- 1. Mohankumar, P., Ajayan, J., Mohanraj, T., & Yasodharan, R. (2020). Recent developments in biosensors for healthcare and biomedical applications: A review. *Measurement*, 167, 108293.
- 2. Moganapriya, C., Rajasekar, R., Kumar, P. S., Mohanraj, T., Gobinath, V. K., & Saravanakumar, J. (2020). Achieving machining effectiveness for AISI 1015 structural steel through coated inserts and grey-fuzzy coupled Taguchi optimization approach. *Structural and Multidisciplinary Optimization*, 1-18.
- 3. Mohanraj, T., Yerchuru, J., Krishnan, H., Aravind, R. N., & Yameni, R. (2020). DEVELOPMENT OF TOOL CONDITION MONITORING SYSTEM IN END MILLING PROCESS USING WAVELET FEATURES AND HOELDER'S EXPONENT WITH MACHINE LEARNING ALGORITHMS. Measurement, 108671.
- 4. Mohanraj, T., Deepesh, T., Dhinesh, R., Jayaprakash, S., & Sai Krishna, S. (2020). Design and analysis of a strain gauge based eight-shaped elliptical ring dynamometer for milling force measurement. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 0954406220967681.
- 5. Raj, M. K. A., Rathanasamy, R., Kaliyannan, G. V., & Thangamuthu, M. R. (2020). Research Insights on the Development of Biosensors. In *Nanosensor Technologies for Environmental Monitoring* (pp. 33-48). Springer, Cham.
- 6. Suganeswaran, K., Parameshwaran, R., Mohanraj, T., & Radhika, N. (2020). Influence of secondary phase particles Al2O3/SiC on the microstructure and tribological characteristics of AA7075-based surface hybrid composites tailored using friction stir processing. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 0954406220932939.
- 7. Sreenivasan, M., Kumar, M. D., Krishna, R., Mohanraj, T., Suresh, G., Kumar, D. H., & Charan, A. S. (2020). Finite element analysis of coil spring of a motorcycle suspension system using different fibre materials. *Materials Today: Proceedings*.
- 8. Prabhu, S. R., Ilangkumaran, M., & Mohanraj, T. (2020). 3D Printing of automobile spoilers using MCDM techniques. *Materials Testing*, 62(11), 1121-1125.
- 9. Mohanraj, T., Shankar, S., Rajasekar, R., & Uddin, M. S. (2020). Design, development, calibration, and testing of indigenously developed strain gauge based dynamometer for

- cutting force measurement in the milling process. *Journal of Mechanical Engineering and Sciences*, 14(2), 6594-6609.
- 10. Tamilvanan, A., Balamurugan, K., Mohanraj, T., Selvakumar, P., & Madhankumar, B. (2020). Parameter optimization of copper nanoparticle synthesis by electrodeposition process using RSM and CS. *Materials Today: Proceedings*.
- 11. Rajasekar, R. Plant Fibre Based Biodegradable Green Composites. *Materials Research Foundations*, 68.
- 12. Sakthivel, R., Mohanraj, T., Baranitharan, P., Tamilvanan, A., & Gomathi, K. (2020). Emission Aspects of Biomass-Based Advanced Second Generation Bio-Fuels in IC Engines. In *Recent Technologies for Enhancing Performance and Reducing Emissions in Diesel Engines* (pp. 44-64). IGI Global.
- 13. Tamilvanan, A., Balamurugan, K., Mohanraj, T., Selvakumar, P., Ashok, B., & Sakthivel, R. (2020). Influence of Nano-Particle Additives on Bio-Diesel-Fuelled CI Engines: A Review. In *Recent Technologies for Enhancing Performance and Reducing Emissions in Diesel Engines* (pp. 85-104). IGI Global.
- 14. Suganeswaran, K., Parameshwaran, R., Mohanraj, T., & Meenakshipriya, B. (2020). Process parameter optimization for the magnetic abrasive finishing of SS310s steel. *Materials Testing*, 62(2), 157-164.
- 15. Mohanraj, T., Shankar, S., Rajasekar, R., Sakthivel, N. R., & Pramanik, A. (2020). Tool condition monitoring techniques in milling process—A review. *Journal of Materials Research and Technology*, 9(1), 1032-1042.
- 16. Mohanraj, T., Shankar, S., Rajasekar, R., Sakthivel, N. R., & Pramanik, A. (2020). Tool condition monitoring techniques in milling process—A review. *Journal of Materials Research and Technology*, 9(1), 1032-1042.
- 17. SK, T., & Shankar, S. (2020). Tool wear prediction in hard turning of EN8 steel using cutting force and surface roughness with artificial neural network. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 234(1), 329-342.
- 18. Thangamuthu, T., Rathanasamy, R., Kulandaivelu, S., Kuttiappan, R., Thangamuthu, M., Chinnasamy, M., & Gobinath, V. K. (2020). Experimental investigation on the influence

- of carbon-based nanoparticle coating on the heat transfer characteristics of the microprocessor. *Journal of Composite Materials*, 54(1), 61-70.
- 19. Mohanraj, T., Shankar, S., Rajasekar, R., Deivasigamani, R., & Arunkumar, P. M. (2019). Tool condition monitoring in the milling process with vegetable based cutting fluids using vibration signatures. *Materials Testing*, 61(3), 282-288.
- 20. Shankar, S., Mohanraj, T., & Ponappa, K. (2017). Influence of vegetable based cutting fluids on cutting force and vibration signature during milling of aluminium metal matrix composites. *Jurnal Tribologi*, 12, 1-17.
- 21. Shankar, S., & Mohanraj, T. (2017). Experimental Investigation and Process Parameter Optimization in Milling of 7075–T6 Hybrid Aluminium Metal Matrix Composite Using Response Surface Methodology. *Journal of the Balkan Tribological Association*, 23(1), 124-138.
- 22. Shankar, S., Mohanraj, T., & Thangarasu, S. K. (2016). Multi-response milling process optimization using the Taguchi method coupled to grey relational analysis. *Materials Testing*, 58(5), 462-470.
- 23. Shankar, S., & Mohanraj, T. (2015, November). Tool condition monitoring in milling using sensor fusion technique. In *Proceedings of Malaysian International Tribology Conference* (Vol. 2015, pp. 322-323).
- 24. Shankar, S., Thangarasu, S. K., Mohanraj, T., & Pravien, D. S. (2015). Prediction of cutting force in turning process: An experimental and fuzzy approach. *Journal of Intelligent & Fuzzy Systems*, 28(4), 1785-1793.