Curriculum Vitae- Mohammad Asim Khan

Mohammad Asim Khan

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EDUCATIONAL PROFILE

PhD	2017	**BioComposite Technology**	"Development and characterization of kenaf/pineapple leaf fibre reinforced phenolic hybrid composites" Biocomposite Technology and Design, Universiti Putra Malaysia, Malaysia
M.Sc.	2013	**Wood Science & Technology**	Forest Research Institute, Dehradun, India
B.Sc.	2011	**Forestry**	CSA University of Agriculture and Technology Kanpur, UP-India.

RESEARCH INTEREST

- Lignocellulosic composite materials, usage of different type of wood and agricultural waste on research level of Materials Sciences.
- Improve the quality of composites through hybridization of different wood and natural fibres.
- Composite characterization: thermal, mechanical and physical qualities of composite materials.

PROFESSIONAL PROJECT

- **"Nano-Clay Enhanced pineapple leaf Fibres Reinforced Phenolic Hybrid Bio-Composites for aircraft cabin component"** with K. Abdan, Department of Biological and Agricultural Engineering, Faculty of Engineering, Universiti Putra Malaysia, 43400 Serdang, Selangor, Malaysia.
- **"Non-Destructive techniques for defect detection in timber/tree"** under Guidance of Dr. Y.M. Dubey, Scientist-c, Timber mechanics discipline, forest product Division, FRI University, Dehradun.
- **"Use of Non-Destructive test method for quality assessment of timber"** under the guidance of Dr. Y.M. Dubey, Scientist-c, Timber mechanics discipline, forest product Division, FRI University, Dehradun.
- **"Study of Sound Absorption Co-efficient of Different Wood Species on Different Moisture Level"** under the guidance of Dr. Y.M. Dubey, Scientist-c, Timber mechanics discipline, forest product Division, FRI University, Dehradun.

GRANTS

- The project received "Putra Gran" funding from Malaysian government (RM 15000)

WORK EXPERENCE

- Worked as post-Doctoral researcher from 2018- till now, assisted master students and PhD scholars in research projects.
- Worked as research assistant from 2014-2017, assisted undergrad student in their

research projects.

- One-month work experience on the topic "Production of Wooden Materials & Antique Products" In Sun Art Exporters Jodhpur.

RECOGNITION

JOURNAL PUBLICATIONS

2018

1. RM Shahroze, MR Ishak, MS Salit, Z Leman, **M Asim**, M ChandrasekarEffect of Organo-Modified Nanoclay on the Mechanical Properties of Sugar Palm Fiber-reinforced Polyester Composites, BioResources 13 (4), 7430-7444
2. Mohamed Hamdy Gheith, Mohamed Abdel Aziz, Waheedullah Ghori, Naheed Saba, **Mohammad Asim**, Mohammad Jawaid, Othman Y. Alothman, Flexural, thermal and dynamic mechanical properties of date palm fibres reinforced epoxy composites, Journal of materials research and technology, https://doi.org/10.1016/j.jmrt.2018.06.013
3. **M. Asim**, M.T. Paridah, N. Saba, M. Jawaida, Othman Y. Alothman, M. Nasirc, Z. Almutairi. Thermal, physical properties and flammability of silane treated kenaf/pineapple leaf fibres phenolic hybrid composites. **Composite Structure**, https://doi.org/10.1016/j.compstruct.2018.06.068
4. **Mohd. Asim**, Naheed Saba, Mohammad Jawaid, Mohammad Nasir, M. Pervaiz and Othman Y. Alothman, A review on Phenolic resin and its Composites, **Current analytical Chemistry**. DOI: 10.2174/1573411013666171003154410
5. **M. Asim,** M. Jawaid, K. Abdan and M. R. Ishak. The effect of silane treated fibre loading on mechanical properties of pineapple leaf/kenaf fibre filler phenolic composites, **Journal of Polymer and The Environment.** DOI 10.1007/s10924-0171060-z
6. **M Asim**, M Jawaid, K Abdan, MR Ishak, OY Alothman, Effect of Hybridization on the Mechanical Properties of Pineapple Leaf Fiber/Kenaf Phenolic Hybrid Composites, Journal of Renewable Materials 6 (1), 38-46
7. Ramengmawii Siakeng, Mohammad Jawaid, Hidayah Ariffin, SM Sapuan, **Mohammad Asim**, Naheed Saba. Natural fiber reinforced polylactic acid composites: A review,(2018) **Polymer Composites**, DOI 10.1002/pc.24747

