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*Kewajipan, Maruah, Integriti*

MS ISO 9001:2008 REG NO KLR -0500197

CURRICULUM VITAE

<b>I. PERSONAL PARTICULARS</b>			
<b>Name</b>		Prof. Emeritus Dato' Dr. Wan Md Zin bin Wan Yunus	
<b>Current Position</b>		Director, Centre for Tropicalisation, UPNM	
<b>Faculty / Department</b>			
<b>II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS</b> (Please list all academic qualifications, from your first degree, in chronological order)			
<b>Year</b>	<b>Degree</b>	<b>Discipline</b>	<b>University</b>
1976	BSc	Chemistry	UKM
1977	Postgraduate Diploma	Chemistry	Kelsterton College, Wales, UK
1978	MSc	Analytical Chemistry	Uni. of Salford, UK
1980	PhD	Analytical Chemistry	Uni. of Salford, UK
<b>III. TITLES OF POSTGRADUATE THESES WRITTEN</b>			
<b>No.</b>	<b>TITLES OF POSTGRADUATE THESES</b>		
1	Characterization of poly thiocarbamate ion exchange resin		
2	Synthesis optimization and application of polyhydroxamic acid resin		

<b>IV. WORK EXPERIENCE</b> (Please list your relevant experience in chronological order)			
<b>Year</b>	<b>Position</b>	<b>Field of Work</b>	<b>Place of Work</b>
1980-2011	Lecturer, associate professor, professor, senior professor, Head of Chemistry Department, Deputy Dean and Dean of Faculty of Science , UPM	Teaching, research and administration	UPM
2011-present	Senior Professor, Coordinator of Quality Centre, Director of Publication Centre, Director for Defence Foundation Studies and Director of Centre for Tropicalication.	Teaching, research and administration	UPNM

## **1.0 TEACHING AND SUPERVISION**

### **1.1 Undergraduate Courses**

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

No	Course Title	Semester	Year
1	Chemistry II	2	2016-17
2	Chemistry I	1	2016-17
3	Chemistry II	2	2015-16
4	Chemistry I	1	2015-16
5	Chemistry II	2	2014-15
6	Chemistry I	1	2014-15
7	Chemistry II	2	2013-14
8	Chemistry I	1	2013-14
9	Chemistry II	2	2012-13
10	Chemistry I	1	2012-13
11	Chemistry II	2	2011-12

### **1.2 Postgraduate Courses**

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

No	Course Title	Semester	Year
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### 1.3 Ph.D Supervision

(Please list in chronological order and state: name of student, year project title and status)

No	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"><li>• Completed</li><li>• Submitted</li><li>• In Progress</li></ul>
1	Siti Hasnawati Binti Jamal	Synthesis and Properties Enhancement of PLA Nanocomposites	2013	In progress
2	Syed Mohd Syafiq bin Syed Ahmad	Lipase Catalysed Synthesis Of Epoxidized Fatty Hydrazides From Palm Oils	2015	In progress
3	Leong Jin Hong	Development of Portable Kit for Detection of Arsenic in Drinking Water	2013	Graduated
4	Zakiah Binti Jamingan	Synthesis of Epoxidized Fatty Hydrazides from Palm Oil and Their Application as A Clay Modifier for Polyurethane Nanocomposite.	2015	In progress
4	Soleha binti Mohamat Yusuff	Preparation and Characterization of Natural Fiber Based Activated Carbon for Removal of Pollutant	2014	In progress

		Gaseous		
5	Ainnur Izzati binti Kamisan	Study on Electrocatalysis Effect of Metal Oxides on a Cathode	2013	In progress
6	Noor Khairin Mohd (UPM)	Tribological Behavior of Palm Oil Based Fatty Hydrazide Derivatives as Lubricant Additives	2012	In progress
7	Nas Aulia binti Ahmad Nasaruddin (UPM)	Improvement Interfacial Bonding in Development of High Impact Material	2012	In progress
8	Mohd Nor Faiz Norrrahim (UPM)	Nanofiber and Nanocomposite Production From Oil Palm Biomass	2013	In progress
9	Noor Ida Binti Ahamad Nordin (UPM)	Improved Performance of Oil Palm Mesocarp Fiber Using Superheated Treatment	2011	Completed
10	Buong Woei (UPM)	Synthesis and Characterization of Graphene based Polymer Nanocomposites	2011	Completed
11	Then Yong Yee (UPM)	Preparation and Characterization of Superheated steam palm Oil Mesocarp Fiber/Polmer	2011	Completed

