

Jiang Wu
Zhiming M. Wang *Editors*

Quantum Dot Molecules

Quantum Dot Molecules Lecture Notes In Nanoscale Science And Technology

**Christian von Borczyskowski, Eduard
Zenkevich**



Quantum Dot Molecules Lecture Notes In Nanoscale Science And Technology:

Quantum Dot Molecules Jiang Wu,Zhiming M. Wang,2013-10-28 A quantum dot molecule QDM is composed of two or more closely spaced quantum dots or artificial atoms In recent years QDMs have received much attention as an emerging new artificial quantum system The interesting and unique coupling and energy transfer processes between the artificial atoms could substantially extend the range of possible applications of quantum nanostructures This book reviews recent advances in the exciting and rapidly growing field of QDMs via contributions from some of the most prominent researchers in this scientific community The book explores many interesting topics such as the epitaxial growth of QDMs spectroscopic characterization and QDM transistors and bridges between the fundamental physics of novel materials and device applications for future information technology Both theoretical and experimental approaches are considered Quantum Dot Molecules can be recommended for electrical engineering and materials science department courses on the science and design of advanced and future electronic and optoelectronic devices

Tuning Semiconducting and Metallic Quantum Dots Christian von Borczyskowski,Eduard Zenkevich,2017-03-27 Nanotechnology is one of the growing areas of this century also opening new horizons for tuning optical properties This book introduces basic tuning schemes including those on a single quantum object level with an emphasis on surface and interface manipulation of semiconducting and metallic quantum dots There are two opposing demands in current forefront applications of quantum dots as optical labels namely high luminescence stability suppression of luminescence intermittency and controllable intermittency and bleaching on a single particle level to facilitate super resolution optical microscopy for which Eric Betzig Stefan W Hell and William E Moerner were awarded the 2014 Nobel Prize in Chemistry The book discusses these contradictory demands with respect to both an understanding of the basic processes and applications The chapters are a combination of scholarly presentation and comprehensive review and include case studies from the authors research including unpublished results Special emphasis is on a detailed understanding of spectroscopic and dynamic properties of semiconducting quantum dots The book is suitable for senior undergraduates and researchers in the fields of optical nanoscience materials science and nanotechnology

Self-Assembled Organic-Inorganic Nanostructures Christian von Borczyskowski,Eduard Zenkevich,2017-03-27 The current state and perspectives in natural and life sciences are strongly linked to the development of novel complex organic inorganic materials at various levels of organization including semiconductor quantum dots QDs and QD based nanostructures with unique optical and physico chemical properties This book provides a comprehensive description of the morphology and main physico chemical properties of self assembled inorganic dye nanostructures as well as some applications in the field of nanotechnology It crosses disciplines to examine essential nanoassembly principles of QD interaction with organic molecules excited state dynamics in nanoobjects theoretical models and methodologies Based on ensemble and single nanoobject detection the book quantitatively shows for the first time on a series of nanoassemblies that

surface mediated processes formation of trap states dictate the probability of several of the most interesting and potentially useful photophysical phenomena FRET or non FRET induced quenching of QD photoluminescence observed for colloidal QDs and QD dye nanoassemblies Further nanostructures can be generated by nanolithography and thereafter selectively decorated with dye molecules A similar approach applies to natural nanosized surface heterogeneities Nonmagnetic and Magnetic Quantum Dots Vasilios N. Stavrou, 2018-04-04 The book entitled Nonmagnetic and Magnetic Quantum Dots is divided into two sections In Section 1 the chapters are related to nonmagnetic quantum dots and their applications More specifically exact models and numerical methods have been presented to describe the analytical solution of the carrier wave functions the quantum mechanical aspects of quantum dots and the comparison of the latter to experimental data Furthermore methods to produce quantum dots synthesis techniques of colloidal quantum dots and applications on sensors and biology among others are included in this section In Section 2 a few topics of magnetic quantum dots and their applications are presented The section starts with a theoretical model to describe the magnetization dynamics in magnetic quantum dot array and the description of dilute magnetic semiconducting quantum dots and their applications Additionally a few applications of magnetic quantum dots in sensors biology and medicine are included in Section 2 **Quantum Dot Photodetectors** Xin Tong, Jiang Wu, Zhiming M. Wang, 2021-09-17 This book presents a comprehensive overview of state of the art quantum dot photodetectors including device fabrication technologies optical engineering manipulation strategies and emerging photodetectors with building blocks of novel quantum dots e g perovskite as well as their hybrid structured e g 0D 2D materials Semiconductor quantum dots have attracted much attention due to their unique quantum confinement effect which allows for the facile tuning of optical properties that are promising for next generation optoelectronic applications Among these remarkable properties are large absorption coefficient high photosensitivity and tunable optical spectrum from ultraviolet visible to infrared region all of which are very attractive and favorable for photodetection applications The book covers both fundamental and frontier research in order to stimulate readers interests in developing novel ideas for semiconductor photodetectors at the center of future developments in materials science nanofabrication technology and device commercialization The book provides a knowledge sharing platform and can be used as a reference for researchers working in the fields of photonics materials science and nanodevices *Nanodroplets* Zhiming M. Wang, 2014-01-08 Nanodroplets the basis of complex and advanced nanostructures such as quantum rings quantum dots and quantum dot clusters for future electronic and optoelectronic materials and devices have attracted the interdisciplinary interest of chemists physicists and engineers This book combines experimental and theoretical analyses of nanosized droplets which reveal many attractive properties Coverage includes nanodroplet synthesis structure unique behaviors and their nanofabrication including chapters on focused ion beam atomic force microscopy molecular beam epitaxy and the vapor liquid solid route Particular emphasis is given to the behavior of metallic nanodroplets water nanodroplets and nanodroplets

in polymer and metamaterial nanocomposites The contributions of leading scientists and their research groups will provide readers with deeper insight into the chemical and physical mechanisms properties and potential applications of various nanodroplets

