



Frontiers of Multifunctional Nanosystems

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Frontiers Of Multifunctional Nanosystems

Valentin N. Popov, Philippe Lambin



Frontiers Of Multifunctional Nanosystems:

Frontiers of Multifunctional Nanosystems Eugenia V. Buzaneva, Peter Scharff, 2002-05-31 Proceedings of the NATO Advanced Research Workshop on Frontiers in Molecular Scale Science and Technology of Fullerene Nanotube Nanosilicon Biopolymer DNA Protein Multifunctional Nanosystems Kyiv Ukraine 9-12 September 2001 *Quantum Mechanical First Principles Calculations of the Electronic and Magnetic Structure of Fe-Bearing Rock-Forming Silicates* Danylo Zhrebetskyi, 2010 The focus of this thesis is the study of the electronic and magnetic structure of three representative members of Fe-bearing rock-forming silicates viz orthoferrosilite $\text{Fe}_2\text{Si}_2\text{O}_6$ almandine $\text{Fe}_2\text{Al}_2\text{SiO}_4$ and andradite $\text{Ca}_3\text{Fe}_3\text{Si}_3\text{O}_{12}$ These minerals have attracted significant attention due to their abundance in the Earth's crust and mantle and because crystallised silicates are main components of cosmic dust which is the most abundant raw material in the Universe For this purpose quantum mechanical first principles electronic structure calculations are performed by the most efficient DFT method in the local spin density approximation for calculating spectroscopic data the spin polarized self-consistent charge X α method The specific feature and strength of these investigations consist in the theoretical characterization of these complex systems based on experimental results This means that on one hand experimental spectroscopic and crystallographic data are being used to judge the reliability of the calculations whereas on the other hand experimental data are interpreted and explained by the theoretical results This work comprises seven chapters After a brief introduction Chapter 1 Chapter 2 describes the theoretical bases ideas approximations and advantages of the SCC X α method and basics of the art of cluster construction Chapter 3 considers physical bases of crystal field theory absorption Mossbauer spectroscopy and magnetic interactions as well as the calculation of spectroscopic data within the frame of the SCC X α method In addition tetragonally trigonally and angularly distorted octahedral sites with various degrees of the distortions are calculated and analyzed The electronic and magnetic structures of orthoferrosilite almandine and andradite are described in the following chapters In the case of orthoferrosilite the magnetic interactions between the iron spins within the ribbons and between neighboring ribbons are characterized Two identical interpenetrating magnetic sublattices of circles of 10 edge-shared dodecahedra are revealed and characterized in almandine The calculated spin structure explains and solves the controversy in the interpretation of the Mossbauer spectra of almandine below the Neel temperature For andradite a model of the magnetic structure is proposed based on geometrical considerations and the calculated spin coupling constants for the various interaction pathways According to this model the magnetic structure of andradite consists of two frustrated equivalent magnetic sublattices The spins of the Fe ions within each sublattice are coupled antiferromagnetically The derived spin pattern explains two sextets in the Mossbauer spectra of andradite below the Neel temperature Finally the main results are summarized in Chapter 7 Cell Biology and Instrumentation Yaroslav Blume, D. J. Durzan, Petro Smertenko, 2006 Cellular processes signaled by UV radiation contribute to the behavior of plants under various stresses in the environment

