
Curriculum Vitae

Name: Prof. Dr. Razak Wahab

List of Research:

Internal Grant

1. The Characterizations and their Effects on the Durability of Cultivated 10 and 15-year-old Teak (*Tectona grandis*) via the Heat Treatment Process.
UCTS/RESEARCH/2/2020)
2. Bamboo and gypsum boards for sound absorption application.
UCTS/RESEARCH/2/2018/03
3. Evaluation of 4 composites from wood waste of planted timber species for peat substitution in nursery utilization. UCTS/RESEARCH/2/2018/04
4. Wood plastic laminates from cultivated *Acacia mangium* veneers and thermoplastic starch sheet with nanocellulose fibril filler.
UCTS/RESEARCH/2/2018/01
5. Thermoplastic wood composite from agriculture residues of kenaf bast, *Cassava bagasse* and *Thermeda arguens*.
UCTS/RESEARCH/4/2017/01

List of Publications:

1. Properties of the Oil Heat-Treated 10 & 15 years-old cultivated *tectona grandis*. N Mokhtar, T Edin, R Wahab, RSM Ghani, MS Sulaiman, MH Razak. 2021. *New Visions in Science and Technology* 1, 64-84

2. Processing and Properties of Oil Palm Fronds Composite Boards from *Elaeis guineensis*. R Wahab, MSM Rasat, MSS N.M. Fauzi, HW Samsi, RSMG N. Mokhtar. 2021. *Elaeis guineensis*, 32 pages
3. Quality Eco-Composite Boards from Oil Palm Agro-Waste of Empty Fruit Bunches. R Wahab, MS Sulaiman, HW Samsi, RSM Ghani, T Edin, N Mokhtar (2021). *Cutting-edge Research in Agriculture Sciences* 9, 134-147
4. Description of an Anatomical Structure and Changes of Microstructure through the Grave Yard Test on Treated and Untreated Three-Year-Old *Gigantochloa scortechinii* via Electron.
MS Sulaiman, R Wahab, MH Razak, N Mokhtar, T Edin, RSM Ghani. 2021. *Current Approaches in Science and Technology Research*. 11, 82-96
5. Effectiveness of Heat Treatment Process on Cultivated Teak (*Tectona grandis*). 2021, MS Sulaiman, R Wahab, T Edin, N Mokhtar
Borneo Journal of Sciences and Technology 3 (2)
6. Characterization of Oil Palm Fronds Panel at Different Conditions and Positions with Formaldehyde Adhesive
R Wahab, MS Mat Rasat, MS Sulaiman, M Haziq Razak, N Mokhtar. 2021. *Borneo Journal of Science & Technology* 3 (1), 65-75
7. Monitoring Changes in the Colour, Strength and Chemical Properties of Oil Heat Treated 18-Years Old Cultivated *Acacia mangium*.
R Wahab, T Edin, N Mokhtar, MS Sulaiman, RSM Ghani, MH Razak. 2020. *Recent Research Advances in Biology*. 4, 48-69
8. Studies on Improvement in Durability of Oil Heat Treated 16-Year-Old *Acacia mangium* in Laboratory Tests.
R Wahab, RSM Ghani, MS Sulaiman, T Edin, N Mokhtar, MH Razak. 2020. *Cutting-edge Research in Agricultural Sciences*. 5, 92-106

9. Enhancing Mechanical Properties of *Rhizophora apiculata* through Engineered Lamination Boards
R Wahab, NM Fauzi, N Mokhtar, MS Sulaiman, RSM Ghani, T Edin. 2020. *Journal of Agriculture and Forestry* 66 (3), 53-64
10. Performance in Accelerated Laboratory Tests of Oil Heat Treated 16-Year-Old *Acacia mangium*
R Wahab, INS Mazalan, HW Samsi, MS Sulaiman, RSM Ghani, N Mokhtar. 2020. ISBN: 978-81-944664-0-6, Prime Archives in Agricultural Research Vide Leaf.
11. The Scrutinizes of Anatomical Structure Using Fiber Runkle's Ratio and Scanning Electron Microscopy on Matured *Gigantochloa levis* and *G. scortechinii*
R Wahab, MT Mustafa, MS Sulaiman, T Edin, N Mokhtar. 2020. *Haya: The Saudi Journal of Life Sciences* 5 (2), 9-17
12. Anatomical Properties of Cultivated 3-Year-Old Bamboo *Gigantochloa levis* and *G. scortechinii*
R Wahab, MS Sulaiman, MT Mustafa, N Mokhtar, T Edin. 2020. *Scholars Academic Journal of Biosciences* 8 (2), 30-38
13. The Effectiveness of Oil-Heat Treatment in the Main Chemical Constituents of Planted 15-year-old *Acacia mangium*.
R Wahab, MS Sulaiman, HW Samsi, RSM Ghani, N Mokhtar. 2020. *Asian Journal of Science and Technology* 11 (1), 10692-10699
14. *Rhizophora apiculata*: Comparative Properties Between Solid and Engineered laminated Boards
N Mokhtar, R Wahab, MS Sulaiman, RSM Ghani, T Edin. 2020. *Borneo Journal of Sciences and Technology* 2 (1), 7 pages
15. Analytical Chemistry of *Bambusa vulgaris* and *Schizostachyum brachycladum* on 2- and 4-Years Old with Transmission Electron Microscopy.
MS Sulaiman, R Wahab, RSM Ghani, N Mokhtar, SFM Ramle, S Kahar, 2019. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 10 (5 ...

