N. Ueyama A. Harada (Eds.)

Macromolecular Nanostructured Materials





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Kalim Deshmukh, Mayank Pandey

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Macromolecular Nanostructured Materials Norikazu Ueyama, Akira Harada, 2010-11-16 This volume contains information on the most recent advances in the rapid development of nanostructured materials. The authors are world leaders in this area and a group of young scientists who have devoted themselves to the develop ment of macromolecular nanostructured materials. The first development phase of this field was characterized by the construction of nanostructured materials. We have now entered the second phase the aim of which has been the creation of a functional device for various applications. Polymeric materials have already estab lished a nanosized structure for these infinitesimal purposes. However, these poly mers are used via a top down processing approach from the mass. The goal of creating new nanostructured materials is to produce instead a device which can be self assembled and used in a bottom up processing approach. Although the top down processing approach has given rise to the problem of how to dispose of scraps generated by industrial and daily usage the bottom up processing approach will involve a specific reaction after usage thereby eliminating this disposal prob lem. The collected articles present important concepts for the precise synthesis of nanostructured materials. These small molecules are designed according to the molecular recognition results for their functions such as molecular electronics mesoscopic assemblies using organic building blocks or polymers with well defined shape size and a deeply buried functional group and novel magnets con sisting of organic radicals sol gel hybrids applicable for hardeners of fluids or liquid crystals.

Macromolecular Nanostructured Materials Norikazu Ueyama, Akira Harada, 2004-11-29 This volume contains information on the most recent advances in the rapid development of nanostructured materials The authors are world leaders in this area and a group of young scientists who have devoted themselves to the develop ment of macromolecular nanostructured materials The first development phase of this field was characterized by the construction of nanostructured materials We have now entered the second phase the aim of which has been the creation of a functional device for various applications Polymeric materials have already estab lished a nanosized structure for these infinitesimal purposes However these poly mers are used via a top down processing approach from the mass The goal of cre ating new nanostructured materials is to produce instead a device which can be self assembled and used in a bottom up processing approach Although the top down processing approach has given rise to the problem of how to dispose of scraps generated by industrial and daily usage the bottom up processing approach will involve a specific reaction after usage thereby eliminating this disposal prob lem The collected articles present important concepts for the precise synthesis of nanostructured materials These small molecules are designed according to the molecular recognition results for their functions such as molecular electronics mesoscopic assemblies using organic building blocks or polymers with well defined shape size and a deeply buried functional group and novel magnets con sisting of organic radicals sol gel hybrids applicable for hardeners of fluids or liquid crystals

Nanostructure, Nanosystems, and Nanostructured Materials P. M. Sivakumar, Vladimir I. Kodolov, Gennady Efremovich

Zaikov, A. K. Haghi, 2013-09-25 This book provides valuable information on the new class of nanostructures metal carbon nanocomposites and discusses new methods of their synthesis properties and applications It covers computer prognosis including quantum chemical modeling for metal carbon nanocomposites synthesis processing as well as fine dispersed suspensions obtaining processes and material modification processes Intended for researchers academics and post graduate students the book will give readers an up to date look at this important and valuable new class of nanostructures metal Nanostructured Materials T. Daniel Thangadurai, N. Manjubaashini, Sabu Thomas, Hanna J. carbon nanocomposites Maria, 2020-02-27 This book discusses the early stages of the development of nanostructures including synthesis techniques growth mechanisms the physics and chemistry of nanostructured materials various innovative characterization techniques the need for functionalization and different functionalization methods as well as the various properties of nanostructured materials It focuses on the applications of nanostructured materials such as mechanical applications nanoelectronics and microelectronic devices nano optics nanophotonics and nano optoelectronics as well as piezoelectric agriculture biomedical and environmental remediation applications and anti microbial and antibacterial properties Further it includes a chapter on nanomaterial research developments highlighting work on the life cycle analysis of nanostructured materials and toxicity Nanostructured Materials for Energy Storage Kalim Deshmukh, Mayank Pandey, 2024-08-14 Comprehensive aspects reference work for researchers and engineers working with advanced and emerging nanostructured battery and supercapacitor materials Lithium ion batteries and supercapacitors play a vital role in the paradigm shift towards sustainable energy technology This book reviews how and why different nanostructured materials improve the performance and stability of batteries and capacitors Sample materials covered throughout the work include Graphene carbon nanotubes and carbon nanofibers MXenes hexagonal boron nitride and transition metal dichalcogenides Transition metal oxides metal organic frameworks and lithium titanates Gel polymer electrolytes hydrogels and conducting polymer nanocomposites For materials scientists electrochemists and solid state chemists this book is an essential reference to understand the lithium ion battery and supercapacitor applications of nanostructured materials that are most widely used for developing low cost rapid and Magnetic Nanostructures Bekir Aktas, Lenar Tagirov, Faik Mikailov, 2007-03-06 highly efficient energy storage systems This volume addresses the exciting and rapidly developing topic of ultrahigh density magnetic data storage It is the most advanced book on magnetic nanostructures basics and applications It combines modern topics in nanomagnetism with issues relating to the fabrication and characterization of magnetic nanostructures This book will be of interest to R and D scientists Advances in Macromolecules Maria Vittoria and it provides an accessible introduction to the essential issues Russo, 2010-03-10 Polymeric and Nanostructured Macromolecules presents the recent advances made in the synthesis characterization and applications of polymeric macromolecules This book provides an excellent overview of the recent breakthroughs in the science of macromolecules with an emphasis on nanostructured macromolecules and the perspectives