		Composites		
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#### 1.4 PhD.External/Internal Examination

(Please list in chronological order and state: name of student, year project title and status)

No	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"> <li>• Completed</li> <li>• Submitted</li> <li>• In Progress</li> </ul>
1	Zetty Azalea Binti Sutirman (UTM)	Modification and characterization of crosslinked chitosan with vinyl monomers for heavy metals ions sorption from aqueous solutions.	2017	Completed
2	Eshraq Ahmed Ahmed Abdullah (UPM)	Adsorptive Performance of Calcined and Uncalcined Bismuth Basic Nitrate and Its TiO <sub>2</sub> -Ag Modified Systems for Azo Dye Removal	2013	Completed
3	Khalid Ahmed Majali Raba'eh (UPM)	Polymerization of polyhydroxyethylacrylate (PHEA) and polyhydroxyethylmet hacrylate (PHEMA) polymer gel dosimeters used in radiotherapy	2011	Completed
4	Lee Heng Kah (USM)	Study of PHB/ENR Blends: Melt Reaction and Thermal Properties	2011	Completed

### 1.5 Supervision (Coursework and Project)

(Please list in chronological order and state: name of student, year, project title and status)

No	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"><li>• Completed</li><li>• Submitted</li><li>• In Progress</li></ul>
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### 1.6 M.Sc (by Research)

(Please list in chronological order and state: name of student, year, project title and status)

No	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"><li>• Completed</li><li>• Submitted</li><li>• In Progress</li></ul>
1	Nur Arthirah binti Zulkifli	Effective Technique to Stimulate Microgravity Condition to Improve Selected Rice Quality	2016	In progress
2	Ahmad Farhan bin Ahmad Tarmizi	Kinetics and Mechanism of Heavy Metals Removal by Waste Materials	2014	Submitted

### 1.7 M.Sc. External/Internal Examination

(Please list in chronological order and state: name of student, year, project title and status)

No	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"><li>• Completed</li><li>• Submitted</li><li>• In Progress</li></ul>
1	Ainil Hawa Binti Jasni	The simultaneous adsorption and photocatalytic degradation of aromatic compound of crude oil using electrospun P(3HB)-TiO <sub>2</sub> nanocomposite fibers	2016	Completed
2	Muhamad Nazmir Bin Mohd Warid (UPM)	Optimization of oil palm biomass superheated steam treatment improving fiber characteristic and biocomposite performance	2016	Completed
3	Mohd Fadhley Bin Ali (USM)	Development of a new class of liquid crystalline epoxy resin cured by mesogenic diols	2015	Completed
	Ja'afar Yusuf (UPM)	Amdoxime-Modified Poly (Acrylonitrile-Grafted Cassava Starch) And Its Adsorption Behavior	2015	Completed

		Towards Heavy Metal Ions		
4	Madiahah Binti Zainuddin	Development of Arsenic (III) Detection Method for Detection of Arsenic (III) in Drinking Water	2014	Completed
5	Mohd Nor Faiz Bin Norrahim (UPM)	Performance evaluation and chemical recyclability of polyethylene/poly ( 3-hydroxybutyrate-co-3-hydroxyvalerate) blend for sustainable packaging.	2013	Completed
6	Suhawati Binti Ibrahim(UKM)	Penyediaan Getah Asli Cecair Secara Pendegradasian Kimia Lateks Getah Asli Dan Penyediaan Poliuretana Berasaskan Getah Asli Cecair	2012	Completed
7	Srihanum Adnan(UKM)	Penyediaan nanokomposit polietilena berketumpatan tinggi/getah asli/tanah liat melalui penyebaran	2011	Completed



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## 2.0 RESEARCH AND PUBLICATION

### 2.1 Research Projects

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

No	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1	Performance Enhancement of Infantry Personnel in Military Operation	Head of the program	2013-2018	5,000,000.00 NRGS	In progress
2	Lipase Catalysed Synthesis Of Epoxidised Palm Fatty Hydrazides From Palm Oil	Principal	2014-2017	111,000.00 FRGS	Completed
3	Development of cost effective, high efficiency and environmental friendly nanocomposite coating for controlled release fertilizer prototype	Members	2016-2018	200,000.00 PRGS	In progress
4	Chemical Inventory Database, Storage and Laboratory Security Improvements	Principal	2015-2016	USD19,521.00 Chemical Security Improvement Grants Round Six-USA	Completed
5	Effect of Modified Layered Double Hydroxide and	Members	2013-2016	89,000.00 FRGS	Completed

