

Nanosilicon

Properties, Synthesis,
Applications, Methods of
Analysis and Control



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and
L. A. Aslanov



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Nanosilicon Properties Synthesis Applications Methods Of Analysis And Control

Ragini Singh, Santosh Kumar



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Nanosilicon Anatoly A. Ischenko, Gennady V. Fetisov, Leonid A. Aslalnov, 2014-07-23 Nanosilicon Properties Synthesis Applications Methods of Analysis and Control examines the latest developments on the physics and chemistry of nanosilicon. The book focuses on methods for producing nanosilicon, its electronic and optical properties, research methods to characterize its spectral and structural properties, and its possible applications. The first part of the book covers the basic properties of semiconductors, including causes of the size dependence of the properties, structural and electronic properties, and physical characteristics of the various forms of silicon. It presents theoretical and experimental research results, as well as examples of porous silicon and quantum dots. The second part discusses the synthesis of nanosilicon, modification of the surface of nanoparticles, and properties of the resulting particles. The authors give special attention to the photoluminescence of silicon nanoparticles. The third part describes methods used for studying and controlling the structure and properties of nanocrystalline silicon. These methods include standard ones such as electron microscopy, spectroscopy, and diffraction, as well as novel techniques such as femtosecond spectroscopy, ultrafast electron nanocrystallography, and dynamic transmission electron microscopy. The fourth part details some of the practical applications of nanocrystalline silicon, including the use of nanoparticles as additives, absorbers of UV radiation in sunscreens. Incorporating much of the authors' own extensive research results, this book provides a systematic account of the scientific problems of nanosilicon and its potential practical applications. It will help readers understand current and emerging applications and research methods of this unique material.

Nanosilicon Anatoly A. Ischenko, Gennady V. Fetisov, Leonid A. Aslalnov, 2014-07-23 Nanosilicon Properties Synthesis Applications Methods of Analysis and Control examines the latest developments on the physics and chemistry of nanosilicon. The book focuses on methods for producing nanosilicon, its electronic and optical properties, research methods to characterize its spectral and structural properties, and its possible applic

Solid State Composites and Hybrid Systems
Rada Savkina, Larysa Khomenkova, 2018-09-03 Solid state composites and hybrid systems offer multifunctional applications in various fields of human life, demonstrating solutions to the key problems of the environment, human health, biology, medicine, electronics, energy harvesting, and storage. Exploring this innovative field of research, this book details the wide range of materials, techniques, and approaches utilised in composite and hybrid structures in recent years. It will be of interest not only for experienced researchers but also for postgraduate students and young researchers entering the fields of nanoscience, material sciences, and bioengineering. Features: Contains the latest research developments in the materials, techniques, patents, and approaches in the field. Includes both fundamental aspects and applied research. Edited by two highly experienced researchers.

Advances in Imaging and Electron Physics, 2014-04-14 Advances in Imaging Electron Physics merges two long running serials Advances in Electronics, Electron Physics, and Advances in Optical Electron Microscopy. The series features extended articles on the physics of electron devices, especially semiconductor devices, particle

optics at high and low energies microlithography image science and digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contributions from leading authorities Informs and updates on all the latest developments in the field Nanoparticles in the Management of Atherosclerosis Sourabh Mehta, 2025-01-29 The book's primary objective is to introduce the pathology and physiology of atherosclerosis in brief and its diagnosis and treatment Atherosclerosis is an inflammatory disease of the arterial wall An advanced understanding of atherosclerosis shows that it leads to myocardial infarction and other cardiovascular diseases taking 17 million people every year worldwide The literature suggests that atherosclerosis is an ancient disease and is still a long standing health problem globally Hence early diagnosis and treatment of atherosclerosis are crucial to solving long standing health issues This book provides a systemic summary of recent literature focusing on disease pathology advancement in diagnosis and therapies Recently nanoparticles performing dual roles as diagnostic and therapeutic agents have been keenly interested However the nanoparticle has yet to reach the clinic Understanding the role of biomaterials in formulations and existing strategies is critical when developing novel formulations and working on translation to clinical settings The book provides a systematic biomaterial based summary of the literature methods used to formulate nanoparticles and their scale up potential Another key objective of the book is to motivate the reader to conduct research on theranostic nanoparticles to treat atherosclerosis and put us one step closer to solving a long standing health problem atherosclerosis The auto summaries have been generated by a recursive clustering algorithm via the Dimensions Auto summarizer by Digital Science handled by Subject Matter Experts and the external editor The editor of this book selected which SN content should be auto summarized and decided its order of appearance Please be aware that the auto summaries consist of original sentences but are not representative of its original paper since we do not show the full length of the publication Please note that only published SN content is represented here and that machine generated books are still at an experimental stage **Nanofertilizer Synthesis: Methods and Types** Kamel A Abd-Elsalam, 2024-02-29 Nano Fertilizer Synthesis and Types discusses the production of a variety of nano fertilizers including biological chemical and mechanical types Nano fertilizers aid in nutrition control by increasing nutrient consumption efficiency as nutrients are bonded to nano dimensional adsorbents which in turn release nutrients considerably more slowly than traditional fertilizers As the nano fertilizer sector advances one approach is to concentrate on macro elements N P K as switching to nano fertilizers may result in significant environmental benefits by replacing the majority of these nutrients Furthermore the biosynthesis of nanomaterials employing bacteria algae yeast fungus actinomycetes and plants has opened up a new field of study for the creation of inorganic nanoparticles as environmentally benign fertilizers Because of the several fold increase in the surface to volume ratio of nano forms of nutrients and their appropriateness for foliar application where environmental losses are further decreased nano fertilizers may achieve higher efficiency However before nano fertilizers are manufactured and

