CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI (Personal Details)					
NamaPenuh(Full Name)	H'NG PAIK SAN		Gelaran(Title): DR.		
No. MyKad / No. Pasport(<i>Mykad No. / Passport</i>	Warganegara(Citizenship)	Bangsa(Race)	Jantina(Gender)		
No.)	MALAYSIA	CINA	LELAKI		
751004-08-5441					
Jawatan(Designation)	ASSOCIATE PROF.	TarikhLahir(Date of Birth)	4 OKTOBER 1975		

AlamatSemasa(Current Address)	Jabatan/Fakulti(Department/Faculty)	E-meldan URL (E-mail
		Address and URL)
19, JALAN BERJAYA BARU, TAMAN	JABATAN PENGELUARAN HUTAN,	E-mail:
BERJAYA BARU,	FAKULTI PERHUTANAN	ngpaiksan@upm.edu.my
43000 SUNGAI CHUA, KAJANG.		
SELANGOR	Tel: 03-89467189	URL:
	Fax: 03-89432514	
		H/P: 016-2903919

B. KELAYAKAN AKADEMIK (Academic Qualification)						
NamaSijil / Kelayakan(Certificate / Qualification obtained)			Tahun(Year obtained)	Bidangpengkhusususan (Area of Specialization)		
Ph.D.	Universiti P	utra Malaysia	2003	Wood science, s design	tructure and	
Bachelor of Forestry Science	Universiti P	utra Malaysia	1999	Wood Industry		
C. KEMAHIRAN BAH	ASA (Langue	age Proficiency)				
Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	AmatBaik Very good (4)	Cemerlang Excellent (5)	
English					5	
BahasaMelayu					5	
Chinese					5	
Lain-lain (other):						

D.TUGAS-TUGAS PENTADBIRAN DAN TANGGUNGJAWAB LAIN (Administrative Work)					
Organiser	Position	Date Appointed	Date Ended		
Institute of Tropical Forestry and Forest Products	Head of Laboratory	15/04/2018	14/04/2021		
The 1st International Conference on Sustainable	Coordinator	24/11/2015	11/08/2016		

Forest Development in View Of Climate Change			
Institute of Tropical Forestry and Forest Products	Head of Laboratory	01/10/2014	31/08/2016
Faculty of Forestry	Coordinator	18/06/2012	
Faculty of Forestry	Coordinator	01/04/2012	31/03/2014
Faculty of Forestry	Coordinator	06/12/2010	
Jawatankuasa penentukuran/ penyelenggaraan alatan MS ISO, Jabatan Pengeluaran, Fakulti Perhutanan	Others	26/07/2010	25/07/2011
Jawatankuasa Jaminan Kualiti Fakulti Perhutanan	Others	05/02/2010	31/12/2012
Jawatankuasa Penyemakan Semula Program Bacelor Sains Teknologi Kayu	Others	01/02/2010	01/02/2012
Jabatan Pengeluaran Hutan Fakulti Perhutanan	Others	01/01/2010	31/12/2016
Unit Latihan Industri ULI	Coordinator	20/07/2009	20/07/2012
Kolokium Penyelidikan Fakulti	Others	13/06/2007	15/06/2007
Jawatankuasa Khidmat Profesional Fakulti Perhutanan	Others	25/01/2007	31/12/2009
Jawatankuasa Teknologi Maklumat dan Komunikasi Fakulti Perhutanan	Others	25/01/2007	31/12/2009
Faculty of Forestry	Coordinator	28/02/2006	31/12/2008
Institute of Tropical Forestry and Forest Products	Others	25/10/2005	
Faculty of Forestry	Others	28/06/2005	

E. PROJEK PENYELID (Past Research Project)	IKAN TERDAH	IULU			
Project No.	Project Title	Role	Year	Source of fund	Status
01-01-07-077FR	Factors affecting lignocellulosi glucose metabolism during saccharifiation process by saccharification cerevisiae.	Project leader	2006-2008	МОНЕ	Completed
03-01-04-SF0361	Development of bio-ethanol from lignocellulosi materials for engine's fuel	Project Leader	2006-2009	MOSTI	Completed
03-01-09-0798RU	Development of	Project	2009-2011	RUGS/UPM	Completed

	ultra low formaldehyde	Leader			
	emission from admixture of rubberwood and oil palm trunk particleboard				
02-04-10-817FR	Total sugars derived from oil palm trunk using extraction systems	Project Leader	2010-2012	MOHE	Completed
03-02-12-2063RU	Efficiency of wood eating termite for converting lignocellulosic materials into bioethanol	Project Leader	2012-2014	RUGS/UPM	Completed
FRGS/1/2013/SG06/UPM/02/3	Investigation of molten structure formation under high temperature combustion of fast growing timbers to manage deposits inside biomass furnace	Project Leader	2013-2015	MOHE	Completed
PRHQ-CT-14-002	Development of washing system for empty fruit bunches	Project Leader	10/07/2014- 10/07/2016	Private funding (Private Company)	
	Composting of empty fruit bunches into compost at Keratong, Pahang	Project Leader	01/10/2013- 30/11/2013		
	Development of compost using empty fruit bunches and activator	Project Leader	01/04/2014- 01/04/2016		
	Research collaboration for green paulownia	Project Leader	01/10/2015- 30/09/2020		
	Woodchem 2015 – taking wood industry to new heights	Project Leader	04/11/2015- 05/11/2015		
	Invitation to visit shandong academy of agricultural	Project Leader	21/12/2015- 24/12/2015		