No	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
	Carbon Nanotube on Morphology, Thermal and Mechanical Properties of Polylactic Acid Nanocomposites				
6	Development of Portable Arsenic Detection System	Members	2012-2016	230,000 PRGS	Completed

## 2.2 Publications

### 2.2.1 Invited/Keynote Papers/Presentation

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

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level • International • National • University

### 2.2.2 Book/Chapter in Book:

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

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level • International • National • University

### 2.2.3 Journal Article

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

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
	<ol style="list-style-type: none"> <li>1. Eng CC, Ibrahim NA, Zainuddin N, Ariffin H, <b>Yunus WMZW</b>. Chemical modification of oil palm mesocarp fiber by methacrylate silane: Effects on morphology, mechanical, and dynamic mechanical properties of biodegradable hybrid composites. <i>BioResour</i> 2016;11(1):861-72.</li> <li>2. Osman MJ, <b>Yunus WMZW</b>, Khim OK, Kasim NAM, Jamal SH, Ahmad M, Ibrahim NA. Surface modification of multi-walled carbon nanotube using double-chained quaternary ammonium bromide. <i>Key Eng Mat</i> 2016;701:18-22..</li> <li>3. Then YY, Ibrahim NA, Zainuddin N, Chieng BW, Eng CC, Ariffin H, <b>Wan Yunus WMZ</b>. Enhancement of tensile properties of surface treated oil palm mesocarp fiber/poly(butylene succinate) biocomposite by (3-aminopropyl)trimethoxysilane. <i>Mater Sci Forum</i> 2016;846:665-72.</li> <li>4. Tarmizi AFA, Ong KK, <b>Wan Yunus WMZ</b>, Fitrianto A, Jabit ML, Hussin AG, Teoh CC. Sorption isotherm model of zinc (II) onto thermally treated rice husk. <i>Orient J Chem</i> 2016;32(5):2797-801.</li> <li>5. Zainul Abidin NAM, Aziz FA, Radiman S, Ismail A, <b>Wan Yunus WMZ</b>, Nor NM, Sohaimi RM, Sulaiman AZ, Halim NA, Darius DDI. Isolation of microfibrillated cellulose (MFC) from local hardwood waste, <i>resak</i> (<i>vatica</i> spp.). <i>Mater Sci Forum</i> 2016;846:679-82.</li> <li>6. Aziz FA, Ismail A, <b>Wan Yunus WMZ</b>, Mohamad Nor N, Sohaimi RM, Sulaiman AZ, Halim NA, Daruis DDI, Azraaie N, Zainul Abidin NAM, Ibrahim NA, Razali NAM. The treated cellulose micro/nano fibers (CMNF) from bioresources in malaysia. <i>Mater Sci Forum</i></li> </ol>	<p><b>SCOPUS listed articles</b></p>