commercialized further research should be conducted to assess their impact for both humans and the environment While there are some nano fertilizer products available the nano fertilizer production industry still requires additional public and private sector support and development Nano Fertilizers Synthesis and Types presents the latest information highlights the benefits and impacts of each and provides a single volume resource to help effectively and efficiently identify options based on use case Exploring the topic from the various mechanistic types to the relevant regulatory safety and economic aspects this volume will be appropriate for those working with and researching new nano fertilizers Guides in the identification of appropriate nano fertilizer options based on use case Addresses both target plant and environmental considerations Includes economic and regulatory insights Recent Innovations in Sciences and Humanities M. Priya,V. Anandan,2025-03-14 The Conference covered a wide range of themes in various disciplines In the field of English the conference focused on digital tools in teaching and learning the use of AI in language teaching and learning literature in English language teaching teacher training and professional development as well as linguistic competence in English language teachers For those interested in mathematics the conference explored topics such as computational methods for linear and non linear optimization mathematical models for computer science numerical analysis boundary value problems real and complex analysis probability and statistics fluid dynamics sequence spaces mathematics education applied mathematics differential equations and game theory In the field of physics the conference delved into materials science and engineering functional materials computational materials science nanomaterials and nanotechnology structural materials photonic materials engineering biomaterials biomechanics and biosensors Lastly in the field of chemistry the conference discussed materials chemistry composite coating and ceramic materials soft matter and nanoscale materials energy systems and materials functional thin film materials nanostructures and nanofilms polymers and biopolymers as well as surface science and engineering

Nanotechnology Advancement in Agro-Food Industry Ragini Singh,Santosh Kumar,2023-08-24 This book provides a comprehensive insight into the growth of nanotechnology in the agri food industry Currently nanotechnology serves as the most promising means to resolve the issues encountered in the food sector as it enables the production of high quality food with exceptional characteristics such as extended shelf life flavor freshness and high nutritional content This book focuses on the applications of nanotechnology in various fields such as smart packaging processing and preservation of food It also emphasizes the role of nanomaterials in strategic design of nutraceuticals and functional foods Along with providing an overview of the innovations and application this book also describes future perspectives and offers insights to ensure consumer confidence in terms of safe use In this context the application of nanomaterials as nanosensors is additionally covered The book provides readers with a deep knowledge regarding nanomaterials based biosensors colorimetric electrochemical fiber based for detection of pathogens in contaminated food Factors affecting risk assessment regulations and safety concerns regarding the use of nanomaterials in food industry have also been discussed in detail Given its scope

this book appeals to a wider readership especially for researchers and students who work in food agronomy and nanomaterials and nanotechnology related fields **Plant Exposure to Engineered Nanoparticles** Cyren Rico,2022-07-20

Plant Exposure to Engineered Nanoparticles Uptake Transformation Molecular and Physiological Responses discusses the long term exposure of plants including agronomic crops to nanomaterials in terrestrial environments Chapters discuss changes in metabolite profiles in plants exposed to engineered nanomaterials as well as modifications in elemental content of edible portions of plants Biochemical pathways root profiles generational exposure and biomass productivity are also analyzed in detail Subsequent chapters cover risks to trophic transfer as well as human health and ecological functions before concluding with future approaches to plant nanomaterial research The book covers important aspects of the interactions between plant and nanomaterials and will be a valuable resource to scientists and researchers in plant physiology nanotechnology agronomy and environmental science Analyzes research on environmental and ecological implications of nanomaterials in plants Includes the latest information on toxicity and human exposure Reviews modifications and alterations in plant expressions and biochemical pathways *Advances in Nano-Fertilizers and Nano-Pesticides in Agriculture* Sudisha Jogaiah,Harikesh Bahadur Singh,Leonardo Fernandes,Renata De Lima,2020-12-01