	sciences			
	Perbincangan	Project	15/04/2016-	
	mengenai	Leader	15/04/2016	
	project	200001	15,04,2010	
	kerjasama			
	penghasilan			
	anak pokok			
	Paulownia			
	antara INTROP			
	dengan Green			
	Paulownia Sdn			
	Bhd			
	Plantation	Project	03/11/2015-	
	project for	Leader	03/11/2017	
	cellulosic fibre			
	crops			
	Lojing- koperasi	Project	04/01/2016-	
	jajahan kecil	Leader	31/12/2016	
	Lojing Gua			
	Musang Berhad			
UPM/INTROP/100-	Production of	Project	01/01/2017-	
13/9/3/HICOE(6369110)	Activated	Leader	31/12/2019	
	Carbon from			
	Palm Kernel			
	Shell (PKS) and			
	Coconut Shell			
	(CS) using			
	Incorporative			
	Treatment of			
	Chemical			
	Activation and			
	Two Step-			
	Carbonization			
	Procedures			
	Pilot Scale De-	Project	11/05/2017-	
	Ashing Machine	Leader	10/07/2018	
	To Remove Ash	Leader	10/0//2018	
	Forming			
	Elements In EFB			
	For Bio Oil			
	Production			

F. PENYELIAAN I (Supervision of Student)	PELAJAR			
a. Bachelor Name Of Student	Title Of Research Project	Area (Specialization)	Year Started	Status
1. Kong Wei Jern	The effect of environmental conditions on root rot and its biocontrol development	Wood Science and Technology	2014	Completed
2. Lau Poh Yap	co-composting of empty fruit bunch with other nitrogen source material for shorter	Wood Science and Technology	2013	Completed

	maturation time			
3. Ng Chew Yee	Particleboard produced from empty fruit bunch fibers filtered with acetic acid	Wood Science and Technology	2013	Completed
4. Nur Atikah Binti Mohd Nordin	Methane production of POME added with EFB	Wood Science and Technology	2013	Completed
5. Rasdianah Binti Dahali	Physical and mechanical properties of particleboard produced from EFB fibers treated with sodium hydroxide	Wood Science and Technology	2013	Completed
6. Chow May Jinn	Determination of termite and fungi resistance of rubberwood treated with pyroligneous acid	Wood Science and Technology	2010	Completed
7. Eng Hooi Kyin	Production of low formaldehyde emission particleboard using MUF resin	Wood Science and Technology	2010	Completed
8. Tay Pei Wen	Determination of starch and sugar content from OPT using continuous extraction method	Wood Science and Technology	2010	Completed
9. Chai Ee Wen	Determination of chemical composition and calorific value of fast growing tree species	Wood Science and Technology	2009	Completed
10. Moktar Bin Bakar	Effect of formaldehyde catcher on formaldehyde emission of particleboard	Wood Technology	2009	Completed
11. Nurliyana Binti Mohd Yaakob	Production of super E0 particleboard with different concentration of formaldehyde catcher	Wood Science and Technology	2009	Completed
12. Syahidatul Nadia Binti Ismail	Production of particleboard with super E0 resin under different dressing temperature and time	Wood Science and Technology	2009	Completed
13. Tan Shu Ei	Xylose content from oil palm trunk	Forest Production	2009	Completed
14. Tor Ee Sang	Starch content from oil palm trunk	Forest	2009	Completed

		Production		
15. Tunku Faisal Binti Tunku Fadzillah	Dimensional stability of three layer particleboard	Wood Technology	2009	Completed
16. Lim Chun Guan	Effect of oil palm trunk treatment on physical and mechanical properties of three layers engineered board from oil palm trunk	Wood Science	2008	Completed
17. Mahfuzah Binti Badian	Effect of Pressure variables on physical and mechanical properties of three layers engineered board from oil palm trunk	Wood Science	2008	Completed
18. Nurul Wahayu Binti Azizan	Effect of wax concentration on particleboard formaldehyde release	Wood Science	2008	Completed
19. Shahalina Shauradin	Effectiveness of pyroligneous acid against molds and white rot fungi under laboratory condition	Wood Treatment	2008	Completed
20. Wong Lih Jiun	Effect of hydrolysate pH and fermentation temperature on the ethanol yield during fermentation	Wood Science	2008	Completed
21. Chan Jia Ming	Durability of wood plastic composite against <i>Coptotermes curvignathus</i>	Wood Science and Technology	2007	Completed
22. Chang Chek Jun	Effect of kenaf variety on the mechanical and physical properties of particleboard	Wood Science and Technology	2007	Completed
23. Hii Yieng Yee	Durability of wood plastic composite against molds and fungi (White rot)	Wood Science and Technology	2007	Completed
24. Khor Bin Nee	Anatomical structure and fibre morphology of different kenaf variety	Wood Science and Technology	2007	Completed
25. Kok Pei Ek	Chemical Composition of Different Kenaf Variety	Wood Science and Technology	2007	Completed

