

## **Journal Publications:**

1. M. Dhandayuthabani, S. Jegadheeswaran, V. Vijayan, A. Godwin antony "MATHEMATICAL PROSPECTIVE OF LATENT HEAT STORAGE SYSTEM WITH CUO MICRO PARTICLE ENHANCEMENT" **Applied Mathematics 14 2 289 - 295 MAR 2020**
2. T.R.Sathish Kumar, S.Jegadheeswaran, P.Chandramohan "PERFORMANCE INVESTIGATION ON FIN TYPE SOLAR STILL WITH PARAFFIN WAX AS ENERGY STORAGE MEDIA" **Journal of Thermal Analysis and Calorimetry 136 1 101 - 112 APR 2019**
3. Sundaramahalingam. A, Jegadheeswaran. S, Karuppasamy. K and Ponmurugan .M "INFLUENCE OF EGR ON PERFORMANCE, EMISSIONS AND COMBUSTION OF A DIESEL ENGINE OPERATED ON BLENDS OF CASTOR OIL METHYL ESTER" **International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) 9 Special Issue 1 203 - 219 JAN 2019**
4. K. Raja sekar, S. Jegadheeswaran, R. Kannan\* and P. Manigandan "PERFORATED WALL IN CONTROLLING THE SEPARATION BUBBLE DUE TO SHOCK WAVE - BOUNDARY LAYER INTERACTION" **International Journal of Turbo and Jet Engines online - FEB 2019**
5. Selvaraj Jegadheeswaran, Athimoolam Sundaramahalingam, Sanjay D. Pohekar "HIGH-CONDUCTIVITY NANOMATERIALS FOR ENHANCING THERMAL PERFORMANCE OF LATENT HEAT THERMAL ENERGY STORAGE SYSTEMS" **Journal of Thermal Analysis and Calorimetry 138 2 1137 - 1166 MAY 2019**
6. Prakash K B, Amarkarthik A, Jegadheeswaran S, Prakash S "INFLUENCE ON PERFORMANCE AND EMISSION CHARACTERISTICS OF DIESEL ENGINE BY BLENDING N-BUTANOL AND N-PENTANOL AS ADDITIVES WITH DIESEL" **Journal of Green Engineering 9 1 60 - 75 APR 2019**
7. R. Shanmuga Prakash, K. Sivakumar, S. Jegadheeswaran, A. Amarkarthik, P. Mathankumar "PARAMETERS OPTIMIZATION OF COPPER POWDER MIXED DIELECTRIC AND PURE DIELECTRIC MEDIUM IN WIRE ELECTRICAL DISCHARGE MACHINING OF AISI D3 STEEL" **AIP Conference Proceedings 2128 1 - 12 JUL 2019**
8. M. Dhandayuthabani, S. Jegadheeswaran, V. Vijayan, A. Godwin Antony "INVESTIGATION OF LATENT HEAT STORAGE SYSTEM USING GRAPHITE MICRO-PARTICLE ENHANCEMENT" **Journal of Thermal Analysis and Calorimetry - AUG 2019**
9. D. Sathish, S. Jegadheeswaran "EFFECTIVE STUDY OF THERMAL BEHAVIOR ON MEMBRANE STRATIFIED PORTABLE SOLAR POND MATERIALS" **Today:Proceedings In Press - AUG 2019**
10. Gokul L S, Jegadheeswaran S "DESIGN AND FABRICATION OF SEMI AUTOMATIC IRONING AND FOLDING MACHINE" **International Journal of**

