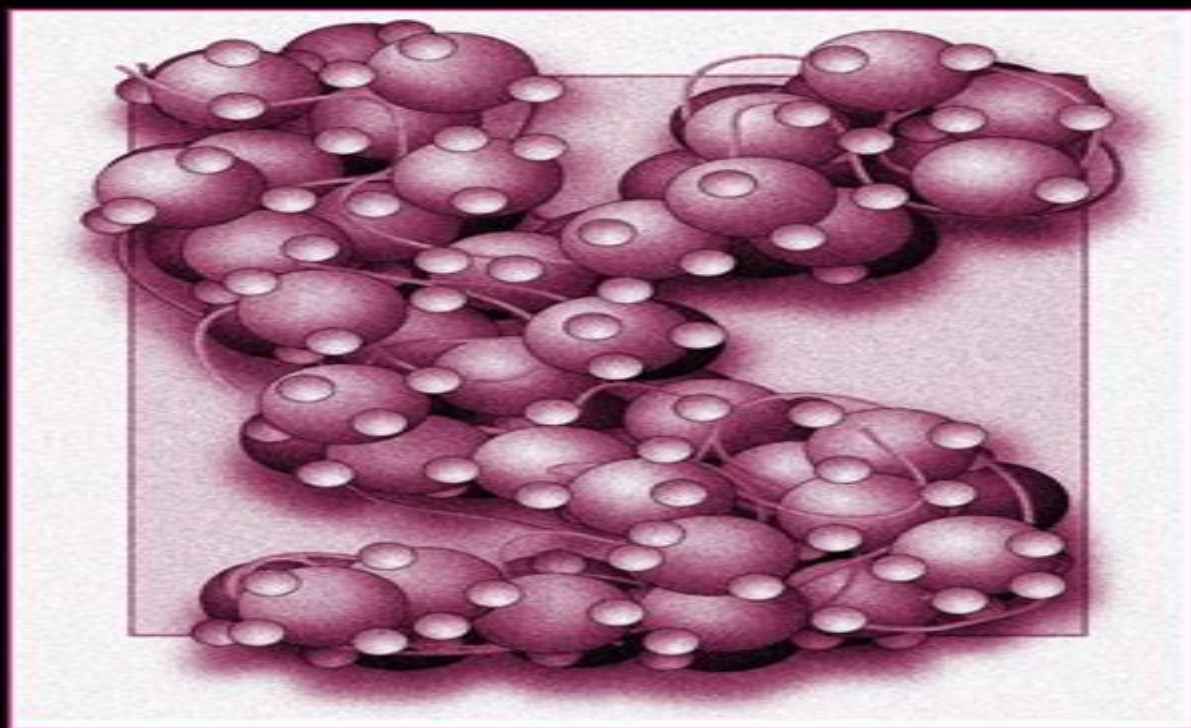




NANOSTRUCTURE SCIENCE AND TECHNOLOGY
Series Editor: David J. Lockwood

Nanoparticles

Building Blocks for Nanotechnology



Edited by
Vincent Rotello

Nanoparticles Building Blocks For Nanotechnology

**Bing Yan, Hongyu Zhou, Jorge L.
Gardea-Torresdey**



Nanoparticles Building Blocks For Nanotechnology:

Nanoparticles Vincent M. Rotello, 2004 The diverse structures and properties of nanoparticles make them useful tools for both fundamental studies and pragmatic applications in a range of disciplines This volume is intended to explore this diversity The first section covers on formation of nanoparticles and assembly of these systems into structured systems The second section focuses on both the fundamental physical properties of nanoparticles and pragmatic applications of these systems in the areas of device and materials fabrication The book will approach the subject from a chemical standpoint in contrast to most books which are oriented towards materials science or physics It will also appeal to materials scientists and physicists who are becoming aware of the contributions that chemists can make here *Spark Ablation* Andreas

Schmidt-Ott, 2019-12-19 Spark ablation has been used worldwide for decades However in many fields the special properties of nanoparticles which come into play especially for sizes **Nanostructure Control of Materials** R H J Hannink, A J Hill, 2006-02-28 The ability to measure and manipulate matter on the nanometer level is making possible a new generation of materials with enhanced mechanical optical transport and magnetic properties This important book summarises key developments in nanotechnology and their impact on the processing of metals polymers composites and ceramics After a brief introduction a number of chapters discuss the practical issues involved in the commercial production and use of nanomaterials Other chapters review ways of nanoengineering steel aluminium and titanium alloys Elsewhere the book discusses the use of nanoengineered metal hydrides to store hydrogen as an energy source and the development of nanopolymers for batteries and other energy storage devices Other chapters discuss the use of nanotechnology to enhance the toughness of ceramics the production of synthetic versions of natural materials such as bone and the development of nanocomposites Nanostructure control of materials is an ideal introduction to the ways nanotechnology is being used to create new materials for industry It will be welcomed by R D managers in such sectors as automotive engineering as well as academics working in this exciting area Reviews key developments in nanotechnology and their impact on various materials Edited by leading experts in the field Polymer Nanofibers Dario Pisignano, 2013-05-24 Research into polymer nanofibers

has increased significantly over the last decade prompting the need for a comprehensive monograph examining the subject as knowledge of their properties and potential applications has increased Postgraduate students and researchers new to the field will benefit from the from materials to applications approach to the book which examines the physio chemical properties in detail demonstrating how they can be exploited for a diverse range of applications including the production of light and wound dressings Techniques for the fabrication notably electrospinning are discussed at length This book provides a unique and accessible source of information summarising the last decade of the field and presenting an entry point for those entering the field and an inspiration to established workers The author is currently the national coordinator for several research projects examining the applications of polymer nanofibers alongside active international collaborations

