

CURRICULUM VITAE



A. PERSONAL DETAILS			
Full Name Norizah Abdul Rahman			Title Dr
Designation Senior Lecturer	Citizenship Malaysia	Race Malay	Gender Female

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B. ACADEMIC QUALIFICATION			
Certificate / Qualification obtained	Name of School / Institution	Year obtained	Area of Specialization
Bachelor of Science	Universiti Teknologi Malaysia (UTM)	2002	Industrial Chemistry (First class honor)
Master of Science	Universiti Teknologi Malaysia (UTM)	2005	Chemistry
Doctor of Philosophy (PhD)	The University of Auckland	2013	Chemistry

C. LIST OF PUBLICATIONS – author (s), title, journal, volume, page and year published		Total Number of Publication
<i>Journal</i>	<ol style="list-style-type: none"> 1) S Abdul Razak, A H Mahadi, R Abdullah, H Mohd Yasin, F Ja'afar, N Abdul Rahman, H Bahruji Biohydrogen production from photodecomposition of various cellulosic biomass wastes using metal-TiO₂ catalysts, Biomass Conversion and Biorefinery, 2020. 2) NA Nordin, N Abdul Rahman, AH Abdullah, Effective Removal of Pb (II) Ions by Electrospun PAN/Sago Lignin-Based Activated Carbon Nanofibers, Molecules 25 (13), 3081, 2020. 3) N I F Aris, N Abdul Rahman, M H Wahid, N Yahaya, A S Abdul Keyon, S Kamaruzaman, Superhydrophilic graphene oxide/electrospun cellulose nanofibre for efficient adsorption of organophosphorus pesticides from environmental samples, Royal Society open science, 7(3), 192050, 2020. 	30

