


A. BUTIR-BUTIR PERIBADI ( <i>Personal Details</i> )				
<b>CURRICULUM VITAE</b> Normala Bt. Halimoon Jabatan Alam Sekitar Fakulti Perhutanan dan Alam Sekitar  Tel: 0123401802 Fax: - Email: mala_upm@upm.edu.my				
B. KELAYAKAN AKADEMIK ( <i>Academic Qualification</i> )				
Nama Sijil / Kelayakan ( <i>Certificate / Qualification obtained</i> )	Nama Sekolah Institusi ( <i>Name of School / Institution</i> )	Tahun ( <i>Year obtained</i> )	Bidang pengkhususan ( <i>Area of Specialization</i> )	
BSc (Biotechnology)	Universiti Putra Malaysia	1997	Biotechnology	
MSc (Environmental of Biotechnology)	Universiti Putra Malaysia	2001	Environmental Biotechnology	
Ph.D (Food Chemistry and Biochemistry)	Universiti Putra Malaysia	2006	Food Chemistry and Biochemistry	
D. KEAHLIAN PROFESIONAL				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
American Chemical Society (ACS)	Member	2009	2011	Food Chemistry and Biochemistry
Persatuan Akademik UPM (PPA)	Wakil Fakulti	2017	2021	-
Malaysian Society for Molecular Biology & Biotechnology (MSMBB)	Member	2020		Molecular Biology & Biotechnology
Microbiology Society	Member	2020		Microbiology
E. TANGGUNGJAWAB PENGAJARAN DAN PENTADBIRAN SEMASA ( <i>Current teaching and administrative responsibility</i> )				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Kursus yang diajar/ Course taught</i>	<i>Jam kredit kursus /Course credit hour</i>
Fakulti Perhutanan dan Alam Sekitar. Universiti Putra Malaysia	Pensyarah Kanan	Jabatan Alam Sekitar	Bioremediasi Alam Sekitar (ESC4513)	3
			Rawatan Air Minum (ESC3205)	3
			Biologi Pencemaran (ESC4503)	3
			Prinsip Kesihatan Alam Sekitar (ESC3101)	3
F. PENGALAMAN KERJA ( <i>Employment experience</i> )				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
1. Universiti Industri Selangor	Pensyarah	Department of Biotechnology, Universiti Industri Selangor	Julai 2006	Feb 2008
2. Universiti Putra Malaysia	Pensyarah Kanan	Department of Environmental Sciences, Faculty of Environmental Studies, Universiti Putra Malaysia	Mac 2008	Feb 2019

2. Universiti Putra Malaysia	Pensyarah Kanan	Department of Environment, Faculty of Forestry and Environment, Universiti Putra Malaysia	Feb 2020	Till now	
<b>G. PERSIDANGAN DAN LATIHAN (conference and training)</b>					
Nama persidangan/latihan/ <i>Name of conference/training</i>	Peringkat/ <i>Level</i>	Dikendalikan oleh/ <i>Organized by</i>	Peranan/ <i>Role</i>	Tahun/ <i>Year</i>	
Amalan Biokeselamatan dan Biosekuriti	UPM	Jawatankuasa Institut Biokeselamatan dan Biosekuriti	Wakil Fakulti	2020	
International Conference on Environmental Forensics 2018 (iENFORCE2018)	International	Fakulti Pengajian Alam Sekitar Universiti Putra Malaysia	AJK Saintifik	2018	
International Conference on Environmental Forensics 2015 (iENFORCE2015)	International	Fakulti Pengajian Alam Sekitar Universiti Putra Malaysia	AJK Sajian dan Makanan	2015	
<b>H. i) PENGALAMAN PENYELIDIKAN (Research experience)</b>					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
91573	Identification of Hydrocarbon Formation in Different Solvent of Blue Green Algae	Project leader	2009	RUGS UPM RM 30,000.00	Completed
5523868	Potential Of Earthworms For Sludge-Based Vermicompost Production And Human Healthcare Products	Project leader	2010	FRGS RM 52,500.00	Completed
9300325	Biodegradation of Crude and Treated Petroleum Using Isolated Microorganisms of Dairy Waste Water	Project leader	2011	RUGS RM 10,000.00	Completed
9300326	Screening of Selected medicinal plant extracts for antifungal activities to the control of <i>Acacia mangium</i> Willd. root rot diseases.	Project leader	2011	RUGS RM 10,000.00	Completed
9412400	Identification of Endemic Bacteria Capable Of Degradation of Oil Petroleum From Stranded Crude Oil and Tar balls	Project leader	2013	IPB- Grant Putra RM 261,000	Completed
9592200	Application of tar-ball bacteria, consortium/single strains to degrade hydrocarbon of petroleum-based products	Project leader	2018	Putra Fast Track RM 50,000	Completed
9636200	Biodegradation of Carbamate Pesticide by locally isolated Bacteria from selected of Cameron Highland Agricultural Area.	Project leader	2018	IPS RM 25,000	Completed
5540228 (01-01-19-2103FR)	Physiological of metal tolerant bacteria during bioremediation under metallic stress of electroplating wastewater	Project leader	2019	FRGS RM 167,800.00	Progress