2017

8. **M. Asim,** M. Jawaid, K. Abdan and M. R. Ishak**.** Effect of PALF and Kenaf Fibre Treatment on Mechanical Performance of Phenolic Hybrid Composites. **fibers and polymers**, 18 (2017) 940-947
9. **M. Asim**, M. Jawaid , M. Nasir, N. Saba. Effect of fibre loading and treatment on Dynamic Mechanical, thermal degradation and flammability of pineapple leaf and kenaf Phenolic composites, **Journal of renewable materials**,2017, DOI: https://doi.org/10.7569/JRM.2017.634162
10. Zahra Dashtizadeh1, K. Abdan, M. Jawaid, **Mohd Asim Khan**, Mohammad Behmanesh, Masoud Dashtizadeh, Francisco Cardonaand Ishak M., Mechanical and Thermal Properties of Natural Fibre Based Hybrid Composites: A Review, **Pertanika J.Sci. & Technol**. 25 (4):1103– 1122, 2017.
11. Mohammed Nasir, RokiahHashim, Othman Sulaiman, Arun Gupta, Tanveer Ahmed Khan, Mohammad Jawaid and **Mohd Asim**, Natural Fiber Improvement by Laccase; Optimization, Characterization and Application in Medium Density Fiberboard, **Journal of Natural Fibers**. DOI: http://dx.doi.org/10.1080/15440478.2016.1212759
12. Md Enamul Hoque, Arsalan Maroof Khan, Md Saiful Islam, **Mohammad Asim**, Naheed Saba, Mohammad Jawaid, Othman Y Alothman,The Effect Of Natural Degradation On The Mechanical And Morphological Properties Of Tropical Woods, **Cellulose Chemistry and Technology**, January 2017
13. **M. Asim,** M. Jawaid, K. Abdanand M. R. Ishak. Effect of Alkali and Silane

Treatments on Mechanical and Fibre-matrix Bond Strength of Kenaf and Pineapple Leaf Fibres, **Journal of Bionic Engineering,**13 (2016) 426–435.

14. Zahra Dashtizadeh, K. Abdan, M. Jawaid, **Mohd Asim Khan**, Mohammad Behmanesh, Masoud Dashtizadeh, Cardona Francisco and M. Ishak. Effect of Chemical Treatment on Kenaf Single Fiber and Bio-Phenolic Resin Regarding its Tensile and Interfacial Shear Stress. **Middle-East Journal of Scientific Research** 24 (9): 2685-2692, 2016, ISSN 1990-9233.
15. **M. Asim**, Khalina Abdan, M. Jawaid M. Nasir, Zahra Dashtizadeh, M. R. Ishak and M. Enamul Hoque, A Review on Pineapple Leaves Fibre and Its Composites, **International Journal of Polymer Science**, (2015).
16. Mohammed Nasir, RokiahHashim, Othman Sulaiman, Noor AfeefahNordin, JunidahLamaming, and **Mohd Asim**. Laccase, an Emerging Tool to Fabricate Green Composites: A Review, **BioResources** 10(3).
17. Mohammed Nasir, Othman Sulaiman, RokiahHashim, Kaizar Hossain, Arun Gupta and **Mohd Asim**. Rubberwood Fiber Treatment by Laccase Enzyme and Its Application in Medium Density Fiber board, **Journal of pure and applied microbiology**, Sept. 2015. Vol. 9(3), p. 2095-2100
18. Mohammed Nasir, Othman Sulaiman, RokiahHashim, Noor AfeefahNordin and **Mohd Asim.** Improved Physical and Chemical Properties of Rubber Wood (*Heveabrasiliensis*) Fiber by Laccase, **Asian Journal of Agricultural Research**, 2015ISSN 1819-1894 / DOI: 10.3923/ajar. 2015.
19. **Mohammad Asim**, Sangeeta Gupta, Mohammad Jawaid, Mohammed Nasir and Khalid R. Hakeem. Intraspecific variation of the wood anatomical features in lagerstroemia speciosa (l.) pers. **The Malaysian forester** 77 (2): 137-144 (2014)137.
20. Mohammed Nasir, Arun Gupta, Mohammad Dalour Hossen Beg, GekKee Chua and **Mohd Asim**, Laccase application in medium density fibreboardto prepare a biocomposite. **RSC Adv**., 2014, 4, 11520.