b. Master				
1. Iskandar Muhammad bin Masrukin	Development of cross laminated timber using sapium spp for structural application	Wood Science and Technology	2015	Co-supervisor
2. Raja Nazrin Bin Raja Ahmad	Analysis of bamboo fuels characteristic dependent on the culm from bambusa vulgaris and gigantochloa scorthecinii	Biopolymer and Derivatives	2015	
3. Siti Nurul Ashikin binti Rosli	Effectiveness of oil palm wood treated with 1,3-dimethylol-4,5-dihydroxyethyleneurea (DMDHEU)	Wood Science and Technology	2015	
4. Ahmad Rafeeq Mohamed Razali	Engineering design of empty fruit bunch fibre washing system	Biopolymer and Derivatives	2014	
5. Chin Yin Yee	Effect of de-ashing of empty fruit bunch (EFB) on the quality of bio-oil	Biopolymer and Derivatives	2014	
6. Pang Suet Kum	Life cycle analysis of Malaysia Wood Based Industry	Wood Industry Management	2014	Completed
7. Siti Nur Amalina Shuhaimy	Effect of de-ashing on EFB for potassium recovery	Biopolymer and Derivatives	2014	
8. William Foo Saik Cheng	Technical and environmental feasibility of bio-oil production using RTP	Biopolymer and Derivatives	2014	
9. Peng Shih Hao	Co-composting of empty fruit bunch and lignocellulosic materials using new microbes isolated by All Cosmo industries Sdn Bhd	Wood Science and Technology	2012 (converted to PhD)	
10. Wan Azha Bin Wan Mustapha	Co-composting of lignocellulosic materials using different ration of fungi and bacteria	Wood Science and Technology	2012	
11. Eng Hooi Kyin	Biofuel Produce from wood Liquefaction process	Wood Science and Technology	2011	Completed
12. Tay Pei Wen	Continuous extraction process of	Wood Science and	2011	Completed

	starch and sugars from oil palm trunk	Technology		
13. Wong Sin-Yee	Termites for Bio- ethanol Production	Wood Science and Technology	2011	Completed
14. Song Fei	(i) Performance compression of MUF resin and mixture of UF/MF resin (ii) Effect of methanol on stability of MUF resin	Wood Science and Technology	2010	Co-supervisor
15. Sun Yulai	(i) Performance compression of MUF resin and mixture of UF/MF resin (ii) Effect of methanol on stability of MUF resin	Wood Science and Technology	2010	Co-supervisor
16. Zhang Jun	(i) Performance compression of MUF resin and mixture of UF/MF resin (ii) Effect of methanol on stability of MUF resin	Wood Science and Technology	2010	Co-supervisor
17. Loh Yang Way	Development of ultra low formaldehyde release (Super E0) particleboard by using new formulation of melamine urea formaldehyde	Wood Science and Technology	2009	Completed 2011
18. Wong Lih Jiun	Production of Starch, Glucose and Xylose from Oil Palm Trunk Lumber	Wood Science and Technology	2009	Completed 2011
19. Geetha a/p Ramasamy	The machining characteristic of oil palm particleboard	Wood Technology Industry	2008	Completed 2010 Co-supervisor
20. Norani Binti Abd. Karim	Utilisation of kenaf is partial replacement for rubberwood in MDF industries and Product Acceptance Analysis	Wood Design and Analysis	2008	Completed 2010
21. Wu Ping	Life cycle assessment of palm-derived biomass energy in Malaysia	Tekno Ekonomi Dalam Biokomposit	2008	Completed 2010 Co-supervisor

22 Ch-11-17			2007	T
22. Chai Lai Yee	Development of Three Layer Engineered Board from Oil Palm Trunk	Wood Composite	2007	Completed 2010
23. Chin Kit Ling	Development of bio- ethanol from wood waste and lignocellullosic materials	Wood Science and Technology	2007	Completed 2009
24. Hang Jit Meng	Performance of wood plastic composite produced using injection method	Wood Composite	2006	Completed 2010
c. PhD				
1. Khoo Pui San	Effect of rotary peeling paremeters on the yield and quality of rubberwood veneer	Biopolymer and Derivatives	2015 (PhD conversion on 2017)	
2. Lee Chuan Li	The effect of reaction time and temperature on the properties of carbon black from parm kernel shell and coconut shell	Biopolymer and Derivatives	2015 (PhD conversion on 2017)	
3. Lee See Teck	Perception change of working adult towards forestry as a tool for prevention of climate change	Forestry	2016	
4. Chai Lai Yee	Properties of laminated wood timber	Wood Science and Technology	2013	
5. Go Wen Ze	Biological controls towards white root rot disease (Rigidoporus lignosus) in Hevea brasiliensis	Wood Science and Technology	2013	
6. Norul Izani Binti Md. Allwi	Effects of treatments on residual oil content in oil palm empty fruit bunch and its performances on medium density fiberboard	Wood Science and Technology	2012	Co-supervisor
7. Wong Lih Jiun	Extraction of starch, xylose and glucose from oil palm stem for bio-ethanol production	Wood Science and Technology	2012	
8. Wong Wan Zhen	Biological control of	Wood Science	2012	Completed

