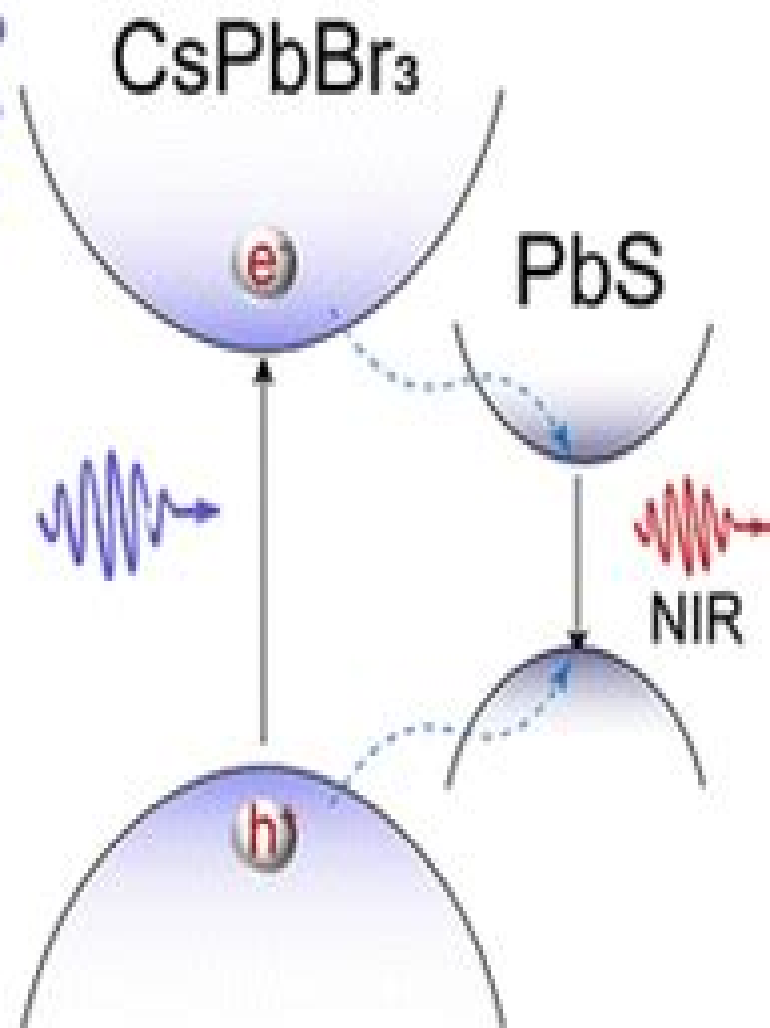
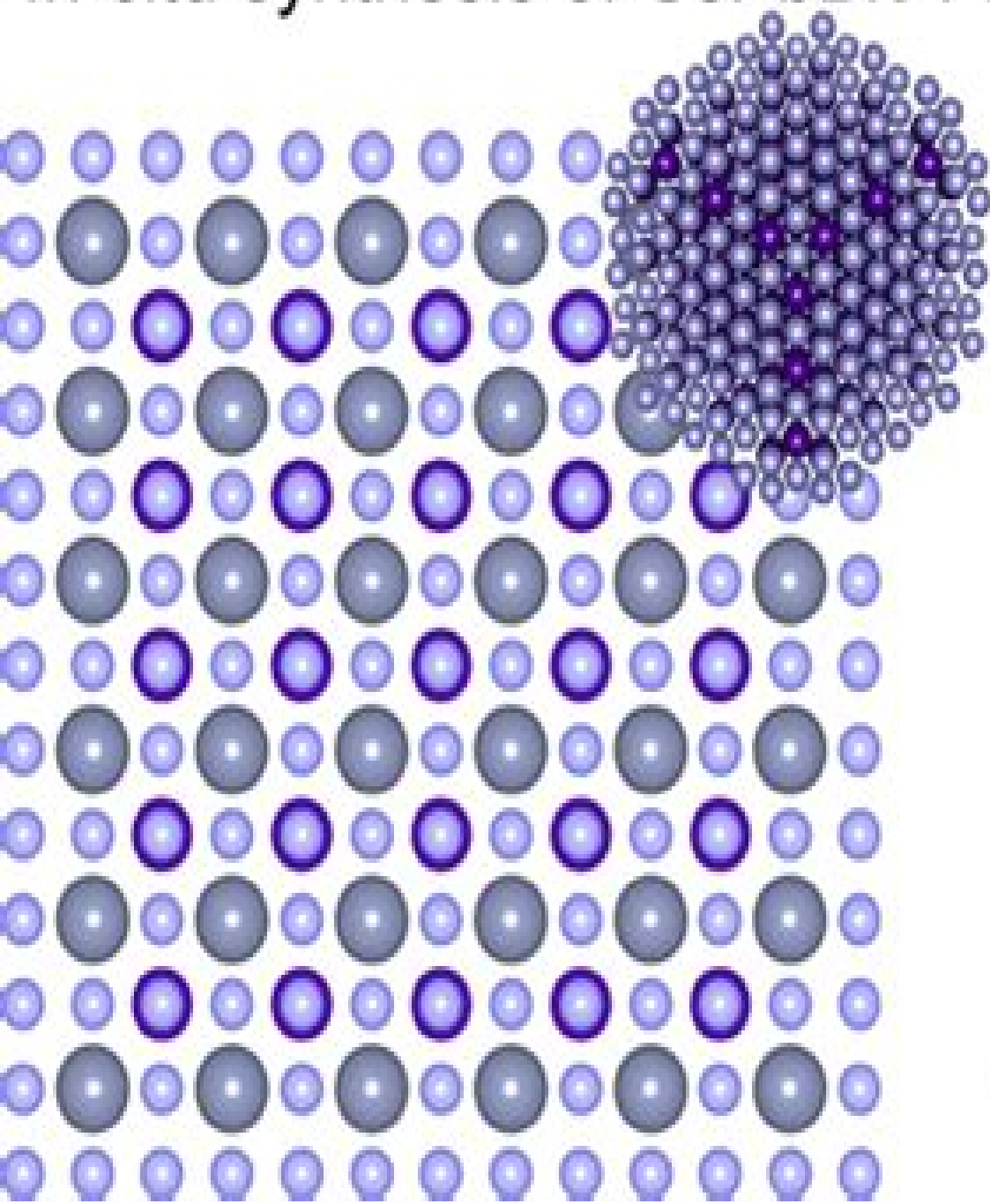