Freshman Lectures on Nanotechnology Hassan Raza, 2019-06-13 Nanotechnology is the art science and engineering of designing materials devices and systems at the nanoscale from bottom up and or top down approaches The material properties at the nanoscale are governed by quantum mechanics and hence are drastically different than those at the macro micro scale It is thus no surprise that nanotechnology has led to a scientific and technological revolution This book provides a gentle introduction to the field of nanotechnology for first year undergraduate students It not only covers the fundamental scientific concepts in a tutorial fashion but also provides an overview of applications in nanoelectronics spintronics nanophotonics nanofabrication and nanocharacterization End of chapter research assignments focus on nanomanufacturing computing and communication renewable energy defense applications food processing and agriculture automobile and aerospace technology nanobiotechnology and bionanotechnology industrial and consumer applications Finally the topics related to safety health and societal impact of nanotechnology are discussed

Quantum Dot Solar Cells Jiang Wu, Zhiming M. Wang, 2013-09-28 The third generation of solar cells includes those based on semiconductor quantum dots This sophisticated technology applies nanotechnology and quantum mechanics theory to enhance the performance of ordinary solar cells Although a practical application of quantum dot solar cells has yet to be achieved a large number of theoretical calculations and experimental studies have confirmed the potential for meeting the requirement for ultra high conversion efficiency In this book high profile scientists have contributed tutorial chapters that outline the methods used in and the results of various quantum dot solar cell designs including quantum dot intermediate band solar cells hot electron quantum dot solar cells quantum dot sensitized solar cells colloidal quantum dot solar cells hybrid polymer quantum dot solar cells and MEG quantum dot solar cells Both theoretical and experimental approaches are described Quantum Dot Solar Cells helps to connect the fundamental laws of physics and the chemistry of materials with advances in device design and performance The book can be recommended for a broad audience of chemists electrical engineers and materials scientists and is suitable for use in courses on materials and device design for advanced and future optoelectronics

Physics of Quantum Rings Vladimir M. Fomin, 2025-08-19 Excerpts from the recension on the 1st edition The book published by Vladimir M Fomin from Leibniz Institute for Solid State and Materials Research Dresden is an authoritative monograph that offers for readers a broad exhaustive overview about the current status of the Physics of Quantum Rings All chapters are accessible for readers with knowledge of physics and engineering sciences within the advanced level studies The book explores in depth the physics of quantum interference phenomena like the Aharonov Bohm effect which are essential for Quantum Rings A good third of the book is dedicated to fabrication characterization and physical properties of such structures The fabrication includes such methods as self organized arrangement and crystal growth with molecular beam

epitaxy as well as high resolution lithography The second third of the book represents the theory of Quantum Rings especially under the perspective of their materials and optical properties the Coulomb interaction and finally their mathematical modeling The last third of the book focuses on the Aharonov Bohm effect of excitons a very new effect which is manifested through the optical properties of Quantum Rings The unique benefit of collecting such different topics in one band consists in enabling a holistic understanding of Quantum Rings This approach is necessary to ensure a further development in this field On the one hand this is a deepening exploration On the other hand it is equally important for implementation of the gained understanding in applications for future devices Translated from German K Karrai Physik Journal 15 52 53 2016 Excerpts from the recension on the 2nd edition A Lorke Physik Journal 18 91 2019 The editor Vladimir Fomin and contributors show impressively in their book which has now been published in a second edition that the now traditional classification into 3 2 1 or 0 dimensional systems is not as comprehensive as it seems This is because in contrast to the above mentioned systems Quantum Rings in mathematical sense are not singly connected And already the question whether a Quantum Ring is a closed quantum wire or a quantum dot from which the interior is cut out demonstrates how diverse and novel is the physics offered by Quantum Rings Also in the new edition the numerous authors illuminate the topic from different perspectives from materials science aspects of the growth of Quantum Rings through their optical and electronic characterization to theoretical studies of exotic topologies such as M bius stripes The new division into four Sections topology driven effects fabrication and characterization optical Aharonov Bohm Effect theory succeeded It is gratifying that the newly added chapters deal with current developments and concern such topics as THz spectroscopy or 2D materials The book is certainly not an easy reading However for both advanced students and scientists who wish to delve in larger breadth and depth into the topic this collection of reviews offers an extensive material showing that also beyond a point a line and a plane there is still plenty of room in the bottom Translated from German A Lorke Physik Journal 18 91 2019 *Comprehensive Semiconductor Science and Technology* ,2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Second Edition Three Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the conceptual framework of solid state

physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field

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