kinetics governing microstructural influences on failure by fracture Topics include but are not limited to Metals and metal matrix composites Nano metal based composites Intermetallic based composites Contributions in the above topics connect to applications in industry relevant areas automotive nuclear and clean energy aerospace failure analysis biomedical and healthcare and heavy equipment machinery and goods

Comprehensive Nanoscience and Nanotechnology

,2019-01-02 Comprehensive Nanoscience and Technology Second Edition Five Volume Set allows researchers to navigate a very diverse interdisciplinary and rapidly changing field with up to date comprehensive and authoritative coverage of every aspect of modern nanoscience and nanotechnology Presents new chapters on the latest developments in the field Covers topics not discussed to this degree of detail in other works such as biological devices and applications of nanotechnology Compiled and written by top international authorities in the field *Comprehensive Semiconductor Science and Technology*

,2011-01-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors Previous attempts at this achievement have been abbreviated and have omitted important topics Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world The work is divided into three sections The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity nearly defect free bulk and epitaxial materials The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us Provides a comprehensive global picture of the semiconductor world Each of the work s three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts

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