# In-situ synthesis of CsPbBr<sub>3</sub>-PbS Heterojunction



# Quantum Dot Heterostructures

**Arjun Mandal, Subhananda Chakrabarti**



## **Quantum Dot Heterostructures:**

Quantum Dot Heterostructures Dieter Bimberg, Marius Grundmann, Nikolai N. Ledentsov, 1999-03-17 Quantum Dot Heterostructures Dieter Bimberg Marius Grundmann and Nikolai N Ledentsov Institute of Solid State Physics Technische Universit t Berlin Germany Quantum dots are nanometer size semiconductor structures and represent one of the most rapidly developing areas of current semiconductor research as increases in the speed and decreases in the size of semiconductor devices become more important They present the utmost challenge to semiconductor technology making possible fascinating novel devices This important new reference book focuses on the key phenomena and principles Chapter 1 provides a brief account of the history of quantum dots whilst the second chapter surveys the various fabrication techniques used in the past two decades and introduces the concept of self organized growth This topic is expanded in the following chapter which presents a broad review of self organization phenomena at surfaces of crystals Experimental results on growth of quantum dot structures in many different systems and on their structural characterization are presented in Chapter 4 Basic properties of the dots relate to their geometric structure and chemical composition Numerical modeling of the electronic and optical properties of real dots is presented in Chapter 5 together with general theoretical considerations on carrier capture relaxation recombination and properties of quantum dot lasers Chapters 6 and 7 summarize experimental results on electronic optical and electrical properties The book concludes by disoussing highly topical results on quantum dot based photonic devices mainly quantum dot lasers Quantum Dot Heterostructures is written by some of the key researchers who have contributed significantly to the development of the field and have pioneered both the theoretical understanding of quantum dot related phenomena and quantum dot lasers It is of great interest to graduate and postgraduate students and to researchers in semiconductor physics and technology and optoelectronics Quantum Dot Heterostructures Dieter Bimberg, 1999 *Semiconductor Quantum Dot Heterostructures (Growth and Applications)*. V. M. Ustinov, RUSSIAN ACADEMY OF SCIENCES ST PETERSBURG IOFFE PHYSICAL-TECHNICAL INST., 2000 The reduction of dimensionality of the carrier motion in quantum nanostructures brings new interesting effects in semiconductor physics In addition it opens an exciting possibility of improving the device performance It has been predicted that the delta function like density of states inherent for the objects with three dimensional quantum confinement quantum dots should lead to the decrease in threshold current density and improvement of its temperature stability for semiconductor injection lasers when the quantum dot heterostructures are used as an active region In the present work we discuss the synthesis of InAs GaAs quantum dots by using self organization phenomena at the initial stages of strained layer heteroepitaxy We show that the driving force for the island formation is strain accumulating during the deposition of the lattice mismatched material Quantum dot size and shape are presented and their optical properties are discussed The characteristics of quantum dot injection lasers are shown The ways to reduce threshold current density and improve its temperature stability are demonstrated The band gap and strain

