



CURRICULUM VITAE

A. BIODATA - BUTIR-BUTIR PERIBADI (Personal Details)			
Nama Penuh (Full Name)	Ahmad Ainuddin Nuruddin		Gelaran (Title): Professor
No. MyKad / No. Pasport (Mykad No. / Passport No.) 600209-08-6001	Warganegara (Citizenship) Malaysian	Bangsa (Race) Malay	Jantina (Gender) Male
Jawatan (Designation)	Prof.	Tarikh Lahir (Date of Birth)	9 February 1960 (57 years)

Alamat Semasa (Current Address)	Jabatan/Fakulti (Department/Faculty)	E-mel dan URL (E-mail Address and URL)
Institute of Tropical Forestry & Forest Products (INTROP), Universiti Putra Malaysia 43400, Serdang, Selangor	Department of Forest Management Faculty of Forestry 43400, Serdang, Selangor	E-mail: ainuddin@upm.edu.my URL: http://www.forr.upm.edu.my/~ainuddin H/P: 019-2193178
Tel: 03-8947 1881 Fax: 03-8947 1896	Tel: 03-8946 7205 Fax: 03-8947 1896	

B. KELAYAKAN AKADEMIK (Academic Qualification)			
Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhususan (Area of Specialization)
Doct. Of Forestry	Stephen F. Austin State University	1996	Microclimatology
M.S.	Ohio University	1985	Environment
B.S.	Ohio University	1982	Microbiology

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

Bahasa Melayu					v
Chinese					
Lain-lain (<i>other</i>):					

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN
(*Scientific experience and Specialisation*)

<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>

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>
Institute of Tropical Forestry and Forest Products (INTROP)	Deputy Director		2009	Present
Institute of Tropical Forestry and Forest Products (INTROP)	Head of Laboratory	Laboratory Techno Economic and Policy	2006	2009
Faculty of Forestry	Coordinator Research Graduate Students		Jan 2005	Sept 2008
Rainforest Academy	Deputy Director		Sept 2005	July 2006
Rainforest Academy	Head of Laboratory	Canopy Science Laboratory	Aug 2003	Aug 2005
Faculty of Forestry	Head of Department	Department of Forest Management	Sept 1998	Aug 2001

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>
UPM's 4 Stars Supervisor		Universiti Putra Malaysia		2013
Excellent Service Award		Universiti Putra Malaysia		2012
Silver Medal in Research, Design and Innovation Exhibition (PRPI2012)	Carbon Content of Different Biomass Components of Selected Species in Bubu Forest Reserve, Perak.			2012

Bronze Medal in Research, Design and Innovation Exhibition (PRPI2012).	Annual Rainfall Estimation Based on Two Different Methods.	Universiti Putra Malaysia		2012
Bronze Medal in Research, Design and Innovation Exhibition (PRPI2012).	Orchids of Cloud Forest in Genting Highlands, Pahang.	Universiti Putra Malaysia		2012
Bronze Medal in Research, Design and Innovation Exhibition (PRPI2012)	Penang Hill Orchids Diversity After A Century of Development Encroached	Universiti Putra Malaysia		2012
Silver Medal in Research, Design and Innovation Exhibition (PRPI2011)	Assessment of Light Stress Adaptability of Platycerium in a Changing Climate	Universiti Putra Malaysia		2011
Bronze Medal in Research, Design and Innovation Exhibition (PRPI2011)	Fuel Type Mapping Using Tasseled Cap Transformation Technique	Universiti Putra Malaysia		2011
Silver Medal in Research, Design and Innovation Exhibition (PRPI2011)	Quantifying Farmers' Acceptance on Developing Kenaf Industry in Malaysia.	Universiti Putra Malaysia		2011
Bronze Medal in Research, Design and Innovation Exhibition (PRPI2010)	Assessment of Forest Fire Effects in Peat Swamp Forest Using Forest Structure Characteristics.	Universiti Putra Malaysia		2010
Bronze Medal in Research, Design and Innovation Exhibition (PRPI2010)	A Drought Tolerant Epiphytic Fern Suitable for Extreme Environment	Universiti Putra Malaysia		2010
Gold Medal in Research, Design and Innovation Exhibition 2009 (PRPI2009)	Temporal Analysis of the Keetch Byram Drought Index in Malaysia: Implications of the Forest Fire Management	Universiti Putra Malaysia		2009