This book aims to introduce developments and instrumentation for cell biology to update our understanding of the effects of UV radiation and to evaluate how plants use UV signals to protect against damage Computational Approaches in Biomedical Nano-Engineering Ayesha Sohail,Zhiwu Li,2019-01-14 This book comprehensively and systematically treats modern understanding of the Nano Bio Technology and its therapeutic applications The contents range from the nanomedicine imaging targeted therapeutic applications experimental results along with modelling approaches It will provide the readers with fundamentals on computational and modelling aspects of advanced nano materials and nano technology specifically in the field of biomedicine and also provide the readers with inspirations for new development of diagnostic imaging and targeted therapeutic applications *Molecular Plasmonics* Volodymyr I. Chegel,Andrii M. Lopatynskyi,2020-11-18 This book summarizes the results of studies of molecules and molecular complexes using techniques based on surface plasmon resonance SPR in a novel scientific direction called molecular plasmonics It presents the current state of investigations in the field of molecular plasmonics and discusses its two main physical phenomena surface plasmon polariton resonance SPPR and localized SPR LSPR Among the mathematical methods for the calculation of plasmonic systems response the book emphasizes models based on the transfer matrix method Green function formalism Mie scattering theory and numerical methods It considers the possibilities of the SPPR technique for registering conformational changes surface plasmon mediated photopolymerization electrochemical processes as well as reversible optoelectronic and physicochemical properties during investigation of molecular systems It describes applications of the LSPR method including creation of metamaterials surface enhanced fluorescence and bio and chemosensing using noble metal nanoparticles in colloidal array and composite polymeric film formats It also highlights the development and applications of plasmonic nanochips **Nanocrystals** Yoshitake Masuda,2010-10-06 This book contains a number of latest research developments on nanocrystals It is a promising new research area that has received a lot of attention in recent years Here you will find interesting reports on cutting edge science and technology related to synthesis morphology control self assembly and application of nanocrystals I hope that the book will lead to systematization of nanocrystal science creation of new nanocrystal research field and further promotion of nanocrystal technology for the bright future of our children *Portable Chemical Sensors* Dimitrios P. Nikolelis,2012-02-02 Biosensors are making a large impact in environmental food biomedical and other applications In comparison to standard analytical detection methods such as minimal sample preparation and handling they offer advantages including real time detection rapid detection of the analytes of concern use of non skilled personnel and portability The aim of this book is to focus on research related to the rapid detection of agents and weapons of bioterrorism and provide a comprehensive review of the research topics most pertinent to advancing devices applicable to the rapid real time detection of toxicants such as microbes pathogens toxins or nerve gases The ongoing war on terrorism and the rising security concerns are driving the need for newer faster biosensors against bio warfare agents for both military

and civil defence applications The volume brings together contributions from the most eminent international researchers in the field covering various aspects of work not so far published in any scientific journal and often going beyond the state of art Readers of these review articles will learn new technological schemes that can lead to the construction of devices that will minimize the risk of bio terrorism

Diamond and Related Nanostructures Mircea Vasile Diudea, Csaba Levente Nagy, 2013-05-28 Over the past twenty years the field of carbon structures has been invigorated by the discovery of fullerenes and carbon nanotubes These nano structured carbons have attracted a tremendous interest in the fundamental properties of discrete carbon molecules leading to the discovery of novel complex crystalline and quasi crystalline materials As a consequence a variety of applications have been developed including technical and bio medical materials and miniaturized tools Diamond and Related Nanostructures focuses on the advances in the area of diamond like carbon nanostructures hyper structures built from fullerenes and or carbon nanotube junctions and other related carbon nanostructures Each chapter contributes to the topic from different fields ranging from theory to synthesis and properties investigation of these new materials This volume brings together the major findings in the field and provides a source of inspiration and understanding to advanced undergraduates graduates and researchers in the fields of Physics Graph Theory Crystallography Computational and Synthetic Chemistry

Frontiers in Drug Design & Discovery Atta-ur-Rahman ,M. Iqbal Chaudhary, 2016-05-18 Frontiers in Drug Design and Discovery is an eBook series devoted to publishing the latest and the most important advances in drug design and discovery Eminent scientists have contributed chapters focused on all areas of rational drug design and drug discovery including medicinal chemistry in silico drug design combinatorial chemistry high throughput screening drug targets and structure activity relationships This eBook series should prove to be of interest to all pharmaceutical scientists who are involved in research in drug design and discovery and who wish to keep abreast of rapid and important developments in the field The seventh volume of this series brings together seven reviews covering chemotherapeutic agents antimicrobials and phytochemicals Some topics included in this volume are 1 Metabolic pathways and chemotherapy drugs 2 Cardiotoxicity of cancer chemotherapy 3 Nanotherapeutics for infectious diseases 4 Natural sources of angiogenesis inhibitors and much more

Practical Aspects of Computational Chemistry III Jerzy Leszczynski, Manoj K. Shukla, 2014-04-23 Theoretical and Computational Chemistry research has made unparalleled advancements in understanding every expanding area of science and technology This volume presents the state of the art research and progress made by eminent researchers in the area of theoretical computational chemistry and physics The title mirrors the name of the annual international conference Conference on Current Trends on Computational Chemistry CCTCC which has become a popular discussion ground for eminent Theoretical and Computational Chemists and has been honored by the presence of several Nobel Laureates Practical Aspects of Computational Chemistry III is aimed at theoretical and computational chemists physical chemists material scientists and those who are eager to apply computational chemistry

methods to problems of chemical and physical importance The book is a valuable resource for undergraduate graduate and PhD students as well as established researchers

