

CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI (<i>Personal Details</i>)			
Nama Penuh (<i>Full Name</i>)	Hazandy Abdul Hamid		Gelaran (<i>Title</i>): Assoc. Prof. (Dr.)
No. MyKad / No. Pasport (<i>Mykad No. / Passport No.</i>)	Warganegara (<i>Citizenship</i>)	Bangsa (<i>Race</i>)	Jantina (<i>Gender</i>)
730810-02-5731	Malaysia	Malay	Male
Jawatan (<i>Designation</i>)	Assoc. Prof./ Head of Laboratory	Tarikh Lahir (<i>Date of Birth</i>)	10/08/1973 (44 years)

Alamat Semasa (<i>Current Address</i>)	Jabatan/Fakulti (<i>Department/Faculty</i>)	E-mel dan URL (<i>E-mail Address and URL</i>)
Institute of Tropical Forestry and Forest Products (INTROP) Universiti Putra Malaysia 43400 UPM Serdang Selangor Tel: 03 89471881 Fax: 03 89471896	Department of Forest Production Faculty of Forestry Universiti Putra Malaysia, 43400 Serdang Selangor Tel: 03 89467585 Fax: 03 89432514	E-mail: hazandy@gmail.com URL: H/P: 017 2048480

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>)
BS	Universiti Putra Malaysia	1997	Forest Management
MS	Universiti Putra Malaysia	2001	Tree Improvement
PhD	University of Edinburgh, UK	2006	Tree Ecophysiology

C. KEMAHIRAN BAHASA (<i>Language Proficiency</i>)					
Bahasa / <i>Language</i>	Lemah <i>Poor (1)</i>	Sederhana <i>Moderate (2)</i>	Baik <i>Good (3)</i>	Amat Baik <i>Very good (4)</i>	Cemerlang <i>Excellent (5)</i>
English					√
Bahasa Melayu					√
Chinese					

Lain-lain (other):					
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D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN <i>(Scientific experience and Specialisation)</i>				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
Carboeuro/Edinburgh	Team member	2003	2006	Ecophysiology

E. PEKERJAAN (Employment)				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Universiti Putra Malaysia	Tutor	Department of Forest Production	9/10/2000	6/6/2006
Universiti Putra Malaysia	Lecturer	Department of Forest Production	6/6/2006	30/8/2008
Universiti Putra Malaysia	Senior Lecturer	Department of Forest Production	30/8/2008	31/12/2010
Universiti Putra Malaysia	Associate Professor	Department of Forest Production	1/1/2011	present
Institute of Tropical Forestry and Forest Product, UPM	Head of Laboratory	Laboratory of Bioresource Management	22/4/2009	present

F. ANUGERAH DAN HADIAH (Honours and Awards)				
<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
Anugerah Fellowship Naib Canselor 2015	Kategori Perunding Cemerlang	Universiti Putra Malaysia		2015
Anugerah Jaringan Industri dan Komuniti Berimpak Tinggi 2015	Projek Jaringan Industri "Economic Valuation of Ecosystem Products and Services of Bukit Sg. Puteh Forest Reserve	Universiti Putra Malaysia	Pegawai Akademik	2015
Academic Awards	Certified Arborist	International Society of Arboriculture	ISA Arborist	2010 - 2016
	Young Scientist Network	Academy of Science Malaysia (YSN-ASM)		2013

	Invention, Research & Innovation Exhibition	Universiti Putra Malaysia	Bronze Medal	2013
	Plant Physiologist	Environmental Physiology		2004

G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published)