that these versatile materials offer to different fields such as optoelectronics and biotechnology Advanced undergraduate graduate students and researchers alike will find the topics concerning physical and chemical properties of advanced macromolecular materials of great interest 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

Nanomaterial Interactions with Plant Cellular Mechanisms and Macromolecules and Agricultural Implications Jameel M. Al-Khayri, Lina M. Alnaddaf, S. Mohan Jain, 2023-01-01 This book focuses on the recent progress of nanotechnology with emphasis on the interaction between nanoparticles and plants on the cellular level It is devoted to understanding the pathways of nanomaterials entry into plant cell and their influence on cellular organelle processes and influence on crop yield It consists of 16 chapters grouped in 3 parts Part I Cellular mechanisms Part II Cellular macromolecules and Part III Implications of nanomaterials Chapters present the plant response to nanomaterial applications including morphological physiochemical and anatomical changes and their effect on plant growth and productivity The book discusses the mechanisms of absorbance and translocation of nanoparticles and their interaction with the plant cellular biochemical compounds and organelles It presents the current perspective of nanomaterials influence on cellular processes which include photosynthesis photorespiration and pigment synthesis and accumulation In addition it provides current understanding of the impact of nanomaterials on cellular macromolecules including carbohydrates lipids nucleic acids proteins hormones and antioxidant defense activities Collectively these processes and biochemical compounds have implications on crop yield Chapters are written by globally recognized scientists and subjected to a rigorous review process to ensure quality presentation and scientific precision Chapter begins with an introduction that covers similar contexts and includes a detailed discussion of the topic accompanied by high quality color images diagrams and relevant details and

concludes with recommendations for future study directions Chapter Impact of Nanomaterials on Plant Secondary Metabolism is available open access under a Creative Commons Attribution 4 0 International License via link springer com