Malaysian Patent Pending	Spectral Band Configuration for Airbone Hyperspectral Imaging of the Tropical Forest			2009
Bronze Medal in Research, Design and Innovation Exhibition 2009 (PRPI2009), Universiti Putra Malaysia	The Orchids of Cloud Forest in Gunung Ulu Kali, Genting Highlands, Our Depleting and Vanishing Natural Heritage from Global Warming	Universiti Putra Malaysia		2009
ITEX Silver Medal,	Spectral Band Configuration for Airborne Hyperspectral Imaging of Tropical Forests.	Universiti Putra Malaysia	19 th International Invention, Innovation & Technology Exhibition (ITEX 2008).	2008
Gold Medal, in Research, Design and Innovation Exhibition 2007 (PRPI2007).	Forest Fire Hazard Mapping In Peat Swamp Forest Using Integrated Remote Sensing And Geographical Information System (Gis) Techniques.	Universiti Putra Malaysia		2007
Gold Medal. Exhibition Of Invention, Research & Innovation 2008 (PRPI08)	Valuing the Rain Forest: The Economic Values of Selected Forest Goods and Services in Ayer Hitam Forest Reserve, Puchong, Selangor	Universiti Putra Malaysia		
Silver Medal. Exhibition Of Invention, Research & Innovation 2008 (PRPI08), UPM	Economic Valuation of Timber Resources in Ayer Hitam Forest Reserve, Puchong, Selangor.	Universiti Putra Malaysia		31 Julai 2008
Gold Medal. Exhibition Of Invention, Research & Innovation 2007, UPM.	Forest Fire Hazard Mapping In Peat Swamp Forest Using Integrated Remote Sensing And Geographical Information System (Gis) Techniques.	Universiti Putra Malaysia		27-29 November 2007

Gold Medal. Exhibition Of Invention, Research & Innovation 2007, UPM.	A Decision Rule Based Approach For The Mapping Of Tropical Forest Canopy From Airborne Hyperspectral Data	Universiti Putra Malaysia		27-29 November 2007
Silver Medal. Exhibition of Invention, Research & Innovation 2007, UPM.	Effect Of Thinning On Nine Years Old <i>Azadirachta Excelsa</i> (Jack) Plantation In Merlimau, Melaka, Peninsular Malaysia.	Universiti Putra Malaysia		27-29 November 2007

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)

Journal

Scopus

H-index : 6

Citations: 254

Google Scholar

H-index: 10

Citation: 518

1. 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. *Applied Spatial Analysis and Policy*, 9(3), 389-411.
2. Hossain, M. D., & **Nuruddin, A. A.** (2016). Soil and Mangrove: A Review. *Journal of Environmental Science and Technology*, 9(2), 198.
3. Yukili, L., **Nuruddin, A. A.**, Malek, I. A. A., & Razali, S. M. (2016). Analysis of Hotspot Pattern Distribution at Sabah, Malaysia for Forest Fire Management. *Journal of Environmental Science and Technology*, 9(3), 291.
4. 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. *Journal of Spatial Science*, 61(1), 157-172.
5. 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. *Plant Omics*, 9(1), 61.
6. 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.
7. 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.

