



CURRICULUM VITAE



I. PERSONAL PARTICULARS

Name	Dr. Nor Azlian Biti Abdul Manaf
Current Position Faculty / Department	Senior Lecturer (DS51)

II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS

(Please list all academic qualifications, from your first degree, in chronological order)

Year	Degree	Discipline	University
2004	Bachelor of Science (Hons)	Applied Physics	University Malaya
2008	Master of Science	Microengineering and nanoelectronics	National University of Malaysia
2015	Doctor of Philosophy	Materials Engineering (Solar cells materials)	Sheffield Hallam University

III. TITLES OF POSTGRADUATE THESES WRITTEN (At MSc/PhD Level)

No.	TITLES OF POSTGRADUATE THESES
1.	Fabrikasi Filem Nipis Strontium Barium Bismut Titanat Untuk Piezoelektrik Sensor (MSc)
2.	Organic/Inorganic Hybrid Solar Cells Based on Electroplated CdTe (PhD)

IV. WORK EXPERIENCE (Please list your relevant experience in chronological order)

Year	Position	Organisation	Start and End Date
2005	Application Engineer	KL Automation Engineering Sdn Bhd.	1/1/2005 – 30/6/2005
2005	Research Assistant	Universiti Kebangsaan Malaysia	1/7/2005 – 31/12/2005
2006	Graduate Research Assistant	Universiti Kebangsaan Malaysia	1/1/2006 – 31/12/2007
2008	Researcher	Telekom Malaysia Research and Development Sdn. Bhd.	3/2/2008 – 30/7/2011
2011	Tutor	Telekom Malaysia Research and Development Sdn. Bhd.	1/8/2011– 16/12/2015

1.0 TEACHING AND SUPERVISION**1.1 Postgraduate Courses**

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year
1.	Research Methodology (Research Design)	1	2021
2.	Research Methodology (Research Design)	2	2020

1.2 Pre-Degree Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester, Year
1.	Pengukuhan Pembelajaran	Semester 2, 2011/12
2.	Basic Physics in Medicine 2 (Penyelaras subjek)	Semester 3, 2011/12
3.	Physics I	Semester 1, 2016/17 Semester 1, 2017/18 Semester 1, 2018/19 Semester 1, 2019/20 Semester 1, 2020/21 Semester 1, 2021/22
4.	Physics II	Semester 2, 2011/12 Semester 2, 2015/16 Semester 2, 2016/17 Semester 2, 2017/18 Semester 2, 2018/19 Semester 2, 2019/20 Semester 2, 2020/21 Semester 2, 2021/22

1.3 PhD Supervision

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status <ul style="list-style-type: none">• Completed• Submitted• In Progress	University
1.	Nursaadah Binti Ahmad Poad	Saturable Absorption Properties of Organic Semiconductor Film for Low Power Laser Application	1/7/2021	Co-Supervisor	In Progress	UPNM

1.4 MSc (by Research)

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status <ul style="list-style-type: none">• Completed• Submitted• In Progress	University
1.	Nur Atikah Binti Shaari	Optimization of CdTe Physical Properties For High Efficiency CdS/CdTe Solar Cells Application	1/7/2018	Main Supervisor	Completed	UPNM
2.	Asyraf Hakimi Bin Azmi	Effects of Annealing Temperature on Bismuth Oxyiodide Thin Film for Lead Free Perovskite	2/3/2020	Main Supervisor	Completed	UPNM
3.	Muhammad Nur Hisyam bin Rosman	Effect of Ionizing on Physical and Micromechanical Properties of Soldier Joint	18/9/2020	Co-Supervisor	In Progress	UPNM
4.	Nor Falihan binti Ramli	Structural, Optical and Radiation Shielding Properties of Bismuth-Boro-Telluride Glass Doped Thulium Oxide	10/3/2021	Co-Supervisor	In Progress	UPNM

1.5 MSc External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University
1.	Nursaadah Binti Ahmad Poad	Modification of Spin-Coated Organic Semiconductor on ITO Contact	Internal		UPNM
2.	Nur Shafiqah Binti Safee	Effect of Blast Wave on Physical and Micromechanical Properties of Solder Join with the Different Surface Finish	Internal		UPNM

