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- Vigneshwaran, S., Uthayakumar, M., & Arumugaprabu, V. (2020). Prediction and Analysis of Abrasive Water Jet Machining Performance on Hybrid Composite. *Journal of Testing and Evaluation*, 48(2), 1505-1519.
- 2. Vigneshwaran, S., Uthayakumar, M., & **Arumugaprabu**, V. (2020). Potential use of industrial waste-red mud in developing hybrid composites: A waste management approach. *Journal of Cleaner Production*, 276, 124278.
- 3. Vigneshwaran, S., Uthayakumar, M., **Arumugaprabu, V**., & Sundarakannan, R. (2020). Numerical and Experimental Assessment Of Water Absorption of Red Mud-An Industrial Waste Reinforced Sisal/Polyester Hybrid Polymer Composite. In *Structural Health Monitoring System for Synthetic, Hybrid and Natural Fiber Composites* (pp. 217-229). Springer, Singapore.
- 4. Prasath, K. A., **Arumugaprabu, V**., Amuthakkannan, P., Naresh, K., Muthugopal, M. S., Jeganathan, M., & Pragadeesh, R. (2020). QUASI STATIC AND FLEXURAL MECHANICAL PROPERTY EVALUATION OF BASALT/FLAX REINFORCED COMPOSITES. *Materials Physics and Mechanics*, 46, 132-138.
- Sivapragasam, C., Ajith, S., & Arumugaprabu, V. (2020, November). Ascertaining the Suitability of A
 Worker For Safer Execution of A Construction Task: A Genetic Programming Based Modelling Approach.
 In *IOP Conference Series: Materials Science and Engineering* (Vol. 955, No. 1, p. 012015). IOP
 Publishing.
- 6. Ajith, S., Sivapragasam, C., & **Arumugaprabu**, V. (2020, November). Comparison of Modelling Tools in Assessing Safety Performance of Construction Site. In *IOP Conference Series: Materials Science and Engineering* (Vol. 955, No. 1, p. 012016). IOP Publishing.
- 7. Shanmugam, Vigneshwaran, Deepak Joel Johnson, Karthik Babu, Sundarakannan Rajendran, **Arumugaprabu Veerasimman**, Uthayakumar Marimuthu, Sunpreet Singh et al. "The mechanical testing and performance analysis of polymer-fibre composites prepared through the additive manufacturing." *Polymer Testing* (2020): 106925.
- 8. Vigneshwaran, S., John, K. M., Deepak Joel Johnson, R., Uthayakumar, M., **Arumugaprabu**, V., & Kumaran, S. T. (2020). Conventional and unconventional machining performance of natural fibre-reinforced polymer composites: A review. *Journal of Reinforced Plastics and Composites*, 0731684420958103.
- 9. Sankaran, S., Murugan, P. R., Johnson, J. C., Asokan, D., Sheik, H. J., & **Prabu, V. A.** (2020, July). Tensile, Hardness and Microsopic Studies on Jute Fibre Reinforced Epoxy Composite for the Application of Lower Limb Prosthetics. In 2020 International Conference on Communication and Signal Processing (ICCSP) (pp. 1426-1430). IEEE.
- 10. Johnson, R. D. J., **Arumugaprabu**, V., & Manikandan, V. (2020). Effect of Moisture on the Resistance of Sansevieria Cylindrica–Reinforced Vinyl Ester Composites. *Journal of Testing and Evaluation*, 49(5).
- 11. **Arumugaprabu, V.**, Johnson, R. D. J., & Vigneshwaran, S. (2020). Mechanical Performance of Nanocomposites and Biomass-Based Composite Materials and Its Applications: An Overview. *Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications*, 1-14.
- 12. Prasath, K. A., **Arumugaprabu**, V., Amuthakkannan, P., Manikandan, V., & Johnson, R. D. J. (2020). Low velocity impact, compression after impact and morphological studies on flax fiber reinforced with basalt powder filled composites. *Materials Research Express*, 7(1), 015317.
- 13. Vigneshwaran, S., R. Sundarakannan, K. M. John, R. Deepak Joel Johnson, K. Arun Prasath, S. Ajith, V. **Arumugaprabu**, and M. Uthayakumar. "Recent advancement in the natural fiber polymer composites: a comprehensive review." *Journal of Cleaner Production* (2020): 124109.
- 14. Sundarakannan, R., **Arumugaprabu**, V., Manikandan, V., & Johnson, R. D. J. (2020). Tribo Performance Studies on Redmud Filled Pineapple Fiber Composite. *Materials Today: Proceedings*, 24, 1225-1234.

- 15. Sundarakannan, R., **Arumugaprabu**, V., Manikandan, V., & Vigneshwaran, S. (2020). Mechanical property analysis of biochar derived from cashew nut shell waste reinforced polymer matrix. *Materials Research Express*, 6(12), 125349.
