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#### **List of Publications for the last 5 years:**

1. Viji, R., Nagaraj, P., & Vasanthanathan, A. (2020). Fault Analysis by Using MiPower Software and Circuit Breaker Design. *International Journal of Research in Engineering, Science and Management*, 3(8), 509-511.
2. Prabhakar, R. S. S., Nagaraj, P., & Jeyasubramanian, K. (2020). Promotion of bio oil, H<sub>2</sub> gas from the pyrolysis of rice husk assisted with nano silver catalyst and utilization of bio oil blend in CI engine. *International Journal of Hydrogen Energy*.
3. Kumar, M. S., & Nagaraj, P. R. (2020). Effect of Aerobic Exercises on Selected Physiological Variables among College Long Distance Men Athletes. *Indian Journal of Public Health Research & Development*, 11(1).
4. Hynes, N. R. J., Nagaraj, P., & Sujana, J. A. J. (2019). Regression Modelling of Joining Aluminium Studs to Steel with AA 1100 Interlayer. *Experimental Techniques*, 43(5), 491-500.
5. Prabhakar, R. S. S., Nagaraj, P., & Jeyasubramanian, K. (2019). Enhanced recovery of H<sub>2</sub> gas from rice husk and its char enabled with nano catalytic pyrolysis/gasification. *Microchemical Journal*, 146, 922-930.
6. Vasiraja, N., & Nagaraj, P. (2019). Characterization of SS/Al<sub>2</sub>O<sub>3</sub> functionally graded material coating by plasma spray technique on aluminum plate. *Materials Research Express*, 6(6), 066402.
7. Vasiraja, N., & Nagaraj, P. (2019). The effect of material gradient on the static and dynamic response of layered functionally graded material plate using finite element method. *Bulletin of the Polish Academy of Sciences: Technical Sciences*, 827-838.
8. Thanikachalam, J., Nagaraj, P., & Karthikeyan, S. (2019). Preparation and characterization of nano magnetic fluid for automotive applications. *Archives of Materials Science and Engineering*, 96(2).

9. Lenin, A. W., Nagaraj, P., Lincy, G., & Thangavelu, L. (2018). Characteristic study on Al7020 friction stir joints with various rotational speeds. *International Journal of Computer Aided Engineering and Technology*, 10(6), 703-717.
10. Britto, J. J. J., Vasanthanathan, A., & Nagaraj, P. (2018). Finite Element Modeling and Simulation of Condition Monitoring on Composite Materials Using Piezoelectric Transducers-ANSYS®. *Materials Today: Proceedings*, 5(2), 6684-6691.
11. Vinayaga, K. K., Vasanthanathan, A., & Nagaraj, P. (2018). Finite element modeling of smart piezoelectric beam using ANSYS®. *Materials Today: Proceedings*, 5(2), 7078-7085.
12. Hynes, N. R. J., Prabhu, M. V., & Nagaraj, P. (2017). Joining of hybrid AA6063-6SiCp-3Grp composite and AISI 1030 steel by friction welding. *Defence technology*, 13(5), 338-345.
13. Shankar, B. L., Nagaraj, P. M., & Anil, K. C. (2017). Optimization of wear behaviour of AA8011-Gr composite using Taguchi technique. *Materials Today: Proceedings*, 4(10), 10739-10745.
14. Thanikachalam, J., Nagaraj, P., Krishnan, T. G., & Khan, M. A. (2017). Investigation of structural integrity and corrosion behaviour of thermal barrier coating. *International Journal of Materials and Product Technology*, 55(1-3), 17-30.
15. Thanikachalam, J., & Nagaraj, P. (2017). Numerical simulation and CFD analysis of a magnetorheological brake by magnetic induction equation method. *International Journal of Materials and Product Technology*, 55(1-3), 31-43.
16. Thanikachalam, J., Nagaraj, P., Krishnan, S., & Manian, M. (2017). Desalination technique using optimised solar still and solar foam. *International Journal of Materials and Product Technology*, 55(1-3), 156-172.
17. Vasanthanathan, A., Nagaraj, P., Kabilash, K. M., & Sriram, M. (2017). The influence of stiffeners on axial crushing of glass-fabric-reinforced epoxy composite shells. *Journal of King Saud University-Engineering Sciences*, 29(1), 91-101.
18. Veena, T. R., Kadadevaramath, R. S., Nagaraj, P. M., & Madhusudhan, S. V. (2016). Design and Fabrication of Automatic Glass Cutting Machine. *MS&E*, 149(1), 012144.
19. Lenin, A. W. A., Nagaraj, P., & Lincy, G. (2016). Improving crack resistivity in Al alloy pressure vessels by FSW. *Journal of Achievements in Materials and Manufacturing Engineering*, 79(2), 54-58.

20. Thanikachalam, J., Ramkumar, M., & Nagaraj, P. (2016). Electromagnetic analysis of magnetorheological brakes. *Journal of Achievements in Materials and Manufacturing Engineering*, 76(2), 61-66.
21. Thanikachalam, J., Nagaraj, P., & Hikku, G. S. (2016). Effect of graphene as anti-settling agent for magnetorheological fluid. *Journal of Achievements in Materials and Manufacturing Engineering*, 77(2), 49-56.
22. Arunachalam, V., & Nagaraj, P. (2015). Correlation study of IR TNDT analysis with structural failure modes of carbon-fabric-reinforced epoxy composites. *Journal of Engineered Fibers and Fabrics*, 10(1), 155892501501000108.
23. Hynes, N. R. J., Nagaraj, P., & Tharmaraj, R. (2015). Prediction of Thermal Profile During Friction Stud Welding of Aluminium-Mild Steel Joints. *International Journal of Applied Engineering Research*, 10(8), 6107-6110.
24. Thanikachalam, J., & Nagaraj, P. (2015). Optimised design for magnetorheological brake using DOE methods. *International Journal of Energy Technology and Policy*, 11(4), 394-406.
25. Deepak, S., Vasanthanathan, A., & Nagaraj, P. (2015). Finite element modelling and simulation of train car body structure using LS-Dyna®. In *Applied Mechanics and Materials* (Vol. 787, pp. 270-274). Trans Tech Publications Ltd.
26. Vigneshwara Mahaprabhu, L., Vasanthanathan, A., & Nagaraj, P. (2015). Finite Element Studies on Lattice Conical Shell Structures Using LS-Dyna®. In *Applied Mechanics and Materials* (Vol. 787, pp. 275-279). Trans Tech Publications Ltd.