

Intelligent Stimuli-Responsive Materials

From Well-Defined Nanostructures to Applications

Edited by *Quan Li*



WILEY

Intelligent Stimuli Responsive Materials From Well Defined Nanostructures To Applications

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Intelligent Stimuli Responsive Materials From Well Defined Nanostructures To Applications:

Intelligent Stimuli-Responsive Materials Quan Li, 2013-09-03 There has been concerted effort across scientific disciplines to develop artificial materials and systems that can help researchers understand natural stimuli responsive activities With its up to date coverage on intelligent stimuli responsive materials Intelligent Stimuli Responsive Materials provides research industry and academia professionals with the fundamentals and principles of intelligent stimuli responsive materials with a focus on methods and applications Emphasizing nanostructures and applications for a broad range of fields each chapter comprehensively covers a different stimuli responsive material and discusses its developments advances challenges analytical techniques and applications Industrial Applications for Intelligent Polymers and Coatings Majid Hosseini, Abdel Salam Hamdy Makhlouf, 2016-05-14 This book is a comprehensive collaboration on intelligent polymers and coatings for industrial applications by worldwide researchers and specialists The authors cover the basis and fundamental aspects of intelligent polymers and coatings challenges and potential mechanisms and properties They include recent and emerging industrial applications in medical smart textile design oil and gas electronic aerospace and automobile industries as well as other applications including microsystems sensors and actuators among others The authors discuss the potential for future research in these areas for improvement and growth of marketable applications of intelligent polymers and coatings Active Origami Edwin A. Peraza Hernandez, Darren J. Hartl, Dimitris C. Lagoudas, 2018-07-12 Origami structures have the ability to be easily fabricated from planar forms enable the deployment of large structures from small volumes and are potentially reconfigurable These characteristics have led to an increased interest in theoretical and computational origami among engineers from across the world In this book the principles of origami active materials and solid mechanics are combined to present a full theory for origami structures The focus is on origami structures morphed via active material actuation and formed from sheets of finite thickness The detailed theoretical derivations and examples make this an ideal book for engineers and advanced students who aim to use origami principles to develop new applications in their field

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

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

CO₂-switchable Materials Philip G Jessop, Michael F Cunningham, 2020-09-11 CO₂ responsive materials are a relatively recent innovation In general stimuli responsive materials exhibit reversible changes in their physical or chemical properties in response to external triggers such as temperature pH light or voltage However there are often limitations in applying these triggers including economic and environmental costs and product contamination The realization that CO₂ can be used as an effective trigger for stimulating changes in material properties has prompted a surge in interest in this area within the past few years with numerous new studies currently underway in several countries CO₂ is an ideal trigger for switchable or stimuli responsive materials because it is benign inexpensive green abundant and does not accumulate in the system Many different CO₂ responsive materials including polymers latexes solvents solutes gels surfactants and catalysts have been prepared Summarizing recent progress in the preparation self assembly and functional applications of CO₂ responsive materials this book explores the physical chemistry of CO₂ switching including constraints on structural design and process conditions together with applications With emphasis on the environmental health and safety advantages and disadvantages compared to conventional materials it is ideal for researchers and industrialists working in green chemistry chemical engineering and polymer chemistry

Photochromic Materials He Tian, Junji Zhang, 2016-09-13 Summarizing all the latest trends and recent topics in one handy volume this book covers everything needed for a solid understanding of photochromic materials Following a general introduction to organic photochromic materials the authors move on to discuss not only the underlying theory but also the properties of such materials After a selection of applications they look at the latest achievements in traditional solution phase applications including photochromic based molecular logic operations and memory optically modulated supramolecular system and sensors as well as light tunable chemical reactions The book then describes the hotspot areas of photo switchable surfaces and nanomaterials photochromic based luminescence electronic devices and bulk materials together with light regulated biological and bio chemical systems The authors conclude with a focus on current industrial applications and the future outlook for these materials Written with both senior researchers and entrants to the field in mind

Nanoscience with Liquid Crystals Quan Li, 2014-04-17 This book focuses on the exciting topic of

nanoscience with liquid crystals from self organized nanostructures to applications The elegant self organized liquid crystalline nanostructures the synergetic characteristics of liquid crystals and nanoparticles liquid crystalline nanomaterials synthesis of nanomaterials using liquid crystals as templates nanoconfinement and nanoparticles of liquid crystals are covered and discussed and the prospect of fabricating functional materials is highlighted Contributions collecting the scattered literature of the field from leading and active players are compiled to make the book a reference book Readers will find the book useful and of benefit both as summaries for works in this field and as tutorials and explanations of concepts for those just entering the field Additionally the book helps to stimulate future developments