- 16. Sivapragasam, S. A. C., & **Arumugaprabu**, V. Safety Assessment and Risk Management in Indian Building Construction Sites.
- 17. Ajith, S., Sivapragasam, C., & **Arumugaprabu**, V. Examination the Influence of Human Factors in Indian Building Construction Sites.
- 18. Ajith, S., Sivapragasam, C., & **Arumugaprabu**, V. (2019). A review on hazards and their consequences in firework industries. *SN Applied Sciences*, *1*(1), 120.
- 19. **Arumugaprabu**, V., & Pragatheeswaran, R. (2019). Effective Utilization of Industrial Wastes for Preparing Polymer Matrix Composites: Usage of Industrial Wastes. In *Handbook of Research on Green Engineering Techniques for Modern Manufacturing* (pp. 250-261). IGI Global.
- 20. Vigneshwaran, S., Uthayakumar, M., & **Arumugaprabu**, V. (2019). Development and sustainability of industrial waste-based red mud hybrid composites. *Journal of Cleaner Production*, 230, 862-868.
- 21. Ajith, S., Sivapragasam, C., & **Arumugaprabu**, V. (2019, July). Analysis on constructional hazards, risk assessment techniques and safety helmets in construction sites. In *AIP Conference Proceedings* (Vol. 2128, No. 1, p. 050013). AIP Publishing LLC.
- 22. Prasath, K. A., Amuthakkannan, P., **Arumugaprabu**, V., & Manikandan, V. (2019). Low velocity impact and compression after impact damage responses on flax/basalt fiber hybrid composites. *Materials Research Express*, 6(11), 115308.
- 23. **Arumugaprabu**, V., & Munde, Y. S. (2019). Constitutive models to predict the mechanical performance of sansevieria cylindrica reinforced vinyl ester composite. *Materials Research Express*, 6(9), 095310.
- 24. Vigneshwaran, S., Uthayakumar, M., **Arumugaprabhu**, V., Ramesh, A., Muthu Kumar, K., & Pasupathi, K. (2019, January). Effect of chemical treatment on erosion properties of jute polyester composites. In *AIP Conference Proceedings* (Vol. 2057, No. 1, p. 020063). AIP Publishing LLC.
- Johnson, R. D. J., Arumugaprabu, V., & Ko, T. J. (2019). Mechanical Property, Wear Characteristics, Machining and Moisture Absorption Studies on Vinyl Ester Composites—a Review. Silicon, 11(5), 2455-2470.
- 26. Richard, S., SelwinRajadurai, J., Manikandan, V., Thanu, M. C., **Arumugaprabu**, V., & Johnson, R. D. J. (2019). Study of Tribological Properties of Nano-Sized Red Mud Particle-Reinforced Polyester Composites. *Transactions of the Indian Institute of Metals*, 72(9), 2417-2431.
- 27. **Arumugaprabu**, V., Ko, T. J., Kumaran, S. T., Kurniawan, R., Kwak, Y., Yu, Z., & Uthayakumar, M. (2019). Performance of surface-textured end-mill insert on AISI 1045 steel. *Materials and Manufacturing Processes*, *34*(1), 18-29.
- 28. **Arumugaprabu**, V., Ko, T. J., Uthayakumar, M., & Johnson, R. D. J. (2019). Failure analysis in hybrid composites prepared using industrial wastes. In *Failure Analysis in Biocomposites*, *Fibre-Reinforced Composites and Hybrid Composites* (pp. 229-244). Woodhead Publishing.
- 29. Vigneshwaran, S., Uthayakumar, M., & **Arumugaprabu**, V. (2019). Solid particle erosion study on redmud-an industrial waste reinforced sisal/polyester hybrid composite. *Materials Research Express*, 6(6), 065307.
- 30. Ajith, S., Sivapragasam, C., & **Arumugaprabu**, V. (2019). Quantification of risk and assessment of key safety factors for safe workplace in Indian building construction sites. *Asian Journal of Civil Engineering*, 20(5), 693-702.
- 31. Johnson, R. D. J., **Arumugaprabu**, V., Kumar, M. P., & Dheeraj, K. (2019, January). Solid particle erosion on the biochar filled hybrid vinyl ester composite. In *AIP Conference Proceedings* (Vol. 2057, No. 1, p. 020064). AIP Publishing LLC.
- 32. **Arumugaprabu**, V., Ko, T. J., Kumaran, T., Kurniawan, R., & Uthayakumar, M. (2018). A brief review on importance of surface texturing in materials to improve the tribological performance. *Reviews on Advanced Materials Science*, 53(1), 40-48.
- 33. **Arumugaprabu**, V., Uthayakumar, M., & Manikandan, V. (2018). Polyester-based redmud reinforced banana fibre composites: impact and flexural property studies. *International Journal of Computer Aided Engineering and Technology*, 10(1-2), 42-53.
- 34. Vigneshwaran, S., Uthayakumar, M., & **Arumugaprabu**, V. (2018). Abrasive water jet machining of fiber-reinforced composite materials. *Journal of Reinforced Plastics and Composites*, *37*(4), 230-237.
