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Publications

International Journal

1. Ajith, B., Stephen, J.D.G. and **Prakash, M.**, 2020, August. Bio-Mechanical behaviour of artificial intervertebral disc in lumbar spine. In IOP Conference Series: Materials Science and Engineering (Vol. 912, No. 2, p. 022037). IOP Publishing.
2. **Prakash, M.**, Kanthababu, M., Kumar, A.A.J., Arun, N. and Venkadesan, V.P., 2020, August. Identification of tool wear status and correlation of chip morphology in micro-end milling of mild steel (SAE 1017) using acoustic emission signal. In IOP Conference Series: Materials Science and Engineering (Vol. 912, No. 3, p. 032066). IOP Publishing.
3. Samson, R.M., **Prakash, M.**, Nirmal, R. and Vajpayee, G., 2020, August. Vibration Analysis Of Nitinol Shape Memory Alloy In Carbon Fibre Reinforced Polymer Composites. In IOP Conference Series: Materials Science and Engineering (Vol. 912, No. 5, p. 052029). IOP Publishing.
4. Raj, G.H., **Prakash, M.** and Kumar, A.L., 2020, August. Acoustic Emission Analysis for Damage Mechanism in Fiber Reinforced Polymer Composite under Torsional Behaviour. In IOP Conference Series: Materials Science and Engineering (Vol. 912, No. 3, p. 032050). IOP Publishing.
5. Stephen, J.D.G. and **Prakash, M.**, 2020, August. Wear performance of UHMWPE reinforced with basalt fibre for total disc replacement. In IOP Conference Series: Materials Science and Engineering (Vol. 912, No. 5, p. 052030). IOP Publishing.
6. Senthilkumar, R., Ponnusamy, P. and **Prakash, M.**, 2020. The effect of TiB₂ on mechanical and microstructural properties of AZ91 matrix composites manufactured by cold chamber die casting process (No. 2020-28-0425). SAE Technical Paper.
7. Senthilkumar, R., **Prakash, M.**, Arun, N. and Jeyakumar, A.A., 2019. The effect of the number of passes in friction stir processing of aluminum alloy (AA6082) and its failure analysis. Applied Surface Science.
8. Ashok Kumar, I., Jeya Kumar, A.A. and **Prakash, M.**, 2019. Thermal Characterization of Flax/Basalt Fiber Reinforced Phenol Resin Brake Pad Material: Effective Replacement of Asbestos. Journal of Natural Fibers, pp.1-11.
9. Kumar, A.A.J. and **Prakash, M.**, 2019. Thermal properties of basalt/Cissus quadrangularis hybrid fiber reinforced polylactic acid biomedical composites. Journal of Thermal Analysis and Calorimetry, pp.1-9.

10. J Santhakumar, U Mohammed Iqbal, **M Prakash**, "Optimization of one direction tool path orientation for pocket milling of Ti6Al-4V using taguchi based grey relational analysis" IOP Conf. Series: Materials Science and Engineering 402 (1), 012166, 2018
11. T Geethapriyan, P Lakshmanan, **M Prakash**, UM Iqbal, S Suraj, "Influence of Tool Electrodes on Machinability of Stainless Steel 420 Using Electrochemical Micromachining Process" Advances in Manufacturing Processes, 441-456, 2018
12. **M Prakash**, U Mohammed Iqbal, "Parametric optimization in turning of AA2014/Al2O3 nano composite for machinability assessment using sensors", IOP Conference Series: Materials Science and Engineering 402 (1), 012013, 2018
13. Santhakumar, J., U. Mohammed Iqbal, and **M. Prakash**. "Taguchi-Grey Relational Based Multi-Response Optimization on the Performance of Tool Coating Thickness in Pocket Milling." Materials Today: Proceedings 5.5/13422-13428. 2018
14. **M Prakash** and PVS Dileep Aditya Dhar, "Investigation on the effect of drilling parameters on the tool wear and delamination of glass fibre-reinforced polymer composite using vibration signal analysis", Journal of Composite Materials, DOI: 0.1177/0021998317728109, 2017
15. J. Santhakumar, U. Mohammed Iqbal and **M. Prakash**, "Investigation on the effect of tensile strength on FDM build parts using taguchi-grey relational based multi-response optimization", International Journal of Mechanical Engineering and Technology, vol.8,no.12,pp. 53-60, 2017.
16. G. Saravanan, K. Shanmugasundaram, **M. Prakash**, A. Velayutham "Influence of aging temperature on mechanical properties and thermal expansion of aluminium hybrid composite" Technical Journal of Faculty of Engineering, vol.39, no. 1, pp. 10-17, 2016.
17. G. Saravanan, K. Shanmugasundaram, **M. Prakash**, A. Velayutham "Tribological behaviour of hybrid (Al356 + SiC + Gr) metal matrix composites" Applied Mechanics and Materials, vol 766-767, pp 269-275, 2015.
18. **M. Prakash**, M. Kanthababu & KP. Rajurkar, "Investigations on the effects of tool wear on chip formation mechanism and chip morphology using acoustic emission signal in the microendmilling of aluminum alloy", International Journal of Advanced Manufacturing Technology, vol. 77/5-8, pp.1499-1511, 2015, IF: 2.779.
19. **Prakash, M.**, Kanthababu, M., Kumar, A.A.J. and Venkadesan, V.P., Experimental Investigation on the Influence of Tool Geometry in Minimum Chip Thickness of Microendmilling Using Cutting Force Analysis. In Trends in Manufacturing and Engineering Management (pp. 567-581). Springer, Singapore.
20. Stephen, J.D.G., **Prakash, M.**, Nevedha, V.K. and Pandey, M., A Finite Element Analysis to Study the Effect of Various Loading Conditions on the Intervertebral Disc

in L4–L5 Section of Lumbar Spine. In Trends in Mechanical and Biomedical Design (pp. 287-295). Springer, Singapore.