	<p>2016;846:434-9.</p> <ol style="list-style-type: none"> <li>7. Azraaie N, Zainul Abidin NAM, Aziz FA, Radiman S, Ismail A, <b>Wan Yunus WMZ</b>, Mohamad Nor N, Sohaimi RM, Sulaiman AZ, Halim NA, Daruis DDI, Ahmad N. Cellulose microfibrils/nanofibrils (CMNF) produced from banana (<i>musa acuminata</i>) pseudo-stem wastes: Isolation and characterization. <i>Mater Sci Forum</i> 2016;846:448-53.</li> <li>8. Salih AM, Ahmad MB, Ibrahim NA, HjMohd Dahlan KZ, Tajau R, Mahmood MH, <b>Yunus WMZW</b>. Synthesis of radiation curable palm oil-based epoxy acrylate: NMR and FTIR spectroscopic investigations. <i>Molecules</i> 2015;20(8):14191-211.</li> <li>9. Khayat HA, Ibrahim NA, Sulaiman Y, Yunus WMZW. Preparation and characterization of oil palm leaf fiber/polypropylene/Epolene® E-43 composite. <i>BioResour</i> 2015;10(1):382-401.</li> <li>10. Moradihamedani P, Ibrahim NA, <b>Yunus WMZW</b>, Yusuf NA. Study of morphology and gas separation properties of polysulfone/titanium dioxide mixed matrix membranes. <i>Polym Eng Sci</i> 2015;55(2):367-74.</li> <li>11. Ahmad N, Hasan ZA, Hassan HA, Ahmad M, <b>Yunus WMZW</b>. Reaction parameters for the synthesis of N,N-dimethyl fatty hydrazides from oil. <i>J Oleo Sci</i> 2015;64(1):41-9.</li> <li>12. Jamal SH, <b>Yunus WMZW</b>, Mohd Kasim NA, Khim OK, Ahmad M. Preparation and characterization of sodium lauryl ether sulphate modified layered double hydroxides. <i>J Teknol</i> 2015;76(3):109-13.</li> <li>13. Eili M, Shameli K, Ibrahim NA, Ahmad MB, <b>Wan Yunus WMZ</b>. The effect of the divalent metal on the intercalation capacity of stearate anions into layered double hydroxide nanolayers. <i>J Ind Eng Chem</i> 2015;22:63-9.</li> <li>14. Then YY, Ibrahim NA, Zainuddin N, Ariffin H, Chieng BW, <b>Yunus WMZW</b>. Influence of fiber content on properties of oil palm mesocarp fiber/poly(butylene succinate) biocomposites. <i>BioResour</i> 2015;10(2):2949-68.</li> <li>15. Then YY, Ibrahim NA, Zainuddin N, Chieng BW, Ariffin H, <b>Zin Wan Yunus WM</b>. Effect of 3-aminopropyltrimethoxysilane on chemically modified oil palm mesocarp fiber/poly(butylene succinate)</li> </ol>	
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	<p>biocomposite. <i>BioResour</i> 2015;10(2):3577-601.</p> <p>16. Then YY, Ibrahim NA, Zainuddin N, Ariffin H, <b>Yunus WMZW</b>, Chieng BW. Static mechanical, interfacial, and water absorption behaviors of alkali treated oil palm mesocarp fiber reinforced poly(butylene succinate) biocomposites. <i>BioResour</i> 2015;10(1):123-36.</p> <p>17. Chieng BW, Ibrahim NA, <b>Yunus WMZW</b>, Hussein MZ, Then YY, Loo YY. Reinforcement of graphene nanoplatelets on plasticized poly(lactic acid) nanocomposites: Mechanical, thermal, morphology, and antibacterial properties. <i>J Appl Polym Sci</i> 2015;132(11).</p> <p>18. Then YY, Ibrahim NA, Zainuddin N, Chieng BW, Ariffin H, <b>Wan Yunus WMZ</b>. Influence of alkaline-peroxide treatment of fiber on the mechanical properties of oil palm mesocarp fiber/poly(butylene succinate) biocomposite. <i>BioResour</i> 2015;10(1):1730-46.</p> <p>19. Khim OK, Hoong LJ, <b>Wan Yunus WMZ</b>, Fitrianto A, Chuang TC, Hussin AG, Ahmad M, Mohd Azmi AF. Effects of test paper drying and reaction periods on silver ion-arsine complex colour development for a simple and rapid arsenic (V) determination. <i>Malays J Anal Sci</i> 2015;19(6):1164-70.</p> <p>20. Chieng BW, Ibrahim NA, <b>Wan Yunus WMZ</b>, Hussein MZ, Loo YY. Effect of graphene nanoplatelets as nanofiller in plasticized poly(lactic acid) nanocomposites. <i>J Therm Anal Calor</i> 2014.</p> <p>21. Then YY, Ibrahim NA, Zainuddin N, Ariffin H, <b>Wan Yunus WMZ</b>, Chieng BW. The influence of green surface modification of oil palm mesocarp fiber by superheated steam on the mechanical properties and dimensional stability of oil palm mesocarp fiber/poly(butylene succinate) biocomposite. <i>Int J Mol Sci</i> 2014;15(9):15344-57.