8. Mande, H. K., Abdullah, A. M., Aris, A. Z., & **Ainuddin, A. N.** (2015). Factors responsible for spatial and temporal variation of soil CO₂ efflux in a 50 year recovering tropical forest, Peninsular Malaysia. *Environmental Earth Sciences*, 73(9), 5559-5569.
9. GO, R., CHING, T., **NURUDDIN, A. A.**, ONGABDULLAH, J., & YONG, N. (2015). Extinction risks and conservation status of Corybas (Orchidaceae; Orchidoideae; Diurideae) in Peninsular Malaysia. *Phytotaxa*, 233(3), 273-280.
10. 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. *Journal of Spatial Science*, 1-16.
11. K.H. Mande, A.M. Abdullah, A.A. Zaharin & **A.N. Ainuddin.** 2014. Drivers of Soil Carbon Dioxide Efflux in a 70 years Mixed Tree Species of Tropical Lowland Forest, Peninsular Malaysia. *Sains Malaysiana*. 43 (12): 1843 – 1853.
12. Hosea Kato Mande, Ahmad Makmom Abdullah, Ahmad Zaharin Aris & **Ahmad Ainuddin Nuruddin.** 2014. Factors Responsible for Spatial and Temporal Variation of Soil CO₂ Efflux in a 50 year recovering tropical forest, Peninsular Malaysia. *Environmental Earth Science*. Vol. 8 (Oct.): 1-28.
13. Hosea Kato Mande, Ahmad Makmom Abdullah, Ahmad Zaharin Aris & **Ahmad Ainuddin Nuruddin.** 2014. A Comparison of Soil CO₂ Efflux Rate in Young Rubber Plantation, Oil Palm Plantation, Recovering and Primary Forest Ecosystems of Malaysia. *Polish Journal Environmental Studies*. Vol. 23 (5): 1649 – 1657.
14. Sheriza Mohd Razali, Arnaldo 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: 8259-8282.
15. **Ahmad Ainuddin Nuruddin** & Ali Muhammad Ali. 2013. Nature Tourism Planning Using River-Based Resources and Recreational Assessment for Sungai Dinding, Perak, Malaysia. *Journal of Social Sciences*. Vol. 9 (4): 127-135.
16. A.M. Syafinie & **A.N. Ainuddin.** 2013. Biomass and Carbon Estimation

of *Eugissona tristis*. *Sains Malaysiana*. Vol. 42 (10): 1461-1466.

17. Imas Sukaesih Sitanggang, Razali Yaakob, Norwati Mustapha & **A.N. Ainuddin**. 2013. Classification Model for Hotspot Occurrences Using Spatial Decision Tree Algorithm. *Journal of Computer Science*. Vol. 9 (2): 244 – 251.
18. I.S. Sitanggang, R. Yaakob, N. Mustapha & **A.N. Ainuddin**. 2013. Predictive Model for Hotspots Occurrence Using Decision Tree Algorithms and Logistic Regression. *Journal of Applied Sciences*. Vol. 13 (2): 252-261.
19. Oh, Y.M., Kim, M., Lee-Cruz, L. Lai-Hoe, A., Go, R., **Ainuddin, N.**, Rahim, R.A., Shukor, N., Adams, J.M. 2012. Distinctive Bacterial Communities in the Rhizosphere of Four Tropical Tree Species. *Microbial Ecology*. Vol. 64 (4): 1018-1027
20. Shahla Hosseini, Rusea Go, Kourosh Dadkhah & **Ahmad Ainuddin Nuruddin**. 2012. Studies on Maturase K Sequences and Systematic Classification of *Bulbophyllum* in Peninsular Malaysia. *Pakistan Journal of Botany*. Vol. 44 (6): 2047-2054.
21. Imas Sukaesih Sitanggang, Razali Yaakob, Norwati Mustapha, **Ainuddin A.N.** 2012. Application of Classification Algorithms in Data Mining for Hotspots Occurrence Prediction in Riau Province Indonesia. *Journal of Theoretical and Applied Information Technology*. Vol. 43 (2): 214-221.
22. Tripathi, B.M., Kim, M., Singh, D., Lee-Cruz, L., Lai-Hoe, A., Ainuddin, A.N., Go, R., Adams, J.M. 2012. Tropical Soil Bacterial Communities in Malaysia: PH Dominates in the Equatorial Tropics Too. *Microbial Ecology*. Vol. 64 (2): 474 – 484.
23. Mahboubeh Ehrahimian, **Ahmad Ainuddin b. Nuruddin**, Mohd Amin b. Mohd Soom, Alias Mohd Sood, Liew Ju Neng. 2012. Runoff Estimation in Steep Slope Watershed with Standard and Slope-Adjusted Curve Number Methods. *Pol. J. Environ. Stud*. Vol. 21 (5): 1191-1202.
24. Sheriza Mohd Razali & **Ahmad Ainuddin Nuruddin**. 2012. A method of mapping forest fuel types in peat swamp forest. *African Journal of Agricultural*. Vol. 7 (1): 1901-1909.
25. V Neto, **N Ahmad Ainuddin**, MY Wong & HL Ting. 2012. Contributions of Forest Biomass and Organic Matter to Above and Belowground Carbon Contents at Ayer Hitam Forest Reserve, Malaysia. *Journal of Tropical Forest Science* 24 (2): 217 – 230.