Advances in Nano Fertilizers and Nano Pesticides in Agriculture explores the use of nanotechnology as it provides new approaches for the controlled delivery of pesticides herbicides and fertilisers to improve safety of products with increasing the efficiency of food production and decreased environmental pollution The development of nanodevices such as smart delivery systems to target specific sites as well as nanocarriers for chemical controlled release are currently important aspects in novel agriculture and require a strong foundation of understanding not only the technology but the resulting impacts Fills key knowledge gaps of bio nanotechnology how they interact with plant cells and their biological consequences Focused on the agro nanotechnology which can be utilized for developing healthy seeds Explores the possibilities of macronutrient nano based fertilizers

Nanoscience and Nanotechnology in Foods and Beverages Vellaichamy Chelladurai,Digvir S. Jayas,2018-11-15

Potential applications of nanotechnology in food industry include encapsulation and delivery of substances in targeted sites increasing flavor introducing antibacterial nanoparticles into food enhancing shelf life sensing contamination improved food storage tracking tracing and brand protection This book provides a basic understanding of the nanoscience and nanotechnology and their applications to different food industry sectors covering both benefits and drawbacks using nanotechnology in food processing and discussing the development of an international regulatory framework **Plant Growth-Promoting Microbes for Sustainable Biotic and Abiotic Stress Management** Heba I. Mohamed,Hossam El-Din Saad El-Beltagi,Kamel A. Abd-Elsalam,2021-05-02

Abiotic and biotic stress factors including drought salinity waterlog temperature extremes mineral nutrients heavy metals plant diseases nematodes viruses and diseases adversely affect growth as well as yield of crop plants worldwide Plant growth promoting microorganisms PGPM are receiving increasing attention

from agronomists and environmentalists as candidates to develop an effective eco friendly and sustainable alternative to conventional agricultural e g chemical fertilizers and pesticide and remediation e g chelators enhanced phytoremediation methods employed to deal with climate change induced stresses Recent studies have shown that plant growth promoting bacteria PGPB rhizobia arbuscular mycorrhizal fungi AMF cyanobacteria have great potentials in the management of various agricultural and environmental problems This book provides current research of biofertilizers and the role of microorganisms in plant health with specific emphasis on the mitigating strategies to combat plant stresses *Nano-enabled Agrochemicals in Agriculture* Mansour Ghorbanpour, Muhammad Adnan Shahid, 2022-03-12 Nano Enabled Agrochemicals in Agriculture presents a targeted overview of the safe implementation of nanotechnologies within agricultural and horticultural settings with the purpose of achieving enhanced production while maintaining ecological integrity The growing global request for agricultural crops and products requires high standards of quality and safety which has stimulated the search for new technologies that preserve their quality and delay their decomposition Nanotechnology may boost plant production by improving nutrient uptake use efficiency with nanoformulations of fertilizers and agrochemicals for plant enhancement detection and treatment of diseases and host parasite interactions at the molecular level using nanosensors It also may improve plant disease diagnostics removal of contaminants from soil and water postharvest management of vegetables and flowers and reclamation of salt affected soils Although the markets for nanoproducts and nanoformulations continue to increase there are also growing concerns regarding the fate and behavior of nanomaterials in environmental systems Exploring important topics related to nanotechnology and nanomaterials the book includes the use of nanochemicals in insect pest management as nanofungicides nanoherbicides micronutrient supply and nanosensors to monitor crop and soil health conditions from detection of agrochemicals to their slow release of agrochemicals and their impact on related environs This book will serve as an excellent resource for a wide range of plant scientists who have concerns about nanomaterial interactions with terrestrial and aquatic plants Focuses on emerging important topics related to nanotechnology and nanomaterials on agricultural systems Emphasizes new applications of nanomaterials in the agricultural sciences from fertilizers to irrigation systems Addresses concerns about nanomaterial interactions with terrestrial and aquatic plants