engineering are shown to be effective tools for controlling the quantum dot optical emission range

**Impact of Ion Implantation on Quantum Dot Heterostructures and Devices** Arjun Mandal, Subhananda Chakrabarti, 2017-06-02 This book looks at the effects of ion implantation as an effective post growth technique to improve the material properties and ultimately the device performance of In Ga As GaAs quantum dot QD heterostructures Over the past two decades In Ga As GaAs based QD heterostructures have marked their superiority particularly for application in lasers and photodetectors Several in situ and ex situ techniques that improve material quality and device performance have already been reported These techniques are necessary to maintain dot density and dot size uniformity in QD heterostructures and also to improve the material quality of heterostructures by removing defects from the system While rapid thermal annealing pulsed laser annealing and the hydrogen passivation technique have been popular as post growth methods ion implantation had not been explored largely as a post growth method for improving the material properties of In Ga As GaAs QD heterostructures This work attempts to remedy this gap in the literature The work also looks at introduction of a capping layer of quaternary alloy InAlGaAs over these In Ga As GaAs QDs to achieve better QD characteristics The contents of this volume will prove useful to researchers and professionals involved in the study of QDs and QD based devices

*Structural, Optical and Spectral Behaviour of InAs-based Quantum Dot Heterostructures* Saumya Sengupta, Subhananda Chakrabarti, 2017-08-04 This book explores the effects of growth pause or ripening time on the properties of quantum dots QDs It covers the effects of post growth rapid thermal annealing RTA treatment on properties of single layer QDs The effects of post growth rapid thermal annealing RTA treatment on properties of single layer QDs are discussed The book offers insight into InAs GaAs bilayer QD heterostructures with very thin spacer layers and discusses minimum spacer thickness required to grow electronically coupled bilayer QD heterostructures These techniques make bilayer QD heterostructures a better choice over the single layer and uncoupled multilayer QD heterostructure Finally the book discusses sub monolayer SML growth technique to grow QDs This recent technique has been proven to improve the device performance significantly The contents of this monograph will prove useful to researchers and professionals alike

**Quantum Dot Lasers** Victor Mikhailovich Ustinov, 2003 The book addresses issues associated with physics and technology of injection lasers based on self organized quantum dots Fundamental and technological aspects of quantum dot edge emitting lasers and VCSELs their current status and future prospects are summarized and reviewed Basic principles of QD formation using self organization phenomena are reviewed Structural and optical properties of self organized QDs are considered with a number of examples in different material systems Recent achievements in controlling the QD properties including the effects of vertical stacking changing the matrix bandgap and the surface density of QDs are reviewed The authors focus on the use of self organized quantum dots in laser structures fabrication and characterization of edge and surface emitting diode lasers their properties and optimization with special attention paid to the relationship between structural and electronic properties of QDs and laser characteristics The

threshold and power characteristics of the state of the art QD lasers are demonstrated Issues related to the long wavelength 1.3  $\mu\text{m}$  lasers on a GaAs substrate are also addressed and recent results on InGaAsN based diode lasers presented for the purpose of comparison     Tailored-potential Pyramidal Quantum Dot Heterostructures Valentina Troncale,2010