<p><i>Journal</i></p> <p><u>Scopus</u> H-index : 9 Citations: 330</p> <p><u>Google Scholar</u> H-index: 11 Citation: 727</p>	<ol style="list-style-type: none"> 1. Mohd Razali, S., Marin Atucha, A. A., Nuruddin, A. A., Abdul Hamid, H., & Mohd Shafri, H. Z. (2016). Monitoring vegetation drought using MODIS remote sensing indices for natural forest and plantation areas. <i>Journal of Spatial Science</i>, 61(1), 157-172. 2. Razali, S. M., Atucha, A. A. M., Nuruddin, A. A., Shafri, H. Z. M., & Hamid, H. A. (2016). Mapping Human Impact on Net Primary Productivity Using MODIS Data for Better Policy Making. <i>Applied Spatial Analysis and Policy</i>, 9(3), 389-411. 3. Razali, S. M., Atucha, A. A. M., Nuruddin, A. A., Shafri, H. Z. M., & Hamid, H. A. (2016). Mapping Human Impact on Net Primary Productivity Using MODIS Data for Better Policy Making. <i>Applied Spatial Analysis and Policy</i>, 9(3), 389-411. 4. Naji, H. R., Nia, M. F., Kiaei, M., Abdul-Hamid, H., Soltani, M., & Faghihi, A. (2016). Effect of intensive planting density on tree growth, wood density and fiber properties of maple (<i>Acer velutinum</i> Boiss.). <i>iForest-Biogeosciences and Forestry</i>, 9(4), 325-329. 5. Sanusi, R. A. M., Hamid, H. A., & Nuruddin, A. A. (2016). Stable isotope ratio (delta C-13) responses of <i>Platyserium bifurcatum</i> at different light intensity levels. <i>ASIA LIFE SCIENCES</i>, 25(1), 507-513. 6. Soltani, M., Rohani, A. A., Ramazani, O., Naj, H. R., Hazandy, A. H., Simonot, L., & Bakar, E. S. (2016). UV-Curable Coating Process on CMYK-Printed Duplex Paperboard, Part II: Effects of Nano-TiO2 Modification. <i>BioResources</i>, 11(1), 1930-1940. 7. Hossain, M. D., Musa, M. H., Nuruddin, A. A., Jol, H., & Hamid, H. A. (2016). Physio-agronomic performance of kenaf as influenced by different carbon levels.
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8. Majid Kiaei, Hamid Reza Naji, **Hazandy Abdul Hamid**, Mohammad Farsi. (2016). Radial variation of fiber dimensions, annual ring width, and wood density from natural and plantation trees of Alder (*Alnus glutinosa*) wood. *Wood Research*, 61(1), 55-64.
9. Mohd Razali, S., Marin Atucha, A.A., Nuruddin, A.A., **Abdul Hamid, H.**, Mohd Shafri, H.Z. 2015. Monitoring Vegetation Drought Using MODIS Remote Sensing Indices For Natural Forest and Plantation Areas. 1-16.
10. Moradi, M., Shirvany, A., Matinizadeh, M., Etemad, V., Naji, H.R., **Abdul-Hamid, H.** 2015. Arbuscular mycorrhizal fungal symbiosis with *Sorbus torminalis* does not vary with soil nutrients and enzyme activities across different sites. *IForest*. Vol 8: 308-313.
11. Razali, S.M., Atucha, A.A.M., Nuruddin, A.A., Shafri, H.Z.M, **Hamid, H.A.** 2015. Mapping Human Impact on Net Primary Productivity Using MODIS Data for Better Policy Making. *Applied Spatial Analysis and Policy*. 1-23.
12. Amir Mahdi Khalatbari, Hawa Z.E. Jaafar, Amir Ali Khalatbari, **Hazandy Abdul Hamid** & Mohdid Ridzwan Abdul Halim. 2015. The Effect of Different Water Regimes on Growth, Gas Exchange Rate and Water Relations of Three Varieties of Kenaf (*Hibiscus cannabinus* L.) Under Glasshouse Condition. *Journal of Food, Agriculture & Environment*. Vol 13 (1): 103-109.
13. Nurul Nasyitah Shukor, **Hazandy Abdul Hamid**, Arifin Abdu & Mohd Kamil Ismail. 2015. Growth and Physiological Response of *Azadirachta excelsa* (Jack) Jacobs Seedlings to Over-Top-Filling Treatment. *American Journal of Plant Physiology*. Vol. 10 (1): 1 – 24.
14. Nurul Nasyitah Shukor, **Hazandy Abdul Hamid**, Arifin Abdu & Mohd Kamil Ismail. 2015. Effects of Soil Compaction on Growth and Physiological Characteristics of *Azadirachta excelsa* Seedlings. *American Journal of Plant Physiology*. Vol. 10 (1): 25-42.
15. Nurul Nasyitah Shukor, **Hazandy Abdul Hamid**, Arifin Abdu &