Nanostructured Materials Zesheng Li, Changlin Yu, 2023-08-31 Nanostructured Materials Physicochemical Chemistry Fundamentals for Energy and Environmental Applications summarizes research knowledge and helps advanced students researchers and industrial technicians understand specific applications of nanomaterials in energy and the environment Sections bring a strong foundational focus on the physicochemical basis of nanomaterials for these applications the basic theory and physicochemical basis of nanomaterials an energy and environment applications examination of typical cases and progress This book will appeal to researchers in the chemical sciences inorganic and physical chemistry coordination chemistry molecular dynamics electrochemistry photocatalysis thermocatalysis thermodynamics etc nanoscience graphene carbon nanotubes nanocrystals nano catalysis energy and environment nano science and more Efficient use of energy eco friendly environmental systems and technologies play an important role in global sustainable development Multifunctional nanocomposites have excellent properties and can meet the practical needs of energy development and environmental treatment They have been gradually applied in chemical materials energy preparation pollution control and other fields and have achieved impressive development Provides a unified overview of a large variety of different applications on the design and synthesis of nanomaterials with potential applications in various conventional and new energy and environmental technologies Provides a strong foundational focus on the analysis of the structure of nanomaterials the basic principles of design nanomaterial structure activity relationship and the theoretical basis of physical chemistry theoretical basis of nanomaterial design and applications Meets a need to summarize and examine ongoing research and advances in a rapidly developing field Macromolecules Containing Metal and Metal-Like Elements, Volume 4 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Charles U. Pittman, Jr., Martel Zeldin, 2005-04-01 This series provides a useful applications oriented forum for the next generation of macromolecules and materials Volume 4 provides useful descriptions of Group IV metals and their applications including silicon organogermanium organotin and organolead containing polymers A high quality team of macromolecular experts from around the world have put together these leading macromolecule titles Micro- and Macro-Properties of Solids Dinker B. Sirdeshmukh, Lalitha Sirdeshmukh, K. G. Subhadra, 2006-09-02 Each of the eight chapters treats an important aspect of solid state physics comprising a complete review of the particular field Typically a chapter starts with basic information about a property of a solid and the related experimental techniques This is followed by a global overview which brings together all important contributions by different research workers in the field This overview is comprehensive and covers essential literature over the past 60 years Each chapter concludes with a detailed discussion of the contributions made by the chapter authors and their associates in some cases spanning the last 45 years In addition Micro and Macro Properties of Solids provides data on new materials such as rare earth metals semiconductors ferroelectrics

mixed valence compounds superionic conductors optical and optoelectronic materials and biomaterials **Macromolecules** Containing Metal and Metal-Like Elements, Volume 7 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Charles U. Pittman, Jr., Martel Zeldin, 2005-12-13 This series provides a useful applications oriented forum for the next generation of macromolecules and materials This volume seventh in the series covers nanoscale interactions of metal containing polymers Example chapters include Nanoscale Clusters and Molecular Orbital Interactions in Macromolecular Metal Complexes Metal Oxide Clusters as Building Blocks for Inorganic Organic Hybrid Polymers Metallopolymer Nanocomposites A.D. Pomogailo, V.N. Kestelman, 2006-01-27 Highly dispersed nanoscale particles in polymer matrices are currently attracting great interest in many fields of chemistry physics and materials science This book presents and analyzes the essential data on nanoscale metal clusters dispersed in or chemically bonded with polymers Special attention is paid to the in situ synthesis of the nanocomposites their chemical interactions and the size and distribution of the particles in the polymer matrix Numerous novel nanocomposites are described with regard to their mechanical electrophysical optical magnetic catalytic and biological properties Their applications present and future are outlined The book is addressed both to researchers who actively use these materials and to students entering this multidisciplinary field Plastics for Corrosion Inhibition V.A. Goldade, L.S. Pinchuk, A.V. Makarevich, V.N. Kestelman, 2006-03-30 One of the key problems of failure free operation of machinery is prevention of corrosion The global scale of modern production makes this problem even more critical At the beginning of the 21st century industrial contami tion and the corrosion active nature of the environment reached a level such that corrosive damage of materials became commensurate with their prod tion volume and expenditure on anticorrosion protection of machines became comparable with investments in basic production Anticorrosion techniques changed from being an auxiliary service to industrial enterprises into a dev oping scienti cally intensive and generously nanced branch of production Polymers occupy a very speci c place amongst anticorrosion techniques Polymers combine good chemical resistance with impermeability to di ent media and unusual deformation characteristics. The main principle of their application as anticorrosion means is the creation of a tight barrier that insulates metal machine parts or constructions from corrosion agents The advantages of polymers allow the creation of such a barrier at minimal cost providing protection of the working machines from corrosion combining their manufacture with preservation and decreasing the cost of anticorrosion This is one of the main reasons why world production of polymer materials increased by almost 50% in Fundamentals of Ion-Irradiated Polymers Dietmar Fink, 2013-03-14 Presented in two parts this first the past decade comprehensive overview addresses all aspects of energetic ion irradiation of polymers Earlier publications and review articles concentrated on selected topics only And the need for such a work has grown with the dramatic increase of research and applications such as in photoresists waveguides and medical dosimetry during the last decade The first part Fundamentals of Ion Irradiated Polymers covers the physical chemical and instrumental fundamentals treats the specific