	<p>4) M A A Mohd Abdah, N H N Azman, S Kulandaivalu, N Abdul Rahman, A H Abdullah, Y Sulaiman, <i>Potentiostatic deposition of poly (3, 4-ethylenedioxythiophene) and manganese oxide on porous functionalised carbon fibers as an advanced electrode for asymmetric supercapacitor</i>, Journal of Power Sources, 444, 227324, 2019.</p> <p>5) YS Chu, N Abdul Rahman, BT Yee, R A Talib, HT Choon, K Abdan, ECC Wei, <i>Electrospun biocomposite: nanocellulose and chitosan entrapped within a poly(hydroxyalkanoate) matrix for Congo red removal</i>, Journal of Materials Research and Technology, In press, 2019.</p> <p>6) H Bahruji, H Maarof, NA Rahman, <i>Quantum efficiency of Pd/TiO₂ catalyst for photocatalytic reforming of methanol in ultra violet region</i>, Chemical Papers, 1-8, 2019.</p> <p>7) MAAM Abdah, N Abdul Rahman, Y Sulaiman, <i>Ternary functionalised carbon nanofibers/polypyrrole/manganese oxide as high specific energy electrode for supercapacitor</i> Ceramics International 45 (7), 8433-8439, 2019.</p> <p>8) HM N Mohd Kanafi, N Abdul Rahman, NH Rosdi, H Bahruji <i>Hydrogel Nanofibers from Carboxymethyl Sago Pulp and Its Controlled Release Studies as a Methylene Blue Drug Carrier</i>, Fibers 7 (6), 56, 2019</p> <p>9) NIM Fadilah, H Ahmad, MFA Rahman, N Abdul Rahman <i>Electrospun poly(vinyl alcohol) nanofibers doped with mesoporous silica nanoparticles for controlled release of hydrophilic model drug</i>, Malaysian Journal of Analytical Sciences 23 (2), 212-218, 2019.</p> <p>10) NM Kanafi, NA Rahman, NH Rosdi, <i>Citric acid cross-linking of highly porous carboxymethyl cellulose/poly (ethylene oxide) composite hydrogel films for controlled release applications</i> Materials Today: Proceedings 7, 721-731, 2019.</p> <p>11) MAAM Abdah, NMMA Edris, S Kulandaivalu, NA Rahman, Y Sulaiman, <i>Supercapacitor with superior electrochemical properties derived from symmetrical manganese oxide-carbon fiber coated with polypyrrole</i> International Journal of Hydrogen Energy 43 (36), 17328-17337, 2018.</p> <p>12) Husam Abduldaem Mohammed, Norizah Abdul Rahman, Muhammad Zamharir Ahmad, Muhammad Hafiz Abu Bakar, Siti Barirah Ahmad Anas, Mohd Adzir Mahdi, Mohd Hanif Yaacob, <i>Sensing Performance of Modified Single Mode Optical Fiber Coated With Nanomaterials-Based Ammonia Sensors Operated in the C-Band</i>, IEEE Access, 7, 5467-5476, 2018.</p> <p>13) NH Rosdi, N Mohd Kanafi, N Abdul Rahman, <i>Preparation and Thermal Properties of Cellulose Acetate/ Polystyrene Blend Nanofibers via Electrospinning Technique</i>, Pertanika J. Sci. & Technol. 26 (3), 979 – 990, 2018.</p> <p>14) NA Nordin, NA Rahman, N Talip, N Yacob, <i>Citric Acid Cross-Linking of Carboxymethyl Sago Starch Based</i></p>	
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	<p><i>Hydrogel for Controlled Release Application</i>, Macromolecular Symposia, 382 (1), 1800086, 2018.</p> <p>15) Mohd Abdah, M.A.A., <u>Abdul Rahman, N.</u>, Sulaiman, Y., <i>Enhancement of electrochemical performance based on symmetrical poly-(3, 4-ethylenedioxythiophene) coated polyvinyl alcohol/graphene oxide/manganese oxide microfiber for supercapacitor</i>, Electrochimica Acta, 259, p. 466-473, 2018.</p> <p>16) Abdul Rahman, N.H., Buong Woei, C., Ibrahim, N.A., and <u>Abdul Rahman, N.</u> <i>Extraction and Characterization of Cellulose Nanocrystals from Tea Leaf Waste Fibers</i>, Polymers, 9(11), p. 588, 2017.</p> <p>17) Mohamad, F.S., Mohd Hazani Mat Zaid, M.H., Abdullah, J., Mohd Zawawi, R., Lim, H.N., Sulaiman, Y., <u>Abdul Rahman, N.</u>, <i>Synthesis and Characterization of Polyaniline/Graphene Composite Nanofiber and Its Application as an Electrochemical DNA Biosensor for the Detection of Mycobacterium tuberculosis</i>, Sensor, 17(12), p. 2789, 2017.</p> <p>18) Yaacob, H., Khalaf, A., Mohamad, F., <u>Abdul Rahman, N.</u>, Hong Ngee, L., Paiman, S., Yusof, N.A., Mahdi, M.A., <i>Room Temperature Ammonia Sensor using Side-Polished Optical Fiber Coated with Graphene/Polyaniline Nanocomposite</i>, Optical Materials Express, 7, p. 1858-1870. 2017</p> <p>19) Mohd Yahya, N.A., Yusof Hamid, M.R., Ibrahim, S.A., Ong, B.H., <u>Abdul Rahman, N.</u>, Md Zain, A.R., Mahdi, M.A. Yaacob, M.H., <i>H₂ sensor based on tapered optical fiber coated with MnO₂ nanostructures</i>, Sensors & Actuators: B. Chemical, 246, p. 421-427. 2017</p> <p>20) Zubair, N.A. <u>Abdul Rahman, N.</u>, Lim, H.N., Sulaiman, Y., <i>Production of Conductive PEDOT-Coated PVA-GO Composite Nanofibers</i>, Nanoscale research letters 12 (1), p. 113. 2017</p> <p>21) Mohd Mazdi, N.Z., Nordin, N.A., <u>Abdul Rahman, N.</u>, <i>Synthesis and characterization of highly fluorescent polythiophene based composite nanofibers</i>, Macromolecular Symposia, 371(1), p. 129-139. 2017</p> <p>22) Abd Rahman, M.F., Abdul Rashid, S., and <u>Abdul Rahman, N.</u>, <i>Physical, thermal, and dielectric properties enhancement in graphene/poly(vinyl alcohol) nanocomposite as novel multifunctional materials</i>, ARPN Journal of Engineering and Applied Sciences, 11(20), p.12073-12077. 2016.</p> <p>23) Mohamad, F.S., and <u>Abdul Rahman, N.</u> <i>Preparation and characterization of poly(aniline-co-m-aminobenzoic acid)/polystyrene composite nanofibers</i></p>	
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	<p><i>and films</i>, Malaysian Journal of Analytical Sciences, 20(5), p.1033 – 1041. 2016.</p> <p>24) Zubair, N.A. <u>Abdul Rahman, N.</u>, Lim, H.N. Mohd Zawaw, R. and Sulaiman, Y. <i>Electrochemical properties of PVA–GO/PEDOT nanofibers prepared using electrospinning and electropolymerization techniques</i>, RSC Advances, 6, p.17720-17727. 2016.</p> <p>25) Ibrahim, S. A., <u>Abdul Rahman, N.</u>, Abu Bakar, M. H., Girei, S. H., Yaacob, M. H., Ahmad, H., and Mahdi, M. A., <i>Room temperature ammonia sensing using tapered multimode fiber coated with polyaniline nanofibers</i>. Optics Express, 23(3), p.2837-2845. 2015.</p> <p>26) <u>Abdul Rahman, N.</u>, Gulur Srinivas, A.R., Travas-Sejdic, J., <i>Spontaneous stacking of electrospun conjugated polymer composite nanofibers producing highly porous fiber mats</i>, Synthetic Metals, 191, p. 151–160. 2014.</p> <p>27) <u>Abdul Rahman, N.</u>, Feisst, V., Dickinson, M. E, Malmström, J., Dunbar, P. R., Travas-Sejdic, J., <i>Functional polyaniline nanofibre mats for human adipose-derived stem cell proliferation and adhesion</i>. Journal of Materials Chemistry and Physics, 138, p. 333-341. 2013.</p> <p>28) <u>Abdul Rahman, N.</u>, Easteal, A.J., and Travas-Sejdic, J. <i>Electrospun nanofibers of PLA/PANI and PLA/P(ANI-co-m-ABA): thermal studies</i>. Materials Science Forum, 700, p. 137-140. 2011.</p> <p>29) <u>Abdul Rahman, N.</u>, Nikolaidis, M. G., Ray, S., Easteal, A., and Travas-Sejdic, J., <i>Functional electrospun nanofibers of poly(lactic acid) blends with polyaniline or poly(aniline-co-benzoic acid)</i>. Synthetic Metals, 160(17-18): p. 2015-2022. 2010.</p> <p>30) Nur, H., <u>Abdul Rahman, N.</u>, Endud, S., Wei, L. K., <i>Thermal stability of conductivity of composite comprising polyaniline and MCM-41</i>, Malaysian Journal of Polymer, 2(2) :p. 12-21. 2007.</p>	
Books/Monographs		
Chapter in book	<p>1) <u>Abdul Rahman, N.</u>, <i>Applications of Polymeric Nanoparticles in Food Sector, Nanotechnology: Applications in Energy, Drug and Food</i>, Springer, 345-359, 2019.</p> <p>2) <u>Abdul Rahman, N.</u>, Tajuddin Ahmad, M. A., <i>Application of Nanofiber-Based Composite: Progressive Health Impact, Composite Materials: Applications in Engineering, Biomedicine and Food Science</i>, Springer, 269-282, 2020.</p>	2
Conference proceedings	<p>1) H.Nur, <u>N. Abdul Rahman</u> and S. Endud, "Probing the interfacial interaction of polymeric PEO/Li-Al-MCM-41 nanocomposite: A ²⁷Al, ¹³C and ⁷Li Solid State MAS NMR Study", Proceedings of the 2nd Annual Fundamental</p>	1