Carbon Nanotubes: From Basic Research to Nanotechnology

Valentin N. Popov,Philippe Lambin,2006-04-03 The book comprises reviews on various topics of carbon nanotube research from specialists in the field together with reports on on going research Both are intended to give a detailed picture of the remarkable properties of these one dimensional nanostructures Particular attention is paid to the synthesis characterization properties and application of nanotubes The book will be an indispensable introduction for the newcomers in the field as well as a valuable update for researchers in the field for it contains the most recent developments

Polymer/Fullerene

Nanocomposites Ayesha Kausar,2023-01-10 Polymer Fullerene Nanocomposites Design and Applications synopsizes state of the art essentials and versatile inventions in polymers and fullerenes derived nanocomposites As the design fabrication and exploration of polymeric materials with fullerenes in advanced nanomaterials is progressing quickly because of their unique combination of properties including optical electronic electrical mechanical thermal photovoltaic sensing shape memory capacitive antimicrobial and other applications this book fills a void in literature compilation and assessment for a field still in its infancy The introductory chapter of this manuscript provides a comprehensive update on the fundamentals and applications of fullerenes with following chapters revealing the properties and essential aspects of polymeric nanocomposites Reconnoiters state of the art of fullerenes Focuses on fullerene nano additives developing covalent interactions and physical dispersion with conjugated polymers and other polymeric matrices Emphasizes fullerene nanowhisker and nanoball nanofillers in nanocomposites Unfolds advanced applications of polymer fullerene nanomaterials in stimuli responsive systems optoelectronic devices photovoltaics light emitting diodes and optical sensors fuel cells supercapacitors and biomedical fields

Nanotechnological Approaches in Food Microbiology

Sanju Bala Dhull,Prince Chawla,Ravinder Kaushik,2020-12-27 Nanotechnology has gained attention in all aspects of modern science having vital applications in the food chain storage quality monitoring processing preservation and packaging The global population is increasing rapidly therefore there is a requirement to produce food products in a more proficient non toxic and sustainable way Food scientists and microbiologists are interested in food safety and quality assurance to produce excellent quality food free of food pathogens Nanotechnological Approaches in Food Microbiology provides a systematic introduction and comprehensive information about practical approaches and characteristic features related to the significant applications of nanotechnology in food microbiology including nano starch films nanoemulsions biogenic nanoparticles and nanocapsules The book will explore details about metal nanoparticle synthesis characterization mathematical modeling kinetic studies and their antimicrobial approaches Key Features Includes comprehensive knowledge on metal nanoparticle synthesis characterization mathematical modeling kinetic studies and their antimicrobial approaches Lays out concepts of essential oil nanoemulsion and their potential antimicrobial applications Deals with the latest development in nano starch composite biofilms containing

bioactive constituents to inhibit pathogenic microbes Explores the nanocapsules as potential antimicrobial agents in food Provides information regarding new biogenic nano antimicrobials developed for the food safety and quality assurance This book will educate readers on the aspects of nanotechnology in food safety and quality assurance Nanoemulsions nanohydrogels metal nanoparticles nano starch films nanocapsules and nano antimicrobials are the emerging essentials of nanotechnology that are used to preserve the food at greater extent This book should be of interest to a large and varied audience of researchers in academia industry food processing preservation packaging microbiology and policy regulations

Molecular Simulation Studies in Material and Biological Sciences Kholmurzo Kholmurodov, 2007 Book CD Computer molecular simulations of complex multi particle systems play a fascinating role in fundamental physics biochemical and life sciences Having an increasingly significant impact on many applied industries especially in modern biophysical and nanotechnological areas molecular simulation provides a set of tools for predicting many functional properties of molecular systems The chemical pharmaceutical materials and related industries all share the computer molecular simulation methods The molecular simulation studies cover different fields of either biological processes protein folding and electron densities of DNA and proteins or thin film formations and surface cluster phenomena in nanoelectronics synthetic copolymers and biopolymer design in biochemistry so on Practically all of the world's present supercomputers and many specially developed high performance computing clusters over the world are performing molecular simulations or are aimed on these needs This book presents leading international research in this dynamic field