**Mechanical and Production Engineering Research and Development (IJMPERD)**  
**Spl 1 256 - 267 JAN 2019**

11. D Sathish, S Jegadheeswaran “RELATIVE STUDY OF STEEL SOLAR POND WITH SODIUM CHLORIDE AND PEBBLES” **Materials Science for Energy Technologies 1 2 171 - 174 DEC 2018**
12. D. Sathish, R. Thirunavukkarasu, S. Jegadeeswaran, S. Periyasamy, “EXPERIMENTAL INVESTIGATION ON SHALLOW SOLAR POND USING CUO NANO PARTICLES” **Applied Mechanics and Materials 877 409 - 413 FEB 2018**
13. Prakash. K.B, Amarkarthik. A, Jegadheeswaran. S , Manojkumar P “THE PERFORMANCE AND EXERGY ANALYSIS ON VAPOUR COMPRESSION REFRIGERATION SYSTEM WITH MICRO CHANNEL CONDENSER AND THERMOSTATIC EXPANSION VALVE” **International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) 8 Special Issue 7 372 - 383 OCT 2018**
14. P. Mathan Kumar, K. Siva Kumar, A. Amar Karthik , S.Jegadheeswaran “PERFORMANCE ANALYSIS OF CU-TIB2 POWDER METALLURGY ELECTRODE ON DIAMETRAL OVERCUT AND SURFACE ROUGHNESS IN EDM OF MONEL 400TM” **International Journal of Mechanical and Production Engineering Research and Development(IJMPERD) 8 7 690 - 696 SEP 2018**
15. Balaji. J, Lawrence Xavier. M, Jegadheeswaran. S, Ravi Kumar. M Nox Pm “TRADE OFF IMPROVEMENT USING HCCI ENGINE OPERATED WITH DEE AND DIESEL” **International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) 8 7 1 - 8 OCT 2018**
16. K. Raja Sekar, S. Jegadheeswaran, R. Kannan, P. Vadivelu and G. Prasad Numerical “INVESTIGATION OF SINGLE RAMP SCRAMJET INLET CHARACTERISTICS AT MACH NUMBER 5.96 DUE TO SHOCK WAVE BOUNDARY LAYER INTERACTION LECTURE NOTES IN MECHANICAL ENGINEERING 2 INNOVATIVE DESIGN”, **Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018), 181 - 186 DEC 2018**
17. R. Thangavel, S. Jegadheeswaran , S.Deepankumar “EXPERIMENTAL INVESTIGATION ON EMISSION ANALYSIS OF MULTI-CYLINDER DIRECT INJECTION DIESEL ENGINE USING MANIFOLD INJECTION OF ETHANOL” **International Journal of Mechanical and Production Engineering Research and Development(IJMPERD) 8 7 704 - 710 OCT 2018**
18. Thangavel. R ,S. Jegadheeswaran “NUMERICAL SIMULATION OF FLOW OF INJECTED ETHANOL AND AIR IN THE INTAKE SYSTEM OF A DUEL FUEL DIRECT INJECTION DIESEL ENGINE USING CFD” **International Journal of Mechanical and Production Engineering Research and Development(IJMPERD) 8 No.7 1159 - 1171 OCT 2018**