irradiation mechanisms of low and high energy ions including similarities and differences and details the potential for future technological application All the new findings are carefully analyzed and presented in a systematic way while open questions are identified The second volume Transport Processes in Ion Irradiated Polymers deals with transport processes in both unirradiated and irradiated polymers As both a review and a stimulus this work seeks to contribute substantially to the literature and advancement of polymeric devices from both the low and high energy regimes **Impurities Confined in** Quantum Structures Olof Holtz, Qing Xiang Zhao, 2013-04-17 The dramatic impact of low dimensional semiconductor structures on c rent and future device applications cannot be overstated Research over the last decade has highlighted the use of quantum engineering to achieve p viously unknown limits for device performance in research laboratories The modi ed electronic structure of semiconductor quantum structures results in transport and optical properties which di er from those of constituent bulk materials The possibility to tailor properties such as bandgap strain band o set etc of two dimensional 2D semiconductors e g quantum wells for speci c purposes has had an extensive impact on the electronics which has resulted in a dramatic renewal process For instance 2D structures are today used in a large number of high speed electronics and optoelectronic applitions eq detectors light emitting diodes modulators switches and lasers and in daily life in eq LED based tra c lights CD players cash registers The introduction of impurities also in very small concentrations in a semiconductor can change its optical and electrical properties entirely This attribute of the semiconductor is utilized in the manifoldness of their app cations This fact constitutes the principal driving force for investigation of the properties of the impurities in semiconductors While the impurities in bulk materials have been investigated for a long time and their properties are fairly well established by now the corresponding studies of impurities in quantum wells is a more recent research area Transport Processes in Ion-Irradiated Polymers Dietmar Fink, 2013-03-14 Presented in two parts this first comprehensive overview addresses all aspects of energetic ion irradiation of polymers Earlier publications and review articles concentrated on selected topics only And the need for such a work has grown with the dramatic increase of research and applications such as in photoresists waveguides and medical dosimetry during the last decade The first part Fundamentals of Ion Irradiation of Polymers covers the physical chemical and instrumental fundamentals treats the specific irradiation mechanisms of low and high energy ions including similarities and differences and details the potential for future technological application All the new findings are carefully analyzed and presented in a systematic way while open questions are identified The second volume Transport Processes in Ion Irradiated Polymers deals with transport processes in both unirradiated and irradiated polymers As both a review and a stimulus this work seeks to contribute substantially to the literature and advancement of polymeric devices from both the low and high energy regimes Applications of the **Isotopic Effect in Solids** Vladimir G. Plekhanov, 2013-04-17 Thisisthe rstbookinworldliteraturedevotedtoapplicationsoftheisotopic e ect in solids It is accessible to physicists chemists electronic

engineers and material scientists alike This book is intended both as tutorial and as reference Readers seeking to learn the basics of application of the isotopic e ect in solids should start by reading the rst few overview chapters and then dig into descriptions of speci c applications to see how they really work It is hoped that it will be useful to undergraduate and graduate students of physics and optics as well as engineers physicists material scientists and medical doctors who are interested in investigation or applications of the isotopic e ect in solids This book is a state of the art introduction to very recent activity in solid state physics which has developed in the main during the last half century and promises a new technology of isotopic engineering Important applications are to be expected for information storage and dev oping materials for computer memory quantum computers isotopic bers isotopic optoelectronics and quantum electronics as well as UV lasers The references I cite are those with which I am most familiar and which have helped us understand the subject as presented here There has been no attempttogivecredittoeachcontributor butIhavetriedtocitetheoriginal papers which brought new and important results methods to applications of the isotopic e ect in solids covered in this text <u>Chalcopyrites</u> Susanne Siebentritt, Uwe Rau, 2006-02-25 Chalcopyrites in particular those with a wide band gap are fascinating materials in terms of their technological potential in the next generation of thin film solar cells and in terms of their basic material properties They exhibit uniquely low defect formation energies leading to unusual doping and phase behavior and to extremely benign grain boundaries This book collects articles on a number of those basic material properties of wide gap chalcopyrites comparing them to their low gap cousins They explore the doping of the materials the electronic structure and the transport through interfaces and grain boundaries the formation of the electric field in a solar cell the mechanisms and suppression of recombination the role of inhomogeneities and the technological role of wide gap chalcopyrites

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