Liquid Crystal Sensors Albert Schenning, Gregory P. Crawford, Dirk J. Broer, 2017-09-01 Liquid Crystal Sensors discusses novel applications of liquid crystals that lie beyond electrically driven optical switches and displays The main focus is on recent progress in the area of sensors based on low molar mass and polymer liquid crystals This area of research became hot in recent years since the possibilities for applications of liquid crystal sensors are growing in many areas ranging from the detection of mechanical displacements to the detection of environmental pollutants and chemical agents This book is well suited for students as well as scientists from different backgrounds For students and researchers new to the field it gives a thorough introduction For experienced researchers it shows the latest breakthroughs and serves as an inspiration for solving problems or sparking new ideas Key Features Emphasizes how liquid crystals are extremely sensitive to external stimuli and therefore can be used for the construction of stimuli responsive devices such as sensors Includes the contributions of editors who are deeply involved in the field and author chapters on hot topics such as the sensitivity of liquid crystals to pollutants UV light and strain Provides an exclusive on LC sensors where having the data in one place will be very useful to the community Gives more information on sensors and broadens the scope by having a contributed volume rather than authored Combines recent data on advances in the area of liquid crystal sensors that includes many types of liquid crystal materials

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

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

Organic and Hybrid Photonic Crystals Davide Comoretto, 2015-07-20 This book provides a multidisciplinary perspective ranging from chemistry to physics and biology of the current research and applications of organic and hybrid photonic crystals The authors detail the chemical and physical tools used to develop organic photonic crystals explain methods for engineering new nano structures and propose novel physical phenomena or technological applications based on such materials Organic and Hybrid Photonic Crystal lasers sensors photovoltaic devices and stimuli responsive devices are discussed

Polysaccharide based Nano-Biocarrier in Drug Delivery Tapan Kumar Giri, Bijaya Ghosh, 2018-09-03 This book discusses various fundamental aspects of polysaccharide based nano biocarrier drug delivery systems and its application in the delivery of small molecules proteins peptides oligonucleotides and genes It also discusses advances in drug delivery systems in treatment of cancer cardiovascular pulmonary and infectious diseases

Intelligent Nanomaterials for Drug Delivery Applications Nabeel Ahmad, Gopinath Packirisamy, 2020-03-29 Intelligent Nanomaterials for Drug Delivery Applications discusses intelligent nanomaterials with a particular focus on commercial and premarket tools

The book looks at the applications of intelligent nanomaterials within the field of medicine and discusses their future role. This includes the use of intelligent nanomaterials for drugs used in cardiovascular and cancer treatments and examines the promising market of nanoparticles for biomedical and biosensing applications. This resource will be of great interest to scientists and researchers involved in multiple disciplines including micro and nano engineering, bionanotechnology, biomedical engineering and nanomedicine as well as pharmaceutical and biomedical industries. Focuses on applications of intelligent nanomaterials within the field of medicine and discusses their role in the future. Discusses intelligent nanomaterials with a particular focus on commercial and premarket tools. Examines the promising market of nanoparticles for biomedical and biosensing applications.

Functional Materials in Biomedical Applications Costas Demetzos, Natassa Pippa, Nikolaos Naziris, 2023-06-09. This book presents modern trends that regard the utilization of advanced functional materials for the development of innovative pharmaceuticals. Such materials include classes of lipids, polymers, proteins and peptides as well as inorganic materials which find application in nanomedicinal products, drug delivery systems, medical devices, biotechnological products and several other technologies. These products are promising for the therapy and diagnosis of diseases. Special attention is given to the available analytical techniques utilized for the evaluation of materials, their interactions and their properties as well as the functionality of the final pharmaceutical forms. In addition, scale up opportunities and limitations of nanomaterials and the current and emerging challenges in their clinical translation with reference to relative regulatory aspects are discussed. The book covers the latest advances in functional materials for biomedical applications and will serve as a guide for the industry and aid future research. It will be useful for upper undergraduate students and graduate students, young researchers in the fields of pharmaceuticals and materials sciences, scientists who want to enrich their knowledge on advanced drug delivery, nanocarriers and their applications, researchers in the Big Pharma and readers who want to learn more about the role of nanoscience in the design and development of nanomedicines.

Supramolecular Soft Matter Takashi Nakanishi, 2011-10-11. The pivotal text that bridges the gap between fundamentals and applications of soft matter in organic electronics. Covering an expanding and highly coveted subject area, *Supramolecular Soft Matter* enlists the services of leading researchers to help readers understand and manipulate the electronic properties of supramolecular soft materials for use in organic optoelectronic devices such as photovoltaics and field effect transistors, some of the most desired materials for energy conservation. Rather than offering a compilation of current trends in supramolecular soft matter, this book bridges the gap between fundamentals and applications of soft matter in organic electronics in an effort to open new directions in research for applying supramolecular assembly into organic materials while also focusing on the morphological functions originating from the materials' self-assembled architectures. This unique approach distinguishes *Supramolecular Soft Matter* as a valuable resource for learning to identify concepts that hold promise for the successful development of organic polymeric electronics for use in real world applications. *Supramolecular*

