

INTERFACE SCIENCE AND TECHNOLOGY

# Nanoparticle Technologies: From Lab to Market

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Farid Bensebaa Ph.D



# Nanoparticle Technologies Volume 19 From Lab To Market Interface Science And Technology

**Simo Olavi Pehkonen, Shaojun Yuan**



## **Nanoparticle Technologies Volume 19 From Lab To Market Interface Science And Technology:**

Nanoparticle Technologies Farid Bensebaa, 2012-12-31 This book is a good introductory work to nanoparticle technology. It consists of nine complementary chapters that can be read independently. This book covers promising nanoparticles fabrication technologies with a focus on scalable processes. Integration of nanoparticles into 2D and 3D structures are covered in detail. The most promising applications of nanoparticles in the energy, optoelectronic and biomedical sectors are summarized and discussed. Current issues and challenges related to nanoparticles production and utilisation are also discussed in the book. Complete and simple overview of the field. Contains practical examples that makes the book also accessible for industrialists, engineers and managers. Chapters can be read relatively independently so experienced researchers can go directly to the theme of interest. Advantages, drawbacks and challenges are described with practical examples.

Chemistry of Modified Oxide and Phosphate Surfaces: Fundamentals and Applications Robson Fernandes de Farias, 2023-09-26 Chemistry of Modified Oxide and Phosphate Surfaces: Fundamentals and Applications Second Edition. Volume 17 presents an updated overview of the surface chemistry of modified oxides and phosphates. The book focuses on their potential applications and provides a fundamental understanding and explanation of significant developments. This new edition extensively updates and expands existing chapters with more recent examples and applications such as bulk and surface modifications. In addition, it adds two new chapters on both the formulation of solid propellants for rockets and missiles and medical applications. This book will serve as an effective starting point for anyone wanting to understand the subject in greater depth. It will appeal to advanced undergraduate and postgraduate students of chemistry, chemical engineering, materials science and engineering as well as researchers and the industry sector. Overviews fundamental surface chemistry and applications of modified oxides and phosphates. Clearly describes synthesis routes, presents current applications and suggests possible future applications of these classes of compounds. Includes extensively updated and expanded chapters in this new edition. Presents two completely new chapters on key topics including the formulation of solid propellants and medical applications.

**An Introduction to Green Nanotechnology** Mahmoud Nasrollahzadeh, Mohammad S. Sajadi, Monireh Atarod, Mohaddeseh Sajjadi, Zahra Isaabadi, 2019-02-19 An Introduction to Green Nanotechnology. Volume 28 provides students, scientists and chemical engineers with an overview of several types of nanostructures, discusses the synthesis and characterization of nanostructures and provides applications of nanotechnology in daily life. The book offers a foundation to green nanotechnology by explaining why green nanotechnology is important. Covers biological sources in green nanotechnology, antioxidants, green nanostructures, mechanism, synthesis and characterization. The book ends with an evaluation of the risks of nanotechnology in human life and future perspectives. Introduces novel sources of plants having a high potential to be used as bio media to synthesize nanostructures. Provides phytochemical properties and antioxidant potential and their effects on stability, morphology and size of green nanostructures.

Includes a medicinal and technological comparison of green synthesized nanostructures to nano products from non green methods Uses accessible language avoiding complex concepts of mathematics biology and chemistry *Particles at Interfaces* Zbigniew Adamczyk, 2017-10-27 *Particles and Interfaces Interaction Deposition Structure* Volume 20 Second Edition unifies particle and protein adsorption phenomena by presenting recent developments in this growing field of nanoscience While experimental data is available in vast quantities there is a deficit in quality interpretation of that data This title provides such information emphasizing the basic physics behind practical problems thus empowering the reader to estimate relevant effects The book includes solved problems of particle transport under non linear conditions and their relevance to predicting protein adsorption including an entirely new chapter devoted to polyelectrolyte and protein adsorption at solid liquid and solid gas interfaces Unifies information from various fields such as electrostatics hydrodynamic colloid science and biophysics Presents information in a user friendly manner including computer aided graphics and schematic drawings Applies a phenomenological approach to the content and provides readily accessible reference data

