

Faculty Publication 2018-19

1. Dr. S. S. Metan, "Hybrid two-wheeler – A reality" International Journal of Scientific & Engineering Research, Volume 9, Issue 12, December- 2018, ISSN 2229-5518.
2. Dr.B.K.Sonage, "Enhancement of thermal efficiency and cost effectiveness by development of melting furnace by revamping and troubleshooting fuel-fired furnace", IJISRT, volume 3, issue 10, Aug 2018.
3. Dr.B.K.Sonage, "Unsteady-state lumped heat capacity system design for tube furnace for continuous inline wire annealing process", Heat Transfer-Asian Journal, 48, 2019.
4. Prof.S.S.Kale & Prof.B.R.Birajdar, "Text Book Publication on Energy & Environment Engineering", Technical Publication, Pune.
5. Prof.D.D.Bhoge, "Performance Evaluation of Air Conditioner Using Earth Air Tunnel Heat Exchanger" International Journal of Innovative Science and Research Technology, ISSN NO: 2456-2165 Volume 3, Issue 10, October – 2018.
6. Prof.D.D.Bhoge, "Performance Enhancement of Air Conditioner Using Earth Air Tunnel Heat Exchanger" International Research Journal of Engineering and Technology, e-ISSN: 2395-0056 p-ISSN: 2395-0072 Volume: 05 Issue: 07 July 2018.
7. Prof.M. S. Dafedar, "Steady and Transient State Analyses on Conjugate Laminar Forced Convection Heat Transfer" Archives of Computational Methods in Engineering (Springer), January 2019, DOI <https://doi.org/10.1007/s11831-018-09303-x>.
8. Prof.M. S. Dafedar, "Optimal spacing in heat generating parallel plate channel: A conjugate approach" International Journal of Thermal Sciences (Elsevier), Vol 136, 2019, pp 267-277.
9. Prof.M. S. Dafedar, Effect of cladding on thermal behavior of nuclear fuel element with non-uniform heat generation, Progress in Nuclear Energy (Elsevier), Vol 111, 2019, pp 1-14.
10. Prof.M. S. Dafedar, "Investigation of dimensionless parameters and geometry effects on heat transfer characteristics of liquid sodium flowing over a flat plate, Heat Transfer Asian Research (John Wiley Publications), Volume 48, Issue 1, 2019, pp 62-79.
11. Prof.M. S. Dafedar, "Effect of spacing on thermal performance characteristics of Li-ion battery cells", Journal of Thermal Analysis and Calorimetry (Springer), Vol 135, issue 3, pp 1797-1811, 2019.

12. Prof. C.V. Papade, "Analysis of Vapour Compression Refrigeration System Using Matrix Heat Exchanger", IPASJ International Journal of Mechanical Engineering (IJME) Volume 6, Issue 5, May 2018 (Thomson Reuters Indexed)
13. Prof. C.V. Papade, "Development of Fixture for Bracket Weldment: A Review ", International Journal of Engineering Trends and Technology (IJETT), Volume 58 Issue 2 – April 2018 ISSN: 2231 - 5381 pp. 54-59
14. Prof. C.V. Papade "Analysis of Solar Operated Intermittent Vapour Absorption Refrigeration System", International Journal of Engineering Trends and Technology (IJETT) – Volume 60 Issue 2- June 2018
15. Prof. C.V. Papade "Analysis of solar Cooker using sensible energy storing material" International Research Journal of Engineering and Technology (IRJET) –Volume 5, Issue 7, July 2018.
16. Prof V.P. Kulkarni, "Optimization of Cutting Parameters in Turning of EN 8 steel using SWARM Intelligence", Volume 3 Issue No (1-3) ISSN (print): 2456-5342, 2018.
17. Prof.S.S.Kale, "A review on enhancement of pool boiling heat transfer using different structured surface with nanofluids, International Journal Of Advance Research Ideas And Innovations In Technology- Volume-4, Issue-3, May-June 2018.
18. Prof.S.S.Kale, "Waste heat recovery of compression ignition engine-A review, National conference on Recent trends in Science & Technology (NC-RTST 2019)
19. Prof.S.S.Kale, "Performance evaluation of air conditioner using earth air tunned heat exchanger, International Journal Of Innovative Science & Research Technology, Volume-3, Issue-10, October 2018.
20. Prof. B. R. Birajdar "Design& Fabrication of fertilizer Spreading Machine" International Journal for Research in Applied Science & Engineering Technology (IJRASET) SSN: 2321-9653; Volume 6 Issue VII, July 2018 Page no 238-245.
21. Prof. B. R. Birajdar & Prof. M.B. Awate "Design And Production of Fertilizer Spreading Mechanism For Sugarcane" Techno Societal 2018 - International Conference on Advanced Technologies for Societal Applications Volume 1, Springer-C-CTP-01/2018.