Bioactivity of Engineered Nanoparticles Bing Yan, Hongyu Zhou, Jorge L. Gardea-Torresdey, 2017-08-17 This book brings together reviews from international experts who are exploring the biological activities of nanomaterials for medical applications or to better understand nanotoxicity Topics include but are not limited to the following 1 mechanistic understanding of nanostructure bioactivity relationships 2 the regulation of nanoparticles bioactivity by means of chemical modification 3 the new methodologies and standard methods used to assess nanoparticles bioactivity 4 the mechanisms involved in nanoparticle biomolecule interactions and nanoparticle cell interactions and 5 biomedical applications of nanotechnology The book will be a valuable resource for a broad readership in various subfields of chemical science engineering biology environment and medicine

Metal Nanoparticles Sreekanth Thota, Debbie C. Crans, 2018-06-28 A much needed summary of the importance synthesis and applications of metal nanoparticles in pharmaceutical sciences with a focus on gold silver copper and platinum nanoparticles After a brief introduction to the history of metal complexes in medicine and fundamentals of nanotechnology the chapters continue to describe different methods for preparation of metal nanoparticles This section is followed by representative presentations of current biomedical applications such as drug delivery chemotherapy and diagnostic imaging Aimed at stimulating further research in this field the book serves as a reference guide for academics and professionals working in the field of chemistry and nanotechnology

Industrial Applications of Nanoparticles Marta Irene Litter, Arslan Ahmad, 2023-03-31 Nanotechnology is one of the most rapidly developing areas of science with great potential to solve the developmental challenges in a wide range of industries such as aerospace agriculture bioengineering cosmetics chemicals electronics energy renewables surface coatings textiles medicine materials manufacturing military equipment etc To compile this book distinguished scientists engineers and industrial professionals from different parts of the world have been invited An array of 17 high quality science based chapters covering recent advancements challenges and future trends in industrial applications of nanotechnology is presented The book is aimed at industrial professionals and graduate level students and researchers

Nanofertilizers for Sustainable Agroecosystems Kamel A. Abd-Elsalam, Mousa A. Alghuthaymi, 2023-11-28 Large scale chemical fertilizer application causes irreparable damage to soil structure mineral cycles soil microbial flora plants and other food chains across ecosystems culminating in heritable mutations in future generations of consumers A better way forward is the use of nanofertilizers to focus on macro elements N P K as switching to nanofertilizers may result in large environmental benefits by replacing the majority of these nutrients Furthermore the biosynthesis of nanomaterials using bacteria algae yeast fungus actinomycetes and plants has opened up a new avenue of research in the production of inorganic nanoparticles as ecologically friendly fertilizers Nanofertilizers should also attain increased efficiency because of a several fold increase in the surface to volume ratio of nano forms of nutrients and their suitability for foliar application where environmental losses are further reduced Nanostructured fertilizers can also improve nutrient use efficiency through strategies such as targeted distribution and

progressive or controlled release as they can precisely release their active molecules in response to environmental cues and biological demands Recent research shows nanofertilizers can increase agricultural productivity by speeding up seed germination seedling growth photosynthetic activity nitrogen metabolism and carbohydrate and protein synthesis The potential agricultural benefits of nanofertilizers their modes of action and the fate of nanomaterials in soil are all discussed in this book It also covers nanofertilizer formulation and delivery applications uptake translocation and their fate in plants as well as their impact on plant physiology and metabolism Nutrient nanoformulation is a valuable method that has the potential to alter the agricultural sector and provide solutions to current and future concerns for sustainable and climate sensitive crops

Metallic, Magnetic, and Carbon-Based Nanomaterials Ajit Khosla, Irshad A. Wani, Mohammad N. Lone, 2024-11-27

A comprehensive guide to an explosively popular and transformative technology Nanotechnology has revolutionized the manipulation of matter at the molecular level with extraordinary consequences for a huge range of technological and scientific fields Metallic magnetic and carbon based nanomaterials have been at the forefront of this revolution with their impact felt especially strongly in biomedical industries The future of drug delivery imaging diagnostics and more will be transformed by nanotechnology and its ever growing applications Metallic Magnetic and Carbon Based Nanomaterials offers a comprehensive introduction to these materials and their recent developments Beginning with the foundational concepts of nanotechnology its characterization and its methods the book moves through major categories of nanotechnology in turn Detailed discussion of applications and future areas of research rounds out an indispensable volume Metallic Magnetic and Carbon Based Nanomaterials readers will also find Fully up to date data on major nanotechnology synthesis techniques Detailed discussion of nanotechnologies including quantum dots magnetic nanoparticles graphene and many more Analysis of applications including tumor biology investigation in vivo animal imaging and others Metallic Magnetic and Carbon Based Nanomaterials is ideal for graduate students in pharmaceutical sciences biomedical engineering and materials sciences It is also a useful reference book for researchers working in the areas of biomedical engineering and nanomaterials synthesis as well as those working in toxicology especially nanotoxicology

Photon Management in Solar Cells Ralf B. Wehrspohn, Uwe Rau, Andreas Gombert, 2016-03-09

Written by renowned experts in the field of photon management in solar cells this one stop reference gives an introduction to the physics of light management in solar cells and discusses the different concepts and methods of applying photon management The authors cover the physics principles concepts technologies and methods used explaining how to increase the efficiency of solar cells by splitting or modifying the solar spectrum before they absorb the sunlight In so doing they present novel concepts and materials allowing for the cheaper more flexible manufacture of solar cells and systems For educational purposes the authors have split the reasons for photon management into spatial and spectral light management Bridging the gap between the photonics and the photovoltaics communities this is an invaluable reference for materials scientists physicists in industry experimental

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