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	subterranean termite, Coptotermes curvignathus (Isoptera: Rhinotermitidae) using indigenous bacteria from its gut and foraging pathway	and Technology		2016
9. Nurliyana binti Mohd Yaakob	Enhancement of methane production from Palm Oil Mill Effluent (POME) through co-digestion and bioaugmentation treatment	Wood Science and Technology	2011	Completed 2016
10. Chai Ee Wen	Effective composting process for lignocellulosic materials from agroindustrial waste in Malaysia	Wood Science and Technology	2011	Completed 2015
11. Chow May Jinn	Chemical composition and challenges of EFB as biomass	Wood Science and Technology	2011	
12. Chin Kit Ling	Production of biomass solid biofuel for green energy power plant	Biopolymer and Derivatives	2010	Completed 2014 Co-supervisor
13. Lee Seng Hua	Development of ultra low formaldehyde release (Super EO) particleboard by using new formulation urea formaldehyde	Wood Science and Technology	2009	Completed 2013
14. Lum Wei Chen	Particleboard made from rubberwood treated with formaldehyde catcher	Wood Science and Technology	2009	Completed 2014
15. Amel Basher Ahmed Basher	Utilization of Kenaf fibre in cement bonded fibre bonded	Wood Science and Technology	2008	Completed 2014 Co-supervisor
16. Lee Soon Heng	Development of wood bio preservatives from wood by- products using distillation method	Wood Science and Technology	2007	Completed 2016
17. Lee Ai Nee	Development of wood plastic composite for structural use	Wood Composite	2006	

G. SENARAI PENERBITAN

(List of publications – author (s), title, journal, volume, page and year published)

Journal

Impact Factor Journal

Khoo P.S., H'ng P.S., Chin K.L, Edi Suhaimi B., Maminski M., Raja-Nazrin R.A., Lee C.L., Ashikin S.N., and Mohd-Hizami S. 2018. Peeling of small diameter rubber log using spindleless lathe technology: evaluation of veneer properties from outer to inner radial section of log at different veneer thicknesses. *European Journal of Wood and Wood Products*, 76(4), 1335-1346.

H'ng P.S., Chin K.L., Chai E.W., Peng S.H., Wan-Azha W.M., Halimatuna I., Go W.Z., Khoo P.S., Lee C.L., Raja-Nazrin R.A. and Ashikin S.N. 2018. Evolution of organic matter within sixty days of composting of lignocellulosic food industry waste in Malaysia. *Compost Science and Utilization*, *26*, 16-26.

Chin K.L., Shamsudin I., Hakeem K.R., H'ng P.S., Lee S.H., Mohd Azmi M.L.. 2017. Bioenergy Production from Bamboo: Potential Source from Malaysia's Perspective. *Bioresources*, *12*(3), 6844-6867.

Lee C.L, H`ng P.S., Paridah M.T., Chin K.L., Khoo P.S., Raja Nazrin R.A., Asyikin S.N. and Maminski M.. 2017. Effect of Reaction Time and Temperature on the Properties of Carbon Black Made from Palm Kernel and Coconut Shell. *Asian Journal of Scientific Research*, 10, 24-33.

H'ng, P. S., Li, K. L., Cheng, Z. Z., Tang, C. H., Wong, Y. S., Foo, S. L., Aw, T. H., Wan, K. Fong. 2016. Anatomical Features, Fiber Morphological, Physical and Mechanical Properties of Three Years Old New Hybrid *Paulownia*: Green *Paulownia*. *Research Journal of Forestry*, 10, 30-35.

Maminski, M., Kozakiewicz, P., Jaskołowski, W., Chin, K. L., H'ng, P. K., Toczyłowska-Maminska, R. 2016. Enhancement of technical value of oil palm (*Elaeis guineensis* Jacq.) waste trunk through modification with 1,3-dimethylol-4,5-dihydroxyethyleneurea (DMDHEU). European Journal of Wood and Wood Products, 74, 837–844.

Go, W. Z., H'ng, P. S., Wong, M. Y., Tan, G. H., Luqman Chuah, A., Salmiah, U., Toczyłowska-Mamińska, R., Soni, O., Wong, W. Z., Chin, K. L., Chai, E. W. 2015. Occurrence and characterisation of mycoflora in soil of different health conditions associated with white root rot disease in Malaysia rubber plantation. *Journal of Rubber Research*, 18(3), 159-170.

Wong, W. Z., H'ng, P. S., Chin, K. L., Ahmad Said Sajap, Tan, G. H., Paridah, M. T., Soni Othman, Chai, E. W., & Go, W. Z. 2015. Preferential Use of Carbon Sources in Culturable Aerobic Mesophilic Bacteria of *Coptotermes curvignathus*'s (Isoptera: Rhinotermitidae) Gut and Its Foraging Area. *Environmental Entomology*, *44*(5), 1367-1374.

Chin, K. L., H'ng, P. S., Paridah, M. T., Szymona, K., Maminski, M., Lee, S. H., Lum, W. C., Nurliyana, M. Y., Chow, M. J., Go, W. Z. 2015. Reducing ash related operation problems of fast growing timber species and oil palm biomass for combustion applications using leaching techniques. *Energy*, *9*(1), 622-630.

Lee, S. H., Zaidon, A., Lum, W. C., H'ng, P. S., Tan, L. P., Chow, M. J., Chai, E. W., Chin, K. L. 2015. Properties of Particleboard with Oil Palm Trunk as Core Layer in Comparison to Three-Layer Rubberwood Particleboard. *Journal of Oil Palm Research*,

27(1), 67-74.