6380502	Dynamics of agroforestry land use system on degraded land	Project leader	2019	Akaun Amanah RM156,000.00	Progress
<b>ii) SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan)</b> <i>(List of publications – author (s), title, journal, volume, page and year published)</i>					
Journals	<Penerbitan 5 tahun terkini sahaja>				
1)	Mohammed Umar Mustapha, Normala Halimoon, Wan Lutfi Wan Johari, Mohamed Yunus Abd Shokur. (2020). Enhanced Carbofuran Degradation Using Immobilized and Free Cells of <i>Enterobacter</i> sp. Isolated from Soil. <i>Molecules</i> 2020, 25, 2771; doi:10.3390/molecules25122771				
2)	Mohammed Umar Mustapha, Normala Halimoon, Wan Lutfi W. Johari, Mohamed Yunus Abd Shokur, (2020). Optimization of carbofuran insecticide degradation by <i>Enterobacter</i> sp. using Response Surface Methodology (RSM). <i>Journal of King Saud University - Science</i> (2020), doi: <a href="https://doi.org/10.1016/j.jksus.2020.03.002">https://doi.org/10.1016/j.jksus.2020.03.002</a> .				
3)	Mohammed Umar Mustapha, Normala Halimoon, Wan Lutfi Wan Johari, Mohamed Yunus Abd Shokur. (2019). An Overview on Biodegradation of Carba-mate Pesticides by Soil Bacteria. <i>Pertanika J. Sci. &amp; Technol.</i> 27 (2): 547 – 563.				
4)	Bruno Martins Nkem, Normala Halimoon, Fatimah Md Yusoff and Wan Lutfi Wan Johari. (2019). Isolation and Optimization of Diesel-Oil Biodegradation us-ing <i>Cellulosimicrobium cellulans</i> from Tarball. <i>Pertanika J. Sci. &amp; Technol.</i> 27 (3): 1031 – 1040.				
5)	Maryam Mahjouri, Mohd Bakri Ishak, Ali Torabian[...] Normala Halimoon, 2018, An integrated methodology for establishing industrial effluent limits in developing countries: Iran as a case study, <i>Journal of Environmental Health Science and Engineering</i> , DOI: 10.1007/s40201-018-0306-6.				
6)	Masood, N., Halimoon, N., Aris, A.Z., Zakaria, M.P., Vaezzadeh, V., Magam, S.M., Mustafa, S.c, Ali, M.M., Keshavarzifard, M., Alkhadher, S.A.A., Bong, C.W.b, Alsalahi, M.A., 2018, Seasonal variability of anthropogenic indices of PAHs in sediment from the Kuala Selangor River, west coast Peninsular Malaysia, <i>Environmental Geochemistry and Health</i> , Pages 1-22.				
7)	Zahari, R., Halimoon, N., Ahmad, M.F., Ling, S.K., 2018, Antifungal Compound Isolated from <i>Catharanthus roseus</i> L. (Pink) for Biological Control of Root Rot Rubber Diseases, <i>International Journal of Analytical Chemistry</i> , Volume 2018, 2018, Article number 8150610.				
8)	Guan, B.T.H., Mohamat-Yusuff, F., Halimoon, N., Yong, C.S.Y., 2018, Mn- and Cd-Contaminated wild water spinach: In vitro human gastrointestinal digestion studies, bioavailability evaluation, and health risk assessment, <i>Polish Journal of Environmental Studies</i> , Volume 27, Issue 1, 2018, Pages 79-93.				
9)	Rozihawati Zahari, Mohd Farid Ahmad, Normala Halimoon and Norhayati Abdullah, 2018, <i>Catharanthus roseus</i> : A plant Source for Antifungal Activity Against Selected Plant Diseases, <i>Asian Journal Of Pharmacognosy</i> , <i>Asian J. Pharmacogn</i> 2(3):14-21.				
10)	Sukumaran, P., Nulit, R., Halimoon, N., Simoh, S., Omar, H., and Ismail, A., 2018, Formulation of cost-effective medium using urea as a nitrogen source for <i>arthrospira platensis</i> cultivation under real environment. <i>Annual Research and Review in Biology</i> . Volume 22, Issue 2, 2018, Article number ARRB.38182, 12p.				
11)	Muhammad, S.N., Kusin, F.M., Md Zahar, M.S., Mohamat Yusuff, F., and Halimoon, N., 2017, Passive bioremediation technology incorporating lignocellulosic spent mushroom compost and limestone for metal- and sulfate-rich acid mine drainage. <i>Environmental Technology (United Kingdom)</i> . Volume 38, Issue 16, 18 August 2017, Pages 2003-2012.				
12)	Mahjouri, M., Ishak, M.B., Torabian, A., Manaf, L.A., and Halimoon, N., 2017, The application of a hybrid model for identifying and ranking indicators for assessing the sustainability of wastewater treatment systems. <i>Sustainable Production and Consumption</i> . Volume 10, 1 April 2017, Pages 21-37.				
13)	Guan, B.T.H., Mohamat-Yusuff, F., Halimoon, N., and Yong, C.S.Y., 2017, Uptake of MN and CD by wild water spinach and their bioaccumulation and translocation factors, <i>EnvironmentAsia</i> . Volume 10, Issue 1, January 2017, Pages 44-51.				
14)	Mahjouri, M., Ishak, M.B., Torabian, A., Manaf, L.A., and Halimoon, N., 2017, Determining the best practicable control technology and its associated emission levels for Iron and Steel industry in Iran. <i>Resources, Conservation and Recycling</i> . Volume 127, 2017, Pages 114-123.				
15)	Mahjouri, M., Ishak, M.B., Torabian, A., Abd Manaf, L., Halimoon, N., and Ghoddsu, J., 2017, Optimal selection of Iron and Steel wastewater treatment technology using integrated multi-criteria decision-making techniques and fuzzy logic. <i>Process Safety and Environmental Protection</i> . Volume 107, 2017, Pages 54-68.				
16)	Bruno Martins Nkem, Normala Halimoon, Fatimah Md Yusoff, Wan Lufti Wan Johari, Mohamad Pauzi Zakaria, Srikanth Reddy, and Narayanan Kannan, 2016, Isolation, identification and diesel-oil biodegradation capacities of indigenous				

