

# 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

**Sue-chu Shen,J H Chu,Z P Wang,J Q  
Yu,Gy Zhang**



## **Semiconductor Optoelectronics Proceedings:**

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

**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 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      **Semiconductor Optoelectronics**, 1995

*Proceedings of the Symposium on III-V Opto-Electronics Epitaxy and Device Related Processes* V. G. Keramidias, Subhash Mahajan, 1983      **Compound Semiconductors 1996, Proceedings of the Twenty-Third INT Symposium on**

**Compound Semiconductors held in St Petersburg, Russia, 23-27 September 1996** Shur, 2020-10-28 Providing a comprehensive overview of developments to both the academic and industrial communities Compound Semiconductors 1996 covers all types of compound semiconducting materials and devices The book includes results on blue and green lasers heterostructure devices nanoelectronics and novel wide band gap semiconductors With invited review papers and research results in current topics of interest this volume is part of a well known series of conferences for the dissemination of research results in the field

**Mid-infrared Semiconductor Optoelectronics** Anthony Krier, 2007-05-22 Optoelectronic devices operating in the mid infrared wavelength range offer applications in a variety of areas from environmental gas monitoring around oil rigs to the detection of narcotics They could also be used for free space optical communications thermal imaging applications and the development of homeland security measures Mid infrared Semiconductor Optoelectronics is an overview of the current status and technological development in this rapidly emerging area the basic physics some of the problems facing the design engineer and a comparison of possible solutions are laid out the different lasers used as sources for mid infrared technology are considered recent work in detectors is reviewed the last part of the book is concerned with

applications With a world wide authorship of experts working in many mid infrared related fields this book will be an invaluable reference for researchers and graduate students drawn from physics electronic and electrical engineering and materials science     *Directory of Published Proceedings* ,1996     **Compound Semiconductors 1995, Proceedings of the Twenty-Second INT Symposium on Compound Semiconductors held in Cheju Island, Korea, 28 August-2 September, 1995** Woo,1996-04-25 Compound Semiconductors 1995 focuses on emerging applications for GaAs and other compound semiconductors such as InP GaN GaSb ZnSe and SiC in the electronics and optoelectronics industries The book presents the research and development work in all aspects of compound semiconductors It reflects the maturity of GaAs as a semiconductor material and the rapidly increasing pool of research information on many other compound semiconductors Covering the full breadth of the subject from growth through processing to devices and integrated circuits this volume provides researchers in materials science device physics condensed matter physics and electrical and electronic engineering with a comprehensive overview of developments in this well established research area

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