1.6 Supervision (Postgraduate Research Project or Final Year Research Project)

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main/Co-Supervision)	Status <ul style="list-style-type: none">• Completed• Submitted• In Progress
1.	Joseph Dabrera	Development of Solar Energy Materials and Thin Film Solar Cells using CdTe and CdS Grown in Cl-containing medium.	2011	Co-Supervisor (Final year research project, Bachelor of Engineering, Sheffield Hallam University, Sheffield, UK)	Completed
2.	Gary Jennings	A Study in the properties of thin film semiconductors for the application of solar cell devices.	2012	Co-Supervisor (Final year research project, Bachelor of Engineering (Electrical), Sheffield Hallam University, Sheffield, UK)	Completed

2.0 RESEARCH, PUBLICATION AND PRESENTATION

2.1 Research Projects

(Please list in chronological order and state: title, list of researchers, grant/year, source/amount and status)

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1.	VCSEL Optical transceiver for CWDM-PON & Metro Ethernet Application. (Grant Telekom Malaysia)	<u>Principal:</u> Dr Sharizal Alias <u>Members:</u> 1. Dr Sufian Mousa Mitani 2. Fauzi Maulud 3. Nor Azlian Abdul Manaf	2007-2009	RM300,000	Completed
2.	GaInNAs Laser Source for Long Wavelength Optical Communication. (Grant Telekom Malaysia)	<u>Principal:</u> Dr Sharizal Alias <u>Members:</u> 1. Dr Sufian Mousa Mitani 2. Fauzi Maulud 3. Nor Azlian Abdul Manaf 4. Farha Maskuriy	2009-2011	RM240,000	Completed
3.	Optimisation of CdTe Physical Properties for High Efficiency CdS/CdTe Solar Cells Application (Short Grant (GPJP): UPNM/2016/GPJP/3/SG/1)	<u>Principal:</u> Dr. Nor Azlian Binti Abdul Manaf <u>Members:</u> 1. Prof. Muhd Zu Azhan Bin Yahya 2. Noor Aisyah Binti Ahmad Shah 3. Azuraida Binti Amat.	2016 - 2018	RM 20,000	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
4.	Design of Hybrid Carbon Nanotube/Polythiophene based Chemiresistive Sensor for VX-type Nerve Agent Stimulant. (Grant UPNM: UPNM/2018/CHEMDEF/ST/03)	<u>Principal:</u> Prof Madya Dr. Norhana Abdul Halim <u>Members:</u> 1. Prof Dr Ong Keat Khim 2. Dr Nor Azlian Abdul Manaf 3. Dr Siti Aminah Mohd Noor 4. Prof Madya Dr Noor Azilah Kasim 5. Ahmad Farid Mohd Azmi	2019 - 2020	RM 200,000	Completed
5.	Atomic Level Mechanism of Interconnect materials of Electronic Packaging in Exposure to Ionizing Radiation (FRGS/1/2018/STG07/UPNM/02/1)	<u>Principal:</u> Dr. Wan Yusmawati Binti Wan Yusoff <u>Members:</u> 1. Prof Dr. Muhd Zuazhan Yahya 2. Dr Azuraida Binti Amat 3. Dr Nor Azlian Binti Abdul Manaf	2019-2022	RM 86,000	Completed
6.	Synthesis, characterization and fabrication of bismuth oxyiodide thin film for non-toxic perovskite solar cells. (FRGS/1/2019/STG07/UPNM/02/3)	<u>Principal:</u> Dr. Nor Azlian Abdul Manaf <u>Members:</u> 1. Prof Dr. Nor Sabirin Mohamed 2. Prof Dr Muhd Zuazhan Yahya 3. Dr Wan Yusmawati Wan Yusoff 4. Prof Imyhamy M Dharmadasa 5. Dr. Fijay Fauzi	2019-2022	RM108,200	Completed
7.	Theoretical Gamma Shielding Properties of Bismuth-Boro-Tellurite Glass Doped TM2O3/EU2O3 For Radiation Defense Material (Grant UPNM: UPNM/2019/GPJP/2/SG/6)	<u>Principal:</u> Dr. Azuraida Amat <u>Members:</u> 1. Dr Wan Yusmawati 2. Puan Nurazlin 3. Dr Nor Azlian	2019-2021	RM20,000	Completed

2.2 Publications

2.2.1 Academic Journal

(Please list in chronological order and state: authors, year, title, publisher/journal, volume and number of pages (Please bold your name))