Advanced Low-Cost Separation Techniques in Interface Science George Z. Kyzas, Athanasios C. Mitropoulos, 2019-08-24 *Advanced Low Cost Separation Techniques in Interface Science* Volume 30 helps scientists and researchers in academia and industry gain expert knowledge on how to use separation techniques at minimal cost and energy usage It handles a broad range of highly relevant topics including modern flotation techniques low cost materials in liquid and gas phase adsorption new trends in molecular imprinting graphenes in separation nanobubbles and biopolymers in interface science the reuse of biomaterials green techniques for wastewaters and modeling in environmental interfaces The book shows that these techniques can be both attractive for both research and industrial purposes It is intended for chemical engineers working in wastewater treatment industries membrane industries pharmaceutical industries textile or tanneries industries hybrid topic industries and energy industries Focuses on cost and energy saving separation techniques in interface science Discusses multiple techniques including flotation adsorption materials synthesis and more Combines in a single source separation techniques advanced methodologies and the low cost potential of the techniques Describes techniques that are attractive for both research and industrial purposes

**Adsorption: Fundamental Processes and Applications** Mehrorang Ghaedi, 2021-03-19 *Adsorption Fundamental Processes and Applications* Volume 33 in the *Interface Science and Technology Series* discusses the great technological importance of adsorption and describes how adsorbents are used on a large scale as desiccants catalysts catalyst supports in the separation of gases the purification of liquids pollution control and in respiratory protection Finally it explores how adsorption phenomena play a vital role in many solid state reactions and biological mechanisms as well as stressing the importance of the widespread use of adsorption techniques in the characterization of surface properties and the texture of fine powders Covers the fundamental aspects of adsorption process engineering Reviews the environmental impact of key aquatic pollutants Discusses and analyzes the importance of adsorption processes

for water treatment Highlights opportunity areas for adsorption process intensification Edited by a world leading researcher in interface science

**Theory of Electrophoresis and Diffusiophoresis of Highly Charged Colloidal Particles** Eric Lee, 2018-11-30 Theory of Electrophoresis and Diffusiophoresis of Highly Charged Colloidal Particles discusses the electrophoretic and diffusiophoretic motions of various colloidal entities such as rigid particles liquid droplets gas bubbles and porous particles focusing on the motion deterring double layer polarization effect pertinent to highly charged particles with the lowly charged ones serving as the limiting cases Boundary effects such as those from a cylindrical pore a solid plane or an air water interface are analyzed as well for the electrophoretic motion of the various particles considered Dynamic electrophoresis is also explored and treated The contents are suitable for researchers graduate students or senior college students with some basic background of colloid science and transport phenomena As there is no closed form analytical formula in general for the situation of highly charged particles the results are presented with extensive figures and plots as well as tables under various electrokinetic situations of interest to facilitate the possible use of interested readers Provides a reliable quantitative prediction of highly charged particles motion with easy to apply charts and in depth understanding of the underlying mechanisms Offers an extensive treatment of direct quantitative predication for non rigid systems such as porous particles liquid drops and gels which is especially valuable in proteins and DNA research Discusses highly charged systems with a nearby boundary of practical interests such as a pore a solid plane or an air water interface which is of vital interest in fields such as microfluidic operations and biomedical engineering Affords special attention to the polarization effect

Zeta Potential Andrei S. Dukhin, Renliang Xu, 2025-05-23 Zeta Potential Fundamentals Methods and Applications provides an up to date exploration of the principles and practice of zeta potential measurements Tailored for an interdisciplinary audience the book is invaluable for researchers engineers and students in fields like materials science chemistry and nanotechnology It delves into the role of zeta potential in complex heterogeneous liquids such as dispersions and emulsions and its significance in biomedical and industrial applications By offering comprehensive yet accessible coverage this book aims to bridge the educational gap and enhance understanding of this essential electric double layer characteristic In addition to covering fundamental principles the book emphasizes modern measurement methods including electrophoresis electroacoustics and streaming current It highlights the switch towards using zeta potential in formulation and quality control providing a thorough review of published research This allows readers to find data relevant to their projects The book is a crucial resource for those who wish to navigate the complexities of zeta potential applications ensuring precise and reliable results in their work Explains the fundamentals of the zeta potential concept and provides formulae based on well verified and widely accepted theoretical models for interfacial double layer and electrokinetic phenomena Introduces common technologies for characterizing zeta potential including the most widely used contemporary measuring methods and interpretation procedures for converting raw measured data into zeta potential Provides useful examples of

