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Peneliti Utama

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VII. Pendidikan

Nama Universitas	Lokasi	Tahun selesai /Gelar	Bidang Studi
Universitas Hasanuddin	Makassar – Ind	1989 / Sarjana	Fisika
Macquarie University	Sydney - Aus	1999 / Magister	Fisika Semikonduktor
The Australian National University (ANU)	Canberra -Aus	2006 / PhD	Fisika Semikonduktor

VIII. Pengalaman Kerja

- Dosen Jurusan Fisika, Tahun 1992 – Sekarang
- Dosen Fisika MKU, Tahun 1992 – Sekarang
- Dosen Fisika Mahasiswa Basic Science Berasrama FMIPA-UNHAS Tahun 2006 – Sekarang
- Sekretaris Jurusan Fisika FMIPA Unhas, Tahun 2008 -2012

IX. Daftar publikasi

- Gareso, P.L., Buda, M, Fu, L, Tan, H. H, and Jagadish, C., (2004), Suppression of thermal atomic interdiffusion in C-doped InGaAs/AlGaAs quantum well laser structures using TiO₂ dielectric layers. Applied Physic Letter, December, **85**, 5583-5585.
- Gareso, P.L., Buda, M, Tan, H. H, and Jagadish, C , Ilyas, S and Gal, M.,(2006), On quantifying the group-V to group-III interdiffusion rates in In_xGa_{1-x}As/InP quantum wells, Semicond. Sci. Technol, **21**, 829-832.
- Gareso, P. L., Buda, M, Petravic, M, Tan, H. H, and Jagadish, C., (2006), Effect of Rapid Thermal Annealing on the atomic Intermixing of Zn- and C-doped InGaAs/AlGaAs Quantum Well Laser Structures, Journal of The Electrochemical Society, **153**, G879-G882.

- Gareso, P. L., Buda, M, Fu, L, Tan, H. H, Jagadish, C, Dao, L. V, Wen, X and Hannaford, P., (2006), Proton irradiation-induced intermixing in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{InP}$ quantum wells- the effect of In composition, *Semicond. Sci. Technol*, **21**, 1441-1446.
- Gareso, P. L., Buda, M, Fu, L, Tan, H. H, Jagadish, C., (2007), Influence of SiO_2 and TiO_2 dielectric layers on the atomic intermixing of $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{InP}$ quantum well structures, *Semicond. Sci. Technol*, **22**, 988-992.
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- Gareso, P. L., Tan, H. H, Wong-Leung, J, Jagadish, C and Dao, L. V., Proton irradiation induced intermixing in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{InP}$ Quantum Wells, *Proceedings of the 2004 Conference on Optoelectronic and Microelectronic Materials and Devices*, Brisbane, Australia, 2004, pp. 93-96.
- Gareso, P. L., Buda, M, Tan, H. H, and Jagadish, C , Ilyas, S and Gal, M, On quantifying the group-V to group-III interdiffusion rate in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{InP}$ quantum wells by differential reflectance, *Proceedings of the 2005 IEEE Lasers and Electro-Optics Society Annual Meeting* , Sydney, Australia, 2005, pp.989-990.
- Gareso, P. L., Fu, L, Tan, H. H, Jagadish, C., The influence of SiO_2 and TiO_2 dielectric layers on the atomic intermixing of $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{InP}$ quantum well structures, *The 2004 Conference on Optoelectronic and Microelectronic Materials and Devices*, Brisbane, Australia, 2004
- Gareso, P. L., Tan, H. H, Jagadish, C, Dao, L. V., Atomic intermixing of $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{InP}$ quantum well structures, *Australian Institute of Physics 16th Biennial Congress*, Canberra, Australia, February 2005.

X. Daftar Penelitian

1. Respon Spektral Arus Foto Heterosambungan p-GaSb/n-GaAs, Dikti 2000
2. Pertukaran Atom-atom Pada Struktur Kuantum Untuk Aplikasi Integrasi Komunikasi Fiber Optik, Dikti 2008-2009.
3. Teknologi pembuatan sampah organik menjadi energi sebagai sumber energi alternatif, Dikti 2008-2009.

Makassar, Mei 2009

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