Advanced Semiconductor Heterostructures Mitra Dutta,Michael A. Stroscio,2003 Novel heterostructure devices Electron phonon interactions in intersubband laser heterostructures M V Kisin M Dutta and M A Stroscio Quantum dot infrared detectors and sources P Bhattacharya et al Generation of terahertz emission based on intersubband transitions Q Hu Mid infrared GaSb based lasers with Type I heterointerfaces D V Donetsky R U Martinelli and G L Belenky Advances in quantum dot research and technology the path to applications in biology M A Stroscio and M Dutta Potential device applications and basic properties High field electron transport controlled by optical phonon emission in nitrides S M Komirenko et al Cooling by inverse Nottingham effect with resonant tunneling Y Yu R F Greene and R Tsu The physics of single electron transistors M A Kastner Carrier capture and transport within tunnel injection lasers a quantum transport analysis L F Register et al The influence of environmental effects on the acoustic phonon spectra in quantum dot heterostructures S Rufo M Dutta and M A Stroscio Quantum devices with multipole electrode heterojunctions hybrid structures R Tsu     **Lateral Alignment of**

**Epitaxial Quantum Dots** Oliver G. Schmidt,2007-08-17 This book describes the full range of possible strategies for laterally aligning self assembled quantum dots on a substrate surface beginning with pure self ordering mechanisms and culminating with forced alignment by lithographic positioning The text addresses both short and long range ordering phenomena and introduces future high integration of single quantum dot devices on a single chip Contributions by well known experts ensure that all relevant quantum dot heterostructures are elucidated from diverse perspectives     Photonic Crystal Devices with Quantum Dot Heterostructures for Photonic Integrated Circuits Pei-Chen Yu,2004     **Dynamics of Quantum Dot Lasers**

Christian Otto,2014-01-21 This thesis deals with the dynamics of state of the art nanophotonic semiconductor structures providing essential information on fundamental aspects of nonlinear dynamical systems on the one hand and technological applications in modern telecommunication on the other Three different complex laser structures are considered in detail i a quantum dot based semiconductor laser under optical injection from a master laser ii a quantum dot laser with optical feedback from an external resonator and iii a passively mode locked quantum well semiconductor laser with saturable absorber under optical feedback from an external resonator Using a broad spectrum of methods both numerical and analytical this work achieves new fundamental insights into the interplay of microscopically based nonlinear laser dynamics and optical perturbations by delayed feedback and injection     **Semiconductor Nanostructures** Dieter

Bimberg,2008-06-03 Reducing the size of a coherently grown semiconductor cluster in all three directions of space to a value below the de Broglie wavelength of a charge carrier leads to complete quantization of the energy levels density of states etc Such quantum dots are more similar to giant atoms in a dielectric cage than to classical solids or semiconductors showing a

dispersion of energy as a function of wavevector Their electronic and optical properties depend strongly on their size and shape i.e. on their geometry By designing the geometry by controlling the growth of QDs absolutely novel possibilities for material design leading to novel devices are opened This multiauthor book written by world wide recognized leaders of their particular fields and edited by the recipient of the Max Born Award and Medal 2006 Professor Dieter Bimberg reports on the state of the art of the growing of quantum dots the theory of self organised growth the theory of electronic and excitonic states optical properties and transport in a variety of materials It covers the subject from the early work beginning of the 1990s up to 2006 The topics addressed in the book are the focus of research in all leading semiconductor and optoelectronic device laboratories of the world [Correlated Photon Emission from Pyramidal Quantum Dot Heterostructures](#) Martin Henrik Baier, 2005

**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

**Lattice Engineering** Shumin Wang, 2012-11-27 This book contains comprehensive reviews of different technologies to harness lattice mismatch in semiconductor heterostructures and their applications in electronic and optoelectronic devices While the book is a bit focused on metamorphic epitaxial growth it also includes other methods like compliant substrate selective area growth wafer bondi