	<p>Mohd Kamil Ismail. 2014. Waterlogging Effects on Growth and Physiological Characteristics of <i>Azadirachta excelsa</i> Seedlings. <i>American Journal of Plant Physiology</i>. Vol. 9 (3): 78 – 94.</p> <p>16. Muhammad Said, A.H., Mohd. Zaki, H., Zahari, I., Nazre, M.S., Arifin, A., Ismail Adnan, A.M., & Hazandy, A.H. 2014. Identification of Potential Species to be Planted in Poor Forests of The Central Forest Spine (CFS) Wildlife Corridor Gerik, Perak. <i>The Malaysian Forester</i>. Vol. 77 (22): 145-158.</p> <p>17. H.R. Naji, M.H. Sahri, E.S. Bakar, M. Soltani & H.A. Hamid. 2014. Variation in Wood Density and Shrinkage in Two Latex Timber Clones of Rubber Trees in Different Planting Densities. <i>Academy Science Malaysia Science Journal</i>. Vol. 8 (1). pp. 36-43.</p> <p>18. HR Naji, ES Bakar, MH Sahri, M Soltani, H Abdul Hamid & SE Ebadi. 2014. Variation in Mechanical Properties of Two Rubberwood Clones in Relation to Planting Density. <i>Journal of Tropical Forest Science</i>. Vol. 26 (4): 503-512.</p> <p>19. Umme Shahina Khanom, Sabrina Sharmeen, Jannatul Ferdouse, Wahhida Shumi, Arifin Abdu, Hazandy Abdul Hamid & Md. Aktar Hossain. 2014. Determination of Pond Water Quality for Aquaculture and Ecosystem Management. <i>Journal of Food, Agriculture & Environment</i>. Vol. 12 (3&4): 398-394.</p> <p>20. Mohd Hadi Akber Basri, Arifin Abdu, Nasima Junejo, Hazandy Abdul Hamid & Khalil Ahmed. 2014. Journey of Kenaf in Malaysia: A Review. <i>Scientific Research and Essays</i>. Vol. 9 (11): 458-470.</p> <p>21. Nazerian E, Naji H, Abdul-Hamid H, Moradi M. 2014. Phenotypic and Molecular Characterization of <i>Natrassia mangiferae</i>, the Causal Agent of Black Locust Decline. <i>Forest Pathology</i>. In Review.</p> <p>22. Mojtaba Soltani, Ramin Veisi, Ali Asghar Rohani, Omid Ramzani, Hamid Reza Naji & Abdul Hamid Hazandy. 2014. UV-Curable Coating Process on CMYK-Printed Duplex Paperboard, Part II: Effects of Nano-TiO₂ Modification. <i>Bioresources</i>. In Review.</p> <p>23. Mostafa Moradi, Anoshirvany, Mohammad Matinizadeh, Vahid</p>
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	<p>Etemad, Hamid Reza Naji, Hazandy Abdul Hamid, Samira Sayah. 2014. Arbuscular Mycorrhizal Fungi Symbiosis with Sorbus Torminalis in Variation with Soil Nutrients and Enzymes. IForest-Biogeosciences and Forestry. Published Online.</p> <p>24. Mojtaba Soltani, Behbood Mohebbi, Hamid Reza Naji, Hazandy Abdul Hamid, Seyed Eshagh Ebadi, Amirhoman Hemmasi. 2014. Fast-curing Process in Acetylated-Fiber Composites. International Journal of Adhesion and Adhesives. In Review.</p> <p>25. Hamidreza Naji, Marziyeh Fallah Nia, Majid Kiaei, Hazandy Abdul Hamid, Mojtaba Soltani. 2014. Effect on Intensive Stocking Density on Tree Growth, Wood Density and Fiber Properties of Maple (<i>Acer velutinum</i> Boiss). Annals of Forest Science. In Review.</p> <p>26. Sheriza Mohd Razali, Armaldo Marin, Ahmad Ainuddin Nuruddin, Helmi Zulhaidi Mohd Shafri & Hazandy Abdul Hamid. 2014. Capability of Integrated MODIS Imagery and ALOS for Oil Palm, Rubber and Forest Areas Mapping in Tropical Forest Regions. Sensors. Vol. 14, pp. 8259-8282.</p> <p>27. Hamidreza Naji, Edi Suhaimi Bakar, Seyed Eshagh Abadi, Mojtaba Soltani, Hazandy Abdul Hamid, Samaneh Karbalaee Seyed Javad & Mohd Hamami Sahri. 2014. Effect of Initial Planting Density and Tree Features on Growth, Wood Density and Anatomical Properties from a Hevea brasiliensis Trial Plantation. Forest Products Journal. Vol. 64 (1-2), pp. 41-47.</p> <p>28. M.D. Hossain, M.M. Hanafi, H. Jol, & A.H. Hazandy. 2014. Growth, Photosynthesis, Chlorophyll Content and Nutrient Partitioning of Kenaf as Influenced by Different Levels of Carbon. Journal of Plant Nutrition. Vol. 37, pp. 65-75.</p> <p>29. Hamidreza Naji, Edi Suhaimi Bakar, Seyed Eshagh Ebadi, Mojtaba Soltani, Hazandy Abdul Hamid, Samaneh Karbalaee Seyed Javad & Mohd Hamami Sahri. 2013. Effect of Initial Planting Density and Tree Features on Growth, Wood Density and Anatomical Properties from a Hevea brasiliensis Trial Plantation. Forest Product Journal. <i>In Press</i>.</p>
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30. Mohd Hadi Akbar Basri, Arifin Abdu, Shamshuddin Jusop, Osumanu Haruna Ahmed, **Hazandy Abdul Hamid**, Mohd Ashadie Kusno, Baharom Zainal, Abdul Latib Senin & Nasima Junejo. 2013. Effects of Mixed Organic and Inorganic Fertilizers Application on Soil Properties and the Growth of Kenaf (*Hibiscus cannabinus* L.) Cultivated on BRIS Soils. *American Journal of Applied Sciences*. Vol. 10 (12), pp. 1586-1597.
31. Daljit Singh, K.S., A. Arifin, O. Radziah, J. Shamshuddin, **A.H. Hazandy**, N.M. Majid, J. Aiza-Shaliha, T.X. Rui & S.R. Keeren. 2013. Status of Soil Microbial Population, Enzymatic Activity and Biomass of Selected Natural, Secondary and Rehabilitated Forests. *American Journal of Environmental Science*. Vol. 9 (4), pp. 301-309.
32. Keeren Sundara Rajao, Arifin Abdu, **Hazandy Abdul-Hamid**, Daljit Singh Karam, Shamshuddin Jusop, Aiza-Shaliha Jamaluddin & Wong Wan Zhen. 2013. Assessment of Heavy Metals Uptake and Translocation by *Aquilaria Malaccensis* Planted in Soils Containing Sewage Sludge. *American Journal of Applied Sciences*. Vol. 10 (9), pp. 952-964.
33. Daljit Singh Karam, A. Arifin, O. Radziah, J. Shamshuddin, **Hazandy Abdul Hamid**, Nik M. Majid, I. Zahari, Nor Halizah Ab. Halim & Cheng Kah Yen. 2013. Evaluation of Soil Biological Properties of 9- and 15- year-old stands in the oil palm plantation in Perak, Malaysia. *African Journal of Agricultural Research*. Vol. 8 (29), pp. 3904-3910.
34. Mohd Hadi Akbar Basri, Nasima Junejo, Arifin Abdu, **Hazandy Abdul Hamid** & Mohd Ashadie Kusno. 2013. Elevation and variability of acidic sandy soil pH: Amended with conditioner, activator, organic and inorganic fertilizers. *African Journal of Agricultural Research*. Vol. 8 (29), pp. 4020-4024.
35. Aiza Shaliha Jamaluddin, Arifin Abdu, **Hazandy Abdul Hamid**, Mohd Hadi Akbar, Trevor Saga Banga, Shamshudin Jusop & Nik Muhamad Majid. 2013. Assessing Soil Fertility Status of Rehabilitated Degraded Tropical Rainforest. *American Journal of*

Environmental Science. Vol. 9 (3), pp. 280-291.