Nurliyana, M. Y., H'ng, P. S., Rasmina, H., Umi Kalsom, M. S., Chin, K. L., Lee, S. H., Lum, W. C., Khoo, G. D. 2015. Effect of C/N ratio in methane productivity and biodegradability during facultative co-digestion of palm oil mill effluent and empty fruit bunch. *Industrial Crops and Products*, 76, 409–415.

Toczyłowska-Maminska, R., Szymona, K., Madej, H., Wong, W. Z., Bala, A., Brutkowski, W., Krajewski, K., H'ng, P. S., Maminski, M. 2015. Cellulolytic and electrogenic activity of Enterobacter cloacae in mediatorless microbial fuel cell. *Applied Energy*, 160, 88–93.

Pang, S. K., H'ng, P. S., Chai, L. Y., Lee, S. H., Paridah, M. T. 2015. Value added productivity performance of the Peninsular Malaysian Wood Sawmilling Industry. *BioResource*, *10*(4), 7324-7338.

Szymona K, Borysiuk P, H'ng P.S., Chin K.L., Mamiński M, 2014. Valorization of waste oil palm (ElaeisguineensisJacq.) biomass through furfurilation. Materials & Design. 53 (January 2014):425–429.

Lee, S. H.; H'ng, P. S.; Lum, W. C.; Zaidon, A.; Bakar, E. S.; Nurliyana, M. Y.; Chai, E. W.; Chin, K. L. 2014. Mechanical and physical properties of oil palm trunk core particleboard bonded with different UF resins. Journal of Oil Palm Research. 26 (2): 163-169

E. W. Chai, P. S. H'ng, S. H. Peng, W. M. Wan-Azha, K. L. Chin, M. J. Chow & W. Z. Wong. 2013. Compost feedstock characteristics and ratio modelling for organic waste materials co-composting in Malaysia, Environmental Technology, 34(20):2859-2866.

P.S. H'ng, L.Y. Chai, K.L. Chin, P.W. Tay, H.K. Eng, S.Y. Wong, W.Z. Wong, M.J. Chow, E.W. Chai. 2013. Urea formaldehyde impregnated oil palm trunk as the core layer for three-layered board. Materials & Design, 50(September 2013):457–462.

Chin, K. L., H'ng, P. S., Go, W. Z., Wong, W. Z., Lim, T. W., Maminski, M., Luqman C. 2013. Optimization of torrefaction conditions for high energy density solid biofuel from oil palm biomass and fast growing species available in Malaysia. Industrial Crops and Products, 49, 768–774.

Norullzani, M. A., Paridah, M. T., Anwar, U. M. K., Mohd Nor, M. Y., & H'ng, P. S. 2013. Effects of fiber treatment on morphology, tensile and thermogravimetric analysis of oil palm empty fruit bunches fibers. Composites Part B: Engineering, 45(1), 1251–1257.

Tay, P. W., H'ng, P. S., Chin, K. L., Wong, L. J., &Luqman, A. C. 2013. Effects of steeping variables and substrate mesh size on starch yield extracted from oil palm trunk. Industrial Crops and Products, 44, 240–245.

K.L. Chin, P. S. H'ng, E. W. Chai, B. T. Tey, M. J. Chin, M. T. Paridah, A. C. Luqman, M. Maminski. 2012. Fuel Characteristics of Solid Biofuel Derived from Oil Palm Biomass and Fast Growing Timber Species in Malaysia. *BioEnergyResearch*. 6(1): 1-8.

K.L. Chin, P.S. H'ng, L.J. Wong, B.T. Tey and M.T. Paridah. 2011. Production of glucose from oil palm trunk and sawdust of rubberwood and mixed hardwood. *Applied Energy*88 (11): 4222-4228

L.Y. Chai, P.S. H'ng, C.G. Lim, K.L. Chin, M.Z. Jusoh and E.S. Bakar. 2011. Production

of Oil Palm Trunk Core Board with Wood Veneer Laminations. *Journal of Oil Palm Research* 23 December: 1167-1172.

K.L. Chin, P.S. H'ng, L.J. Wong, B.T. Tey, M.T. Paridah. 2010. Optimization study of ethanolic fermentation from oil palm trunk, rubberwood and mixed hardwood hydrolysates using *Saccharomyces cerevisiae*. *Bioresource Technology*. 101(9): 3287-3291.

Lee S.H., H'ng P.S., Lee A.N., Tey B.T. 2010. Effect of pyrolysis temperature on the production of pyroligneous acid from oil palm trunk sawdust. *Int Forest Rev.* 12(5): 271

Wong L.J., H'ng P.S., Chin K.L. 2010. Fermentation efficiency of bioethanol using oil palm trunk hydrolysate. *Int Forest Rev.* 12(5): 271

Loh Y.W., H'ng P.S., Lee S.H., Lum W.C. Bakar M. 2010. Effects of formaldehyde catcher on formaldehyde emission of particleboard. *Int Forest Rev.* 12(5): 282.

Lum W.C., Lee S.H. Loh Y.W., H'ng P.S. 2010. Effect of wax concentration on formaldehyde emission of F** Type 8 Particleboard. *Int Forest Rev.* 12(5):285.

CI Journal

H'ng, P. S., Kaljeet Singh, A. S., Ahmad Zairin, I., Kiranjeet Kaur, A. S., Pang, S. K. 2015. Initiatives and Efforts towards Greening Malaysian Furniture Industry. *Asian Journal of Scientific Research*, 8(2), 122-133.

