Dr.D.Lenin Singaravelu

Associate Professor, Department of Production Engineering, NIT, Trichy.

Publication year: 2020

- 1. Jothibasu, S., Mohanamurugan, S., Vijay, R., Lenin Singaravelu, D., Vinod, A., & Sanjay, M. R. (2020). Investigation on the mechanical behavior of areca sheath fibers/jute fibers/glass fabrics reinforced hybrid composite for light weight applications. *Journal of Industrial Textiles*, 49(8), 1036-1060.
- 2. Vijay, R., Lenin Singaravelu, D., & Filip, P. (2020). Influence of molybdenum disulfide particle size on friction and wear characteristics of non-asbestos-based copper-free brake friction composites. *Surface Review and Letters*, 27(01), 1950085.
- 3. Vijay, R., Vinod, A., Kathiravan, R., Siengchin, S., & Singaravelu, D. L. (2020). Evaluation of Azadirachta indica seed/spent Camellia sinensis bio-filler based jute fabrics—epoxy composites: experimental and numerical studies. *Journal of Industrial Textiles*, 49(9), 1252-1277.
- 4. Dinesh, S., Kumaran, P., Mohanamurugan, S., Vijay, R., Singaravelu, D. L., Vinod, A., ... & Bhat, K. S. (2020). Influence of wood dust fillers on the mechanical, thermal, water absorption and biodegradation characteristics of jute fiber epoxy composites. *Journal of Polymer Research*, 27(1), 9.
- 5. Khan, A., Vijay, R., Singaravelu, D. L., Arpitha, G. R., Sanjay, M. R., Siengchin, S., ... & Asiri, A. M. (2020). Extraction and characterization of vetiver grass (Chrysopogon zizanioides) and kenaf fiber (Hibiscus cannabinus) as reinforcement materials for epoxy based composite structures. *Journal of Materials Research and Technology*, 9(1), 773-778.
- 6. Vijay, R., Manoharan, S., Arjun, S., Vinod, A., & Singaravelu, D. L. (2020). Characterization of silane-treated and untreated natural fibers from stem of leucas aspera. *Journal of Natural Fibers*, 1-17.
- 7. Khan, A., Vijay, R., Singaravelu, D. L., Sanjay, M. R., Siengchin, S., Verpoort, F., ... & Asiri, A. M. (2020). Characterization of natural fibers from cortaderia selloana grass (pampas) as reinforcement material for the production of the composites. *Journal of Natural Fibers*, 1-9.
- 8. Abhilash, S. S., & Singaravelu, D. L. (2020). Effect of fiber content on mechanical and morphological properties of bamboo fiber-reinforced linear low-density polyethylene processed by rotational molding. *Transactions of the Indian Institute of Metals*, 1-6.
- 9. Khan, A., Vijay, R., Singaravelu, D. L., Sanjay, M. R., Siengchin, S., Jawaid, M., ... & Asiri, A. M. (2020). Extraction and Characterization of Natural Fibers from Citrullus lanatus Climber. *Journal of Natural Fibers*, 1-9.
- 10. Abhilash, S. S., Luckose, R., & Singaravelu, D. L. (2020). Processing and characterization of HDPE and MDPE processed by rotational moulding. *Materials Today: Proceedings*, 27, 2029-2032.

- 11. R Vijay, D Lenin Singaravelu. 2020/9/29. Tribological characterization of different mesh-sized natural barite-based copper-free brake friction composites. *Tribology of Polymer Composites: Characterization, Properties, and Applications.* 279. Elsevier.
- 12. Khan, A., Raghunathan, V., Singaravelu, D. L., Sanjay, M. R., Siengchin, S., Jawaid, M., ... & Asiri, A. M. (2020). Extraction and Characterization of Cellulose Fibers from the Stem of Momordica Charantia. *Journal of Natural Fibers*, 1-11.
- 13. Vijay, R., Vinod, A., Singaravelu, D. L., Sanjay, M. R., & Siengchin, S. (2020). Characterization of chemical treated and untreated natural fibers from Pennisetum orientale grass-A potential reinforcement for lightweight polymeric applications. *International Journal of Lightweight Materials and Manufacture*, 4(1), 43-49.
- 14. A Vinod, R Vijay, D Lenin Singaravelu, Anish Khan, MR Sanjay, Suchart Siengchin, Francis Verpoort, Khalid A Alamry, Abdullah M Asiri. 2020/7/13. Effect of alkali treatment on performance characterization of Ziziphus mauritiana fiberand its epoxy composites. *Journal of industrial textiles. Sage publications inc.*
- 15. Sathyamoorthy, G., Vijay, R., & Singaravelu, D. L. (2020). Development and characterization of alkali-treated and untreated Dactyloctenium aegyptium fibers-based epoxy composites. *Materials Today: Proceedings*.
- 16. Antonyraj, I. J., & Singaravelu, D. L. (2020). Tribological characterization of various solid lubricants-based copper-free brake friction materials—A comprehensive study. *Materials Today: Proceedings*, 27, 2650-2656.