36. Keeren Sundara Rajao, Arifin Abdu, Daljit Karam Singh, **Hazandy Abdul Hamid**, Shamshuddin Jusop & Wong Wan Zhen. 2013. Heavy Metal Uptake and Translocation by *Dipterocarpus Verrucosus* from Sewage Sludge Contaminated Soil. *American Journal of Environmental Science*. Vol. 9 (3), pp. 259-268.
37. Siti Noorbaini Sarmin, Wan Mohd Nazri Wan Abd Rahman, Jamaludin Kasim, Othman Sulaiman, Rokiah Hashim & **Hazandy Abdul Hamid**. 2013. Study on Dimensional Stability Properties of Laminated Veneer Lumber (LVL) from Oil Palm Trunk Bonded With Different Cold Set Adhesives. *Journal of Applied Science*. Vol. 13 (7), pp. 994-1003.
38. Amir Mahdi Khalatbari, **Abdul Hamid Hazandy**, Mohd. Rizwan Abd. Halim, Amir Ali Khalatbari & Fatemeh Balouei. 2013. The effect of different water regimes on growth, gas exchange rate and water relations of three varieties of Kenaf (*Hibiscus cannabinus* L.) Under Glasshouse Condition. *Journal of Food, Agriculture & Environment*. *Paper Accepted*.
39. Ika Heriansyah, **Hazandy Abdul Hamid**, Ahmad Ainuddin Nuruddin, Arifin Abdu & Shamsudin Ibrahim. 2013. Measuring the Short-term Success of Hill Dipterocarp Forest Restoration: The Use of Organic Materials. *Journal of Agricultural Science*. Vol. 5 (1), pp. 230 – 240
40. Azita Ahmad Zawawi, Masami Shiba, **Hazandy Abdul Hamid**, Mohd Zaki Hamzah & Pakhriazad Hassan Zaki. 2012. Penilaian Awal Perubahan Sel Salur Kayu *Baekkea frutescens* yang dipengaruhi oleh Impak Akibat Aktiviti Rekreasi di Gunung Tahan, Malaysia. Vol. 41 (9), pp. 1079-1086
41. D.S. Karam, A. Arifin, O. Radziah, J. Shamshuddin, N.M. Majid, **A.H. Hazandy**, I. Zahari, A.H. Nor Halizah & T.X. Rui. 2012. Impact of Long Term Forest Enrichment Planting on the Biological Status of Soil in a Deforested Dipterocarp Forest in Perak, Malaysia. *The Scientific World Journal* Volume 2012. Pp: 8 pages
42. A. Arifin, A. Parisa, **A.H. Hazandy**, T.M. Mahmud, N. Junejo, A.