L.J. Wong, P.S. H`ng, S.Y. Wong, S.H. Lee, W.C. Lum, E.W. Chai, W.Z. Wong and K.L. Chin, 2014. Termite Digestomes as a Potential Source of Symbiotic Microbiota for Lignocelluloses Degradation: A Review. Pakistan Journal of Biological Sciences, 17: 956-963.

W.C. Lum, S.H. Lee and P.S. H`ng, 2014. Effects of Formaldehyde Catcher on Some Properties of Particleboard with Different Ratio of Surface to Core Layer. Asian Journal of Applied Sciences, 7: 22-29.

S.H. Lee, P.S. H`ng, T.L. Peng and W.C. Lum, 2013. Response of Coptotermescurvignathus (Isoptera: Rhinotermitidae) to Formaldehyde Catchertreated Particleboard. Pakistan Journal of Biological Sciences, 16: 1415-1418.

S.H. Peng, W.M. Wan-Azha, W.Z. Wong, W.Z. Go, E.W. Chai, K.L. Chin and P.S. H`ng, 2013. Effect of Using Agro-fertilizers and N-fixing Azotobacter Enhanced Biofertilizers on the Growth and Yield of Corn. Journal of Applied Sciences, 13: 508-512.

H'ng, P. S., Lee, S. H., Lum, W. C. 2012. Effect of Post Heat Treatment on Dimensional Stability of UF Bonded Particleboard. *Asian Journal of Applied Sciences*, *5*(5), 299-306.

Lee, S. H., H'ng, P. S., Chow, M. J., Sajap, A. S., Tey, B. T., Salmiah, U., Sun, Y. L. 2011. Effectiveness of Pyroligneous Acids from Vapour Released in Charcoal Industry against Biodegradable Agent under Laboratory Condition. *Journal of Applied Sciences*, *11*(24), 3848-3853.

H'ng, P. S., Wong, L. J., Chin, K. L., Tor, E. S., Tan, S. E., Tey, B. T., Maminski, M. 2011. Oil palm (*Elaeis guineensis*) trunk as a resource of starch and other sugars. *Journal of Applied Sciences*, *11*(16), 3053-3057.

P.S. H'ng, A.N. Lee, C.M. Hang, S.H. Lee, A. Khalina and M.T. Paridah. 2011. Biological Durability of Injection Moulded Wood Plastic Composite Boards. *J. Applied Sci.*, 11(2): 384-388.

P.S. H'ng. L.Y. Chai, K.L. Chin, M. Mamiński, 2010. Oil palm wood (ElaeisguineensisJacq.) as an underutilized resource of raw materials, *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology 2010*, 71: 235-239

Lee S.H., P.S. H'ng, A.N. Lee, A.S. Sajap, B.T. Tey and U. Salmiah, 2010. Production of pyroligneous acid from lignocellulosic biomass and their effectiveness against biological attacks. *J. Applied Sci.*, 10(20): 2440-2446.

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H'ng Paik San, M.T. Paridah and K.L. Chin, 2010. Bending properties of laminated veneer lumber produced from keruing (*Dipterocarpus* sp.) reinforced with low density wood species. *Asian J. Scientific Res.*, 3 (2): 118-125.

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H'ng Paik San, Paridah M.T., Zakiah A. 2007. Tensile Strength Characteristics Of Laminated Veneer Lumber In Full Scale Tension Test. Malayan Forester. 70(2): 103-109

H'ng Paik San, Paridah M.T., Gan Cheng Wen. 2007. Flexural Properties of Laminated Veneer Lumber Produced from Oil Palms Veneers. Pertanika 30(1): 65-70.

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Books/Monographs

H'ng Paik San, Paridah Md Tahir and Zakiah Ahmad.2012.Laminated Veneer Lumber from Malaysian Tropical Timber, Manufacturing and Design. UiTM Press.

Chapter in book

MJ Chow, PS H'ng, KL Chin, EW Chai, MT Paridah, SH Lee, WC Lum, A Luqman Chuah, M Maminski. 2015. Empty Fruit Bunches in the Race for Energy, Biochemical, and Material Industry.K. R. Hakeem Et Al. (Eds.). Agricultural Biomass Based Potential Materials, DOI: 10.1007/978-3319-13847- 3_17, Springer International Publishing, Switzerland, Agricultural Biomass Based Potential Materials, 375-389.

KL Chin, PS H'ng, MT Paridah.2014. Unlocking the Destructive Powers of Wood-Eating Termites: From Pest to Biopolymer Derivatives Extractor. In: Khaleed et al., (Eds) Biomass and Bioenergy. Springer International Publishing. German.

K.L. Chin and P.S. H'ng. 2013. A Real Story of Bioethanol from Biomass:Malaysia Perspective. In: Biomass Now-Sustainable Growth and Use, Matovic, MD (Ed.). InTech Publisher, Rijeka, Croatia. Pp 329-346.

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Edi SuhaimiBakar, Mohd. HamamiSahri and H'ng Paik San. 2008. Chapter 12: Anatomical Characteristics and and Utilization of Oil Palm Wood. In: Mohd. HamamiSahri and Tadashi Nobouchi (Eds). The Formation of Wood in Tropical Forest trees: A Challenge from the Perspective of Functional Wood Anatomy. UPM Press.

