

DC MEMBER

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Name	:	Dr. K. Palaniradja.
Designation	:	Professor
Department	:	Mechanical Engineering
Address	:	PONDICHERRY ENGINEERING COLLEGE, Pillaichavady, Puducherry - 605 014.
Mobile & E-Mail	:	9894045673 & palaniradja72@pec.edu

List of Publications (Recent):

1. Teeth Wear Enhancement Along the Tooth Profile of Spur Gear Drive by Balancing the Fillet Stress Through Positive Correction Factor, Advances in Simulation, Product Design and Development, (2020), pp. 459-468.
2. Effect of Module on Wear Reduction in High Contact Ratio Spur Gears Drive Through Optimized Fillet Stress Recent Advances in Theoretical, Applied, Computational and Experimental, (2020), pp. 239-250.
3. Gear loss factor using the load distribution model for varying contact ratio in spur gear drive for improved bending strength, IOP Conference Series: Materials Science and Engineering 624 (2019), pp. 012017.
4. Performance enhancement of normal contact ratio gearing system through correction factor, Journal of Mechanical Engineering and Sciences, 13 (2019), pp. 5242-5258.
5. Evolution of balanced root stress and tribological properties in high contact ratio spur gear drive, Mechanism and Machine Theory 126 (2018), pp. 491-513.
6. Experimental investigation of mechanical properties on Al 7075 using electroless Ni-P/Ni-B duplex coating with nano SiC, International Journal of Advanced Technology and Engineering Exploration 5 (2018), pp. 30-36.
7. Influence of gear ratio on wear depth of nonstandard HCR spur gear drive with balanced fillet stress, Materials Today: Proceedings 5 (2018), pp. 17350-17359.
8. Prediction of wear rate and wear resistance model on friction stir welded Al6061/SiCp metal matrix composite--RSM approach, Advances in Natural and Applied Sciences 11 (2017), pp. 181-190.
9. Friction and wear behaviour of steam-oxidized ferrous PM compacts, Journal of Mechanical Science and Technology 30 (2016), pp. 4535-4541.
10. Effect of interfacial bonding on impact properties of chopped glass fiber polymer nanocomposites, Composite Interfaces 22 (2015), pp. 265-280.

11. Effect of surfactant on the electroless Ni-P/Ni-B duplex coatings on aluminium 7075, International Journal of Metallurgical Engineering 4 (2015), pp. 25-32.
12. Experimental comparative study of heat pipe performance using CuO and TiO₂ nanofluids, International journal of energy research 38 (2014), pp. 573-580.
13. Experimental investigations on diesel engine forced induction and exhaust gas recirculation (EGR) using exhaust gas assisted jet compressor, Journal of engineering for gas turbines and power 136 (2014), pp.1.
14. Preparation and characterization of copper oxide nanofluid for heat transfer applications, Applied Nanoscience 4 (2014), pp. 163-167.
15. Optimize the evaporating heat transfer coefficient of Refrigeration System Using Nano Fluid, Applied Mechanics and Materials 592(2014), pp. 951-955.
16. Performance analysis of a refrigeration system using nano fluid, International Journal of Advanced Mechanical Engineering 4 (2014), pp. 459-470.
17. Experimental Studies on the Combustion Characteristics and Performance of A Direct Injection Diesel Engine Fueled with Rice-Bran Oil Derived Biodiesel/Diesel Blends, International Journal of Engineering Research and Technology 2 (2013), pp. 3372-3382.
18. Effect of deep cryogenic treatment on AISI T42 high speed steel, Int J Cur Eng Technol 3(2013), pp. 1164-1170.
19. Bi-performance optimisation of end milling characteristics of Al/SiC composites using NSGA-II, International Journal of Applied Science and Engineering 11 (2013), pp. 251-266.