	<p>Fatemeh, S. Mohsen, M.E. Wasli & N.M.Majid. 2012. Evaluation of cadmium bioaccumulation and translocation by <i>Hopea odorata</i> grown in a contaminated soil. African Journal of Biotechnology Vol. 11 (29), pp. 7472-7482</p> <p>43. M.D. Hossain, M.M. Hanafi, H. Jol & A.H. Hazandy. 2012. Effects of carbon levels on shoot growth and root characteristics of different kenaf (<i>Hibiscus cannabinus</i> L.) varieties grown on sandy bris soil. African Journal of Biotechnology Vol. 11 (25), pp. 6703-6709</p> <p>44. Junejo N., Khanif, M. Y., Dharejo, K. A., Hazandy Abdul-Hamid and Arifin Abdu. 2012. Evaluation of coated urea for ammonia volatilization loss, nitrogen mineralization and microsite pH in selected soil series. <i>African Journal of Biotechnology</i> Vol. 11(2), pp. 366-378.</p> <p>45. A.Arifin, D.S. Karam, J. Shamsuddin, N.M. Majid, O. Radziah, A.H. Hazandy and I. Zahari. 2012. Proposing a suitable soil quality index for natural, secondary and rehabilitated tropical forests in Malaysia. African Journal of Biotechnology. Vol. 11 (4), pp. 3297-3309</p> <p>46. Hazandy Abdul-Hamid, Arifin Abdu, Mohd-Kamil Ismail, Mohd-Khairul-Anuar Rahim, , Abdul-Latib Senin and Wan-Mohd-Nazri Wan-Abd-Rahman.2011. Gas Exchange of Three Dipterocarp Species in a Reciprocal Planting. <i>Asian Journal of Plant Sciences</i> 10(8). 408-413.</p> <p>47. M. D. Hossain, M. M. Hanafi, H. Jol and A. H. Hazandy. 2011. Growth, yield and fiber morphology of kenaf (<i>Hibiscus cannabinus</i> L.) grown on sandy BRIS soil as influenced by different levels of carbon. <i>African Journal of Biotechnology</i> 10(50): 10087-10094.</p> <p>48. Junejo N., Khanif, Y.M, Dharejo, K. A., Hazandy Abdul-Hamid and Arifin Abdu. 2011. A field evaluation of coated urea with biodegradable materials and selected urease. <i>African Journal of Biotechnology</i> Vol. 10(85), pp. 19729-19736.</p> <p>49. Senin, A.L. H. Abdul-Hamid, M.A. Kusno and Arifin Abdu. 2011</p>
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	<p>Comparative Growth of 11 Year old <i>Acacia aulacocarpa</i> A. CUNN. EX Benth from Four Provenances. <i>Research Journal of Forestry</i> 5(4): 154-161.</p> <p>50. Daljit Singh Karam, Arifin Abdu, 3O. Radziah, J. Shamshuddin, Hazandy Abdul-Hamid, Nik M. Majid, Mohanaselvi Panicker and Nor Halizah Abd. Halim. 2011. Assessing Soil Biological Properties of Natural and Planted Forests in the Malaysian Tropical Lowland Dipterocarp Forest. <i>American Journal of Applied Sciences</i> 8(9):854-85.</p> <p>51. Hazandy Abdul-Hamid and Maurizio Mencuccini. 2009. Age- and size-related changes in physiological characteristics and chemical composition of <i>Acer pseudoplatanus</i> and <i>Fraxinus excelsior</i> trees. <i>Tree Physiology</i> 29: 27-38. (Impact factor 2.28).</p> <p>52. Hazandy Abdul-Hamid, Maurizio Mencuccini and Nor-Aini Ab-Shukor. 2009. Net primary productivity of forest: A review of current issue. <i>Pertanika Journal of Tropical Agricultural Science</i> 32(2): 111-123.</p> <p>53. Hazandy Abdul-Hamid, Maurizio Mencuccini, Jordi Martinez-Vilalta and Dirk Vanderklein. 2008. Testing the suitability of grafting in studies aimed at separating the effects of age and size in tree growth. <i>Malaysian Forester</i> 71: 135-148.</p> <p>54. Wan-Mohd-Nazri W. A. R., Jamaludin, K., Rahim, S., Nor Yuziah, M. Y. and Hazandy Abdul-Hamid. 2011. Strand properties of <i>Leucaena leucocephala</i> (Lam.) de wit wood. <i>African Journal of Agricultural Research</i> 6(22): 5181 – 5191</p> <p>55. Mencuccini, M., J. Martinez-Vilalta, D. Vanderklein, H. A. Hamid, E. Korakaki, S. Lee and B. Michiels. 2005. Size-mediated ageing reduces vigour in trees. <i>Ecology Letters</i> 8: 1183-1190. (Impact factor 10.32) – <u>References to this article published elsewhere: E. PENNISI, 2005. Tree-growth: The sky is not the limit. <i>Science</i>, 310:1896-1897. J. PENUELAS, 2005. A big issue for trees. <i>Nature</i>, 437:965-966.</u></p> <p>56. Mencuccini, M., J. Martinez-Vilalta, H.A. Hamid, E. Korakaki and D. Vanderklein. 2007. Evidence for age- and size-related controls</p>
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	<p>of tree growth from grafting studies. <i>Tree Physiology</i> 27: 463-473. (Impact factor 2.28).</p> <p>57. Mohd-Hazimy Y. and Hazandy Abdul-Hamid, Nor-Aini Ab-Shukor, Arifin Abdu Abdul-Latib Senin and Wan-Mohd-Nazri, W.A.R. 2011. Antagonistic effects of fertilizer on photochemical efficiency of <i>Hibiscus cannabinus</i> L. (Kenaf) planted on Beach Ridges Interspersed with Swales Soil. <i>American Journal of Applied Sciences</i> 6(3):423-428</p> <p>58. Arifin, A., Aderis, N., Hazandy, A.H., Jusop, S., Karam, D.S. and K. Ahmad. 2011. Using <i>Orthosiphon stamineus</i> B. for phytoremediation of heavy metals in soils amended with sewage sludge. <i>American Journal of Applied Sciences</i> 8 (4): 323-331.</p> <p>59. Ruzana-Adibah Mohd Sanusi, Ainuddin Ahmad Nuruddin and Hazandy Abdul-Hamid. 2011. Leaf Chlorophyll Fluorescence and Gas Exchange Response to Different Light Levels in <i>Platycerium bifurcatum</i>. <i>American Journal of Agricultural and Biological Sciences</i> 6(2): 214-220</p> <p>60. Yaghoob Tahery, Farshid Kafilzadeh, Mehdi Dehdashti, Amir Ashkan Mahjoor, Siamak Mahmoodi Sivand and Hazandy Abdul-Hamid. 2010. Isolation and identification of Diazinon Degrading Bacteria from Fresh Water: a Case Study on the Sediments of Lake Parishan in Iran. <i>World Journal of Fish and Marine Sciences</i> 2(3): 240-245.</p> <p>61. Yaghoob Tahery, Hazandy Abdul-Hamid, Ebrahim Tahery, Esmail Deljoo and Mahsa Mogrilan. 2011. Comparative photosynthesis and transpiration of three varieties of <i>Hibiscus cannabinus</i> L. (Kenaf). <i>African Journal of Agricultural Research</i> 6(8): 2010-2014</p> <p>62. Yaghoob Tahery, Nor-Aini Ab-Shukor, Hazandy Abdul-Hamid, Mohd Puad Abdullah, Norlia Basherudin and Farshid Kafilzadeh. 2010. Function and Expression Pattern of Terminal Flower 1 (<i>TFL1</i>) Homolog Genes in Dicot Plants. <i>Middle-East Journal of Scientific Research</i> 6(3): 293-304.</p> <p>63. Yetti Heryati, Arifin Abdu, Mohd-Noor Mahat, Hazandy Abdul-Hamid, Shamshuddin Jusop, Nik-Muhamad Majid, Ika Heriansyah</p>
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- , Leslie Ajang and Khairulmazmi Ahmad. 2011. Comparing the Fertility of Soils under *Khaya ivorensis* Plantation and Regenerated Degraded Secondary Forests. *American Journal of Applied Sciences* 8 (5): 472-480
64. Yetti Heryati, Arifin Abdu, Mohd Noor Mahat, **Hazandy Abdul-Hamid**, Shamsuddin Jusop, Nik Muhamad Majid, Ika Heriansyah and Khairulmazmi Ahmad. 2011. Assessing Forest Plantation Productivity of Exotic and Indigenous Species in degraded Secondary Forests. *American Journal of Agricultural and Biological Sciences* 6(2): 201-208
65. Yetti, H., Debora, B., Arifin, A., Mohd Noor, M., **Hazandy, A.H.**, Nik Muhamad, M., Affendy, H. and Ika, H. 2011. Growth performance and biomass accumulation of a *Khaya ivorensis* plantation in three soil Series of Ultisols. *American Journal of Agricultural and Biological Sciences* 6(1): 33-44
66. Daljit, K.S., Faezah, A., **Hazandy, A.H.**, Zaidon, A. and Arifin, A. 2011. Boric acid toxicity trials on the wood borer of *Heterobostrychus aequalis* waterhouse (Coleoptera: Bostrychidae). *American Journal of Agricultural and Biological Sciences* 6(1): 84-91.
67. Ghasemi, S., M. Zakaria, **A. H. Hazandy**, E. Yusof, N. Mola Hoveizeh and A. Dahnekar. 2011. Physico-chemical factors in the *Avicennia and Rhizophora* mangrove habitats in Iran, *Asia Life Science* 20 (2): 503-520. (Impact factor 0.259)
68. Pakhriazad Hassan Zaki, Mohd Zaki Hamzah, Mohd Hasmadi Ismail, Khairil Wahidin Awang and **Hazandy Abd. Hamid**. 2010. Malay customary tenure and conflict on implementation of colonial land law in Peninsular Malaysia. *Journal of Law and Conflict Resolution*. 2(2): 33-45.
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	Universiti Putra Malaysia.
<i>Proceedings</i>	<ol style="list-style-type: none"> 1. Amir Mahdi Khalatbari, Hawa Z.E. Jaafar, Hazandy Abdul Hamid & Amir Ali Khalatbari. The Impact of Water Stress on Fiber Properties of Three Kenaf (<i>Hibiscus cannabinus</i> L.) Varieties. 2nd International Conference on Kenaf and Allied Fibres. 3-5 Dec 2013. Hotel Equatorial Bangi-Putrajaya. (Poster Presentation) 2. Baharum Zainal, Hazandy Abdul Hamid, Arifin Abdu & Mohd Sharil Samsudin. Good Agricultural Practices for Kenaf Cultivation: Case Study in University Agricultural Park. 2nd International Conference on Kenaf and Allied Fibres. 3-5 Dec 2013. Hotel Equatorial Bangi-Putrajaya. pp. 34. 3. Mohd Ashadie Kusno, Mohd Hadi Akbar Basri, Arifin Abdu, Nasima Junejo, Abdul Latib Senin & Hazandy Abdul Hamid. Growth and Biomass Production Off Different Kenaf Varieties Cultivated on Amended BRIS Soil. 2nd International Conference on Kenaf and Allied Fibres. 3-5 Dec 2013. Hotel Equatorial Bangi-Putrajaya. pp.52. 4. Heriansyah I., Hazandy A.-H, Shamsudin I. Ahmad A.N., Arifin A. Allometric Equations for Estimating Dipterocarp Forest Biomass in the Tropics of Southeast Asia. Forest Biomass Conference. 7-9 October 2013. Poland. pp. 22. 5. Mohd Hadi-Akbar Basri, Arifin Abdu, Hazandy Abdul Hamid, Mohd Ashadie Kusno & Nasima Junejo. Effect of Mixed Organic and Inorganic Fertilizer on <i>Hibiscus cannabinus</i> L. Growth Performance and Soil Properties Cultivated on BRIS Soils in Malaysia. 2nd International Symposium on Tropical Forest Ecosystem Science and Management: Challenges and Solutions. 11-13 September 2013. Dewan Sri Kenyalang, UPM Bintulu Sarawak Campus. 6. Mohd-Ashadie Kusno, Hazandy Abdul-Hamid, Abdul-Latib Senin, Ika Heriansyah & Mohd –Kamil Ismail. Establishing Allometric Equation for Biomass Estimation of <i>Hopea Odorata</i> in Malaysia by Destructive Method. 2nd International Symposium on Tropical Forest Ecosystem Science and Management: Challenges and Solutions. 11-13 September 2013. Dewan Sri Kenyalang, UPM