</p> <p>22. Moradihamedani P, Ibrahim NA, Ramimoghadam D, <b>Yunus WMZW</b>, Yusof NA. Polysulfone/zinc oxide nanoparticle mixed matrix membranes for CO<sub>2</sub>/CH<sub>4</sub> separation. <i>J Appl Polym Sci</i> 2014;131(16).</p> <p>23. Liao CP, Bin Ahmad M, Shameli K, <b>Yunus WMZW</b>, Ibrahim NA, Zainuddin N, Then YY. Preparation and characterization of polyhydroxybutyrate/polycaprolactone nanocomposites. <i>Sci World J</i> 2014;2014.</p> <p>24. Jaffar Al-Mulla EA, Ibrahim NAB, Shameli K, Ahmad</p>	
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	<p>MB, <b>Zin Wan Yunus WM</b>. Effect of epoxidized palm oil on the mechanical and morphological properties of a PLA-PCL blend. <i>Res Chem Intermed</i> 2014;40(2):689-98.</p> <p>25. Liao CP, Ahmad MB, Shameli K, <b>Wan Yunus WMZ</b>, Ibrahim NA, Zainuddin N, Then YY. Preparation and characterization of polyhydroxybutyrate/polycaprolactone/mg-al layered double hydroxide nanocomposites. <i>Dig J Nanomat Biostr</i> 2014;9(1):71-82.</p> <p>26. Then YY, Ibrahim NA, Zainuddin N, Ariffin H, <b>Wan Yunus WMZ</b>, Abd Rahman MF. Effect of electron beam irradiation on the tensile properties of oil palm mesocarp fibre/poly(butylene succinate) biocomposites. <i>Int J Automot Mech Eng</i> 2014;10:2070-80.</p> <p>27. Chieng BW, Ibrahim NA, <b>Yunus WMZW</b>, Hussein MZ. Poly(lactic acid)/poly(ethylene glycol) polymer nanocomposites: Effects of graphene nanoplatelets. <i>Polym</i> 2014;6(1):93-104.</p> <p>28. Md Nasir N, Zainuddin N, <b>Yunus WMZW</b>, Matori KA. The influence of modified sodium montmorillonite as filler on the performance of glass polyalkenoate cement. <i>Malays J Anal Sci</i> 2014;18(3):572-83.</p> <p>29. Chieng BW, Ibrahim NA, <b>Wan Yunus WMZ</b>, Hussein MZ. Effects of graphene nanoplatelets on poly(lactic acid)/poly(ethylene glycol) polymer nanocomposites. <i>Adv Mater Res</i> 2014;1024:136-9.</p> <p>30. Moradihamedani P, Ibrahim NA, <b>Yunus WMZW</b>, Yusof NA. Preparation and characterization of symmetric and asymmetric pure polysulfone membranes for CO<sub>2</sub> and CH<sub>4</sub> separation. <i>Polym Eng Sci</i> 2014;54(7):1686-94.</p> <p>31. Chieng BW, Ibrahim NA, <b>Wan Yunus WMZ</b>, Hussein MZ, Loo YY. Effect of graphene nanoplatelets as nanofiller in plasticized poly(lactic acid) nanocomposites: Thermal properties and mechanical properties. <i>J Therm Anal Calor</i> 2014;118(3):1551-9.</p> <p>32. Al-Mulla EAJ, Ibrahim NAB, Shameli K, Ahmad MB, <b>Yunus WMZW</b>. Extraction of molybdenum(VI) from hydrochloric acid solution by N,N'-carbonyl difatty amides. <i>Res Chem Intermed</i> 2014;40(8):2887-94.</p> <p>33. Eng CC, Ibrahim NA, Zainuddin N, Ariffin H, <b>Yunus WMZW</b>. Impact strength and flexural properties enhancement of methacrylate silane treated oil palm</p>	
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	<p>mesocarp fiber reinforced biodegradable hybrid composites. <i>Sci World J</i> 2014;2014.</p> <p>34. Eng CC, Ibrahim NA, Zainuddin N, Ariffin H, <b>Yunus WMZW</b>. Compositional and morphological changes of chemical modified oil palm mesocarp fiber by alkaline bleaching and silane coupling agents. <i>BioResour</i> 2014;9(3):5290-301.</p> <p>35. Eng CC, Ibrahim NA, Zainuddin N, Ariffin H, <b>Yunus WMZW</b>, Then YY. Enhancement of mechanical and dynamic mechanical properties of hydrophilic nanoclay reinforced polylactic acid/polycaprolactone/oil palm mesocarp fiber hybrid composites. <i>Int J Polym Sci</i> 2014;2014.</p> <p>36. Jamarosliza J, Hasan M, Hassan A, Ibrahim NA, AhmadM. M, Rahman ZA, <b>Wan Yunus WMZ</b>. Effect of reaction conditions on the thermal stability of polystyrene grafted oil palm empty fruit bunch (OPEFB) fiber1. <i>J Polym Eng</i> 2014;34(2):185-91.