16. Properties of Altered Matured *Bambusa vulgaris* via Heat Treatment Process. R Wahab, HW Samsi, MS Sulaiman, RSM Ghani, N Mokhtar. 2019. Research Journal of Pharmaceutical, Biological and Chemical Sciences. 10 (4 ...
17. An Overview Of Rattan Industry Status And Its Economic Aspect In Setting Up Rattan-Based Industry In Malaysia. Wahab, N Mokhtar, RSM Ghani, MS Sulaiman. 2019. eBangi Journal of Social Science and Humanities 16 (3), 10
18. Contamination profile of heavy metals in marine fish and shellfish
MA Salam, SC Paul, NBM Noor, SASTD Aka, R Wahab, ER Aweng. 2019. Global Journal of Environmental Science and Management (GJESM) 5 (2), 12
19. Study on the microstructure properties of a tropical bamboo species by scanning electron and transmission electron microscopes
R Wahab, MS Sulaiman, RSM Ghani, N Mokhtar, MT Mustafa. 2019. AIP Conference Proceedings 2068, 11 pages
20. Macroscopic and Microscopic Characteristics of 2 - and 4 - Year - Old *Schizostachyum brachycladum*. MS Sulaiman, R Wahab, SFM Ramle, N Mokhtar, RSM Ghani. 2019. Borneo Journal of Science and Technology 1 (1), 621-69
21. Properties of Composite Boards Properties from *Elaeis guineensis* Empty Fruit Bunch. R Wahab, MS Sulaiman, RSM Ghani, N Mokhtar, SMM Don, HW Samsi. 2019. Borneo Journal of Science and Technology 1 (1), 53-61
22. Enhancing the Development of Engineered Wood Products in Sarawak. R Wahab. 2019. Borneo Journal of Science and Technology 1 (1), 01-02
23. Physical and Mechanical Properties of Cassava-Bamboo Composite Lumber. RSM Ghani, R Wahab, NMC Musthafa, N Mokhtar, MS Sulaiman, MD Lee. 2018. Journal of Engineering and Science Research 2 (6), 6-9

24. Comparison of Properties between Solid and Laminated Mahang Wood
RSM Ghani, R Wahab, SNB Azmi, KM Wi, N Mokhtar, MS Sulaiman. 2018.
Advanced Journal of Technical and Vocational Education 2 (2), 24-28
25. Changes in Strength Characteristics and Durability on 4-year-old Tropical
Bamboo Gigantochloa scortechinii through Heat Treatment.
R Wahab, N Mokahtar, RSM Ghani, MS Sulaiman, HW Samsi. 2018.
Asian Journal of Science and Technology 9 (5), 8227-8233
26. Relationship Between Chemical Compositions And Anatomical Structure
On The Maturity Of 4-Year-Old Culms Schizostachyum Brachycladum
Kurz. MS Sulaiman, R Wahab, SF Mhd. Ramle, RS Mohd Ghani, N
Mokhtar. 2018. INTERNATIONAL JOURNAL OF CURRENT RESEARCH
10 (5), 69776-69775
27. Properties Of Hibiscus Cannabinus And Elaeis Guineensis Frond Fibers
Eco-Composite Boards
R Wahab, MS Sulaiman, N Mokhtar, RS Mohd Ghani, HW Samsi, M Yusuf.
2018. INTERNATIONAL JOURNAL OF CURRENT RESEARCH 10 (5),
69770-69775
28. The Effects of Anatomy and Physical Properties on the Strength of
Cultivated Four-Year-Old Bambusa Vulgaris
R Wahab, MT Mustafa, N Fauzi, RSM Ghani, MS Sulaiman, N Mokhtar, ...
2018. International Journal of Current Research 10 (2), 65439-65448
29. Properties of epoxy-hybrid composite using bamboo fiber and Salacca
zalacca fruit skin powder.
KS Yvonne, Y Mahani, R Wahab, MR Sofiyah, MH Razali. 2018.
Material Today: Proceeding 5, 21759-21764
30. Thermal Degradation Analysis on 4-year-old Culms of Cultivated Tropical
Bamboo Bambusa Vulgaris
MT Mustafa, R Wahab, N Fauzi, HW Samsi. 2017.
Journal of Agricultural Studies 5 (3), 50-61