No.	Authors, year, title, publisher/journal, volume and number of pages (Please bold your name)	Type of Journal • ISI • SCOPUS • Peer-Reviewed
1.	Nor Azlian A. Manaf , Muhamad Mat Salleh & Muhammad Yahaya, Fabrication of Sr1-xBaxBi4Ti4O15 Thin Films as Piezoelectric Pressure Sensor. <i>J. Solid State Science and Technology</i> , 15(2),103-111 (2007).	Scopus
2.	N. A. Abdul-Manaf , O.K. Echendu, F. Fauzi L. Bowen and I. M. Dharmadasa, Development of Polyaniline Using Electrochemical Technique for Plugging Pinholes in Cadmium Sulfide/Cadmium Telluride Solar Cells. <i>Journal of Electronic Materials</i> , 43:11, 4003–4010 (2014).	Scopus
3.	N. A. Abdul-Manaf , R. Weerasinghe, O.K. Echendu and I. M. Dharmadasa, Electroplating and characterisation of Cadmium Sulphide thin films using Ammonium Thiosulphate as the sulphur source, <i>Journal of Materials Science: Materials in Electronics</i> , 26: 4, 2418-2429 (2015).	Scopus
4.	N. A. Abdul-Manaf , H. I. Salim, M. L. Madugu, O. I. Olusola and I. M. Dharmadasa, Electro-plating and characterisation of CdTe thin films using CdCl ₂ as the cadmium source, <i>Energies</i> , 8:10, 10883-10903 (2015).	Scopus
5.	I. M. Dharmadasa, O.K. Echendu, F. Fauzi, N. A. Abdul-Manaf and H.I. Salim, Effects of CdCl ₂ treatment on deep levels in CdTe and their implications on thin film solar cells; A comprehensive photoluminescence study, <i>Journal of Materials Science: Materials in Electronic</i> , 26, 4571-4583 (2015).	Scopus
6.	O. I. Olusola, M. L. Madugu, N. A. Abdul-Manaf and I. M. Dharmadasa, Development of n- and p- type ZnTe thin films for applications in electronic devices, <i>Current Applied Physics</i> , 16, 120-130 (2016).	Scopus
7.	K. D. M. S. P. K. Kumarasinghe, D. S. M. De Silva, K. A. S. Pathiratne, H. I. Salim, N. A. Abdul-Manaf , IM Dharmadasa, Electrodeposition and characterization of as-deposited and annealed CdTe thin films, <i>Ceylon Journal of Science</i> , 45(2) (2016).	Scopus
8	I. M. Dharmadasa, O. K. Echendu, F. Fauzi, H. I. Salim and N. A. Abdul-Manaf , J. B. Jasinski, A. Sherehiy and G. Sumanasekera, Study of Fermi level position before and after CdCl ₂ treatment of CdTe thin films using ultraviolet photoemission spectroscopy, <i>Journal of Materials Science: Materials in Electronics</i> , 27, 5039 – 5046 (2016).	Scopus
9	N. A. Abdul-Manaf and I. M. Dharmadasa, 2017, Development of CdTe Thin Film Solar Cells for Military Application, <i>Defence S&T Technical Bulletin</i> , Vol. 10, No. 2, 129-141 (2017).	ISI
10.	I. M. Dharmadasa, O. K Echendu, F. Fauzi, N. A. Abdul-Manaf , O. I. Olusola, H.I. Salim, M/ L. Madugu and A. A. Ojo, Improvement of composition of CdTe thin films during heat treatment in the presence of CdCl ₂ , <i>Journal of Materials Science: Materials in Electronics</i> , Volume 28, Issue 3, Pages 2343-2352 (2017).	Scopus
11.	N. A. Abdul-Manaf, W. Y. W. Yusoff, S. Z. N. Demon, N. A. Shaari and A. Shamshuddin, Anodic and cathodic deposition of polyaniline films: A comparison between the two methods, <i>Materials Research Express</i> , 6 (9), 096453 (2019)	Scopus

