Curriculum Vitae of Academic Staff Teaching In This Programme

i.	Full Name	Farah Liyana binti Muhammad Khir
ii.	Academic	2007 USM
	Qualifications	MSc. (Solid State Physics)
		2005 USM
		BSc. Applied Science (Hons) Engineering Phycis
iii.	Current	-IEEE (Members)
	Professional	
	Membership	
iv.	Current	- Resource Person (RP) of Device Physics II (PHY594)
	Teaching and Administrative	- Resource Person (RP) of Special Topics in Microelectronics
	Responsibilities	(PHY605) - Instructor of Industrial Physics Lab II (PHY 615).
	Responsibilities	- Instructor of industrial Physics Lab if (FITT 013). -Member of "Jawatankuasa Piawaian Akademik" for AS251
		-Member of "Jawatankuasa Semakan kurikulum AS251"
		-Member of "Jawatankuasa Makmal Semiconduktor AS251"
v.	Previous	Graduate assistant at Universiti Sains Malaysia (2006)
	Employment	
vi.	Conference and	Conference: 2012 Postgraduate Electrical Engineering and
	Training	Computing Symposium (PEECS 2012), November 2012, Curtin
		University, Australia
		2. Conference: International Symposium on Compound
		Semiconductors, 27-30 August 2012, University of California,
		Santa Barbara, USA
		3. Conference: International Workshop on Nitride
		Semiconductors, 14-19 October 2012, Sapporo, Japan
		, , , , , ,
		4. Conference: 2012 Conference on Optoelectronic and
		Microelectronic Material, The University of Melbourne,
		Australia
		F. Conformational Control NUMBER
		5. Conference: International Compound on Nitride
		Semiconductors-10 (ICNS-10), Gaylord Convention Centre, Maryland, USA
		maryiana, com
		6. Conference: International Compound on Nitride
		Semiconductors-11 (ICNS-11), Beijing, China, 2015
	D 1 1	7 771 6 11 11 6 10 11 11 11 11
vii	Research and	7. Title: Optimisation of AlGaN/GaN-based nitrate sensor
•	Publications	Poster Presentation Author(s): F.L.M. Khir, M. Myers, A. Podolska, M.V. Baker, B.D.
		Nener, G. Parish
		Netici, G. i diloti

Conference: 2012 Postgraduate Electrical Engineering and Computing Symposium (PEECS 2012), November 2012, Curtin University, Australia

8. Title: Nitrate ion detection using AlGaN/GaN heterostructure devoces without reference electrode

Poster Presentation

Author(s): F.L.M. Khir, M. Myers, A. Podolska, M.V. Baker, B.D.

Nener, G. Parish

Conference: International Symposium on Compound Semiconductors, 27-30 August 2012, University of California, Santa Barbara, USA

9. Title: Device optimisation of AlGaN/GaN-based sensors using ion selective membranes

Poster Presentation

Author(s): F.L.M. Khir, M. Myers, A. Podolska, B.D. Nener, G.

Parish

Conference: International Workshop on Nitride

Semiconductors, 14-19 October 2012, Sapporo, Japan

10. Title: Optimisation studies for AlGaN/GaN-based nitrate sensors

Poster presentation

Author(s): F.L.M. Khir, M. Myers, A. Podolska, M.V. Baker, B.D.

Nener, G. Parish

Conference: 2012 Conference on Optoelectronic and Microelectronic Material, The University of Melbourne,

Australia

DOI: 10.1109/COMMAD.2012.6472411

11. Title: Synchrotron-based X-ray photoelectron studies of AlGaN and GaN surface oxide chemistry

Oral Presentation

Author(s): F.L.M. Khir, M. Myers, A. Podolska, L. Silberstein, T.

M. Sanders, M.V. Baker, B.D. Nener, G. Parish

Conference: International Compound on Nitride

Semiconductors-10 (ICNS-10), Gaylord Convention Centre, Maryland, USA

12. Nitrate ion detection using AlGaN/GaN heterostructure-based devices without a reference electrode

Journal Paper

301-305

Author(s): M. Myers, F.L.M. Khir, A. Podolska, G.A. Umano-

Membreno, M.V. Baker, B.D. Nener, G. Parish

Journal: Sensors and Actuators B: Chemical, Vol 181, 2013, p

	Г	
		DOI: http://dx.doi.org/10.1016/j.snb.2013.02.006
	13	. Synchrotron-based XPS studies of AlGaN and GaN surface chemistry and its relationship to ion sensor behavior Journal Paper under review for Elsevier Editorial Ststem ™ for Applied Surface Science Author(s): M. Myers, F.L.M. Khir, A. Podolska, G.A. Umano-Membreno, M.V. Baker, B.D. Nener, G. Parish
	14.	Reference electrode free AlGAN/GaN-based sensor response towards acidic and basic solutions Author(s): F.L.M. Khir, M. Myers, G.A. Umana-Membreno , M.V. Baker, B.D. Nener, G. Parish Conference: International Compound on Nitride Semiconductors-11 (ICNS-11), Beijing, China, 2015
	15.	In-situ studies of AlGaN/GaN 2DEG conductivity as a function of zwitterionic molecule surface coverage Author(s): F.L.M. Khir, M. Myers, A. Tadich, M. A. Home, G.A. Umana-Membreno , M.V. Baker, B.D. Nener, G. Parish Conference: International Compound on Nitride Semiconductors-11 (ICNS-11), Beijing, China, 2015
	16.	Reduction of surface carbon contamination on AlGaN/GaN via cleaning under ultra-high vacuum Author(s): F.L.M. Khir, M. Myers, A. Tadich, G.A. Umana-Membreno , M.V. Baker, B.D. Nener, G. Parish Conference: International Compound on Nitride Semiconductors-11 (ICNS-11), Beijing, China, 2015
	17.	XPS and NEXAFS study of glycine adsorption to GaN-capped AlGaN/GaN heterostructures Author(s): M.A. Home, C. G. Mennell, M. Myers, F.L.M. Khir, A. TAdich, M.V. Baker, B.D. Nener, G. Parish Conference: International Conference on Nanoscience and Nanotechnology, Australian National University, 2016
	18.	Investigations of reference electrode free GaN-cap/AlGaN/GaN-based sensor response towards acidic and basic solution Author(s): F.L.M. Khir, M. Myers, G.A. Umana-Membreno, M.V. Baker, B.D. Nener, G. Parish Paper under revision: Sensors and Actuators (B)
vii	Consultancy	
i.		
ix.	Community 1. Service	Student officer to Zoo Melaka for AS251 community service
	•	

х.	Other Relevant		
	Information	 Served as a minute taker in few MSc. viva Served as second examiner for several final year research projects, Faculty of Applied Science, UiTM 	
	Field of	Semiconductor device fabrication, III-V material, and chemical	
	expertise	sensor	