



**UNIVERSITY OF THE PHILIPPINES
BAGUIO**

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College of Science

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CURRICULUM VITAE

Prof. ALIPIO T. GARCIA

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Research Interest/Discipline: **Physics**



Educational Background

Duration:	June 2002-May 2007
Degree:	PhD Physics
University:	University of the Philippines Diliman
Dissertation or Thesis Title:	Influence of Arsenic Flux on the Growth Kinetics of InAs/GaAs Quantum Dots
Awards and Distinction Received:	2008 DOST-PCASTRD Most Outstanding Dissertation (Materials Science Cluster) DOST-funded

Duration:	June 1993-May 1999
Degree:	MS Physics
University:	University of the Philippines Diliman
Dissertation or Thesis Title:	High vacuum thermal oxidation of RF magnetron sputtered aluminum film on copper substrate for TBC-Al ₂ O ₃ growth
Awards and Distinction Received:	DOST-funded

Duration:	June 1981-April 1985
Degree:	BS Mathematics
University:	University of the Philippines College Baguio

Work Experience

Duration:	June 1990 - present
Position/Designation:	Instructor to Professor
Employer:	University of the Philippines Baguio

Duration:	June 1988-April 1990
Position/Designation:	Instructor
Employer:	Lyceum Northwestern

Duration: June 1986-December 1987
Position/Designation: Institutional Researcher
Employer: Adamson University

Other Designations/Committees while Affiliated with UP Baguio

Duration	Designation/ Committee
June 1990- present	Member/Chair, Various Committees
June 2009-April 2012	Vice-Chancellor for Academic Affairs

Research Projects/ Research Involvements/Patents

Duration	Research Project/Patent Details
January June 2017 – present	Co-proponent: Cordillera Textiles Project

List of Publications (Books, Journals, Proceedings, etc.)

ISI Articles

E. Estacio, C. Alonzo, A. Garcia, A. Somintac and A. Salvador, Time-response characteristics of an Oxide-confined GaAs Resonant-Cavity-enhanced Photodetector, Appl. Phys. Lett. 85 3011 (2004).

C.M.N. Mateo, A. Garcia, F.R. Ramos, and A. Salvador, Strain-induced Splitting of the Valence Band in Epitaxially Lifted-off GaAs Films, J.Appl. Phys. 101, 073519, 2007.
A. Garcia, C. M. Mateo, M. Defensor, H.H. Kim, C. Boothroyd, E. Philpott and A. Salvador, Influence of As₄ Flux on Growth Kinetics, Structure and Optical Properties of InAs/GaAs Quantum Dots, J.Appl. Phys 102, 073526, 2007.

M.F. Casco, J. Misa, A. Garcia, and A. Salvador , Surface Structure- Dependent Growth of InAs/InAlAs Quantum Wires on InP(100), Semiconductor Photonics: Nano-Structured Materials and Devices, Chua S.J., Teng J.H., Wada O., De La Rue R., and Tang X.H. (eds), Trans Tech Publications LTD., UK 2008.

Elmer Estacio, Nobuhiko Sarukura, Carlito Ponceca, Jr., Armando Somintac, Michelle Bailon-Somintac, Alipio Garcia, and Arnel Salvador, Transverse Magnetic Field Polarity Effects on the Terahertz Radiation in GaAs/ AlGaAs Modulation-Doped Heterostructures with Varying AlGaAs Spacer Layer Thickness, J.Appl. Phys 104 (1) 2008.

Elmer Estacio, Minh Hong Pham, Satoru Takatori, Marilou Cadatal-Raduban, Tomoharu Nakazato, Toshihiko Shimizu, Nobuhiko Sarukura, Armando Somintac, Michael Defensor, Fritz Christian B. Awitan, Rafael B. Jaculbia, Arnel Salvador, and Alipio Garcia, Strong Enhancement of Terahertz Emission from GaAs in InAs/GaAs Quantum Dot Structures, Appl. Phys. Lett. 94, 232104 2009.

S. Sakatori, et. al., A. Garcia, Investigation of THz Emission Characteristics of MBE-grown GaAs-based Nanostructures, Optical Materials 32 7 May 2010.

J. Afala, M.H. Balgos, A. Garcia, J.J. Ibanes, A. Salvador, A. Somintac (2013) Observation of picosecond carrier lifetimes in GaAs/AlGaAs single quantum wells grown at 630 C. Journal of Luminescence, 143, 538-541

Public Service

Date/s	Extension Service Details
June 1990 - present	SINSM Lecturer/Resource Speaker/Panelist

Membership in a National/International Organizations

Date/s	Organization Details
June 1993- present	Member, Samahang Pisika ng Pilipinas

Professional Development: Participation in Conferences/Trainings

Date	Conference and Venue
International December 5-21, 2019	Digital Weaving Training Honefoss, Norway