12.	S. Z. N. Demon, A. I. Kamisan, N. Abdullah, S. A. M. Noor, O. K. Khim, N. A. M. Kasim, N. A. Abdul-Manaf , A. F. M. Azmi, N. A. Halim, Graphene-based materials in gas sensor applications: A review, <i>Sensors and Materials</i> , 32 (2), 759-777 (2020)	Scopus
13.	F. Fauzi, M. F. N. Tajudin, M. F. Mohamed, A. Azmi and N. A. A. Manaf , Assessment of in-house build low cost solar panel simulator, <i>Journal of Physics: Conference Series</i> , 1878 (1), 012038 (2021)	Scopus
14.	N. A. Abdul-Manaf and AH Azmi, Microstructure study of bismuth oxyiodide thin film prepared by SILAR dip coating, <i>Journal of Physics: Conference Series</i> , 1816 (1), 012115 (2021)	Scopus
15.	N. A. Abdul-Manaf , AH Azmi, F Fauzi, NS Mohamed, The effects of micro and macro structure on electronic properties of bismuth oxyiodide thin films, <i>Materials Research Express</i> , 8 (9), 096401 (2021)	Scopus
16.	N. A. Shaari, N. A. Abdul-Manaf , The Effect of pH and Monomer Concentration on Polyaniline Thin Films Grown Using Electrodeposition, <i>Solid State Phenomena</i> , 317, 483-487 (2021)	Scopus
17.	A. H. Azmi and N. A. Abdul-Manaf , Study of synthesis and characterization of bismuth oxyiodide thin film for non- toxic perovskite solar cells, <i>Jurnal kejuruteraan</i> , SI 4(1), 95-100 (2021)	Peer Reviewed
18.	F. Fauzi, M. E. Zaidi, U. Udom and N. A. A. Manaf , Switch Mode Power Supply (SMPS) Utilizing Flyback Converter Topology: Simulation and Experiment, <i>Journal of Physics: Conference Series</i> 2312 (1), 012050 (2022)	Scopus
19.	A. Azuraida, O. Nurshahidah, W. Y. W. Yusoff, R. Falihan and N. A. Abdul-Manaf , Effect of thulium boro-tellurite glass system on radiation shielding parameters, <i>Journal of Ovonic Research</i> 18 (2), 141-148 (2022)	Scopus

2.2.2 Book/Chapter in Book:

(Please list in chronological order and state: authors, year, title, publisher, volume and number of pages
(Please bold your name)

No.	Authors, year, title, publisher, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
1.	Shamshuddin Jusop and Nor Azlian Abdul Manaf , 2018, The Earth Story: Lesson from the Quran and Science, Serdang, Malaysia: UPM Press, 2 nd Edition, pages 145.	National
2.	Norherdawati Kasim, Norhana Abdul Halim, Fadhlul Wafi Badrudin, Ahmad Farid Mohd Azmi, Azuraida Amat, Jahwarhar Izuan Abdul Rashid, Noor Aisyah Ahmad Shah, Noor Azilah Mohd Kasim, Noor Fadhilah Rahmat, Nor Azlian Binti Abdul Manaf , Norli Abdullah, Safura Taufik, Siti Hasnawati Jamal, Siti Zulaikha Ngah Demon and Wan Yusmawati Wan Yusoff, 2020, Kompilasi Ujikaji Sains STEM, Kuala Lumpur: UPNM Press, pages 54.	National

2.2.3 Proceeding Articles :

(Please list in chronological order and state: authors, year, title, publisher/conference, volume and number of pages (Please bold your name))

