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Macromolecular Nanostructured Materials



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Macromolecular Nanostructured Materials

**Jameel M. Al-Khayri, Lina M.
Alnaddaf, S. Mohan Jain**



Macromolecular Nanostructured Materials:

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 development 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 established a nanosized structure for these infinitesimal purposes However these polymers 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 problem 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 consisting 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 development 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 established a nanosized structure for these infinitesimal purposes However these polymers 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 problem 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 consisting of organic radicals sol gel hybrids applicable for hardeners of fluids or liquid crystals

Advances in Macromolecules Maria Vittoria 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 *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 carbon nanocomposites Nanostructured Materials T. Daniel Thangadurai,N. Manjubaashini,Sabu Thomas,Hanna J. 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 aspects Magnetic Nanostructures Bekir Aktas,Lenar Tagirov,Faik Mikailov,2007-03-06 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 and it provides an accessible introduction to the essential issues **Nanostructured Materials for Energy Storage** Kalim Deshmukh,Mayank Pandey,2024-08-14 Comprehensive 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 highly efficient energy storage systems *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 **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 *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](https://www.springer.com)

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 contamination and the corrosion active nature of the environment reached a level such that corrosive damage of materials became commensurate with their production 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 developing scientifically intensive and generously financed branch of production Polymers occupy a very specific place amongst anticorrosion techniques Polymers combine good chemical resistance with impermeability to different 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 the past decade

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 This is the first book in world literature devoted to applications of the isotopic effect 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 effect in solids should start by reading the first few overview chapters and then dig into descriptions of specific 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 effect 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 developing materials for computer memory quantum computers isotopic fibers 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 attempt to give credit to each contributor but I have tried to cite the original papers which brought new and important results methods to applications of the isotopic effect in solids covered in this text

Impurities

Confined in Quantum Structures Olof Holtz, Qing Xiang Zhao, 2013-04-17 The dramatic impact of low dimensional semiconductor structures on current and future device applications cannot be overstated. Research over the last decade has highlighted the use of quantum engineering to achieve previously unknown limits for device performance in research laboratories. The modified electronic structure of semiconductor quantum structures results in transport and optical properties which differ from those of constituent bulk materials. The possibility to tailor properties such as bandgap, strain, band offset etc. of two dimensional 2D semiconductors e.g. quantum wells for specific 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 applications e.g. detectors, light emitting diodes, modulators, switches and lasers and in daily life in e.g. LED based traffic 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 applications. 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.

Fundamentals of 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 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.

The Metal-Hydrogen System Yuh Fukai, 2006-05-06 Metal hydrides are of inestimable importance for the future of hydrogen energy. This unique monograph presents a clear and comprehensive description of the bulk properties of the metal hydrogen system. The statistical thermodynamics is treated over a very wide range of pressure, temperature and composition. Another prominent feature of the book is its elucidation of the quantum mechanical behavior of interstitial hydrogen atoms including their states and motion. The important topic of hydrogen interaction with lattice defects and its materials science implications are also discussed thoroughly. This second edition has been substantially revised and updated.

Wide-Gap Chalcopyrites 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

Lifetime Spectroscopy Stefan Rein, 2005-11-25 Lifetime spectroscopy is one of the most sensitive diagnostic tools for the identification and analysis of impurities in semiconductors Since it is based on the recombination process it provides insight into precisely those defects that are relevant to semiconductor devices such as solar cells This book introduces a transparent modeling procedure that allows a detailed theoretical evaluation of the spectroscopic potential of the different lifetime spectroscopic techniques The various theoretical predictions are verified experimentally with the context of a comprehensive study on different metal impurities The quality and consistency of the spectroscopic results as explained here confirms the excellent performance of lifetime spectroscopy

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