Portable Biosensing of Food Toxicants and Environmental Pollutants Dimitrios P. Nikolelis, Theodoros Varzakas, Arzum Erdem, Georgia-Paraskevi Nikoleli, 2013-10-21 Biosensors are poised to make a large impact in environmental food and biomedical applications as they clearly offer advantages over standard analytical methods including minimal sample preparation and handling real time detection rapid detection of analytes and the ability to be used by non skilled personnel Covering numerous applications of biosensors used in food and the environment Portable Biosensing of Food Toxicants and Environmental Pollutants presents basic knowledge on biosensor technology at a postgraduate level and explores the latest advances in chemical sensor technology for researchers By providing useful state of the art information on recent developments in biosensing devices the book offers both newcomers and experts a roadmap to this technology In the book distinguished researchers from around the world show how portable and handheld nanosensors such as dynamic DNA and protein arrays enable rapid and accurate detection of environmental pollutants and pathogens The book first introduces the basic principles of biosensing for newcomers to the technology It then explains how the integration of a receptor can provide analytically useful information It also describes trends in biosensing and examines how a small sized device can have portability for the in situ determination of toxicants The book concludes with several examples illustrating how to determine toxicants in food and environmental samples

Nanocarriers for Brain Targeting Raj K. Keservani, Anil K. Sharma, Rajesh K. Kesharwani, 2019-08-05 This new volume

Nanocarriers for Brain Targeting Principles and Applications covers recent research on brain physiology and the development of drug delivery systems It explores a diverse variety of strategies that can be employed to achieve drug targeting to the brain The nanocarriers that are discussed include nanoparticles vesicular carriers carriers having carbon as a core constituent dispersed systems and more The inherent anatomy and physiology of the brain renders it different from other organs The past few decades have witnessed significant research on brain ailments in response to a majority of hospitalizations that occur due to age related central nervous system disorders The prevalence of diverse diseases such as Alzheimer s disease Parkinson s disease amyotrophic lateral sclerosis multiple sclerosis HIV dementia etc affect about 1 5 billion people globally which is further anticipated to reach 1 9 billion by the year 2020 Nanocarriers for drug delivery to the brain are seen as one of the answers to this growing problem

Fungal Stress Mechanisms and Responses,2024-10-08

AAM Fungal Stress Mechanisms and Responses explores the adaptive strategies and biotechnological applications of fungi under stress conditions This volume features an array of reviews by experts in the field reviewing different aspects of fungal stress responses The initial three chapters focus on stress in fungal insect pathogens while chapters 4 6 address the impact of stressful environmental conditions on fungi used for bioremediation The last chapter investigates the molecular aspects of copper homeostasis in human fungal pathogens This volume offers a comprehensive collection of findings that help our understanding of fungal stress responses and their applications in agriculture medicine and the environment Understanding stress responses in insect pathogenic fungi Employing plant symbiotic fungi and basidiomycetes for mycoremediation of toxic metal organic soils How fungi regulate copper for optimal function and innovation in biotechnology and antifungal drug development

Physics, Chemistry And Application Of Nanostructures - Reviews And Short Notes To Nanomeeting-2005

Victor E Borisenko,Sergei Vasil'evich Gaponenko,Valerij S Gurin,2005-04-28 This comprehensive volume presents invited reviews and short notes with exciting new results obtained in fabrication study and application of nanostructures which promise a new generation of electronic and optoelectronic devices The rapid progress in nanoelectronics and optoelectronics molecular electronics and spintronics nanotechnology and quantum processing of information are covered

XV

Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 2019 Jorge

Henriques,Nuno Neves,Paulo de Carvalho,2019-09-24 This book gathers the proceedings of MEDICON 2019 the XV Mediterranean Conference on Medical and Biological Engineering and Computing which was held in September 26 28 2019 in Coimbra Portugal A special emphasis has been given to practical findings techniques and methods aimed at fostering an effective patient empowerment i e to position the patient at the heart of the health system and encourages them to be actively involved in managing their own healthcare needs The book reports on research and development in electrical engineering computing data science and instrumentation and on many topics at the interface between those disciplines It provides academics and professionals with extensive knowledge on cutting edge techniques and tools for detection

prevention treatment and management of diseases A special emphasis is given to effective advances as well as new directions and challenges towards improving healthcare through holistic patient empowerment *Atomistic Approaches in Modern Biology* Markus Reiher, 2007-01-08 With contributions by numerous experts

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Frontiers Of Multifunctional Nanosystems**

In a world inundated with displays and the cacophony of fast transmission, the profound energy and emotional resonance of verbal art often fade in to obscurity, eclipsed by the regular barrage of sound and distractions. Yet, set within the musical pages of **Frontiers Of Multifunctional Nanosystems**, a interesting function of fictional elegance that impulses with fresh emotions, lies an memorable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that interesting opus guides viewers on an emotional odyssey, gently revealing the latent possible and profound influence embedded within the delicate internet of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is key subjects, dissect its charming writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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