BOOK

1. Pineapple Leaf Fibers: Processing, Properties and Applications (2019), Springer Nature Singapore Pvt. Ltd.(Accepted)

BOOK CHAPTERS

1. **M. Asim,** M. Jawaid, N. Saba, Ramengmawii, M. Nasir, Processing of hybrid polymer composites -A Review, In- hybrid polymer composite material: Processing, **Elsevier-UK,** 2017, pp. 1-22. DOI: 10.1016/B978-0-08-100789- 1.00001-0
2. **M. Asim,** N. Saba, M. Jawaid, and M. Nasir, Potential of Natural fibre/biomass filler reinforced polymer composites in aerospace applications, In- Sustainable Composites for Aerospace Applications, **Elsevier-UK** https://doi.org/10.1016/B978-0-08-102131-6.00012-8
3. N. Saba, M. Jawaid and **M. Asim,** Recent Advances in Nanoclay/Natural Fibers Hybrid Composites. In-Nanoclay Reinforced Polymer Composites, ed: **Springer**, 2016, pp. 1-28. DOI: 10.1007/978-981-10-0950-1_1
4. Mohammed Nasir, Rokiah Hashim, Othman Sulaiman and **Mohd Asim,** Cellulose Nanocrystals: Preparation Methods and Applications, In- Cellulose-reinforced Nanofibre Composites: Production, Properties and Applications, **Elsevier-UK,** pp. 261-276. DOI: 10.1016/B978-0-08-100957-4.00011-5
5. N. Saba, M. Jawaid and **M. Asim**, Nanocomposites with nanofibers and fillers from renewable resources, In- Green Composites for Automotive Applications, 2019, Pages 145-170, https://doi.org/10.1016/B978-0-08-102177-4.00007-0

CONFERENCE PAPER

1- **M. Asim**, M. Jawaid, K. Abdan and M. R. Ishak, Dimensional stability of pineapple

leaf fibre reinforced phenolic composites in "3rd Advanced Materials Conference" in Langkawi, Malaysia. AIP Conference Proceedings 1901, 030016 (2017); https://doi.org/10.1063/1.5010481

2- **M Asim**, K Abdan, M. Jawaid and M Nasir, Effect of Alkali treatments on physical and Mechanical strength of Pineapple leaf fibres, in "International Conference on Advances in Manufacturing and Materials Engineering 2017". Kuala Lumpur, Malaysia. IOP Conf. Series: Materials Science and Engineering 290 (2018) 012030 doi:10.1088/1757-899X/290/1/012030

3- **M Asim**, M. Jawaid, N. Sabaand M Nasir, Physical and flammability properties of kenaf and pineapple leaf fibre hybrid composites (Wobic conference, UPM, Malaysia) IOP Conf. Series: Materials Science and Engineering 368 (2018) 012018 doi:10.1088/1757-899X/368/1/012018

4- W. Ghori, N. Saba, M. Jawaidand **M. Asim**, A review on date palm fiber and its polymer composites (Wobic conference, UPM, Malaysia) IOP Conf. Series: Materials Science and Engineering 368 (2018) 012009 doi:10.1088/1757-899X/368/1/01200