applications for a wide variety of R D and industrial fields      *Photocatalysis: Fundamental Processes and Applications* Mehrorang Ghaedi, 2021-03-19 *Photocatalysis Fundamental Processes and Applications* Volume 32 in the Interface Science and Technology Series discusses the fundamental aspects of photocatalysis and its process and applications to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon The book discusses the fundamental aspects of all applications together with their proper mechanisms thus providing essential information for deep research in the area of clean environment and green energy production Provides background on the fundamental and experimental processes of photocatalysis Covers photocatalysis and its impact on creating a clean environment and energy sources Applies photocatalysis to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon Edited by a world leading researcher in interface science      Stimuli Responsive Polymeric Membranes Mihir Kumar Purkait, Manish Kumar Sinha, Piyal Mondal, Randeep Singh, 2018-09-11 *Stimuli Responsive Polymeric Membranes* Smart Polymeric Membranes explains the fundamentals and advances in topics relating to the field of membrane science It elaborately explains concepts relating to stimuli responsive membranes with special importance given down to minute details Material selection preparation characterization and applications of various stimuli responsive membranes are extensively addressed and their relevance including examples is included The book covers history and development merits and demerits mechanisms of transport and fouling applicability of membranes to various diverse areas and preparation and characterization techniques of membranes Next the concept of fouling and its remedial actions is discussed Finally promising fields of research in the membrane science and future perspectives of membrane science field are explored Provides basic and advanced knowledge of smart membranes considering their morphological physicochemical and separation characteristics Written in a clear and lucid style keeping a diverse audience in mind Based on the state of art research of the authors      *Isotopes in Nanoparticles* Jordi Llop, Vanessa Gomez-Vallejo, 2016-03-30 Nanoparticles may be used in industrial processes incorporated into consumer products or applied as biomedical agents Isotopic radio labeling is one of the most powerful methods for nanoparticle tracing in experimental studies This book presents an introduction to some commonly used nanomaterials describes various methods with which they may      **Surface Science of Photocatalysis** Jiaguo Yu, Mietek Jaroniec, Chuanjia Jiang, 2020-03-31 *Surface Science of Photocatalysis* Volume 32 summarizes significant findings on the surface science behind various classic and novel photocatalysts for energy and environmental applications with special emphasis on important surface interface processes in photocatalysis such as interfacial charge transfer function of co catalysts and adsorption over photocatalyst surface This book timely and systematically reviews the state of the art of the surface science in semiconductor based photocatalysis serving as a useful reference book for both new and experienced researchers in this field      Self-Assembly Processes at Interfaces Vincent Ball, 2018-02-13 *Self Assembly Processes at Interfaces* Multiscale Phenomena provides the conceptual and unifying

view of adsorption self assembly and grafting processes at solid liquid and liquid gas interfaces also describing experimental methods where applicable An invaluable resource for post graduate students looking to bridge the gap between acquiring the field s existing knowledge and the creation of new insights the book recalls fundamental concepts giving rigorous but first principle based calculations and exercises and showing how these concepts have been used in recent research articles Readers will find guidelines on how best to start research in the field of surface chemistry with biological macromolecules and molecules able to undergo self assembly process at interfaces in the presence of a liquid along with discussions on the very fundamental aspects and applications using concepts of biomimetic chemistry By highlighting the interdisciplinary aspects of the field of self assembly at interfaces the book is an ideal resource for chemical engineers chemists physicists and biologists In addition important equations are demonstrated on the basis of fundamental concepts and overly complex mathematical developments are avoided Presents an interdisciplinary work that is ideal for chemical engineers chemists physicists and biologists Provides a unifying view of the field from fundamentals to methods and applications Includes concepts applicable at both solid liquid and liquid gas interfaces

