

Ching Hao LEE

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EDUCATION

The University of Sheffield, UK and Universiti Putra Malaysia, Malaysia	2013-2017
PhD in Mechanical Engineering	
Universiti Putra Malaysia, Malaysia	2008-2012
BA in Mechanical Engineering	(1 st Class Honors)

RESEARCH EXPERIENCE

Postdoctoral Researcher

Post-graduate students guidance

Grant applications

Lectures to students

Journal paper writing

Initials creative research

Oversea research communicates

APR 2018-PRESENT

JOURNAL PUBLICATIONS

1. R. S. Ayu, A. Khalina, A. S. Harmaen, K. Zaman, M. Jawaid, **C. H. Lee**, Effect of modified tapioca starch on mechanical, thermal and morphological properties of PBS blends for food packaging, **Accepted under Polymers**.
2. Zahra Dashtizadeh, Abdan Khalina, Francisco Cardona, **Ching Hao Lee**, Mechanical characteristics of green composites of kenaf bast short fiber reinforced cardanol, **Accepted under Advances in Materials Science and Engineering**.
3. Zahra Dashtizadeh, Abdan Khalina, **Ching Hao Lee**, Effect of Alkali treatment on Mechanical Properties of kenaf short bast fiber reinforced cardanol composites, **Under Review**.
4. **ChingHao Lee**, Abdan Khalina, Effect of Short Fibers Reinforcement in Syntactic Foam: A Review, **Under Review**.
5. Zahra Dashtizadeh, Abdan Khalina, Francisco Cardona, **Ching Hao Lee**, Cardanol Curing Parameters and Properties, **Under Review**.
6. Chai Hua T, Norkhairunnisa. M, Sultan MTH, Khalina A, **Lee CH**, Dynamic mechanical analysis of glass/kenaf hybrid epoxy nanocomposites, **Under Review**.
7. Chai Hua T, Norkhairunnisa. M, Sultan MTH, Khalina A, **Lee CH**, Investigation on The Flexural Behavior of Glass/Kenaf Hybrid Epoxy Nanocomposite, **Under Review**.

8. M R M Hafiezal, A Khalina, Z A Zurina, M D Azaman, Z M Hanafee and **C H Lee**, Thermal, Chemical and Flammability Characteristics of Blended Jatropha Bio-Epoxy as Matrix in a Carbon Fibre Reinforced Polymer, **Under Review**.
9. M. Samadi, Z. A. Zurina, A. Khalina, **C. H. Lee**, Optimum Subcritical Water Extraction Parameters and Characterization of Aquilaria Malaccensis Essential Wood Oil, **Under Review**.
10. M. Samadi, Z. A. Zurina, A. Khalina, **C. H. Lee**, Optimum Subcritical Water Extraction Parameters and Characterization of Aquilaria Malaccensis Essential Leave Oil, **Under Review**.
11. Aisyah H.A., Paridah M.T., Khalina A., Sapuan M.S and Wahab M.S, **Lee C.H.**, Effect of Fabric Material on the Properties of Hybrid Fabric Kenaf-Carbon Reinforced Laminated Epoxy Composites, **Under Review**.
12. Aisyah H. A, Paridah M.T., Khalina A, Sapuan S.M., Wahab M.S, Berkalp O.B. and **Lee C.H.**, A Review on Natural Fibre Woven Fabric Polymer Composites and Factors Affecting Their Properties, **Under Review**.
13. **C. H. Lee**, S. M. Sapuan and M. R. Hassan, Thermal analysis of kenaf fibers reinforced floreon biocomposites with magnesium hydroxide flame retardant filler, *Polymer Composites*, 39, 869-875, **2018**, DOI:10.1002/pc.24010.
14. **C. H. Lee**, S. M. Sapuan, M. R. Hassan, Mechanical and Thermal Properties of Kenaf Fiber Reinforced Polypropylene/Magnesium Hydroxide Composites, *Journal of Engineered Fibers and Fabrics*, 12 (2), 50-58, **2017**.
15. **C. H. Lee**, S. M. Sapuan, J. H. Lee, M. R. Hassan, Melt volume flow rate and melt flow rate of kenaf fibre reinforced Floreon/magnesium hydroxide biocomposites, *SpringerPlus*, 5, 1680, **2016**, DOI:10.1186/s40064-016-3044-1.
16. **C. H. Lee**, S.M. Sapuan, J.H. Lee and M. R. Hassan, Mechanical properties of kenaf fibre reinforced floreon biocomposites with magnesium hydroxide filler, *Journal of Mechanical Engineering and Sciences*, 10(3), 2234-2248, **2016**, DOI: <https://doi.org/10.15282/jmes.10.3.2016.3.0209>.
17. **C. H. Lee**, S. M. Sapuan, and M. R. Hassan, A Review of the Flammability Factors of Kenaf and Allied Fibre Reinforced Polymer Composites, *Advances in Materials Science and Engineering*, **2014**, Article ID 514036, 8 pages, 2014, DOI: <https://doi.org/10.1155/2014/514036>.
18. L.S. Khor, Leman Zulkiflle, **C. H. Lee**, Interfacial Debonding Force and Shear Strength of Sugar Palm (*Arenga pinnata*) Fiber Reinforced Composites by Pull-Out Test, *Advanced Materials Research*, 634-638, 1931-1936, **2013**, DOI: <https://doi.org/10.4028/www.scientific.net/AMR.634-638.1931>