H. KERJA PERUNDINGAN (Consultation Work)					
Title	Position	Company	Date		
Determination of Microorganism from Soils, Water and Plants	Lead Consultant	Green Miracle Organic Sdn. Bhd.	01/11/2011		
The cause of damage to kitchen and wardrobe cabinets	Lead Consultant	Cunningham Lindsey Adjusters (M) Sdn. Bhd.	28/11/2011		
Technical expert	Subject matter expert	Green Tech Malaysia	03/08/2012		
Project leader	Lead Consultant	All Cosmo Bio-Tech Holding Corporation	21/11/2012		
Greentech Baseline Study	Lead Consultation	Malaysian Green Technology Corporation	25/02/2014		

I. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (Scientific Experience and Specialization)					
Organization	Position	Start Date	End Date	Expertise	
American Chemical Society	Associate member	28 January 2009	28 January 2016	Wood, biomass and chemistry	
Malaysia Timber Industry Board	Chairman of Flooring Working Group	2006	-	Wood flooring	
Malaysia Timber Industry Board	Timber Sub- committee Timber Structures	2008	-	Timber for structural used	
Malaysia Timber Industry Board	Kumpulan Kerja Pembangunan Standard MS 544	2008	-	Timber	
National Timber Policy	Committee	2011		NATIP 4: Human capital	

				Development
Malaysia Timber Industry Board	Timber Sub- committee Timber Non- Structures	2010	-	Wood based composite
International Standard Organization (ISO)	Committee of TC 218	2014	-	Timber

J. ANUGERAH D	AN HADIAH		
(Honours and Awards)	·		
Title	Award Authority	Award Type	Year
Perkhidmatan	Faculty of Forestry	Faculty	2007
Cemerlang			
Perkhidmatan	Universiti Putra	University	2007
Cemerlang	Malaysia		
Young Academy	Universiti Putra	University	2008
Award 2008	Malaysia		
Anugerah Khidmat Cemerlang 2008	Faculty of Forestry	Faculty	2009
Anugerah Pengajaran	Universiti Putra	University	2009
Putra 2008 APP08	Malaysia		
BioInno Award 2010	BioMalaysia	International	2010
PECIPTA	Universiti Teknologi MARA	National	2011
Best Book Category (Science, Technology and Medicine)	Academic Publication Council of Malaysia (MAPIM) Award Ceremony 2012	National	2013
Anugerah Jaringan Industry dan Komuniti Berimpak Tinggi 2015	Universiti Putra Malaysia	University	2015
Anugerah Penyelidikan Universiti	Universiti Putra Malaysia	University	2015
Anugerah Perkhidmatan Cemerlang	Universiti Putra Malaysia	University	2015
University Research Award Category: Publication of Journal 2015	Universiti Putra Malaysia	University	2016
Anugerah Perkhidmatan Cemerlang	Universiti Putra Malaysia	University	2017

K. PERSIDANGAN DAN SEMINAR YANG DIHADIRI (Seminar presented and attended)					
a. Seminar presented					
Title of Article Name of Organiser Level Date					
	Seminar				

Innovative processing of o	il Kolokium	Unive	rsiti Putra	University	,	17/04/2007
palm trunk veneer for	penyelidikan	Malay	sia			
fabricate structural	pensyarah					
laminated veneer lumber	lantikan baru					
Laminated veneer lumber	Kolokium	Unive	rsiti Putra	University	,	26-
fabricate from oil palm	penyelidikan	Malay				28/06/2007
trunk veneer	Fakulti	'				
	Perhutanan					
The fingerprints of	Malaysia	Malay	sian	Internatio	nal	05-
Malaysian hardwood	International		ure Industry			09/03/2017
	Furniture Fair	Counc	· ·			
	(MIFF) 2008					
	Industry					
	Seminar Series					
Effectiveness of	National	UiTM,	FRIM and	National		29-
pyroligneous acids	Conference on	Malay	sian Forest			31/10/2008
pyrolised from	Forest Products	Produ	cts Society			
lignocellulosic materials	2008					
against mold, fungi and termites						
Effect of sulfuric acid	Wancana	Facult	v of	Faculty		08/05/2009
concentration and	Perhutanan	Forest		racarty		00,03,2003
hydrolysis time on the	Terriacanan	101630	.ı y			
glucose yield hydrolysed						
from lignocellulosic						
materials in Malaysia)	\A/I7 D	:_	lata a atta	1	1.5
Urea formaldehyde type super E0 for rubber wood	Wood	WIZ-B	IZ	Internatio	nai	16-
particleboard	Adhesives					17/10/2014
particiesoura	Conference					
MS 544: Part 12:2006:	Seminar on	Depar	tment of	National		16/06/2015
Code of practice of	Malaysian	Stand	ards			
structural use of timber-	Standard on	Malay	sia			
laminated veneer lumber (LVL) for structural	Timber					
application	Structure					
Formaldehyde free, MDI	WOODCHEM			Internatio	nal	04/11/2015
and Bio based wood	2015 taking					
adhesive technology	Wood Industry					
	to New Heights					
MS 2619:2015 Timber	Johor Wood and	Jabata	ın Standard	National		10/08/2015
flooring-board and strip,	Lifestyle Fair	Malay	sia			
laminated flooring-						
specification b. Seminar attended	d					
	u Organiser		Level		Date	
Seminar on MS 2619	3				10/08/20	16
	The Standard Council	1111				
130/10 218 Iviceting	The Standard Council of Internation		ıdl	19/0//20	T0	