26. Mincheol Kim, Dharmesh Singh, Ang Lai Hoe, Rusea Go, Raha Abdul Rahim, **Ainuddin A.N.**, Jongsik Chun & Jonathan M. Adam. 2012. Distinctive Phyllosphere Bacterial Communities in Tropical Trees. *Microb Ecol* 63: 674-681.
27. Nur Dina Shazani Mohd. Azam & **Ahmad Ainuddin bin Nuruddin**. 2012. Impact of Vegetations in Urban Green Spaces for Automobile-discharged Particles Removal. *Research Journal of Forestry* 6 (2): 41-48.
28. Ng Yong Jin, Rusea Go, Rosimah Nulit, Khor Hong Eng, Tan Mui Ching, Farah Alia Nordin, **Ahmad Ainuddin Nuruddin** & Lee Nam Sok. 2012. Orchids of Cloud Forest in Genting Highlands, Pahang, Malaysia. *Sains Malaysiana* 41 (5): 505-526.
29. **Ainuddin, N.A**, Shahwahid, M.O and Awang Noor, A.G. 2011. Mapping Issues in Malaysian Wood-Based Industry: A Cognitive Mapping Approach. *Malaysian Forester* 74 (1): 37 – 44.
30. Sheriza, M.R., **Ainuddin, N.A.**, Hazandy, A.H., Helmi Zulhaidi, M.S. 2011. Annual Rainfall Estimation Based on Two Different Methods. *Journal of Environmental Hydrology*, 19: 1 – 9.
31. Yaakob, R., Mustapha, N., **Nuruddin, A.A.B.**, Sitanggang, I.S. 2011. Modeling Forest Fires Risk Using Spatial Decision Tree. *Conference on Data Mining and Optimization*, Art. No. 5976512: 103 – 107.
32. Ruzana Adibah, M.S. & **Ainuddin, A.N.** 2011. Epiphytic plants responses to light and water stress. *Asian Journal of Plant Sciences*, 10 (2), 97 – 107.
33. Adams, J. M., Ahn, S., **Ainuddin, N.**, & Lee, M. -. 2011. A further test of a palaeoecological thermometer: Tropical rainforests have more herbivore damage diversity than temperate forests. *Review of Palaeobotany and Palynology*, 164(1-2), 60-66.
34. Go, R., Eng, K. H., Mustafa, M., Abdullah, J. O., **Nuruddin, A. A.**, Lee, N. S., et al. 2011. An assessment of Orchids' Diversity in Penang Hill, Penang, Malaysia after 115 years. *Biodiversity and Conservation*, 1-10.
35. Ruzana Adibah Mohd Sanusi, **Ainuddin Ahmad Nuruddin** & Hazandy Abdul Hamid. 2011. Leaf Chlorophyll Fluorescence and Gas Exchange Response to Different Light Levels in *Platyserium bifurcatum*. *American Journal of Agricultural and Biological Sciences* 6 (2): 214 – 220.