Soft Matter Combines important topics to help supramolecular chemists and organic electronics researchers work together Covers an interdisciplinary field of prime importance to government supported R D research Discusses the concepts and perspectives in a dynamic field to aid in the successful development of organic electronics Includes applications for energy conservation like photovoltaics and field effect transistors Teeming with applicable information on both molecular design and synthesis as well as the development of smart molecular assemblies for organic electronic systems Supramolecular Soft Matter provides more practical in depth coverage of this rapidly evolving technology than any other book in its field *Self Organized Nanostructures of Amphiphilic Block Copolymers II* Axel H.E. Müller, Oleg Borisov, 2011-09-15 Block Copolymer Surfactant Mixtures in Aqueous Solution Can we Achieve Size and Shape Control by Co Micellization by Thomas Hellweg Non ionic Thermoresponsive Polymers in Water by Vladimir Aseyev Heikki Tenhu and Fran oise Winnik From Coordination Polymers to Hierarchical Self Assembled Structures by Yun Yan Arie de Keizer Martien A Cohen Stuart and Nicolaas A M Besseling Processes of Ordered Structure Formation in Polypeptide Thin Film Solutions by Ioan Botiz Helmut Schlaad and G nter Reiter Amphiphilic Polymers at Interfaces by Katarzyna Kita Tokarczyk Mathias Junginger Serena Belegirinou and Andreas Taubert *Polymer Coatings: Technologies and Applications* Sanjay Mavinkere Rangappa, Jyotishkumar Parameswaranpillai, Suchart Siengchin, 2020-11-18 Polymer Coatings Technologies and Applications provides a comprehensive account of the recent developments in polymer coatings encompassing novel methods techniques and a broad spectrum of applications The chapters explore the key aspects of polymer coatings while highlighting fundamental research different types of polymer coatings and technology advances This book also integrates the various aspects of these materials from synthesis to application Current status trends future directions and opportunities are also discussed FEATURES Examines the basics to the most recent advances in all areas of polymer coatings Serves as a one stop reference Discusses polymer coated nanocrystals and coatings based on nanocomposites Describes morphology spectroscopic analysis adhesion and rheology of polymer coatings Explores conducting stimuli responsive self healing hydrophobic and hydrophilic antifouling and antibacterial polymer coatings Covers modeling and simulation With contributions from the top international researchers from industry academia government and private research institutions both new and experienced readers will benefit from this applications oriented book Sanjay Mavinkere Rangappa is a research scientist at the Natural Composites Research Group Lab Academic Enhancement Department King Mongkut s University of Technology North Bangkok Thailand Jyotishkumar Parameswaranpillai is a research professor at the Center of Innovation in Design and Engineering for Manufacturing King Mongkut s University of Technology North Bangkok Thailand Suchart Siengchin is a professor at and president of King Mongkut s University of Technology North Bangkok Thailand Smart Polymers Dipankar Chattopadhyay, Adrija Ghosh, Jonathan Tersur Orasugh, Suprakas Sinha Ray, 2025-11-13 This book covers the analysis of biosensing site targeted therapeutics as well as visual analytics of release profile at the delivery site as possible uses for

nanotheranostics therapies following the route of smart polymers It discusses pH as well as temperature sensitive polymers and their recent and relevant applications as biomaterials in drug delivery and tissue engineering including dual stimuli smart polymers Features Informs about the main challenges and prospects of nanotheranostics and smart polymers Covers biomedical application of smart polymers in imaging and therapy Includes a wide description of the different polymer structures from hydrogel core shell to foams and nanofibers Introduces different types of emerging smart polymeric systems Discusses available potential of nanotheranostics and smart polymers toward commercialization This book is aimed at industrial pharmaceutical experts higher institution lecturers teachers researchers and graduate students in nanodrug delivery polymeric delivery bioimaging and smart polymers

Intelligent Macromolecules for Smart Devices Liming Dai, 2006-04-18 The age of nanotechnology is upon us Engineering at the molecular level is no longer a computer generated curiosity and is beginning to affect the lives of everyone Molecules which can respond to their environment and the smart machines we can build with them are and will continue to be a vital part of this 21st century revolution Liming Dai presents the latest work on many newly discovered intelligent macromolecular systems and reviews their uses in nano devices Intelligent Macromolecules for Smart Devices features An accessible assessment of the properties and materials chemistry of all the major classes of intelligent macromolecules from optoelectronic biomacromolecules to dendrimers artificial opals and carbon nanotubes In depth analysis of various smart devices including a critique of the suitability of different molecules for building each type of device A concise compilation of the practical applications of intelligent macromolecules including sensors and actuators polymer batteries carbon nanotube supercapacitors novel lasing species and photovoltaic cells As an exposition of cutting edge research against a backdrop of comprehensive review Intelligent Macromolecules for Smart Devices will be an essential addition to the bookshelf of academic and industrial researchers in nanotechnology Graduate and senior undergraduate students looking to make their mark in this field of the future will also find it most instructive

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