19. P. Mathankumar, K. Sivakumar, A. Amarkarthik "EFFECT OF EDM PROCESS PARAMETER ON MACHINING OF OHNS STEEL USING CU-CRB2 ELECTRODE" **International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) 9 1 309 - 315 DEC 2018**
20. N Santhosh , S Jegadheeswaran , A Amarkarthik, S Kaushik "PERFORMANCE OF ARTIFICIAL NEURAL NETWORK IN PREDICTION OF HEAVE DISPLACEMENT FOR NON BUOYANT TYPE WAVE ENERGY CONVERTER" **IET Renewable Power Generation 11 1 81 - 84 2016**
21. D.Sathish,T.R.Sathish Kumar, S. Jegadheeswaran "EXPERIMENTAL AND THEORETICAL STUDY ON EFFICIENCY OF PORTABLE MINI SOLAR POND USING DISSIMILAR SALTS" **Pakistan Journal of Biotechnology 13 1 15 - 20 2016**
22. V C Uvaraja, N Natarajan, K Sivakumar, S Jegadheeswaran "TRIBOLOGICAL BEHAVIOUR OF HEAT TREATED AL 7075 ALUMINIUM METAL MATRIX COMPOSITES" **Indian Journal of Engineering 22 51 - 61 FEB 2015**
23. S.P. Jesumathy, M. Udayakumar, S. Suresh, S. Jegadheeswaran "AN EXPERIMENTAL STUDY ON HEAT TRANSFER CHARACTERISTICS OF PARAFFIN WAX IN HORIZONTAL DOUBLE PIPE HEAT LATENT HEAT STORAGE UNIT" **Journal of the Taiwan Institute of Chemical Engineers 45 4 1298 - 1306 APR 2014**
24. A. Arid, T. Kousksou, S.Jegadheeswaran, A. Jamil, Y. Zeraouli "NUMERICAL SIMULATION OF ICE MELTING NEAR THE DENSITY INVERSION POINT UNDER PERIODIC BOUNDARY CONDITION" **Fluid Dynamics and Material Processing 8 3 257 - 275 2012**
25. S.Jegadheeswaran, S.D.Pohekar, T.Kousksou "CONDUCTIVITY PARTICLES DISPERSED ORGANIC AND INORGANIC PHASE CHANGE MATERIALS FOR SOLAR ENERGY STORAGE"-**An Exergy Based Comparative Evaluation Energy Procedia 14 1 643 - 648 2012**
26. S. Jegadheeswaran, T. Kousksou, S. D. Pohekar "INVESTIGATIONS ON THERMAL STORAGE SYSTEMS CONTAINING MICRON-SIZED CONDUCTING PARTICLES DISPERSED IN A PHASE CHANGE MATERIAL" **Materials for Renewable and Sustainable Energy 1 1 1 - 16 DEC 2012**
27. T. Kousksou, A. Jamil, A. Arid, S. Jegadheeswaran, Y. Zeraouli "CRYSTALLISATION KINETICS WITH NUCLEATION PHENOMENON: ICE SLURRY SYSTEM" **International Journal of Refrigeration 35 7 1921 - 1930 JUN 2012**
28. S.Jegadheeswaran, S.D. Pohekar, T.Kousksou "PERFORMANCE ENHANCEMENT OF SOLAR LATENT HEAT THERMAL STORAGE SYSTEM WITH PARTICLE DISPERSION" **Clean-Soil Air Water 39 10 964 - 971 JUN 2011**
29. T. El Rhafiki a , T. Kousksou, A. Jamil, S. Jegadheeswaran, S.D. Pohekar, Y. Zeraouli "CRYSTALLIZATION OF PCMS INSIDE EMULSION: SUPERCOOLING PHENOMENON" **Solar Energy Materials and Solar Cells 95 9 2588 - 2597 MAR 2011**

- 30. S. Jegadheeswaran, S.D. Pohekar, T. Kousksou “EXERGY BASED PERFORMANCE EVALUATION OF LATENT HEAT THERMAL STORAGE SYSTEM”: A Review Renewable and Sustainable Energy Reviews 14 9 2580 - 2595 JUL 2010**
- 31. S. Jegadheeswaran, S. D. Pohekar “ENERGY AND EXERGY ANALYSIS OF PARTICLE DISPERSED LATENT HEAT STORAGE SYSTEM” International Journal of Energy and Environment 1 3 445 - 458 2010**
- 32. S. Jegadheeswaran, S. D. Pohekar Exergy “ANALYSIS OF PARTICLE DISPERSED LATENT HEAT THERMAL STORAGE SYSTEM FOR SOLAR WATER HEATERS” Journal of Renewable and Sustainable Energy 2 2 23105 - APR 2010**
- 33. S. Jegadheeswaran, S.D. Pohekar “PERFORMANCE ENHANCEMENT OF LATENT HEAT THERMAL STORAGE SYSTEM”: A Review Renewable and Sustainable Energy Reviews 13 9 2225 - 2244 DEC 2009**