hydrocarbon-degrading strains of *Cellulosimicrobium cellulans* and *Acinetobacter baumannii* from tarball at Terengganu beach, Malaysia, *Marine Pollution Bulletin*. (Q1 3.146) Volume 107, Issue 1, Pages 261–268.

17) Najat Masood, Mohamad Pauzi Zakaria, Normala Halimoon, Ahmad Zaharin Aris, Sami M. Magam, Narayanan Kannan, Shuhaimi Mustafa, Masni Mohd Ali, Mehrzad Keshavarzifard, Vahab Vaezzadeh, Sadeq Abdullah Abdo Alkhadher, and Najat Ahmed Al-Odaini, 2016, Anthropogenic waste indicators (AWIs), particularly PAHs and LABs, in Malaysian sediments: Application of aquatic environment for identifying anthropogenic pollution. *Marine Pollution Bulletin*. (Q1 3.146). Volume 102, Issue 1, 15 January 2016, Pages 160–175.

18) Sami M. Magam, Mohamad Pauzi Zakaria, Normala Halimoon, Ahmad Zaharin Aris, Narayanan Kannan, Najat Masood, Shuhaimi Mustafa, Sadeq Alkhadher, and Mehrzad Keshavarzifard, 2015, Evaluation of distribution and sources of sewage molecular marker (LABs) in selected rivers and estuaries of Peninsular Malaysia, *Springer Research Article, Environmental Science and Pollution Research*. (Q2 2.741). 2016. pp 1-12.

19) Mohammed Umar Mustapha, and Normala Halimoon, 2015, Microorganisms and Biosorption of Heavy Metals in the Environment: A Review Paper, *Journal of Microbial & Biochemical Technology* 7:253-256. doi:10.4172/1948-5948.1000219. ISSN: 1948-5948.

20) Mohammed Umar Mustapha, and Normala Halimoon, 2015, Screening and Isolation of Heavy Metal Tolerant Bacteria in Industrial Effluent, *Procedia Environmental Sciences. Environmental Forensics 2015. Elsevier*. Volume 30, 2015, Pages 33–37.

<b>J. KHIDMAT MASYARAKAT (community services)</b>				
Nama Projek/ <i>Project title</i>	Peringkat/ <i>Level</i>	Komuniti/ <i>communtiy</i>	Peranan/ <i>Role</i>	Tahun/ <i>Year</i>
Penggunaan baja terawat bersama Jaga Cemar Sdn. Bhd	Kebangsaan	Industri Jaga Cemar Sdn. Bhd	Ketua	2018
Merawat "drilling oil" menggunakan kaedah biologi bersama Scomi Sdn. Bhd.	Kebangsaan	Industri Scomi Sdn. Bhd.	Projek bersama	2016