UNDER REVIEW

1. **M. Asim**, M. Jawaid, Paridah M. Tahir, N. Saba, M. Nasir, Dynamic and Thermo-mechanical Properties of Hybridized Kenaf/PALF Reinforced Phenolic Composites**, polymer composite**
2. M. Nasir, D. P. Khali, M. Jawaid, P. M Tahir, R. Siakeng, **M. Asim** and T. A. Khan, Recent development in binderless fiber-board fabrication from agricultural residues: a review, **construction and building material**s
3. **M. Asim**, P. M.Tahir, R. M. Shahroze, Chandrasekar , M. Jawaid, M. Nasir, R. Siakeng, A review on Thermogravimatric Analysis of natural fibres and its polymer composites, **Polymer degradation and stability.**
4. Fatimah Atiyah Sabaruddin, Paridah Md Tahir and Lee Seng Hua, **Mohd Asim** Incorporation of Nanocellulose with Different Lignin Content and its Effects on the Thermal and Dynamic Mechanical Properties of Kenaf/ Polypropylene Composites, **Nanomaterials**
5. **M. Asim**, M. T. Paridah, M. Jawaid, M. Nasir, R. Siakeng, Effect of nanoclay on tensile and flexural properties of pineapple leaf fibre reinforced phenolic hybrid composites, **International Journal of Engineering & Technology.**
6. R. M. Shahroze, M. R. Ishak, **M. Asim**, M. Chandrasekar, M. T. Paridah, M. Jawaid, Water absorption and thickness swelling properties of silica aerogel infused sugar palm fiber/polyester composites, **International Journal of Engineering & Technology.**
7. Norwahyuni Mohd Yusof, Paridah Md Tahir, **Mohd Asim**, Lee Seng Hua and Redzuan Mohammad Suffian James Mechanical and physical properties of Cross Laminated Timber (CLT) made from Acacia mangium wood as affected by adhesive types, **Journal of Wood Science**.
8. Norwahyuni Mohd Yusof, Paridah Md Tahir, **Mohd Asim**, Lee Seng Hua and Redzuan Mohammad Suffian James, Effect of adhesive types on thermal and dynamic mechanical analysis of Cross Laminated Timber\
9. M. K. Marichelvam and Mohammad Jawaid, **M. Asim**, Physical, mechanical, thermal and bio-degradability properties of Corn and Rice Starch Based bio-packaging plastic/film, **Fibres**
10. R. M. Shahroze, M. R. Ishak, M. S. Salit, Z. Leman, M. Chandrasekar, Nur S. Z. Munawar and **M Asim**, Sugar palm fibre/polyester nanocomposites: Influence of adding nanoclay fillers on thermal, dynamic-mechanical and physical properties. **Construction and building materials**.
11. R. M. Shahroze, M. R. Ishak, S. M. Sapuan, Z. Leman, M. Chandrasekar and **M.**

Asim, Dynamic mechanical and thermal degradation characterization of silica aerogel infused sugar palm fiber reinforced polyester composites, **polymer engineering and science**

CO-CURRICULAR ACTIVIES

- Represented India and Won second prize in International Dance Competition, Malaysia (2014).
- Actively participated in *Sports Carnival* at FRI University Dehradun (India) and won many prizes (2013).
- Participated in *Cultural Program* at FRI University Dehradun (2011-2013).
- Participated in *All India cultural* festival in Karnataka (2008-2009).
- NCC certificate **"C**" certificate with **"B**" Grade

REFERENCES

1. **Prof. Dr. Paridah Md Tahir**
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   Institute of Tropical Forestry and Forest Products (INTROP),
   Universiti Putra Malaysia,
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DECLARATION

I do hereby declare that the information furnished in this form is true to the best of my knowledge and belief. If, at any stage, if they are found misleading or untrue, my candidature or appointment to the post may be rejected/cancelled.

Date: 28th January 2019
Place: Kuala Lumpur

Signature of Candidate