Faculty Publication 2017-18

- 1) Dr. S. S. Metan, Prof.D.D.Bhoge, “Remaining Life assessment of radiant super heater in creep Regime”, *International Research Journal of Engineering & Technology*, Vol 04, Issue 07, 2017.
- 2) Dr.B.K.Sonage, “Comparison of Heat transfer performance of plain tube & rifled tube by experimentation & CFD analysis”, *International Journal of Engineering Technology Science and Research*, Volume 5, Issue 1, ISSN 2394 – 3386, January 2018.
- 3) Dr.B.K.Sonage, “Study of Surface Temperature distribution of plain tube & Rifled tube by CFD analysis”, *International Research Journal of Engineering & Technology*, 5(02), 2018; 54-56.
- 4) Prof.N.R.Patil, “ Effect of CuSn Filler on Tribological Performance of glass fiber-epoxy composite”, *International Journal of Mechanical Engineering & Technology*, Vol 08, Issue 07, PP367-378 July 2017.
- 5) Prof.S.S.Kale, “Experimental Investigation of Pool Boiling Enhancement on Different Structured Surfaces”, *International Research Journal of Engineering & Technology*, ISSN: 2395-0056, 2017.
- 6) Prof. C. V. Papade, “Solar powered two wheeled self-balancing vehicle”, *International Journal of Innovative Research in Advanced Engineering*, Issue 11, Volume 4 ISSN: 2349-2163, 2017.
- 7) Prof. M. S. Dafedar, “Experimental Heat Transfer Analysis In Different Minichannel Heat Sinks: A Comparative Approach”, *International Conference on Energy Systems and Developments* Feb. 2017.
- 8) Prof. M. S. Dafedar, “Heat transfer characteristics of MWCNT nanofluid in rectangular mini channels” *International Journal of Heat & Technology*, Vol 36, No 01, March 2018, PP 222-228.
- 9) Prof. M. S. Dafedar, “Effect of Prandtl number on the average exit temperature of coolant in a heat-generating vertical parallel plate channel: A conjugate analysis”, *Heat Transfer Asian Research*, 2017.
- 10) Prof. M. S. Dafedar, “Heat transfer analysis of plain and dimpled tubes with different spacings”, *Heat Transfer Asian Research*, 2017.

- 11) Prof. M. S. Dafedar, "Experimental Thermal Investigation of CuO-W Nanofluid in Circular Minichannel, *AMSE Journals-AMSE IETA publication-2017-Series: Vol. 86; N°2; pp 335-344.*
- 12) Prof. M. S. Dafedar, "Computational Fluid Dynamics in Turbomachinery: A Review of State of the Art", Springer, *ISSN 1134-3060, 2016.*
- 13) Prof. M. S. Dafedar, "Thermal performance characteristics of liquid sodium as a coolant flowing past a rectangular nuclear fuel element", *Int. J. Nuclear Energy Science and Technology, Vol. 10, No. 1, 2016.*

Faculty Publication 2016-17

- 1) Prof.A.S.Dhobale,“A Text book on Entrepreneurship Development”, Jatayu Publication, 2016.
- 2) Dr. S. S. Metan,“Sensitivity Analysis of shoulder joint muscles by using FEM Model”, *Biomaterials and Biomechanics in Bioengineering*, 3(02), 113-115, 2016.
- 3) Dr. B. K. Sonage, “Experimental study on collection efficiency of solar cooking system”,*International Journal of Engineering &Technology*, 4 (02), 1564-1568, 2017.
- 4) Dr. B. K. Sonage, “Failure analysis of sheet metal during deep drawing process”,*Journal of Mechatronics & Automation*, 3(3), 1-7, 2016.
- 5) Prof.S.S. Kale and Dr. B. K. Sonage, “Performance evaluation of internal combustion engine with hydrogen addition in fuel”, *International Journal of Innovative & Emerging Research*, 4(1), 206-211, 2017.
- 6) Prof. S.S.Kaleand Prof. K. A. Shaikh, “Cooling techniques for photovoltaic module for improving its conversion efficiency”, *IJMET*, 7, issue-7 2017.
- 7) Prof.S.S.Kale, “Performance evaluation of heat pipe flat plate collector using Al₂O₃-BN/H₂O Nano fluid”,*International Journal of Research and Applied Innovations*, 5, 32-36, 2016.
- 8) Prof.S.S.Kale, “Exhaust Waste Heat Recovery of IC Engine by Thermoelectric Generator”, *International Journal of Innovations in engineering and Technology*,8, Issue-2, 2017.
- 9) Prof. K. A. Shaikh, “To study behavior of materials A1S1 1050 1090 4140 using conventional quenching &nano quenching”,*IJETT*, 38 (02), August 2016.
- 10)Prof. C.V. Papade, Dr. B. K. Sonage, “A Review on Design &Analysis of Lancashire Boiler”, *International Journal of Latest Trends in Engineering and Technology*, 7, 2016.
- 11)Prof. C.V. Papade and Dr.B.K.Sonage “A Review on Revampment of Phase Change Material”,*International Journal of Engineering Trends and Technology*,38 2016.
- 12)Prof. C.V. Papade,“Analysis of Solar Dryer using TonoTherm M-65 Phase Change Material”, *Springer- Atlantis Press* 137, Pp. 35-40, 2017.
- 13)Prof. C.V. Papade,“Review Paper on Nano mixed Phase Change Material for Indoor and Outdoor Solar Cooker Application” *IJETT*, 43, 2017.

- 14) Prof. C.V. Papade, "Emission Analysis of C.I. Engine using Karanja oil and its blends", *International Journal of Engineering Trends and Technology*, 43, 2017.
- 15) Prof.C.V.Papade, "Solar powered self-balancing two wheeled vehicle using gyro sensor", *International Conference on Materials, Manufacturing and Design*, 20-21, 2016.
- 16) Prof.D.D.Bhoge and Prof.S.S.Kale, "A Review on Performance Evaluation of Vortex Tube under Different Working Parameters", *International Journal of Latest Trends in Engineering and Technology*, 7 (3), 485-490, 2016.
- 17) Prof.D.D.Bhoge and Prof.S.S.Kale, "Performance Evaluation of Compression Ignition Engine using Air, Blends of Pure Oxygen and Biodiesel", *International Conference on Advanced and Agile Manufacturing and Agile Software Development*, 2016.