	<p>Bintulu Sarawak Campus. (Poster Presentation)</p> <p>7. Mohd Ashadie Kusno, Mohd Hadi Akbar Basri, Arifin Abdu, Nasima Junejo & Hazandy Abdul Hamid. Effects of Soil Activator and Ameliorator on Kenaf Productivity. INTROP Research Colloquium 2012</p> <p>8. Baharum Zainal, Hazandy Abdul Hamid, Arifn Abdu & Mohd Shahril Samsudin. Good Agricultural Practices for Kenaf Cultivation: Case Study in University Agricultural Park. INTROP Research Colloquium</p> <p>9. Mohd Hadi Akbar Basri, Arifin Abdu, Nasima Junejo, Hazandy Abdul Hamid & Mohd Ashadie Kusno. Effects of Organic and Inorganic Fertilizers Application on Sandy Soil Fertility, Physiology and Kenaf Productivity. INTROP Research Colloquium 2012</p> <p>10. Abdul Latib Senin, Hazandy Abdul Hamid, Ong Kian Huat, Mohd Ashadie Kusno, Mohd Muhaizi Mat Daud & Arifin Abdu. Variations in Gas Exchange Charactertics in Four Provenances of Acacia aulacocarpa. INTROP Research Colloquium 2012</p> <p>11. Hazandy A-Hamid, Arifin Abdu, Wan Mohd Nazri Wan Abd Rahman, Elini-Misnah Odzlan, Mohd Kamil Ismail, Abdul Latib Senin, Mohd Ashadie Kusno & Ika Heriansyah. Assessment of Total Biomass Production of Two Potential Acacis Species Planted in a Mixed Exotic Tree Species Plantation. 2012 IUFRO Conference Division 5 Forest Products. 8-13 July 2012. Estoril Congress Centre, Lisbon, Portugal. pp. 282.</p> <p>12. Daljit Karam Singh, Arifin Abdu, Radziah Othman, Tan Xian Rui, Hazandy Abdul-Hamid, Shamshuddin Jusop and Nik Muhamad Majid. Comparison of soil biological properties under enrichment planting and secondary forest of Tapah Hill Forest Reserve, Perak, Peninsular Malaysia. Proceedings Soils 2011 Conference on soil fertility and plantation productivity 19-21 April 2011. Kota Kinabalu, Sabah, Malaysia. pp 114-120.</p> <p>13. Aiza-Shaliha Jamaludin, Nik Muhamad Majid, Hazandy Abdul-Hamid, Shamshuddin Jusop and Arifin Abdu. Soil characteristics under different land use types at Nirvana Forest Reserve, Bintulu,</p>
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	<p>of grafted plants show evidence of age-related decline. Paper presented in 52nd International Symposium of International Association for Vegetation Science. 30th May – 4th June 2009, Chania, Crete, Greece.</p> <p>19. Ruzana Adibah Mohd Sanusi, Ahmad Ainuddin Nuruddin and Hazandy Abdul Hamid. 2009. Responses of <i>Platyserium bifurcatum</i> at different levels of light intensity. Paper presented in 3rd Regional Conference on Natural Resources in The Tropic (NRTrop3). 2nd – 5th Aug 2009, Kuching, Sarawak, Malaysia.</p> <p>20. Ruzana Adibah Mohd Sanusi, Ahmad Ainuddin Nuruddin and Hazandy Abdul Hamid. 2009. Physiological responses to light stress in the epiphytes of <i>Platyserium bifurcatum</i> at different levels of light intensity. Paper presented in 20th Malaysian Society of Plant Physiology Conference. 24th – 26th July 2009, Port Dickson, Negeri Sembilan, Malaysia.</p> <p>21. Dayana Aisyah Husain, Hazandy Abdul Hamid and Nor Aini Ab Shukor. 2009. Growth performance and physiological characteristics in <i>Aquilaria malaccensis</i> plantations differing in site resource availability. Paper presented in 3rd Regional Conference on Natural Resources in The Tropic (NRTrop3). 3rd – 5th Aug 2009, Kuching, Sarawak, Malaysia.</p> <p>22. Azita, A.Z., Hazandy A.H. and Mohd-Zaki, H.. 2009. The use of chlorophyll fluorescence to study the effects of environmental stresses on photosynthesis of <i>Tristanopsis fructicosa</i> in Mount Tahan. Paper presented in 20th Malaysian Society of Plant Physiology Conference. 24th – 26th July 2009, Port Dickson, Negeri Sembilan, Malaysia.</p> <p>23. Saleh N.M., Zaki. M.H., Suterisno, S.E., Latifah, Z.A. and A.H. Hazandy. 2009. Direct effect of human activities on tropical upper montane vegetation of Peninsular Malaysia. Paper presented in 52nd International Symposium of International Association for Vegetation Science. 30th May – 4th June 2009, Chania, Crete, Greece.</p> <p>24. Zaki. M.H., Arifin, A, Saleh N.M., Azani M.A., Hazandy A.H., Awang</p>
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	<p>Nor, A.G. and M. Nik Muhamad. 2009. Accelerated forest recovery through forest rehabilitation. Paper presented in 52nd International Symposium of International Association for Vegetation Science. 30th May – 4th June 2009, Chania, Crete, Greece.</p> <p>25. Hazandy Abdul-Hamid, Mohd-Zaki Hamzah, Azita Ahmad-Zawawi and Mohd-Khairil-Saufi Zulkeppli. 2008. Impacts of camping and trampling on Mount Tahan Vegetation. Paper presented in IUFRO Conference on Biodiversity in Ecosystem and Landscape. 5-8 August 2008, Thompson River University, Kamloops, Canada.</p> <p>26. Azita Ahmad-Zawawi, Hazandy Abdul-Hamid, Mohd-Zaki Hamzah and Mohd-Nazre Saleh. 2008. Impacts of recreation activities on Mount Tahan vegetation. Paper presented at National Seminar on Biodiversity Conservation 2008. 20th-21st August 2008, Universiti Putra Malaysia, Serdang.</p> <p>27. Hazandy Abdul Hamid and Maurizio Mencuccini. 2007. Size mediates ageing: Merging architectural complexity with cellular senescence. Paper presented in Advances in Tropical Forestry Research Colloquium. 26-28 June 2007, UPM.</p> <p>28. H. A. Hamid, M. Mencuccini, J. Martinez-Vilalta and D. Vanderklein. Testing the suitability of grafting in studies aimed at separating the effects of age and size in tree growth. 2007. Paper presented in International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus.</p> <p>29. Hazandy Abdul Hamid, Nor Aini Ab Shukor, Mohd. Basri Hamzah, Sapari Mat, Abdul Latib Senin and Farini Halim. 2007. Water use and growth efficiency of nine varieties of <i>Hibiscus cannabinus</i> (Kenaf). Poster presented at 'Dialog bersama Kementerian Perladangan dan Komoditi dan Universiti Putra Malaysia', 13th December 2007. Universiti Putra Malaysia, Serdang.</p> <p>30. Nor Aini Ab. Shukor, Hazandy Abdul Hamid and Mohd. Fadzhel Mohd. Nasir. 2007. Growth, flowering and seed production of Kenaf (<i>Hibiscus cannabinus</i> L.) varieties. Paper presented in International Symposium on Kenaf allied fibres-renewable</p>
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	<p>resources for new industry. 19-21 June 2007 at Xiamen, China.</p> <p>31. Mencuccini, Maurizio, Martinez-Vilalta, Jordi, Vanderklein, Dirk, Hazandy, Hamid, Korakaki, Evangelia. 2005. Size, not cellular senescence, explains reduced vigour in tall trees. Paper presented in The Ecological Society of America (ESA) Annual Main Meeting. 7 – 12 August, Montreal, Canada.</p> <p>32. Ghasemi, S., M. Zakaria, A. H. Hazandy, E. Yusof, 2010, <i>The role of local people in biodiversity conservation in the mangrove forests</i>, International conference on sustainable community development 2010 (ICOSCD 2010), Conference proceeding, pp. 1245-1256.</p> <p>33. Ghasemi, S., M. Zakaria, A. H. Hazandy, E. Yusof, N. Rajpar, A. Danehkar, 2010, <i>Management of waterbird populations in the mangrove forest in Iran</i>, International conference on sustainable community development 2010 (ICOSCD 2010), Conference proceeding, pp.1747-1758.</p>
<p><i>Other publications</i></p>	<p>1. Hazandy Abdul-Hamid, Maurizio Mencuccini and Nor-Aini Ab-Shukor. 2008. Neither Roots nor Shoots of Grafted Plants Show Evidence of Age-related Decline. Poster presented at Invention, Research & Innovation Exhibition, Universiti Putra Malaysia, Serdang, 29th-31st July 2008.</p> <p>2. Sapari Mat, Nor-Aini Ab-Shukor, Fauzi Ramlan, Mohd. Zaki Hamzah, Hazandy Abdul-Hamid and Abdul Latib Senin. 2008. Biomass Production of <i>Acacia mangium</i> and <i>Acacia aulacocarpa</i> Multiple-Leardered Trees in Increasing Carbon Sequestration of Afforestation Programme. Poster presented at Invention, Research & Innovation Exhibition, Universiti Putra Malaysia, Serdang, 29th-31st July 2008.</p> <p>3. Hazandy Abdul-Hamid, Nor-Aini Ab-Shukor, Sapari Mat, Abdul-Latib Senin and Mohd-Faris Sobri. 2007. Net primary production of two fast growing tree species. Poster presented at Invention, Research & Innovation Exhibition, Universiti Putra Malaysia, Serdang, 27th-29th November 2007.</p> <p>4. Hazandy Abdul-Hamid, Nor-Aini Ab-Shukor and Mohd-Khairil-Saufi Zulkeppli. 2007. Maximum carboxylation and electron transport</p>