Publication year: 2019

- 17. Vijay, R., Singaravelu, D. L., Vinod, A., Sanjay, M. R., Siengchin, S., Jawaid, M., ... & Parameswaranpillai, J. (2019). Characterization of raw and alkali treated new natural cellulosic fibers from Tridax procumbens. *International journal of biological macromolecules*, 125, 99-108.
- 18. Manoharan, S., Vijay, R., Singaravelu, D. L., & Kchaou, M. (2019). Experimental investigation on the tribo-thermal properties of brake friction materials containing various forms of graphite: a comparative study. *Arabian Journal for Science and Engineering*, 44(2), 1459-1473.
- 19. Vijay, R., Singaravelu, D. L., Vinod, A., Sanjay, M. R., & Siengchin, S. (2019). Characterization of alkali-treated and untreated natural fibers from the stem of parthenium hysterophorus. *Journal of Natural Fibers*, 1-11.
- 20. Singaravelu, D. L., Vijay, R., & Filip, P. (2019). Influence of various cashew friction dusts on the fade and recovery characteristics of non-asbestos copper free brake friction composites. *Wear*, 426, 1129-1141.
- 21. Vinod, A., Vijay, R., Singaravelu, D. L., Sanjay, M. R., Siengchin, S., & Moure, M. M. (2019). Characterization of untreated and alkali treated natural fibers extracted from the stem of Catharanthus roseus. *Materials Research Express*, 6(8), 085406.
- 22. Antonyraj, J., & Vijay, R. (2019). Influence of WS2/SnS2 on the tribological performance of copper-free brake pads. *Industrial Lubrication and Tribology*.

- 23. Manoharan, S., Vijay, R., Singaravelu, D. L., Krishnaraj, S., & Suresha, B. (2019). Tribological characterization of recycled basalt-aramid fiber reinforced hybrid friction composites using grey-based Taguchi approach. *Materials Research Express*, 6(6), 065301.
- 24. Manoharan, S., Krishnan, G. S., Babu, L. G., Vijay, R., & Singaravelu, D. L. (2019). Synergistic effect of red mud-iron sulfide particles on fade-recovery characteristics of non-asbestos organic brake friction composites. *Materials Research Express*, 6(10), 105311.
- 25. Vijay, R., Singaravelu, D. L., & Jayaganthan, R. (2019). Development and characterization of stainless-steel fiber-based copper-free brake liner formulation: a positive solution for steel fiber replacement. *Friction*, 1-25.
- 26. Vijay, R., Manoharan, S., Vinod, A., Singaravelu, D. L., Sanjay, M. R., & Siengchin, S. (2019). Characterization of raw and benzoyl chloride treated Impomea pes-caprae fibers and its epoxy composites. *Materials Research Express*, 6(9), 095307.
- 27. Manoharan, S., Shihab, A. I., Alemdar, A. S. A., Babu, L. G., Vijay, R., & Singaravelu, D. L. (2019). Influence of recycled basalt-aramid fibres integration on the mechanical and thermal properties of brake friction composites. *Materials Research Express*, 6(11), 115310.
- 28. Singaravelu, D. L., Vijay, R., Manoharan, S., & Kchaou, M. (2019). Development and performance evaluation of eco-friendly crab shell powder based brake pads for automotive applications. *International Journal of Automotive and Mechanical Engineering*, 16(2), 6502-6523.
- 29. Vinod, A., Vijay, R., Singaravelu, D. L., Sanjay, M. R., Siengchin, S., Yagnaraj, Y., & Khan, S. (2019). Extraction and characterization of natural fiber from stem of cardiospermum halicababum. *Journal of Natural Fibers*, 1-11.
- 30. Vijay, R., Singaravelu, D. L., Vinod, A., Paul Raj, I. F., Sanjay, M. R., & Siengchin, S. (2019). Characterization of novel natural fiber from saccharum bengalense grass (Sarkanda). *Journal of Natural Fibers*, 1-9.
- 31. Khan, A., Vijay, R., Singaravelu, D. L., Sanjay, M. R., Siengchin, S., Verpoort, F., ... & Asiri, A. M. (2019). Extraction and characterization of natural fiber from eleusine indica grass as reinforcement of sustainable fiber-reinforced polymer composites. *Journal of Natural Fibers*, 1-9.
- 32. Ramakrishnan, S., Senthilkumar, V., & Singaravelu, D. L. (2019). Effect of cutting parameters on surface integrity characteristics of Ti-6Al-4V in abrasive water jet machining process. *Materials Research Express*, 6(11), 116583.

Publication year: 2018

33. Vinod, A., Vijay, R., & Singaravelu, D. L. (2018). Thermomechanical characterization of calotropis gigantea stem powder-filled jute fiber-reinforced epoxy composites. *Journal of Natural Fibers*, *15*(5), 648-657.

- 34. Vijay, R., & Singaravelu, D. L. (2018). Influence of stacking sequence on mechanical characteristics of Cyperus pangorei fibres based natural fibre composites. *Materials Today: Proceedings*, *5*(2), 8504-8513.
- 35. Singaravelu, D. L., Rajamurugan, G., & Devakumaran, K. (2018). Modified short arc gas metal arc welding process for root pass welding applications. *Materials Today: Proceedings*, 5(2), 7828-7835.

Publication year: 2017

36. S Manoharan, S Krishna Raj, R Vijay, D Lenin Singaravelu, B Suresha. 2017/9/25. Development and characterization of novel fiber reinforced hybrid friction composites. Green Composites: Materials, Manufacturing and Engineering; Walter de Gruyter Gmbh: Berlin, Germany. 69-114.

Publication year: 2016

- 37. Thiyagarajan, V., Kalaichelvan, K., Vijay, R., & Singaravelu, D. L. (2016). Influence of thermal conductivity and thermal stability on the fade and recovery characteristics of non-asbestos semi-metallic disc brake pad. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 38(4), 1207-1219.
- 38. Vijay, R., & Singaravelu, D. L. (2016). Experimental investigation on the mechanical properties of Cyperus pangorei fibers and jute fiber-based natural fiber composites. *International Journal of Polymer Analysis and Characterization*, 21(7), 617-627.