**Graphene Surfaces** Karim Kakaei, Mehdi D. Esrafil, Ali Ehsani, 2018-10-09 Graphene Surfaces Particles and Catalysts focuses on the surface chemistry and modification of graphene and its derivatives from a theoretical and electrochemical point of view It provides a comprehensive overview of their electronic structure synthesis properties and general applications in catalysis science including their relevance in alcohols and their derivatives oxidation oxygen reduction hydrogen evolution energy storage corrosion protection and supercapacitors The book also covers emerging research on graphene chemistry and its impact Chemical engineers materials scientists electrochemists and engineers will find information that will answer their most pressing questions on the surface aspects of graphene and its effect on catalysis Serves as a time saving reference for researchers graduated students and chemical engineers Equips the reader with catalysis knowledge for practical applications Discusses the physical and electrochemical properties of graphene Provides the most important applications of graphene in electrochemical systems Highlights both experimental and theoretical aspects of graphene

Emerging Natural and Tailored Nanomaterials for Radioactive Waste Treatment and Environmental Remediation Changlun Chen, 2019-04-25 Emerging Natural and Tailored Nanomaterials for Radioactive Waste Treatment and Environmental Remediation Principles and Methodologies Volume 29 provides an overview of the most important radionuclide sources in the environment their interaction with environmental media and appropriate remediation techniques The book focuses on the assessment of radionuclide sorption behavior in contaminated sites and the synthesis of new materials for radionuclides remediation through sorption concepts Chapters investigate the main interaction mechanisms between toxic radioactive metal ions with natural and manmade materials natural clay minerals and oxides and novel nanomaterials such as ordered mesoporous silicas carbon nanotubes graphene and metal organic framework based materials Techniques and models discussed include kinetics analysis thermodynamic analysis surface complexation models

spectroscopic techniques and theoretical calculations Provides a systemic discussion on the interactions between toxic and radioactive metal ions and natural and manmade materials Helps to select the best approach to remove toxic radioactive metal ions from a surface Edited by a scientific authority in toxic radioactive metal ion interactions

**Rheology of Emulsions** Aleksandar M. M. Spasic, 2018-04-26 Rheology of Emulsions Volume 22 Electrohydrodynamics Principles studies phenomena at liquid liquid interfaces including finely dispersed particles or structures in particular emulsions double emulsions and biological cells The book considers the forces of electrical origin that participate in the physical events at liquid liquid interfaces taking into account electron transfer phenomenon and electrodynamics principles Topics covered are of interest to a broad range of scientists researchers and graduate students with a basic knowledge of physical chemistry electromagnetism fluid mechanics classical and quantum electrodynamics The implications and applications of the material presented in the book contribute to the advanced fundamental applied and engineering research of interfacial electroviscoelastic phenomena Features a multidisciplinary approach to electron transfer phenomena Introduces a new constitutive model of liquids and a theory of electroviscoelasticity Addresses a broad range of subject field examples that make it useful to various research communities

*Tailored Thin Coatings for Corrosion Inhibition Using a Molecular Approach* Simo Olavi Pehkonen, Shaojun Yuan, 2018-08-25 Tailored Thin Coatings for Corrosion Inhibition Using a Molecular Approach discusses the fundamentals and applications of various thin coatings for the inhibition of fouling and corrosion from a molecular perspective It provides the reader with a fundamental understanding of why certain coatings perform better than others in a given environment Surface analytical and electrochemical techniques in understanding the coating performance are emphasized throughout the book providing readers with a useful reference on how to pursue a systematic corrosion inhibitor R D program that involves the testing of coating performance using various currently available state of the art laboratory techniques Wherever relevant environmental considerations of the discussed coatings technologies are highlighted and discussed with current and upcoming regulatory trends put forth by different governmental organizations Provides atomic and molecular level understanding of tailored thin coatings for corrosion inhibition Discusses key steps in corrosion including the attachment of harmful substances to surfaces the fouling of surfaces and the initiation and propagation of corrosion on surfaces Written by leading experts in the field