	Science Seminar, AFSS 2004, S. Sakrani <i>et al.</i> (Eds.), 119-123. 2004.	
<i>Conference paper</i>	<ol style="list-style-type: none"> 1) A.A. Shabaneh, S.H. Girei, F.S. Mohamad, S.A. Ibrahim, A. Lateef, <u>N. Abdul Rahman</u>, M.A. Mahdi, S. Paiman, and M.H. Yaacob. "Reflectance response of tapered multimode fiber coated with polyaniline for ammonia sensing", The 4th Advanced Laser and Photon Sources (ALPS'15), 22-24 April, 2015, Yokohama, Japan. 2) S.A. Ibrahim, <u>N. Abdul Rahman</u>, M.H. Abu Bakar, M.H. Yaacob, and M.A. Mahdi, "Polyaniline coated on tapered multimode fiber for ammonia sensing", 5th International Conference on Photonics, 2-4 September, 2014, Palace of the Golden Horses, Kuala Lumpur, Malaysia. 	2
<i>Other publications (abstract)</i>	<ol style="list-style-type: none"> 1) N.Z. Mohd Mazdi, I.I. Abdul Manan and <u>N. Abdul Rahman</u>, "Electrospun conducting polymers based composite nanofibers using electrospinning technique", 18th Industrial Chemistry Seminar, p. , Cyberview Resort & Spa, Kuala Lumpur, 9th June 2015. 2) <u>N. Abdul Rahman</u>, A.R. Gulur Srinivas and J. Travas-Sejdic "Poly(6,6'-((2-methyl-5-((E)-4-((E)-prop-1-en-1-yl)styryl)-1,4-phenylene)bis(oxy))dihexanoic acid) (PDMP) based composite nanofibers for DNA sensor" PWTC, Kuala Lumpur. 3-5th November 2014. 3) N.F. Abdul Jalil, N.H. Abdul Rahman, F.N. Kamal, F.S. Mohamad and <u>N. Abdul Rahman</u>, "Synthesis and characterizations of conducting polymers micro/nanocomposite" 17th Industrial Chemistry Seminar, p. 40, PICC, Putrajaya, 24th June 2014. 4) <u>N. Abdul Rahman</u>, M. Dickinson, V. Feisst, R. Dunbar and J. Travas-Sejdic, "Characterization of conductive polymer nanofibers scaffolds for tissue engineering using nanoindenter", 26th SKAM, Kuching Sarawak, 4-5th Dec. 2013. 5) <u>N. Abdul Rahman</u>, S. Endud, H. Hamdan and H. Nur, "A simple method to synthesise intercalated nanocomposite of polyethylene oxide/Li-exchanged Al-MCM-41 as conducting material", Book of abstracts of Simposium Kimia Analisis ke 15 (SKAM 15), p. 62, Pulau Pinang, Malaysia. 10-12th September 2002 6) <u>N. Abdul Rahman</u>, H. Nur, S. Endud, L. K. Wei, T. Hino, N. Kuramoto, "Remarkable thermal stability of conductivity of polyaniline/MCM-41 composite", Book of abstract of Annual Fundamental Science Seminar 2005, p. 68, Johor Bahru, Malaysia. 4-1 July 2005. 7) <u>N. Abdul Rahman</u>, H. Nur, S. Endud, L. K. Wei, T. Hino, N. Kuramoto, "Composite Comprising Sulfonic Acid-Functionalized MCM-41 and Polyaniline and Its Thermal Stability of Conductivity", International Symposium on Zeolites and Microporous Crystals, Yanago, Tottori, Japan, 30 July - 2 August 2006. P2044. 	