CONFERENCES

1. Sameer A. I., Khalina A, and **Lee C. H.**, Simulation study for the compressed BMC materials of Kenaf/Coir reinforced unsaturated polyester: flow behaviour and the effects of charges shapes studies, **7-9 November 2018**, 4th International Conference on Agricultural & Food Engineering (CAFEi2018), Universiti Putra Malaysia.

CHAPTER IN BOOK

1. **C. H. Lee**, S. M. Sapuan, N. A. Osman and Y. Nukmanm Review of composites and advanced materials in biomedical application, *Composites in Biomedical Engineering Application*, (S. M. Sapuan), Elsevier, UK, to be published in **2019**.
2. **C. H. Lee**, S. M. Sapuan M. I. Aisyah Humairah and M. T. Paridah, Review of biocomposites in biomedical applications, *Composites in Biomedical Engineering Application*, (S. M. Sapuan), Elsevier, UK, to be published in **2019**.
3. **C. H. Lee**, S. M. Sapuan and R. A. Ilyas, Development and processing of PLA, PHA and other types of biopolymers, *Advanced Processing, Manufacturing, Properties and Application of Starch and Other Biopolymers* (F. M. AL-Oqla and S. M. Sapuan), Elsevier, UK, to be published in **2019**.
4. **C. H. Lee**, S. M. Sapuan, M. R. Hassan, R. M. Sheltami, Natural fiber reinforced vinyl polymer composites, *Natural Fibre Reinforced Vinyl Ester and Vinyl Polymer Composites*, (S. M. Sapuan, H. Ismail and E. S. Zainudin), Elsevier, UK, **2018**, DOI: <https://doi.org/10.1016/C2016-0-03362-4>

PRESENTATIONS

1. C. H. Lee, Thermoplastic Polymer Matrix Biocomposites, *Student Inbound Mobility Programme Malaysia-India*, Institute of Tropical Forestry and Forest Products, Universiti Putra Malaysia, Malaysia, held on 24th OCT 2018.

RESEARCH AND TEACHING INTERESTS

Composite Materials
Green Materials
Natural fibers
Biopolymers

TEACHING EXPERIENCE

Private Home Tutor, Secondary and Pre-U level

Motivates students to creative thinking
Guidance on problem solving skills

2014-2018

Secondary School Tuition Centre

Provide guidance on achieving better results

2016-2017

REFERENCES

Assoc. Prof. Dr. Khalina bt. Abdan

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