

# Compound Semiconductor Optoelectronics Research at the Australian National University

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The group at the Australian National University (ANU) engages in multi-disciplinary research in the field of semiconductor optoelectronics and nanotechnology. The group is led by Professor C. Jagadish and consists of 2 research fellows, 2 post-doctoral fellows, 10 PhD students and a technician. In addition to this, usually there are several researchers and students who spend 3-12 months in the group working on a variety of projects. Although not limited to it, the group's main focus is on compound semiconductors. Listed below is a synopsis of the projects currently undertaken:

## Growth of Nanostructures

The synthesis and study of materials having at least two dimensions with nanometer scale size (i.e. so called 1D materials) such as nanotubes and nanowires has attracted intense interest due to their potential applications in electronics and photonics. Semiconductor nanowires have drawn considerable interest due to the potential of using conventional processes such as doping, junction formation, growth of heterostructures and superlattices during growth of nanowires. We are growing these nanowires by the so-called vapour-liquid-solid process in the Metalorganic Chemical Vapour Deposition (MOCVD) reactor. In addition we are also using ordered alumina porous membranes to create nano scale ordered gold patterns as nucleation sites for the growth of nanowires that could be used for fabrication of 3-D photonic crystals. On a separate but parallel study, we are investigating the growth of inverted opal III-V structures by MOCVD where the starting template of regularly stacked silica spheres are being infiltrated by III-V materials.

## Growth of Novel Materials

Novel (In,Ga)SbN compound semiconductors are of great interest for a wide range of device applications in the mid- to long-wavelength infrared spectral region. Due to the huge negative bandgap bowing effect from N, the emission/absorption wavelength of InGaSb and InSb can

respectively be extended to mid- and long-wavelength infrared spectral range by adding a few percent of N. The wavelength can be fine-tuned by controlling the N content. This project aims to develop such a novel (In,Ga)SbN material system for a new generation of mid- to long-wavelength infrared optoelectronic devices using MOCVD that could lead to the development of advanced applications in thermal imaging, environmental monitoring, biological and chemical sensing, disease diagnosis and treatments.

## Quantum Dot Optoelectronics Devices

Self-assembled semiconductor quantum dots (QDs) grown in the Stranski-Krastanow growth mode have found application in a multitude of optoelectronic devices such as lasers, modulators and photodetectors. Improved characteristics are predicted for these devices due to the unique electrical and optical properties provided by the quantum dots as a result of their 3-dimensional carrier confinement and delta function like density of states.

Research in the areas of QD lasers involves the growth of In(Ga)As(N) QDs laser structures on GaAs or InP substrates and investigating the properties of the devices such as gain saturation, the built-in electric field and the strain effects arising from the QDs.

The concept of using the intersubband absorption of infrared radiation has led to the development of quantum well infrared photodetectors (QWIPs) in the past decades. Quantum dot infrared photodetectors (QDIPs) are expected to show improved performance over their quantum well counterpart in detecting infrared signal due to the localized states in quantum dots and they respond to normal incidence photoexcitation. We fabricate and characterize QDIP devices grown by MOCVD and also investigate the various schemes that can be used to improve device performance and tunability (such as dots-in-a-well structure and intermixing).

## Integrated Optoelectronic Devices

# Semiconductor Optoelectronics Proceedings

**SA Adler**



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**Semiconductor Optoelectronics** Marian A. Herman,1980

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*Semiconductor Materials for Optoelectronics and LTMBE Materials* J.P. Hirtz,C. Whitehouse,H.P. Meier,H.J. von Bardeleben,M.O. Manasreh,2016-07-29 These three day symposia were designed to provide a link between specialists from university or industry who work in different fields of semiconductor optoelectronics Symposium A dealt with topics including epitaxial growth of III V II VI IV VI Si based structures selective area localized and non planar epitaxy shadow mask epitaxy bulk and new optoelectronic materials polymers for optoelectronics Symposium B dealt with III V epitaxial layers grown by low temperature molecular beam epitaxy a subject which has undergone rapid development in the last three years