	Canada (SCC)		
WOODCHEM 2015		International	04-05/12/2015
International Year of Soil Seminar	Universiti Teknologi Malaysia	International	14/09/2015
Seminar on Malaysian Standard (MS) on Timber Structure	Department of Standard Malaysia	National	16/06/2015
Malaysian Standards on 1787:2005-Wood Based Panels	MTIB	National	04/12/2014
Wood Adhesive	WIZ-Biz Company LTD	International	17/10/2014
26 th International Scientific Conference of Wood technology Faculty (Wood- Material of the XXI- st Century)	Warsaw University of Life Sciences	International	19/11/2012
Regional Workshop on Towards Inclusive Biofule Innovation	Bandung Institute of Technology, Indonesia	International	08/11/2012
Agricultural Scientific information Workshop	Research Management Centre (UPM)	National	15/11/2011
MICCOS 2011		International	28-30/10/2011
PECIPTA 2011 Malaysia	Universiti Teknologi MARA	National	13/09/2011
Malaysia Exhibition of Agriculture, Horticulture and Agro Tourism International Show	MARDI	National	26/11-05/12/2010
BioMalaysia 2011	Malaysian Biotechnology Corporation	International	02-04/11/2010
Invention, Research and Innovation Exhibition	UPM	University	20-22/07/2010
MTC Talk Series- Protecting Timber	Malaysian Timber Council	National	08/12/2009
International Conference on Kenaf 2009	INTROP	International	01-03/12/2009
Bioenergy 2009	FINBIO The Bioenergy Association of Finland	International	31/08-04/09/2009
MOSTI/TPM/MDEC Product Commercialisation Prospecting Session	MOSTI	National	25/08/2009
MTC Timber Talk- The beauty of Malaysian Timbers	Malaysian Timber Council	National	14/08/2009
Pacific Regional Wood Anatomy Conference	UPM	International	03-05/08/2009

Festival Sains	Exco Kerajaan Negeri	National	12-14/06/2009
Teknologi Inovasi	Selangor	INational	12-14/00/2009
Selangor 09	Scialigoi		
Timber for IBS	MTIB	National	26/05/2009
Tilliber for fb5	WITTE	National	20/03/2003
New Development	Malaysian Furniture	International	04/03/2009
on Materials Use in	Industry Council		
the Furniture			
Industry			
Industrial	Lembaga Perindustrian	International	04/11/2008
Automation &	Kayu Malaysia		
Mechanisation in			
Timber Industry			
National Conference	UiTM, FRIM and Malaysian	National	29-31/10/2008
on Forest Products	Forest Products Society		
2008 (NCFP 2008)	·		
3 rd International	Universidade	International	10-12/09/2008
Conference and	Fernando Pessoa		
Exhibition on			
Environmentally-			
Compatible Forest			
Products			
2008 International	UiTM	International	28-30/07/2008
Furniture			. ,
Conference			
Alternative Raw	UPM	National	28/07/2008
Materials for the	3.		
Panel Board Industry			
Innovative 3D	Malaysia Furniture Industry	National	27/05/2008
solution in Furniture	Council		
Design			
Seminar Industri	Lembaga Perindustrian	National	07/05/2008
Mengenai	Kayu Malaysia		11,00,000
Pembangunan	,		
Penjenamaan			
Seminar	Faculty of Biotechnology	University	30/04/2008
Bioteknologi	and Science Molecule	,,	33,33,233
Annual Timber	Lembaga Perindustrian	National	10/04/2008
Research and	Kayu Malaysia		10,01,200
Industry Briefing	,		
Malaysia	Malaysian Furniture	International	05/03/2008
International	Industry Council		22, 20, 2000
Furniture Fair 2008			
Persidangan	UPM, Kementerian	National	12-14/12/2007
Pengajaran dan	Pengajian Tinggi Malaysia		
Pembelajaran di	and Majlis Ketua Pusat		
Peringkat Pengajian	Pengajaran dan		
Tinggi 2007	Pembelajaran IPTA		
AHEC-MFIC Seminar	MFIC	National	11/12/2007
		- racional	
AHEC-MFIC Design	MFIC	National	28/11/2007
Seminar			
Possible Effects of	INTROP	University	05/11/2007
Fungal Networks on			
the Distribution			
Patterns of Shorea			
<i>leprosula</i> in a			

		<u> </u>	
Lowland Dipterocarp			
Forest			
Syarahan Awam	UPM	University	05/11/2007
Yayasan Pak Rashid			
IUFRO All Division 5	IUFRO	International	29/10/2007
Conference			
Konferens	INTROP	National	13-15/10/2007
Kebangsaan			
Penggunaan Pokok			
kelapa sawit ke-7			
Seminar Akedemik	Faculty of Forestry	Faculty	30/06/2007
Kolokium	Faculty of Forestry	University	26-28/06/2007
Penyelidikan Fakulti			
Perhutanan			
Kolokium	UPM	University	17/04/2007
Penyelidikan		·	
Pensyarah Lantikan			
Baru			