[Nanoscale Semiconductor Memories](#) Santosh K. Kurinec, Krzysztof Iniewski, 2017-07-28 Nanoscale memories are used everywhere From your iPhone to a supercomputer every electronic device

contains at least one such type With coverage of current and prototypical technologies Nanoscale Semiconductor Memories Technology and Applications presents the latest research in the field of nanoscale memories technology in one place It also covers a myriad of applications that nanoscale memories technology has enabled The book begins with coverage of SRAM addressing the design challenges as the technology scales then provides design strategies to mitigate radiation induced upsets in SRAM It discusses the current state of the art DRAM technology and the need to develop high performance sense amplifier circuitry The text then covers the novel concept of capacitorless 1T DRAM termed as Advanced RAM or A RAM and presents a discussion on quantum dot QD based flash memory Building on this foundation the coverage turns to STT RAM emphasizing scalable embedded STT RAM and the physics and engineering of magnetic domain wall racetrack memory The book also discusses state of the art modeling applied to phase change memory devices and includes an extensive review of RRAM highlighting the physics of operation and analyzing different materials systems currently under investigation The hunt is still on for universal memory that fits all the requirements of an ideal memory capable of high density storage low power operation unparalleled speed high endurance and low cost Taking an interdisciplinary approach this book bridges technological and application issues to provide the groundwork for developing custom designed memory systems **Next**

**Generation Photovoltaics** A. Marti,A. Luque,2003-09-01 Although photovoltaics are regarded by many as the most likely candidate for long term sustainable energy production their implementation has been restricted by the high costs involved Nevertheless the theoretical limit on photovoltaic energy conversion efficiency above 85% suggests that there is room for substantial improvement of current comme Metalorganic Vapor Phase Epitaxy (MOVPE) Stuart Irvine,Peter Capper,2019-08-27 Systematically discusses the growth method material properties and applications for key semiconductor materials MOVPE is a chemical vapor deposition technique that produces single or polycrystalline thin films As one of the key epitaxial growth technologies it produces layers that form the basis of many optoelectronic components including mobile phone components GaAs semiconductor lasers and LEDs III Vs nitrides optical communications oxides infrared detectors photovoltaics II IV materials etc Featuring contributions by an international group of academics and industrialists this book looks at the fundamentals of MOVPE and the key areas of equipment safety precursor chemicals and growth monitoring It covers the most important materials from III V and II VI compounds to quantum dots and nanowires including sulfides and selenides and oxides ceramics Sections in every chapter of Metalorganic Vapor Phase Epitaxy MOVPE Growth Materials Properties and Applications cover the growth of the particular materials system the properties of the resultant material and its applications The book offers information on arsenides phosphides and antimonides nitrides lattice mismatched growth CdTe MCT mercury cadmium telluride ZnO and related materials equipment and safety and more It also offers a chapter that looks at the future of the technique Covers in order the growth method material properties and applications for each material Includes chapters on the fundamentals of MOVPE and the key areas of equipment safety precursor chemicals and growth

monitoring Looks at important materials such as III V and II VI compounds quantum dots and nanowires Provides topical and wide ranging coverage from well known authors in the field Part of the Materials for Electronic and Optoelectronic Applications series Metalorganic Vapor Phase Epitaxy MOVPE Growth Materials Properties and Applications is an excellent book for graduate students researchers in academia and industry as well as specialist courses at undergraduate postgraduate level in the area of epitaxial growth MOVPE MOCVD MBE *Characterization of Semiconductor Heterostructures and Nanostructures* Giovanni Agostini, Carlo Lamberti, 2011-08-11 In the last couple of decades high performance electronic and optoelectronic devices based on semiconductor heterostructures have been required to obtain increasingly strict and well defined performances needing a detailed control at the atomic level of the structural composition of the buried interfaces This goal has been achieved by an improvement of the epitaxial growth techniques and by the parallel use of increasingly sophisticated characterization techniques and of refined theoretical models based on ab initio approaches This book deals with description of both characterization techniques and theoretical models needed to understand and predict the structural and electronic properties of semiconductor heterostructures and nanostructures Comprehensive collection of the most powerful characterization techniques for semiconductor heterostructures and nanostructures Most of the chapters are authored by scientists that are among the top 10 worldwide in publication ranking of the specific field Each chapter starts with a didactic introduction on the technique The second part of each chapter deals with a selection of top examples highlighting the power of the specific technique to analyze the properties of semiconductors

**Semiconductor Laser Theory** Prasanta Kumar Basu, Bratati Mukhopadhyay, Rikmantra Basu, 2015-06-17 Developed from the authors classroom tested material Semiconductor Laser Theory takes a semiclassical approach to teaching the principles structure and applications of semiconductor lasers Designed for graduate students in physics electrical engineering and materials science the text covers many recent developments including diode lasers u



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