H. RESEARCH PROJECT

<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
2019/FRGS RM170800	Investigation on the effect of caboxymethyl sago pulp content on properties of self-healable caboxymethyl sago pulp/natural rubber film prepared via reversible non-covalent or covalent interactions	Principle Investigator	2019-2022	FRGS	On-going
GP-IPS/2018/9594900 RM25000	Lignin from sago waste as precursor for the production of carbon nanofibers for removal of heavy metals	Principle Investigator	2018-2020	UPM	On-going
UTM RM101000	Molecular dynamics study of star polymer and ibuprofen encapsulation for drug delivery design	Member	2016-2018	FRGS	Completed
GP-IPS/2016/9496500 RM15000	Cellulose based hydrogel nanofibers from sago waste for drug delivery application	Principal Investigator	2016-2018	UPM	Completed
GP-IPS/2016/9489900 RM15000	Synthesis and characterization of hydrogel nanofibers from sago starch for drug delivery application	Principal Investigator	2016-2018	UPM	Completed
GP-IPS/2016/9483700 RM20000	Lightweight and flexible graphene-based poly(vinyl alcohol) (PVA) nanocomposites for high-performance electromagnetic interference (EMI) shielding	Member	2016-2017	UPM	Completed
GP-IPB/2014/9449901 RM137,000	Synthesis and Characterization of Functionalized-Graphene as a novel Source for superhydrophobic coating	Member	2015-2017	UPM	Completed
FRGS/2/2014/ST01/UPM /02/4 RM103,400	Synthesis and characterizations of chemically modified cellulose nanofibers from sago waste for drug delivery application	Principal Investigator	2014-2017	FRGS	Completed

<i>01-01-13-1215FR RM109,000</i>	Synthesis and characterization of thioamidated-modified poly(acrylonitrile-co-acrylic acid) nanoporous microbeads and their applications for Cr ³⁺ , Pb ²⁺ and Cu ²⁺ ions adsorption.	Member	May 2013-May 2015	FRGS	Completed
<i>GP-IPM/2013/9405700 RM50,000</i>	Synthesis and characterization of fluorescence polythiophene composite nanofibers for sensor application	Principal Investigator	November 2013 – October 2015	Putra Grant IPM	Completed
<i>GP-IPB/2013/9412701 RM164,000</i>	Preparation and Characterization of Novel Smart Material, Graphene/PEDOT Nanofiber and Indium Phosphide Nanowires for Sensor Development	Member	December 2013-November 2015	Putra Grant IPB	Completed
<i>ERGS/1/2013/TK04/MM U/03/02 RM104,000</i>	Surface Plasmons Interaction in Gold-Coated Tapered Fiber with Chitosan-Graphene-Nanocomposite Layer for Heavy Metal Detection	Member	1 st August 2013-31 st July 2015 Extended to 31 st Jan 2016	Ministry of Education	Completed
<i>600-RMI/RAGS 5/3 (29/2012) RM80,000</i>	Nano Particles Modification of Polyester Gel-Coat for anti-Blistering Features	Member	December 2012-December 2014	RAGS	Completed