- 35. Vigneshwaran, S., Uthayakumar, M., & **Arumugaprabu**, V. (2018). Review on machinability of fiber reinforced polymers: a drilling approach. *Silicon*, 10(5), 2295-2305.

- 36. Johnson, R. D. J., **Arumugaprabu**, V., Rajasekar, E., Santhosh, G., & Saravanakumar, M. (2018). Mechanical property studies on environmental friendly bio epoxy resin. *Materials Today: Proceedings*, 5(2), 6815-6820.
- 37. Vigneshwaran, S., Uthayakumar, M., **Arumugaprabu**, V., & Deepak Joel Johnson, R. (2018). Influence of filler on erosion behavior of polymer composites: A comprehensive review. *Journal of Reinforced Plastics and Composites*, 37(15), 1011-1019.
- 38. **Prabu, V. A.**, Kumaran, S. T., & Uthayakumar, M. (2018). Influence of redmud particle hybridization in banana/sisal and sisal/glass composites. *Particulate Science and Technology*, *36*(4), 402-407.
- 39. Johnson, R. D. J., **Arumugaprabu**, V., Uthayakumar, M., Vigneshwaran, S., Manikandan, V., & Bennet, C. (2018). Erosion performance studies on sansevieria cylindrica reinforced vinylester composite. *Materials Research Express*, 5(3), 035309.
- 40. **Prabu**, V. A., Johnson, R. D. J., Amuthakkannan, P., & Manikandan, V. (2017). Usage of industrial wastes as particulate composite for environment management: hardness, tensile and impact studies. *Journal of environmental chemical engineering*, 5(1), 1289-1301.
- 41. Johnson, R., **Prabu, V. A.**, Amuthakkannan, P., & Prasath, K. A. (2017). A REVIEW ON BIOCOMPOSITES AND BIORESIN BASED COMPOSITES FOR POTENTIAL INDUSTRIAL APPLICATIONS. *Reviews on Advanced Materials Science*, 49(1).
- 42. **Prabu, V. A.**, Kumaran, S. T., & Uthayakumar, M. (2017). Performance evaluation of abrasive water jet machining on banana fiber reinforced polyester composite. *Journal of Natural Fibers*, 14(3), 450-457.
- 43. Kurniawan, R., Kumaran, S. T., **Prabu, V. A.**, Zhen, Y., Park, K. M., Kwak, Y. I., ... & Ko, T. J. (2017). Measurement of burr removal rate and analysis of machining parameters in ultrasonic assisted dry EDM (US-EDM) for deburring drilled holes in CFRP composite. *Measurement*, 110, 98-115.
- 44. Vigneshwaran, S., Uthayakumar, M., & **Arumugaprabu**, V. (2017). A review on erosion studies of fiber-reinforced polymer composites. *Journal of Reinforced Plastics and Composites*, *36*(14), 1019-1027.
- 45. **Arumugaprabu**, V., Uthayakumar, M., Cardona, F., & Sultan, M. T. H. (2016, October). Mechanical characterization of coir/palmyra waste fiber hybrid composites. In *IOP Conf. Ser. Mater. Sci. Eng* (Vol. 152).
- 46. **Arumugaprabu**, V., Uthayakumar, M., & Manikandan, V. (2016). Effect of Redmud Filled Banana/Polyester Composites-Moisture Resistance Studies.
- 47. **Arumugaprabu**, V., Amuthakkannan, P., Manikandan, V., & Rajini, N. Waste Utilization and Pollution Prevention in Industries.
- 48. Manikandan, V., Amuthakkannan, P., & **Prabu, V. A**. Review on Natural Fiber Composites: Banana/Hemp Fiber and Its Hybrid Composites.
- 49. Sreenivasan, V. S., Rajini, N., Alavudeen, A., & **Arumugaprabu**, V. (2015). Dynamic mechanical and thermo-gravimetric analysis of Sansevieria cylindrica/polyester composite: Effect of fiber length, fiber loading and chemical treatment. *Composites Part B: Engineering*, 69, 76-86.
- 50. **Prabu, V. A.**, Manikandan, V., Venkatesh, R., Vignesh, P., Vignesh, S., Sankar, K. S., ... & Subburaj, E. (2015). Influence of redmud filler on Palmyra fruit and Palmyra fiber waste reinforced polyester composite: hardness, tensile and impact studies. *Materials Physics and Mechanics*, 24, 41-49.
- 51. Mayandi, K., Rajini, N., Pitchipoo, P., **Arumugaprabu**, V., Vishnudev, P. K., Vetrivel, M., & Vignesh, K. (2015). Effect of Alkali Treatment on Tensile and Physicochemical Characterization of Cissus quadrangularis Fiber. In *Applied Mechanics and Materials* (Vol. 813, pp. 172-178). Trans Tech Publications Ltd.