31. Properties of Empty Fruit Bunches Sco-Composite Boards from *Elaeis guineensis*
R. Wahab, M. Tamizi Mustaf, M. Sukhairi Mat Rasat, Siti Marlia Mohd Don.
2017.
Journal of Agricultural Studies 5 (3), 1-14
32. Assessing the suitability of Agro-Waste from Oil Palm Empty Fruit Bunches as Quality Eco-Composite Boards
R. Wahab, Mohd Sukhairi Mat Rasat, Hashim W. Samsi, Mohd Tamizi Mustafa ... 2017.
Journal of Agricultural Science 9 (8), 237-247
33. Physical, Mechanical and Thermal Properties of Empty Frut Bunches Composite Boards.R. Wahab, Mohd Tamizi Mustafa, Mohd Sukhairi Mat Rasat, Siti Marlia Mohd Don.2017.*International Journal of Current Research* 9 (6), 52942-52948
34. Color, Chemical and Strength Properties of Oil Heat-Treated Acacia Wood.R Wahab, MSM Rasat, HW Samsi. 2017.
Book published by Lambert Academic Publishing, 76
35. COLOUR, STRENGTH AND CHEMICAL ALTERATION OF ACACIA MANGIUM WOOD TREATED IN OIL HEAT TREATMENT
R. Wahab, R.S.M Ghani, H. W .Samsi, M.S.M. Rasat. 2017.
Canadian Journal of Pure and Applied Sciences 11 (2), 4169-4181
36. Improvement in Durability of Oil Heat Treated 16-Year-Old Acacia mangium in Laboratory TestsR. Wahab, I. N. S. Ahmad Mazalan, M. T. Mustafa, A. R. Mojiol, M. S. Rasat. 2017.
Journal of Agricultural Science 9 (6), 251-259
37. Changes in Colour, Strength and Chemical Properties of Oil Heat Treated 18-Years Old Planted Acacia mangium
R Wahab, RSM Ghani, HW Samsi, MSM Rasat. 2017.
International Journal of Biology 9 (3), 12-24

39. CHEMICAL COMPOSITION OF SMALL DIAMETER WILD ACACIA MANGIUM SPECIES MHM Amini, MSM Rasat, M Mohamed, R Wahab, NH Ramle, I Khalid, ... 2017. ARPN Journal of Engineering and Applied Sciences 12 (8), 2698-2702
40. Thermal Degradation Analysis on 4-year-old Culms of Cultivated Tropical Bamboo Bambusa Vulgaris R Wahab, MT Mustafa, NA Fauzi, HW Hashim. 2017. Journal of Agricultural Studies
41. COMPOSITE BOARDS FROM AGRO WASTE RESIDUE OF GRASS AND BAMBOOR Wahab, N Fauzi, HW Samsi, AM Fikri. 2017. Asian Journal of Science and Technology 8 (10), 6073-6079
- 42.. Changes in The Features of Oil Heat Treated 18-Years Old Acacia Mangium R. Wahab, Ros Syazmini Mohd Ghani, Mohd Sukhairi Mat Rasat, Hashim W. Samsi, 2017.
Research Journal of Pharmaceutical, Biological and Chemical Sciences 8 (2 ...

List of Awards:

1. **National Book Award (category R & D) (2017).**
Rattan: Propagation, Properties & Utilization. R. Wahab, Othman Sulaiman, M.T. Mustafa, Samsuriana Sidek & M.S.M. Rasat (2016). 269 pp. ISBN 978-967-0955-30-8. UMK Publication.