</p> <p>37. Chieng BW, Ibrahim NA, <b>Yunus WMZW</b>, Hussein MZ, Then YY, Loo YY. Effects of graphene nanoplatelets and reduced graphene oxide on poly(lactic acid) and plasticized poly(lactic acid): A comparative study. <i>Polym</i> 2014;6(8):2232-46.</p> <p>38. Then YY, Ibrahim NA, Zainuddin N, Ariffin H, <b>Wan Yunus WMZ</b>, Abd Rahman MF. Effect of electron beam irradiation on the tensile properties of oil palm mesocarp fibre/poly(butylene succinate) biocomposites. <i>Int J Automot Mech Eng</i> 2014;10(1):2070-80.</p> <p>39. Then YY, Ibrahim NA, Zainuddin N, Ariffin H, <b>Yunus WMZW</b>, Chieng BW. Surface modifications of oil palm mesocarp fiber by superheated steam, alkali, and superheated steam-alkali for biocomposite applications. <i>BioResour</i> 2014;9(4):7467-83.</p> <p>40. Md Nor MA, Ong KK, Mohamad S, Ahmad Nasaruddin NA, Jamari NLA, <b>Wan Yunus WMZ</b>. Kinetic study of a cationic dye adsorption by dewatered alum sludge. <i>Mater Res Innov</i> 2014;18:S6,140-S6-143.</p> <p>41. Chieng BW, Ibrahim NA, <b>Yunus WMZW</b>, Hussein MZ. Plasticized poly(lactic acid) with low molecular weight poly(ethylene glycol): Mechanical, thermal, and morphology properties. <i>J Appl Polym Sci</i> 2013;130(6):4576-80.</p> <p>42. Then YY, Ibrahim NA, Zainuddin N, Ariffin H, <b>Wan</b></p>	
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	<p><b>Yunus WMZ.</b> Oil palm mesocarp fiber as new lignocellulosic material for fabrication of polymer/fiber biocomposites. <i>Int J Polym Sci</i> 2013;2013.</p> <p>43. Pak YL, Bin Ahmad M, Shameli K, <b>Yunus WMZW</b>, Ibrahim NA, Zainuddin N. Mechanical and morphological properties of poly-3-hydroxybutyrate/poly(butyleneadipate-co-terephthalate)/layered double hydroxide nanocomposites. <i>J Nanomater</i> 2013;2013.</p> <p>44. Teh CC, Ibrahim NA, <b>Yunus WMZW</b>. Response surface methodology for the optimization and characterization of oil palm mesocarp fiber-graft-poly(butyl acrylate). <i>BioResour</i> 2013;8(4):5244-60.</p> <p>45. Leng Pak Y, Ahmad MB, Shameli K, <b>Wan Yunus WMZ</b>, Ibrahim NA, Zainuddin N. Preparation and characterization of poly-3-hydroxybutyrate/poly(butyleneadipate-co-terephthalate)/layered double hydroxide nanocomposites. <i>Dig J Nanomat Biostr</i> 2013;8(4):1395-403.</p> <p>46. Moradihamedani P, Ibrahim NA, <b>Yunus WMZW</b>, Yusof NA. Separation of CO<sub>2</sub> from CH<sub>4</sub> by pure PSF and PSF/PVP blend membranes: Effects of type of nonsolvent, solvent, and PVP concentration. <i>J Appl Polym Sci</i> 2013;130(2):1139-47.</p> <p>47. <b>Wan Yunus WMZ</b>, Siong LC, Manroshan S, Hussein MZ, Ab Rahman MZ, Mohd Dahlan KZ. Preparation and characterisation of crosslinked polycaprolactone and natural rubber (SMR CV60) blends. <i>J Rubber Res</i> 2013;16(3):147-61.</p> <p>48. Nordin NIAA, Ariffin H, Andou Y, Hassan MA, Shirai Y, Nishida H, <b>Yunus WMZW</b>, Karuppuchamy S, Ibrahim NA. Modification of oil palm mesocarp fiber characteristics using superheated steam treatment. <i>Molecules</i> 2013;18(8):9132-46.</p> <p>49. Sis ALM, Ibrahim NA, <b>Yunus WMZW</b>. Effect of (3-aminopropyl)trimethoxysilane on mechanical properties of PLA/PBAT blend reinforced kenaf fiber. <i>Iran Polym J Eng Edu</i> 2013;22(2):101-8.</p> <p>50. Al-Mulla EAJ, Bt Ibrahim NA, Al-Karkhi IHT, Shameli K, Zidan M, Ahmad MB, <b>Yunus WMZW</b>. Synthesis of palm oil-based fatty methylhydrazide. <i>Res Chem Intermed</i> 2013;39(5):2133-9.</p> <p>51. Al-Mulla EAJ, Ibrahim NAB, Shameli K, Ahmad MB, <b>Yunus WMZW</b>. Fatty amides synthesized from</p>	
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#### 2.2.4 Proceedings Articles:

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

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
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**3.0 ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY**

**(a) Academic Recognition and Leadership**

Academic recognition and leadership such as Academic Award , Academic Assessor/External Examiner/Ph.D. Thesis Examiner, Master's Thesis Examiner/Promotion Assessor (External), Internal Thesis Examiner, Visiting Professor/Fellowship, Invited Speaker, Editorial Board and other academic recognition.

(Please list in chronological order and state: Academic Recognition (e.g. award name, invited speakers etc.), year, level and awarding body/ name of institution)

No	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1	<b>Emeritus Professor</b>	<b>2016</b>	<b>National</b>	<b>UPM</b>
2	<b>Gold Medal (co winner)</b>	<b>2016</b>	<b>International</b>	<b>iENA Nuremberg 2016</b>
	<b>Gold Medal (co-winner)</b>	<b>2016</b>	<b>National</b>	<b>International Invention, Innovation and Technology Exhibition 2016</b>
3	<b>Fellow</b>	<b>2015</b>	<b>National</b>	<b>Akademi Sains Malaysia</b>
4	<b>Fellow</b>	<b>2013</b>	<b>National</b>	<b>Institut Kimia Malaysia</b>
5	<b>Distinguish Toastmasters</b>	<b>2012</b>	<b>International</b>	<b>Toastmasters International</b>
6	<b>Fellow</b>	<b>2011</b>	<b>International</b>	<b>International Union of Pure and Applied Chemistry</b>

**(b) Consultancy - Consultancy work that benefited to the University.**

(Please list in chronological order and state: title, year, sponsor, value, main researchers and duration of consultancy)

No.	Title	Year	Sponsor	Value	Duration
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**(c) 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, committee and duration)

No	Position/Membership	Committee	Duration
1	Member	UPNM Board	2016-2018
2	Director	Centre for Tropicalization	2016-2017
3	Head	UPNM Silicon Carbide Research	2016-
4	Member	UPNM Senate	2012-
5	Member	UPNM Selection Committee	2012-
6	Member	UPNM Management Committee	2012-
7	Member	UPNM Research and Innovation Committee	2012-
8	Member	UPNM Risk Management Committee	2016-

**(d) Service to the community**

(Please list in chronological order and state: level of involvement, activity, organiser, venue, date/ year/ duration)

No	Level of involvement	Activity	Organiser	Venue	Date/Year/Duration
1	Member of 25 <sup>th</sup> POLYCHAR 2017 Organising Committee	World Forum on Advanced Materials	IKM & IUPAC	PWTC	October 2017
2	Deputy Chair of Organising Committee	National STEM Congress	Majlis Profesor Negara	UiTM	August 2017
3	Member of Technical and Working Committee	Preparation of Malaysia Standards for Plastic Products	Malaysian Plastic Manufacturer Association (MPMA)	MPMA HQ	2016-
4	Member of Toastmasters Club	Public Speaking and Leadership Training	Toastmasters International	UPNM and occasionally outside UPNM	2012-
5	Member of IKM Polymer & Materials Chemistry Section Committee	Polymer Education	Institut Kimia Malaysia (IKM)	IKM HQ	2008-

**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.**

**Signature :**

**Name :**

**Faculty/Department :**

**Date :**

**I verify that, to the best of my knowledge, all the information provided in the forms are true.**

**Dean  
Signature and Stamp :**

**Date :**