No.	Authors, year, title, publisher/conference, volume and number of pages (Please bold your name)	Level • International • National • University
1.	Nor Azlian A. Manaf , Muhamad Mat Salleh & Muhammad Yahaya, Fabrication of Bismuth Titanate Thin Films as Piezoelectric Pressure Sensor. 2005, Proceeding 2005 IEEE National Symposium on Microelectronic (NSM2005) November 22-24, 2005 Hilton Kuching, Sarawak, Malaysia p 246-248.	National
2.	Nor Azlian A. Manaf , Muhamad Mat Salleh & Muhammad Yahaya, 2006, Effect of Annealing on the Sol-Gel Derived of $\text{SrBi}_4\text{Ti}_4\text{O}_{15}$ Thin Films for Piezoelectric Pressure Sensor , Proceedings 2006 IEEE International Conference on Semiconductor Electronics, Nov. 29-Dec. 1, 2006, Kuala Lumpur, Malaysia , 14-19.	National
3.	Nor Azlian Abdul Manaf , Muhamad Mat Salleh and Muhammad Yahaya, 2007. The Influence of Sr, Ba Compositions on the Performance of $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Piezoelectric Pressure Sensors. 2007 IEEE Regional Symposium On Microelectronics (RSM2007), Penang, 3-6 December 2007:404-409.	National
4.	Nor Azlian Abdul Manaf , Muhamad Mat Salleh & Muhammad Yahaya, 2007. Nanocrystalline $\text{Sr}_{1-x}\text{Ba}_x\text{Bi}_4\text{Ti}_4\text{O}_{15}$ thin films for piezoelectric pressure sensor. Smart Materials and Nanotechnology in Engineering, edited by Shanyi Du, Jinsong Leng & Anand K. Asundi, Proceedings of SPIE Vol. 6423 (SPIE, Bellingham, WA, 2007).	International
5.	Nor Azlian Abdul Manaf , Mohd Sharizal Alias & Sufian Mousa Mithani, 2008, Modeling and Simulation of DBR for 1490 nm VCSELs Diode, Proc. of 2 nd International Conference on Science & Technology: Application in Industry & Education 2008, Penang, 12-13 Dec 2008, 189-192.	National
6.	Nor Azlian Abdul Manaf , Mohd Sharizal Alias, Sufian Mousa Mithani, Mohd Fauzi Maulud, Mohamed Razman Yahya & Abdul Fatah Awang Mat, 2008, Design and Optimization of Distributed Bragg Reflector for 1310 nm Vertical cavity Surface Emitting Lasers, Proc. of IEEE International Conference on Semiconductor Electronics 2008, Johor Bahru, 25-27 Nov 2008, 254-258.	National
7.	Nor Azlian Abdul Manaf , Mohd Sharizal Alias & Sufian Mousa Mitani, 2009, Effect of In and N incorporation on the GaInNAs VCSELs, Proc. of Asia Communications and Photonics conference and Exhibition (ACP 2009), Shanghai, China, 23-28.	International
8.	Nor Azlian Abdul Manaf , Mohd Sharizal Alias & Sufian Mousa Mitani, 2009, Effect of In and N on the lasing characteristics of GaInNAs/GaAs quantum well for VCSEL application, Proc. of International Conference on Nanotechnology Research & Commercialization (ICONT) 2009, Langkawi, 14-17 Dec 2009.	National
9.	Nor Azlian Abdul Manaf , Mohd Sharizal Alias & Sufian Mousa Mitani, The Impact of Device Operating Temperature on the Performance of 1.3 μm Vertical Cavity Surface Emitting Lasers, Proc. Of Regional Symposium on Micro & Nano Electronics (RSM) 2009, Kota Bharu, 9-11 Aug 2009.	National
11.	Nor Azlian Abdul Manaf , Mohd Sharizal Alias, Sufian Mousa Mitani and Farha Maskuriy, 2010, Multiple quantum wells GaInNAs for ridge-wave-guide laser diodes,	National