36. Syaufina, L. and **A.N. Ainuddin** 2011. Impacts of Fire on SouthEast Asia Tropical Forests Biodiverstiy: A Review. Asian Journal of Plant Sciences 10 (4): 238-244
37. Sheriza Mohd Razali and **Ahmad Ainuddin Nuruddin**. 2011. Assessment of Water Content using Remote Sensing Normalized Difference Water Index Preliminary Study. 2011 IEEE International Conference on Space Science and Communication: "Towards Exploring the Equatorial Phenomena", IconSpace 2011 – Proceedings, Art. No. 6015897: 265-268.
38. Imas Sukaesih Sitanggang, Razali Yaakob, Noewati Mustapha, **Ahmad Ainuddin Nuruddin**. 2011. An Extended ID3 Decision Tree Algorithm for Spatial Data. ICSDM 2011 – Proceedings 2011 IEEE International Conference on Spatial Data Mining and Geographical Knowledge Services, Art. No. 5969003: 48-53.
39. Sheriza M. Razali, **A. Ainuddin Nuruddin**, Ismail A. Malek and Norizan A. Patah. 2010. Forest fire hazard rating assessment in peat swamp forest using Landsat thematic mapper image. Journal of Applied Remote Sensing (4), 1-18
40. Jonathan M. Adams, Anthony Brusa, Ahn Soyeong and **A.N. Ainuddin**. **2010**. Present-day testing of a paleocological pattern: Is there really a latitudinal difference in leaf-feeding insect-damage diversity?. Review of Palaeobotany & Palynology. 63-70.
41. **Ainuddin N.A.** and K. Goh. 2010. Effect of Forest Fire on Stand Structure in Raja Musa Peat Swamp Forest Reserve, Selangor, Malaysia. Journal of Environmental Science and Technology. Vol. 3 (1): 56 – 62
42. **Ainuddin N.A.** and D.A. Nur Najwa. 2009. Growth and Physiological Responses of Asplenium nidus to Water Stress. Asian Journal of Plant Sciences 8 (6) : 447 – 450, ISSN 1682 – 3974
43. **Ainuddin N.A.** and J. Ampun. 2008. Temporal Analysis of the Keetch-Byram Drought Index in Malaysia: Implications for Forest Fire Management. Journal of Applied Sciences. Vol. 8 (21): 3991 – 3994
44. **Ahmad Ainuddin Nuruddin** and Dalinsip Pangalin. 2007. Forest fuel Inventory in 5 and 9 Year Old Acacia Mangium Plantations. Journal of Applied Sciences, 7 (12) : 1596 -1601. (Cited in Scopus).
45. Suhaili, A., **Ainuddin, N.A.**, Awang Noor, A.G., Faridah Hanum, I.,

Shafri, H.Z.M. 2007. Application of airborne hyperspectral sensing for tropical forest mapping. 28th Asian Conference on Remote Sensing 2007, ACRS 2007 2, pp: 1222 – 1227.

(Cited in Scopus).

46. Suhaili, A., Chua, K.H.D., Salleh, M., **Ainuddin, N.A.** 2007. Mapping of Planting Progress in Industrial Tree Plantations of Sarawak Using Broad Band Spectral Indices. 28th Asian Conference on Remote Sensing 2007, ACRS 2007 3, pp: 1634-1639.
47. Lailan Syaufina, **Ahmad Ainuddin Nuruddin**, Oemijati Rachmatsyah and Endang Ahmad Husaeni. 2007. Fire Season and Class in Teak Plantations of Central Java, Indonesia. *The Malaysian Forester* 70 (1): 31 – 40.
48. Awang Noor, A.G., Norini, H., Khamurudin, M.N., **Ahmad Ainuddin, N.** and Ismariah, A. 2007. Valuing the Rain Forest: The Economic Values of Selected Forest Goods and Services in Ayer Hitam Forest Reserve, Puchong, Selangor. *Pertanika Journal Tropical Agriculture Science* 30 (2): 141 – 152.
49. Awang Noor, A.G., Norini, H., Khamurudin, M.N., **Ahmad Ainuddin, N.** and Thorsen, B.J. 2007. Economic Valuation of Timber Resources in Ayer Hitam Forest Reserve, Puchong, Selangor. *Pertanika Journal Tropical Agriculture Science* 30 (2) : 83 – 96
50. **Ahmad Ainuddin Nuruddin**, Awang Noor Abdul Ghani, Khamurudin Mohd Nor and Mohd Shahwahid Haji Othman. 2007. Understanding the Direction of Forest Plantation Management in Malaysia: A Cognitive Mapping Approach. *Pertanika Journal of Tropical Agricultural Science* Vol. 30 (2): 165 – 171
51. **Ahmad Ainuddin Nuruddin**, C.N. Hjortso, Norini Haron, Khamurudin Mohd Nor, Awang Nor Abdul Ghani and Ismariah Ahmad. 2007. Introducing Stakeholder Analysis in Malaysian Forestry – The Case of Ayer Hitam Forest Reserve. *Pertanika Journal of Tropical Agricultural Science*. Vol. 30 (2) : 131 – 139
52. **Ahmad Ainuddin Nuruddin**, Hoo Mei Leng & Faridah Basaruddin. 2006. Peat Moisture and Water Level Relationship in a Tropical Peat Swamp Forest. *Journal of Applied Science*, 6 (11): 2517-2519.
53. Iwan Setiawan, A.R. Mahmud, S. Mansor, A.R. Mohamed Shariff & **A.A. Nuruddin**. 2004. GIS-grid-based and multi-criteria analysis for identifying and mapping peat swamp forest fire hazard in Pahang,