Proceedings of the IEEE/LEOS 3rd International Conference on Numerical Simulation of Semiconductor Optoelectronic Devices ,2003 **Materials for Optoelectronic Devices, OEICs and Photonics** H. Schlötterer,M. Quilicq,P.D. Greene,M. Bertolotti,1991-10-08 The aim of the contributions in this volume is to give a current overview on the basic properties and applications of semiconductor and nonlinear optical materials for optoelectronics and integrated optics They provide a cross linkage between different materials III V II VI Si Ge glasses etc various sample dimensions from bulk crystals to quantum dots and a range of techniques for growth LPE to MOMBE and for processing from surface passivation to ion beams Major growth techniques and materials are discussed including the sophisticated technologies required to exploit the exciting properties of low dimensional semiconductors These proceedings will prove an invaluable guide to the current state of optoelectronic and nonlinear optical materials development as well as indicating trends and also future markets for optoelectronic devices Special Issue on Semiconductor Optoelectronics Peter Smowton,2006 *Spectroscopy And Optoelectronics In Semiconductors And Related Materials - Proceedings Of The Sino-soviet Seminar* Sue-chu Shen,J H Chu,Z P Wang,J Q Yu,Gy Zhang,1990-11-23 This proceedings volume covers new results from recent studies on impurity states bound states in semiconductors phonons excitons and electron confinement in superlattices and quantum wells magneto-optics optical properties of solids in far infrared and millimeter wave regions optical nonlinearity for III V II VI compounds Si Ge amorphous and organic semiconductors as well as optical crystals Special emphasis is placed on the 2DEG system **Special Issue on Semiconductor Optoelectronics** Nir Tessler,Peter Smowton,SIOE,2001 **Proceedings of the Symposium on Light Emitting Devices for Optoelectronic Applications and the Twenty-Eighth State-of-the-Art Program on Compound Semiconductors** Electrochemical Society. Luminescence and Display Materials Division,Electrochemical Society. Meeting,1998 **Single-Dopant Semiconductor Optoelectronics** Michael E. Flatté,David Awschalom,Materials Research Society (United States). Spring Meeting,Paul M. Koenraad,T. M. Cooper,Materials Research Society Staff,2013 *Semiconductor Materials for Optoelectronics and LTMBE Materials* J. P. Hirtz,Materials Research Society Europe,Fédération des Sociétés Européennes de Matériaux,1993 Ultrafast Electronics

and Optoelectronics ,2003      *Semiconductor Sources of Electromagnetic Radiation* Marian A. Herman,1976      *Special Issue on Simulation of Semiconductor Optoelectronic Devices* Joachim Piprek,2002      The Physics of Semiconductor Devices R. K. Sharma,D.S. Rawal,2019-01-31 This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community The book discusses the latest developments in the field of III nitrides materials devices compound semiconductors VLSI technology optoelectronics sensors photovoltaics crystal growth epitaxy and characterization graphene and other 2D materials and organic semiconductors      **Semiconductor Quantum Optoelectronics** Alan Miller,M. Ebrahimzadeh,Majid Ebrahimzadeh,D. M. Finlayson,1999 This book combines new physics and the latest device developments in low dimensional semiconductors The development and application of low dimensional semiconductors has been rapid and spectacular during the past decade Ever improving epitaxial growth and device fabrication techniques have allowed access to some remarkable new physics in quantum confined structures while in parallel a plethora of new devices have emerged The field of optoelectronics in particular has benefited from these advances both in terms of improved performance and the invention of fundamentally new types of device at a time when the use of optics and lasers in telecommunications broadcasting the internet signal processing and computing has been rapidly expanding An appreciation of the physics of quantum and dynamical electronic processes in confined structures is key to the understanding of many of the latest devices and involvement in their continued development This book allows those who already have some familiarity with semiconductor physics and devices to broaden and expand their knowledge into new and expanding topics in low dimensional semic

**Special Section on Semiconductor Optoelectronics** Judy Rorison,Martin D. Dawson,SIOE,2003      **Chemical Abstracts Service Source Index** American Chemical Society. Chemical Abstracts Service,1907 A key source to journal and conference abbreviations in the sciences Although it focuses on chemistry other scientific and engineering disciplines are also well represented In addition to the abbreviation and full title each entry also contains publishing info title changes language and frequency of publication and libraries owning that title Over 130 000 entries representing more than 70 000 publications dating back to 1907 are included      **Handbook of Nitride Semiconductors and Devices, GaN-based Optical and Electronic Devices** Hadis Morkoç,2009-07-30 The three volumes of this handbook treat the fundamentals technology and nanotechnology of nitride semiconductors with an extraordinary clarity and depth They present all the necessary basics of semiconductor and device physics and engineering together with an extensive reference section Volume 3 deals with nitride semiconductor devices and device technology Among the application areas that feature prominently here are LEDs lasers FETs and HBTs detectors and unique issues surrounding solar blind detection      *OSA Proceedings on Ultrafast Electronics and Optoelectronics* Jagdeep Shah,Umesh Kumar Mishra,1993

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