	<i>Proc. Of 34th International Electronic manufacturing Technology Conference (IEMT) 2010, November 30- December 2, 2010, Melaka, Malaysia, 19-22.</i>	
12.	Nor Azlian Abdul Manaf , Mohd Sharizal Alias, Sufian Mousa Mitani and Farha Maskuriy, 2010, Effect of strain-compensating and strain-mediating layer on GaInNAs quantum well lasers, <i>Proc. of Advanced Processes and Materials, World Engineering Congress (WEC) 2010, August 2-5, 2010, Sarawak, Malaysia, 211-216.</i>	National
13.	N. A. Abdul-Manaf, O. K. Echendu, F. Fauzi, L. Bowen and I. M. Dharmadasa , 2013, Electrodeposition and characterization of polyaniline to develop organic/inorganic hybrid solar cells based on cadmium telluride, <i>Proceedings of the 28th European Photovoltaic Solar Energy Conference and Exhibition, Paris, France, 1-3 October 2013 pp. 2327 - 2332.</i>	International
14.	I. M. Dharmadasa, O. K. Echendu, N. A. Abdul-Manaf , M. B. Dergacheva, K. A. Mit and K. A. Urazov, 2013, Next generation solar cells using graded bandgap structures utilising nano- and micro- rod type semiconductors, <i>Solar Asia 2013, CIUM, University of Malaya, Kuala Lumpur, Malaysia, 22-24 August 2013, pp. 17-22.</i>	National
15.	N. A. Abdul-Manaf , O. K. Echendu, H. I. Salim, L. Bowen and I. M. Dharmadasa, 2013, Electrodeposition and characterization of polyaniline for development of hybrid solar cells, <i>Solar Asia 2013, CIUM, University of Malaya, Kuala Lumpur, Malaysia, 22-24 August 2013, pp. 105-110.</i>	National
16.	I. M. Dharmadasa, D. G. Diso, O. K. Echendu, H. I. Salim, N. A. Abdul-Manaf , M. B. Dergacheva, K. A. Mit and K. A. Urazov, 2013, Thin film photovoltaic solar cells with nano- and micro-rod type II-VI semiconducting materials grown by electroplating, <i>Proceedings of the 9th Photovoltaic Science, Applications and Technology Conference C95, Swansea, United Kingdom, 10-12 April 2013, pp 79-82.</i>	International
17.	N. A. Abdul-Manaf , H. I. Salim, M. L. Madugu and I. M. Dharmadasa, 2015, Electrodeposition of CdTe thin films using chloride precursor for the application in solar cells, <i>Photovoltaic Science Application and Technology Proceeding, PVSAT 11, University of Leeds, Leeds, 15-17 April 2015, pp. 137-140.</i>	International
18.	N. A. Abdul-Manaf and I. M. Dharmadasa, 2015, Fabrication of CdS, CdTe, and PANi Thin Films For Solar Cell Application Based on Electrodeposition Technique, <i>UK Semiconductors & UK Nitrides Consortium Summer Meeting, 1-2 July, 2015, Sheffield, United Kingdom, pp. 132.</i>	International
19.	N. A. Abdul-Manaf and I. M. Dharmadasa, 2016, Development of CdS/CdTe Thin Film Solar Cells for Military Applications. <i>Proceeding of 3rd International Conference on Defence and Security Technology (DSTC2016), 15 – 17 Ogos 2016, Marriot Hotel, Putrajaya.</i>	International
20.	N. A. Abdul-Manaf and I. M. Dharmadasa, 2017, The Effect of Thermal Annealing on CdS/CdTe solar cells, <i>ICAES 2017 Proceeding, Thailand.</i>	International
21.	N. A. Abdul Manaf and A. H. Azmi, <i>Proceedings, 10th International Conference on Theoretical and Applied Physics (ICTAP 2020) : Lombok, Indonesia.</i>	International
22.	N. A. Abdul Manaf and S. Ibrahim <i>Proceeding of 10th European Conference on Renewable Energy Systems (ECRES 2022) : Istanbul Medeniyet University, Istanbul.</i>	International

2.3 Presentation:

(Please list in chronological order)

No.	Event	Title of Paper Presented	Role (Keynote Speaker / Invited Speaker / Presenter)	Date	Organizer
1.	IEEE International Conference on Semiconductor Electronics	Effect of Annealing on the Sol-Gel Derived SrBi ₄ Ti ₄ O ₁₅ Thin Films for Piezoelectric Pressure Sensors	Presenter	29th November – 1/12/2006	IEEE and Electron Device Society
2.	The International Society For Optical Engineering	Nanocrystalline Sr _{1-x} Ba _x Bi ₄ Ti ₄ O ₁₅ thin films for piezoelectric pressure sensor	Presenter	1 st - 4th July 2007	SPIE
3.	International Conference on Semiconductor Electronics (ICSE 2008)	Design and optimization of distributed Bragg reflector for 1310nm vertical cavity surface emitting lasers	Presenter	25-27 th November 2008	IEEE and IMEN, UKM
4.	Asia Communications and Photonics conference and Exhibition (ACP 2009)	Effect of In and N incorporation on the GaInNAs VCSELs.	Presenter	2-6 th November 2009	IEEE
5.	2010 34th IEEE/CPMT International Electronic Manufacturing Technology Symposium (IEMT)	Multiple quantum wells GaInNAs for ridge-wave-guide laser diodes	Presenter	30 th November – 02 nd December 2010	IEEE
6.	Solar Asia 2013 : 2nd International Conference on Solar Energy Materials, Solar Cells and Solar Energy Applications	Electrodeposition and characterization of polyaniline for development of organic/inorganic hybrid solar cells	Presenter	22-24 August 2013	Center for Ionics, University of Malaya
7.	28th European Photovoltaic Solar Energy Conference and Exhibition	Electrodeposition and characterization of Polyaniline to develop organic/inorganic hybrid solar cells based on Cadmium Telluride	Presenter	November 2013	EU PVSEC
8.	11th PVSAT Conference, Leeds, UK	Electrodeposition of CdTe thin films using chloride precursor for the application in solar cells	Presenter	4-7th April 2014	UK PVSAT
9.	UK Semiconductors & UK Nitrides Consortium Summer Meeting	Fabrication of CdS, CdTe, and PANi Thin Films For Solar Cell Application Based on	Presenter	1-2 nd July, 2015	UK-PV SAT