	<p>Malaysia. Disaster Prevention and Management 13 (5) : pp. 379-386.</p> <p>54. Ahmad Ainuddin Nuruddin & Mingteh Chang. 1999. Responses of herbaceous mimosa (<i>Mimosa strigillosa</i>), a new reclamation species, to soil pH. Resources, Conservation and Recycling 27 : pp 287-298</p> <p>55. Mingteh Chang, Ahmad A. Nuruddin, Chris M. Crowley & Malcolm D. MacPeak. 1997. Evatranspiration of herbaceous mimosa (<i>Mimosa strigillosa</i>), a new drought-resistant species in the southeastern United States. Resources, Conservation and Recycling 21:pp 175-184. (Cited in Scopus).</p> <p>56. Mingteh Chang, Christopher M. Crowley, Ahmad A. Nuruddin. 1995. Responses of herbaceous mimosa (<i>Mimosa strigillosa</i>), a new reclamation species, to cyclic moisture stress. Resources, Conservation and Recycling 13 : pp 155-165</p>
Proceedings	-
Other publications	<ol style="list-style-type: none"> 1. Musa, D. N. S., & Nuruddin, A. A. (2015). Calorific Value of Leaves of Selected Dipterocarp Trees Species in Piah Forest Reserve, Perak. <i>J. Trop. Resour. Sustain. Sci</i>, 3, 132-134. 2. Abdalmoula, M. M., Alias, M. A., Hamzah, M. Z., & Nuruddin, A. A. (2015). Soil respiration and carbon dynamics under different densities of <i>Shorea peltata</i> Sym. in Tenggaroh Forest Reserve, Malaysia. <i>Journal of the Faculty of Forestry Istanbul University (JFFIU)</i>, 65(2), 17-30. 3. Mande, Kato Hosea, Abdullah, Ahmad. Makmom, Nuruddin, Ahmad Ainuddin., Bose, Mahmud Mohammad., Binyehmed, Fadel Mohamed., Ben Youssef, Khaleed Ali Ahmed & Gabriel Emmanuel. 2014. Forest Recovering and Soil Respiration Rate. <i>IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)</i>. Vol. 8 (12): 44-49. 4. Abdullah Ahmad Makmom, Aris, Ahmad Zaharin, Ainuddin, Ahmad Nuruddin, Binyemed, FadelMohamed, Ben Youssef, Khaleed Ali Ahmed. 2014. Forest Logging and It Impact on Soil Carbon Dioxide Effluxin the Tropical Forest, Peninsular Malaysia. <i>IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)</i>. 8 (12): 69 – 77. 5. Mande, Kato Hosea., Abdullah, Ahmad Makmom., Nuruddin, Ahmad Ainuddin., Bose, Mahmud Mohammad., Binyehmed, Fadel Mohamed., Ben Youssef, Khaleed Ali Ahmed., & Gabriel Emmanuel. 2014. Forest Recovering and Soil Respiration Rate. <i>IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)</i>. 8 (12): 44 –

49.