	<p>rates of a stress-induced indigenous tree species. Poster presented at Invention, Research & Innovation Exhibition, Universiti Putra Malaysia, Serdang, 27th-29th November 2007.</p> <p>5. Hazandy Abdul-Hamid, Nor-Aini Ab-Shukor, Mohd-Basri Hamzah, Sapari Mat, Abdul-Latib Senin and Farini Halim. 2007. Water use and growth efficiency of of nine varieties of <i>Hibiscus cannabinus</i>. Poster presented at meeting between Ministry of Plantation Industries and Commodities & UPM, Universiti Putra Malaysia, Serdang, November 2007</p>				
Computer software					
H. PROJEK PENYELIDIKAN TERDAHULU(Past Research Project)					
Project No.	Project Title	Role	Year	Source of fund	Status
	Peningkatan Teknologi Hasil Pengeluaran Kenaf oleh Petani	Co-Researcher	Jan 2015 – Dec 2015	KTGS	Completed
	Penjanaan Pendapatan Sampingan dan Peningkatan Kualiti Hidup Penduduk Luar Bandar Menerusi Penanaman Pokok Karas sebagai Tanaman Landskap	Project Leader	Sept 2013 – Ogos 2015	Knowledge Transfer Programme	Completed
	Assessment of Zn, Cu and Pb Sequestration Rate Using <i>Acrostichum Aureum</i> as Bioaccumulation Agent Through in Vitro Model System	Mentor	3 Dec 2014 (24 months)	RACE	Completed
UPM GRANT					
07-01-13-1237FR	Options for 'Clean Development' Activities: Study on Carbon Dynamics in Converted	Project Leader	2013	Fundamental Research Grant Scheme	Completed