		Electrodeposition Technique			
10.	3rd International Conference on Defence and Security Technology (DSTC2016)	Development of CdS/CdTe Thin Film Solar Cells for Military Applications. Proceeding of),	Presenter	15 – 17 th Ogos 2016	UPNM and STRIDE
11.	International Conference on Solid State Science and Technology (ICSSST 2019)	The Effect of Thermal Annealing on CdS/CdTe solar cells,	Invited Speaker	11-13 th November 2019	MASS and UPNM
12.	International Conference on Theoretical and Applied Physics (ICTAP 2020)	Microstructure study of bismuth oxyiodide thin film prepared by SILAR dip coating	Invited Speaker	20-22 November 2020	University Lombok, Indonesia
13.	10th European Conference on Renewable Energy Systems (ECRES 2022)	The effect of Microstructure and structural on electronic properties of BiOI thin films.	Presenter	3-7 May 2022	Istanbul Medeniyet University, Turkey

3.0 ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY

3.1 Academic Recognition and Leadership

Academic recognition and leadership such as Academic Award, Academic Assessor/ /Promotion Assessor (External), Visiting Professor/Fellowship, Editorial Board and other academic recognition.

No.	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1.	Anugerah Perkhidmatan Cemerlang (APC) 2017	2017	University	UPNM
2.	Anugerah Akademik Cemerlang (AAC) 2018 Kategori: Anugerah Penerbitan Buku (Sains dan Teknologi)	2018	University	UPNM
3.	Anugerah Skim Insentif Hasil Penyelidikan dan Inovasi 2019	2019	University	UPNM
4.	Golden Talent	2019	University	UPNM

3.3 Service to the University

Service to the university such as Vice Chancellor/Deputy Vice Chancellor/Dean/Director, Deputy Dean/Deputy Director/Unit Coordinator/Hostel Warden, Programme Chairperson/ Assistant Warden/Fellow. Representing University in Sports and Other Non-Academic Activities. Professional/Academic Association (Committee Member).

(Please list in chronological order and state: position/membership and duration)

No.	Position/Membership	Duration
1.	Solar Energy Society UK-ISES	2013-2016
2.	The Malaysian Solid State Science and Technology Science (MASS)	Life Membership
3.	Institute Fizik Malaysia (IFM)	Life Membership
4.	Pertubuhan Gagasan Pendidikan Melayu Malaysia (GAGASAN)	2016-2017
5.	IEEE member	2021

3.4 Service to the community

(Please list in chronological order)

No.	Organization	Role	Start Date	End Date	Level
1.	GAGASAN	Pengubal Soalan Sains, Bengkel Pelaksanaan Penyediaan Soalan Olympiad	12.8.2016	14.8.2016	Nasional
2.	GAGASAN	AJK Protocol, Pertandingan Olympiad Sains dan Matematik Peringkat Wilayah	13.10.2016	13.10.2016	Nasional
3.	GAGASAN	Juri dan Hakim	12.11.2016	12.11.2016	Nasional
4.	Kementerian Pelajaran Malaysia, Bahagian Matrikulasi, KPM	Menanda Kertas Matrikulasi (subjek Fizik)	14.5.2017	19.5.2017	Malaysia
5.	Sek.Men. Keb. Bandar Tasik Selatan	Committee of Pameran Sempena Karnival Pendidikan (STEM)	14 Ogos 2018	16 Ogos 2018	Kementerian Pendidikan
6.	Universiti Pertahanan Nasional Malaysia	Fasilitatorof Bengkel Training of Trainers bagi Program Mentor Mentee di Bawah Inisiatif Pengukuhan STEM	17 Oktober 2018	18 Oktober 2018	Kementerian Pendidikan PeringkatWilayah Persekutuan
7.	Universiti Pertahanan Nasional Malaysia dan The Malaysian Solid State Science & Technology Society (MASS)	Ahli Jawatankuasa 7th International Conference on Solid State Science and Technology (ICSSST 2019) –Ketua AJK Teknikal dan Logistik	11 November 2019	13 November 2019	International

I declare that all the information in this form is true and correct. The University has the right to withdraw or reject the application if any information in this form found to be untrue.

Name : Dr. Nor Azlian Binti Abdul Manaf

Faculty/Department : Centre for Defence Foundation Studies/ Physics Department

Date : 25/8/2022