**Charge and Energy Storage in Electrical Double Layers** Silvia Ahualli, Angel V. Delgado, 2018-11-28 Charge and Energy Storage in Electrical Double Layers presents the basic scientific concepts and implementation of procedures devised to obtain capacitive energy from changes in the potential of electrical double layers when the salinity of solutions is changed Capacitive deionization the closely connected reciprocal process is also considered The book covers the fundamentals of electrical double layers and ions transport in porous media the description of promising techniques of energy extraction and the practical problems involved in each It is written for scientists in academia and industry and for graduate students working in supercapacitors capacitive mixing and

deionization Provides a didactic presentation of the fundamentals of interface science involved in charge and energy storage processes Presents a pioneering overview of the application of the properties of solid solution interfaces to desalination and energy extraction Edited by leading specialists with vast experience in the theory and experimental characterization of charged interfaces

**Solid-State Sensors** Ambarish Paul, Mitradiip Bhattacharjee, Ravinder Dahiya, 2023-10-06 Solid State Sensors A thorough and up to date introduction to solid state sensors materials fabrication processes and applications Solid State Sensors provides a comprehensive introduction to the field covering fundamental principles underlying theories sensor materials fabrication technologies current and possible future applications and more Presented in a clear and accessible format this reader friendly textbook describes the fundamentals and classification of all major types of solid state sensors including piezoresistive capacitive thermometric optical bio chemical magnetic and acoustic based sensors Throughout the text the authors offer insight into how different solid state methods complement each other as well as their respective advantages and disadvantages in relation to specific devices and a variety of state of the art applications Detailed yet concise chapters include numerous visual illustrations and comparative tables of different subtypes of sensors for a given application With in depth discussion of recent developments current research and key challenges in the field of solid state sensors this volume Describes solid state sensing parameters and their importance in sensor characterization Explores possible future applications and breakthroughs in associated fields of research Covers the fundamental principles and relevant equations of sensing phenomena Discusses promising smart materials that have the potential for sensing applications Includes an overview of the history classification and terminology of sensors With well balanced coverage of the fundamentals of sensor design current and emerging applications and the most recent research developments in the field Solid State Sensors is an excellent textbook for advanced students and professionals in disciplines such as Electrical and Electronics Engineering Physics Chemistry and Biomedical Engineering

**Springer Handbook of Aerogels** Michel A. Aegerter, Nicholas Leventis, Matthias Koebel, Stephen A. Steiner III, 2023-10-01 This indispensable handbook provides comprehensive coverage of the current state of the art in inorganic organic and composite aerogels from synthesis and characterization to cutting edge applications and their potential market impact Built upon Springer's successful Aerogels Handbook published in 2011 this handbook features extensive revisions and timely updates reflecting the changes in this fast growing field Aerogels are the lightest solids known to man Up to 1000 times lighter than glass and with a density only four times that of air they possess extraordinarily high thermal electrical and acoustic insulation properties and boast numerous entries in Guinness World Records Originally based on silica R D efforts have extended this class of materials to incorporate non silicate inorganic oxides natural and synthetic organic polymers carbon metal and ceramic materials Composite systems involving polymer crosslinked aerogels and interpenetrating hybrid networks have been developed and exhibit remarkable mechanical strength and flexibility Even more exotic aerogels based on clays chalcogenides phosphides quantum dots and biopolymers

such as chitosan are opening new applications for the construction transportation energy defense and healthcare industries Applications in electronics chemistry mechanics engineering energy production and storage sensors medicine nanotechnology military and aerospace oil and gas recovery thermal insulation and household uses are being developed Readers of this fully updated and expanded edition will find an exhaustive source for all aerogel materials known today their fabrication upscaling aspects physical and chemical properties and the most recent advances towards applications and commercial use This key reference is essential reading for a combined audience of graduate students academic researchers and industry professionals

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