	Forested-Land				
<i>FRGS/1/11/STWN/UPM/02/13</i>	Effects of Soil Conditioner and Activator on <i>Hibiscus cannabinus</i> (Kenaf) Productivity Planted on Beach Ridges Interspersed with Swales (BRIS) Soil	Project leader	2011	Fundamental Research Grant Scheme	Completed
<i>05-01-11-1281RU</i>	Public Awareness on Carbon Capture and Storage	Project leader	2011	Research University Grant Scheme	Completed
<i>07-11-08-602FR</i>	Quantification of biomass production and carbon sequestration in planted indigenous and exotic forests	Project leader	2009	Fundamental Research Grant Scheme	Completed
<i>03-01-09-0705R</i>	Hydraulic Conductance of Different Ages and Sizes of three types macropropagated plants	Project leader	2009	Research University Grant Scheme	Completed
<i>01-01-07-233FR</i>	Net primary productivity of three exotic species and one indigenous species from two progeny trials	Project leader	2007	Fundamental Research Grant Scheme	Completed
<i>03-01-09-0779RU</i>	Determination of bioremediators for contaminated soils	Co-researcher	2009	Research University Grant Scheme	Completed
	Increased Production Efficiency In Small-holder Kenaf	Co-Researcher	2009 - 2012	UNIDO	Ongoing

	production Systems for Specific Industrial Application (CFC.IJSG/25)				
Consultancy					
	Economic Evaluation of Ecosystem Products and Services of Bukit Sg. Puteh Forest Reserve	Project Leader	April – Julai 2015	UPMCS	Completed
	Kajian Anggaran Nilai Kesanggupan Membayar Permit Masuk ke Hutan Lipur Negeri Perak	Co-Member	Ogos 2013 – Februari 2014	UPMCS	Completed
	Kajian Kuantifikasi dan Penilaian Ekonomi Stok Karbon Hutan Paya Laut di Hutan Paya Laut Matang, Perak	Project Leader	Jun – Dis 2013	JPSM	Completed
	Species site Quality Study & Quantification of Biomass Production & Carbon Sequestration of Selected Planted Forest	Project Leader	Julai 2010 – Disember 2011	MTIB	Completed
	Kerja-Kerja Melaksanakan, Mengurus serta Menyiapkan Data Penilaian Risiko Pokok (Tree Risk Assessment) dan Penilaian Pokok (Tree Economic Evaluation) untuk Majlis Perbandaran Pulau Pinang	Co-Researcher	April 2013	UPMCS	Completed
	Training	Co-	1 Januari	UPMCS	Completed

	Programme for Shin Yang Plywood Sdn Bhd	Researcher	2013 - 31 Januari 2013		
	Kajian Strategi Perniagaan, Pemasaran dan Pelaksanaan bagi Pembangunan Industri Kenaf dalam kawasan Wilayah Ekonomi Pantai Timur (ECER)	Co-Researcher	Feb – Jun 2010	MIGHT	Completed
	Site Quality Variation Due to Topography and Effect on Growth of Forest Plantation	Co-Researcher	Mei 2010 – Mac 2011	MTIB	Completed

I. ID PUBLISHING (*Publishing ID*)

	Author ID	Name
<i>Scopus</i>	26029061400	Hazandy, A. H. Abdul-Hamid, H. Hamid, Hazandy Abdul Hamid, H. A. Abdul Hamid, Hazandy Abdul Hamid, H. Hamid, H. Abdul
<i>ORCID</i>		
<i>Web of Science ID</i>		
<i>Researcher ID</i>		
<i>Others</i>		

J. RANGKAIAN SOSIAL (*Social Networking*)

<i>Facebook</i>	Hazandy Hamid
<i>LinkedIn</i>	
<i>Researchgate</i>	
<i>Academia</i>	
<i>Google Scholar</i>	Hazandy Abdul-Hamid
<i>Blog</i>	
<i>Website url</i>	
<i>Others</i>	

