

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

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Table of Contents Semiconductor Optoelectronics Proceedings

1. Understanding the eBook Semiconductor Optoelectronics Proceedings
 - The Rise of Digital Reading Semiconductor Optoelectronics Proceedings
 - Advantages of eBooks Over Traditional Books
2. Identifying Semiconductor Optoelectronics Proceedings
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Semiconductor Optoelectronics Proceedings
 - User-Friendly Interface
4. Exploring eBook Recommendations from Semiconductor Optoelectronics Proceedings
 - Personalized Recommendations
 - Semiconductor Optoelectronics Proceedings User Reviews and Ratings
 - Semiconductor Optoelectronics Proceedings and Bestseller Lists
5. Accessing Semiconductor Optoelectronics Proceedings Free and Paid eBooks
 - Semiconductor Optoelectronics Proceedings Public Domain eBooks
 - Semiconductor Optoelectronics Proceedings eBook Subscription Services

- Semiconductor Optoelectronics Proceedings Budget-Friendly Options
- 6. Navigating Semiconductor Optoelectronics Proceedings eBook Formats
 - ePub, PDF, MOBI, and More
 - Semiconductor Optoelectronics Proceedings Compatibility with Devices
 - Semiconductor Optoelectronics Proceedings Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Semiconductor Optoelectronics Proceedings
 - Highlighting and Note-Taking Semiconductor Optoelectronics Proceedings
 - Interactive Elements Semiconductor Optoelectronics Proceedings
- 8. Staying Engaged with Semiconductor Optoelectronics Proceedings
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Semiconductor Optoelectronics Proceedings
- 9. Balancing eBooks and Physical Books Semiconductor Optoelectronics Proceedings
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Semiconductor Optoelectronics Proceedings
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Semiconductor Optoelectronics Proceedings
 - Setting Reading Goals Semiconductor Optoelectronics Proceedings
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Semiconductor Optoelectronics Proceedings
 - Fact-Checking eBook Content of Semiconductor Optoelectronics Proceedings
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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