Handbook of Photosynthesis Mohammad Pessarakli, 2024-07-31 The Fourth Edition of the Handbook of Photosynthesis offers a unique and comprehensive collection of topics in the field of photosynthesis serving as an invaluable resource in this field With contributions from 95 scientists and experts from over 20 countries this volume has been divided into 13 parts each serving independently to facilitate the understanding of the material FEATURES Presents comprehensive information on photosynthesis under normal and environmental stress conditions Covers artificial photosynthesis and its future related issues Contains 25 new chapters and 18 extensively revised and expanded chapters Includes three new sections Influence of Nanoparticles on Photosynthesis Protection of Photosynthesis System and Stress Alleviation Strategies by Photosynthates

Manipulations and Photosynthesis Efficiency in Plants under Multiple Abiotic and Biotic Stressors and Artificial Photosynthesis and Its Future Contains numerous tables figures illustrations and case studies to facilitate the comprehension of the material as well as thousands of index words A primary resource in its field Handbook of Photosynthesis Fourth Edition provides a comprehensive resource for researchers academics and for university courses with the information as a valuable source to plan implement and evaluate strategies for dealing with photosynthesis issues *Dissertation Abstracts International* ,2001 *The British National Bibliography* Arthur James Wells,2002 Silicon Nanocrystals Lorenzo Pavesi,Rasit Turan,2010 **Fundamentals and Applications of Nano Silicon in Plasmonics and Fullerines** Munir H. Nayfeh,2018-06-29 Fundamentals and Applications of Nano Silicon in Plasmonics and Fullerines Current and Future Trends addresses current and future trends in the application and commercialization of nanosilicon The book presents current innovative and prospective applications and products based on nanosilicon and their binary system in the fields of energy harvesting and storage lighting solar cells and nano capacitor and fuel cell devices and nanoLEDs electronics nanotransistors and nanomemory quantum computing photodetectors for space applications biomedicine substance detection plasmonic treatment of disease skin and hair care implantable glucose sensor capsules for drug delivery and underground water and oil exploration and art glass and pottery Moreover the book includes material on the use of advanced laser and proximal probes for imaging and manipulation of nanoparticles and atoms In addition coverage is given to carbon and how it contrasts and integrates with silicon with additional related applications This is a valuable resource to all those seeking to learn more about the commercialization of nanosilicon and to researchers wanting to learn more about emerging nanosilicon applications Features a variety of designs and operation of nano devices helping engineers to make the best use of nanosilicon Contains underlying principles of how nanomaterials work and the variety of applications they provide giving those new to nanosilicon a fundamental understanding Assesses the viability of various nanosilicon devices for mass production and commercialization thereby providing an important source of information for engineers **Investigations Into Size and Surface Control of Silicon Nanocrystals for Improved Optical Properties** ,2021 The discovery of visible photoluminescence PL from nanocrystalline porous silicon in 1990 led to extensive research into the mechanisms of the emergent properties and optimization of these properties for use in applications The widespread use of silicon nanoparticles Si NPs in commercial applications is currently limited by three main factors 1 poor radiative recombination efficiency of the interband transition 2 instability of the interband photoluminescence and 3 a lack of scalable methods for producing Si NPs that are both highly crystalline and size monodisperse To address these limitations this dissertation correlates changes in the photoluminescence properties of hydrogen passivated silicon nanoparticles H Si NPs with changes in the surface structure as well as develops new synthesis methodology to produce larger more crystalline Si NPs **Nanosilicon** Vijay Kumar,2008 Properties of nanosilicon in the form of nanoparticles nanowires nanotubes and as porous material are of great interest They can be used

in finding suitable components for future miniature devices and for the more exciting possibilities of novel optoelectronic applications due to bright luminescence from porous silicon nanoparticles and nanowires. New findings from research into metal encapsulated clusters, silicon fullerenes and nanotubes have opened up a new paradigm in nanosilicon research and this could lead to large scale production of nanoparticles with control on size and shape as well as novel quasi one dimensional structures. There are possibilities of using silicon as an optical material and in the development of a silicon laser. In this book leading experts cover state of the art experimental and theoretical advances in the different forms of nanosilicon. Furthermore applications of nanosilicon to single electron transistors as photonic material, chemical and biological sensors at molecular scale and silicon nanowire devices are also discussed. Self assemblies of silicon nanoforms are important for applications. These developments are also related to cage structures of silicon in clathrates. With an interesting focus on the bottlenecks in the advancement of silicon based technology, this book provides a much needed overview of the current state of understanding of nanosilicon research. Latest developments in nanoparticles, nanowires and nanotubes of silicon. Focus on nanosilicon, a very timely subject attracting large interest. Novel chapters on metal encapsulated silicon clusters and nanotubes.

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