6. M.R. Sheriza, **N.A. Ainuddin**, A.H.Hazandy, M.S. Helmi Zulhaidi & A.M. Ismail. 2012. Assessment of NDVI Data for Land Cover Classification Using Gamma Methods. International Geoinformatics Research and Development Journal. Vol. 3 (1)
7. Sheriza, M.R. and **Ainuddin, N.A.** 2010. Defining fire issues in Malaysia and Indonesia through recent satellite technology: A review on MODIS fire detection and burned mapping. International Geoinformatics Research and Development Journal. 1(3)
8. **Ahmad Ainuddin Nuruddin** and Chong Wan Sze. 2008. Public Attitudes and Perceptions Toward Forest Fire in Selangor, Malaysia. Research Journal of Agriculture and Biological Sciences. Vol. 4 (6): 819 – 823
9. Woldeyohanes Fantu, **Ahmad Ainuddin Nuruddin**, Faizah Abood Haris and Abdul Rashid Ab Malik. 2008. Thermogravimetric Analysis of Aboveground Biomass Components of Six Fuelwood Species Grown in Ehtiopia. Ethiopian Journal of Natural Resources, 10 (1): 15 - 30
10. Woldeyohanes Fantu, **Ahmad Ainuddin Nuruddin**, Faizah Abood Haris and Abdul Rashid Ab Malik. 2007. Aboveground Biomass Allometric Equations for Selected Plantation-Grown *Eucalyptus species* in Ethiopia. Ethiopian Journal of Natural Resources, 9 (1): 87 – 121.
11. Woldeyohanes Fantu, **Ahmad Ainuddin Nuruddin**, Faizah Abood Haris and Abdul Rashid Ab. Malik. 2007. Fuelwood Properties of Six Tree Species Grown in Ethiopia. Ethiopian Journal of Natural Resources, 9 (1) : 63 – 86
12. **A.A. Nuruddin** and Lili Tokiman. 2005. Air and Soil Temperature Characteristics of Two Sizes Forest Gap in Tropical Forest. Asian Journal of Plant Sciences Vol 4 (2) : 144-148
13. Lailan Syaufina, **Ahmad Ainuddin Nuruddin**, Jamaluddin Basharuddin, Lai Food See & Mohd Rashid Mohd Yusof. 2004. The Effects of Climatic Variations on Peat Swamp Forest Condition and Peat Combustibility. Jurnal Manajemen Hutan Tropika, X (1) : 1 – 14
14. Lailan Syaufina & **Ahmad Ainuddin Nuruddin**. 2000. Forest Fire in Peat Forest: An Overview. Jurnal Manajemen Hutan Tropika. Vol. 6 No. 1 pp: 75-83
15. **Ahmad Ainuddin Nuruddin** & Salleh Awaluddin. 1999. Microclimate of Ayer Hitam Forest, Selangor. Pertanika Journal Tropical Agricultural

	Science Vol 22 (2) : 125-129				
	16. Ainuddin, A.N. , M.H Basri and B. Mahdan. 1997. Effect of fire on seed emergence in the Acacia mangium stand. The Malaysian Forester. Vol 2 (13):175 – 184				
	17. Ahmad Ainuddin Nuruddin and Abdul Wahab Deraman. 1989. Physical Characteristics of 1 1/3 Year Old Acacia Mangium Stand. The Malaysian Forester. Vol. 52 (3):				
<i>Computer software</i>					
H. PROJEK PENYELIDIKAN TERDAHULU (<i>Past Research Project</i>)					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
	Fuel Characteristics and Flammability of Repeated Burnt Peat Swamp Forest (5524320)	Project Leader	May 2013 – April 2015	FRGS	Completed
	Improving Kenaf Fiber Quality by Planting Density and Water Regime (9364000)	Project Leader	1 Nov 2012 – 31 Aug 2014	RUGS	Completed
	Evaluation of MODIS Satellite Based Shortwave Infrared Reflectance in Water Constraint Area (5524108)	Project Leader	2011 – 2013	FRGS	Completed
	Quantification of Urban Trees as an Airborne Particulates Filters (9199606)	Project Leader	2010 - 2012	RUGS	Completed
	Assessment of Urban Forest Carbon Storage Using GIS and Remote Sensing (9199766)	Project Leader	15 Apr 2011 - Oct 2012	RUGS	Completed
	Mass Production of Potential Canopy Species (canopy ranching) for Nutraceutical & Ornamental Plant	Project Leader	2007 – 2009	RUGS	Completed

	Temporal Dynamics of Atmospheric Water in Tropical Montane Cloud Forest	Project Leader	2007 – 2008	RUGS	Completed
	Aboveground Carbon Sequestration in Different Tropical Forest Types	Project Leader	2006 – 2008	E-Science	Completed
	Modelling Moisture Content in Shrubs in Peat Swamp Forest to Predict Fire Risk	Project Leader	2006 – 2008	FRGS	Completed
	Hydrometeorology Characteristics of Tropical Montane Forest	Project Leader	2004 – 2005	World Federation of Scientists	Completed
	Mapping and Assessment of Present and Future Potential Carbon Storage in Malaysian Forest: Soil Carbon, Woody Debris and Vegetation	Co-Researcher	2009 – 2012	RUGS	Completed
	Estimation of Net Primary Productivity of Forest Stands in Negeri Sembilan from Landsat and MODIS Satellite Data	Co-Researcher	2009 – 2011	RUGS	Completed
	Scientific Decision support for Policy Making (Principal Investigator, Dr. Noroni Harun)	Co-Researcher	2006 – 2009	FRIM RMK9 Development Fund	Completed
	Identification of Defect Pattern in Selected Urban Trees Species (Principal Investigator, Tuan Haji Amat Ramsa Yaman)	Co-Researcher	2006 – 2008	Science Fund (MOSTI)	Completed
	Development of	Co-	2003		Completed

