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Mechanical Engineering

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List of Publications- Last Five years

1. Performance enhancement of centrally finned twist inserted solar collector using corrugated booster reflectors
M Murugan, R Vijayan, A Saravanan, S Jaisankar
Energy 168, 858-869, 2019
2. Experimental analysis of a vapour compression refrigeration system by using nano refrigerant (R290/R600a/Al₂O₃)
BP Krishnan, R Vijayan, K Gokulnath, S Vivek, G Sathyamoorthy
AIP Conference Proceedings 2128 (1), 050023, 2019
3. Influence of corrugated booster reflectors in a centrally finned twist inserted solar thermal collector on heat transfer and thermal performance characteristics
M Murugan, R Vijayan, A Saravanan, S Jaisankar
Journal of Heat Transfer 141 (6), 2019
4. Improving performance of a trapezoidal-trough thermosyphon solar collector using peripherally wing-cut swirl generator
M Murugan, R Vijayan, A Saravanan
International Journal of Green Energy 16 (14), 1196-1209, 2019
5. Investigation of modified horizontal wing cut twisted tapes fitted with rod and spacer at trailing edge on heat transfer properties in Double Glazing V-Trough solar water heaters
D Gnanaraj, R Vijayan
International Journal of Green Energy 16 (7), 501-509, 2019
6. A review on performance, emission and combustion characteristics of a diesel engine fuelled with various vegetable oil
MA Asokan, R Vijayan
Indian Journal of Chemical Technology (IJCT) 25 (3), 225-234, 2018
7. 'Saravanan, K., & Vijayan, R. (2018). Performance of Al₂O₃/TiO₂ nano composite particles in domestic refrigerator. Journal of Experimental Nanoscience, 13(1), 245-257. doi:10.1080/17458080.2018.1491066
8. Experimental investigation of future HFC/HCs blended refrigerants for use in small capacity window air-conditioner
P Elumalai, R Vijayan, V Subburam

Taga J Graph Technol 14, 1921-1931, 2018

9. First law and Second law analysis of Al₂O₃/TiO₂ nano composite lubricant in domestic refrigerator at different evaporator temperature
K Saravanan, R Vijayan
Materials Research Express 5 (9), 095015, 2018
10. Performance Enhancement of V-trough solar concentrator with peripherally oblique-cut twist inserts
M Murugan, R Vijayan, A Saravanan, 2018
11. Performance analysis of a nano refrigerant mixtures in a domestic refrigeration system
BP Krishnan, DR Vijayan, K Gokulnath
Advances in Natural and applied Science 11 (6), 508-516, 2017
12. Experimental studies on the combustion characteristics and performance of a DI diesel engine using kapok oil methyl ester/diesel blends
MA Asokan, R Vijayan, SS Prabu, N Venkatesan
International Journal of Oil, Gas and Coal Technology 12 (1), 105-119. 2016
13. Energy and exergy analysis of vapor compression refrigeration system with various mixtures of HFC/HC
U Prakash, R Vijayan, P Vijay
International Journal of Engineering Technology, Management and Applied, 2016
14. Quantitative Analysis of Degummed Calophyllum Inophyllum Oil
R Prabhakar, R Vijayan, A Murugesan, N Buvaneswari
International Journal of u-and e-Service, Science and Technology 9 (12), 11-18, 2016
15. Experimental investigation of diesel engine fuelled with calophyllum inophyllum methyl ester blends
R Prabhakar, R Vijayan, A Murugesan, N Buvaneswari
Advances in Natural and Applied Sciences 10 (7 SE), 123-130, 2016
16. Performance Assessment of Eco-Friendly Refrigerant Mixtures Alternative to HCFC 22 in a Small Capacity Window Air Conditioner
P Elumalai, R Vijayan
Asian Journal of Research in Social Sciences and Humanities 6 (9), 1600-1613, 2016