	Indicators for Assessing susceptibility of degraded peatland areas to forest fires in Peninsular Malaysia (Principal Investigator, Dr.Shamsuddin Ibrahim)	Researcher	– 2006	MOSTI - IRPA	ed
	Malaysia-Denmark Twinning – Multipurpose Forestry in a Changing Society Component 3 : Scientific Decision Support for Policy Making	Co-Researcher	2003 – 2006	DANIDA	Completed
	Application of Airborne Hyperspectral Remote Sensing for Discrimination and Mapping of Tropical Forest Canopy		2005 – 2007	Sarawak State Government	Completed
	Aboveground Biomass Allometric Equations & Fuelwood Properties of Six Species Grown in Ethiopia	Co-Researcher	2003 – 2005	Government of Ethiopia	Completed
	Development of Forest Fire Management for Peat Swamp Forest	Co-Researcher	1999 – 2002	MOSTE-IRPA	Completed
	Bancian Pokok Bersaiz 10cm PPD ke Atas dan Kuantifikasi Stok Karbon Serta Nilai Ekonominya di Dalam Empat (4)	Project leader	14 May 2012 – 14 Okt 2012	Forestry Department Peninsular Malaysia (FDPM)	Completed

	Hektar di Hutan Simpan Piah, Kuala Kangsar				
	Scoping Exercise for Developing a Payment for Ecosystems Services (PES) Mechanism in Malaysia	Co-Researcher	Feb 2012 – July 2012	Economic Planning Unit, Prime Minister's Department Malaysia	Completed
	Kajian Kuantifikasi & Penilaian Ekonomi Stok Karbon dalam Dua (2) Hektar di Hutan Simpan Piah, Kuala Kangsar – Leader	Project leader	2011	Forestry Department Peninsular Malaysia (FDPM)	Completed
	Kajian strategi perniagaan, pemasaran dan pelaksanaan bagi pembangunan industri kenaf dalam kawasan wilayah ekonomi pantai timur (ECER)		Feb 2010 - June 2010	Malayan Industry-Government Group for High Technology (MiGHT)	Completed
	Hutan Paya Laut Matang		Jan 2009 – Jan 2010	Perak State Forestry Department	Completed
	Kajian Penglibatan Bumiputra dalam Sektor Berasaskan Kayu		Sept – Nov 2009	Malaysian Timber Industry Board (MTIB)	Completed

	Penilaian Impak Alam Sekitar Peringkat Makro bagi Aktiviti Pengurusan Hutan dalam Hutan Simpan Kekal di Negeri Pahang		2007 (8 months)	Pahang State Forestry Department	Completed
	Environmental Impact Assessment on The Proposed Forest Operation in Terengganu		1 Mac 2007 – 30 Nov 2007	Terengganu State Forestry Department	Completed
	Projek Penyediaan Laporan EIA (Makro)		2006	Kelantan State Forestry Department	Completed
	Development of Multimedia Presentation titled "ATIS : APAFRI – TREELINK Information System"		2000	Asia Pasific Association of Forest Research Institution	Completed
	Evaluation of Course Concert Editor, Online Multimedia Course Authoring Software		2000	Asia Pasific Association of Forest Research Institution	Completed
	Management Plan for Taman Negara (Pahang)		1999 – 2000	Department of Protection of Wildlife	Completed
	Management Plan for Taman Negara (Terengganu)		1999 – 2000	Department of Protection of Wildlife	Completed

	Management Plan for Taman Negara (Kelantan)		1999 – 2000	Department of Protection of Wildlife	Completed
	Feasibility study on Forest Conversion to Oil Palm Plantation in South Kalimantan, Indonesia		1998	IFD Consultancy Services	Completed

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