

## **Dr.K.Karuppasamy, Publication Details**

### **International Conferences Participated:**

1. Anu Nair P, Karuppasamy K, (2015), "Experimental Approach of Natural Convection Heat Transfer In Vertical Channel With Horizontal Heated Plate At Small Height Ratio", International Conference on Emerging Trends in Technology and Applied Sciences (ICETTAS'15) organized by Saintgits College of Engineering, Kottayam, Kerala during April 30<sup>th</sup> to 2<sup>nd</sup> May 2015.
2. Praksah P, Karuppasamy K, (2015), "Influence of combined inserts on heat transfer enhancement in circular tube equipped with inserts", International Conference on Recent Advancements in Mechanical Engineering and Technology, organized by Arupadi Veedu Institute of Technology, Kancheepuram, during 23<sup>rd</sup> to 24<sup>th</sup> April 2015.

### **Publications:**

#### **a. International Journals:**

1. Sharon, H., Karuppasamy, K., Soban Kumar, D. R., Sundaresan, A., A test on DI diesel engine fueled with methyl esters of used palm oil, Renewable Energy, Vol. 47, pp.160—166, 2012.
2. Sharon, H., Jayaprakash, R., Karthigai selvan, M., Soban kumar, D. R., Sundaresan, A., Karuppasamy, K., Biodiesel production and prediction of engine performance using SIMULINK model of trained neural network, Fuel, Vol:99, pp.197–203, 2012.
3. Karuppasamy, K., Syed Abu Thaheer A., Ahmed Basha, C. and Manivannan A., Effect of biodiesel blends on single cylinder DI diesel engine and optimization using Response Surface Methodology, European Journal of Scientific Research, Vol. 84 No. 3, pp.365-376, 2012.
4. Karuppasamy, K., Syed Abu Thaheer, A. and Ahmed Basha, C., Biosynthesis and characterization of biodiesel from cottonseed oil using pseudomonas fluorescences lipase and the performance of its blend (B20) in diesel engine, Chemical and Biochemical Engineering quarterly, Vol.27, No.2, 2013.
5. Vinoth, T., Karuppasamy, K., Santhosh Kumar, D., and Dhanuskodi, R., "Numerical investigation of heat and mass flux effects on heat transfer characteristics of supercritical water in an upward flow vertical tube", Applied Mechanics and Materials Vols. 592-594, pp. 1667- 1671, 2014.
6. Sivaram AR., Karuppasamy K., Rajavel R., Jagadesh Vikram, C., "Performance analysis of a inverted downdraft biomass wood stove", International Journal of Mechanical Engineering and Technology, Volume 6, Issue 8, Aug 2015, pp. 144-155.
7. N Sathya, K Karuppasamy, P Suresh, Asan K Mohideen, Vijaya P Kumar, N Rathika, "Curvelet Transform based Enhancements on Retinal Blood Vessel Segmentation Compared with Contourlet Transform ", Asian Journal of Research in Social Sciences and Humanities, 2016, Vol.6, Issue.9, pp. 1344-1358
8. Karuppasamy, K., Chandrasekhar, S., Sathiyamoorthy K., "The Impact of various Nano Additives Blended with Diesel and Biodiesel on DI Diesel Engine Performance, Combustion and Emission Parameters-A Mini-Review", Asian Journal of Research in Social Sciences and Humanities, 2017, Vol. 7, (2), pp.483-496.
9. S. Chandra Sekhar, K.Karuppasamy and K.Sathiyamurthy, "Study on Optimization of Cottonseed oil Transesterification Process", International Journal of ChemTech Research, 2017, Vol. 10(5): pp.122-130.
10. N Sathya, K Karuppasamy, P Suresh, 'Contourlet transform and morphological reconstruction based retinal blood vessel segmentation' International Journal of Biomedical Engineering and Technology, 2017 vol.25 No.(2-4), pp.105-119.

11. Chandra Sekhar S, Karuppasamy K, Vedaraman N, Kabeel A.E., Ravishankar Sathyamurthy, Medhat Elkelawy, Hagar Alm EIDin Bastawissi, "Biodiesel production process optimization from *Pithecellobium dulce* seed oil: Performance, combustion, and emission analysis on compression ignition engine fuelled with diesel/biodiesel blends", *Energy Conversion and Management*, 2018, Vol.161, pp.141–154.
12. Medhat Elkelawy, Hagar Bastawissi, S. Chandra Sekar, K. Karuppasamy, N. Vedaraman, Karuppiah Sathiyamoorthy, Ravishankar Sathyamurthy, "Numerical and Experimental Investigation of Ethyl Alcohol as Oxygenator on the Combustion, Performance, and Emission Characteristics of Diesel/Cotton Seed Oil Blends in Homogenous Charge Compression Ignition Engine". SAE Technical Paper 2018-01-1680, 2018, <https://doi.org/10.4271/2018-01-1680>.
13. Sundaramahalingam A., Jegadheeswaran S., Karuppasamy K., 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)* 2019,m Vol. pp. 204- 217 Vol. 9 (1), Jan 2019, 203-219.

#### **b. National Journals:**

1. Vinukumar, K., Karuppasamy, K., Jegesh David, M., Vedaraman, N., "Design of combustor fueled with methyl esters of cottonseed oil" *CiiT International Journal of Programmable Device Circuits and Systems*, vol.3, No.10, 2011.
2. Sivaram AR., Karuppasamy K., Rajavel R., Arun Prasad B., "Experimental Investigations on the Performance of a Water Heater using Waste Heat from an Air Conditioning System", *Indian Journal of Science and Technology*, Vol 8(36), DOI:10.17485/ijst/2015/v8i36/88473, December 2015.

#### **Conferences**

##### **a. International Conferences:**

1. Ramesh, AS, Karuppasamy K, "Hydraulic and thermal characterization of a cryogenic feed circuit" INCOTEE 2011, Kalasaligam University, Srivilliputur, Tamilnadu, 24-26 th March 2011.
2. Arun, S., Karuppasamy K, "Optimization of Rocket Nozzle parameter to augment static thrust" ICCIAMR 2012, at Dr. MGR University, Chennai, 19-20 April 2012.
3. Yogesh P., Karuppasamy K, "Performance and emission characteristics of biodiesel-Butanol blended fuel in CI engine" ICCIAMR 2013, at Dr. MGR University, Chennai 5&6 th April 2013.
4. Ramesh Babu, S., Karuppasamy K, "Experimental analysis of on shell and tube heat exchanger with titanium dioxide and water + ethylene glycol nanofluid", first international conference on innovation at explorations in computing electrical, electronics, mechanical and civil technologies at Holycross Engineering college, (ICCICMET14) Thoothukudi, Tamilnadu, 22 nd March 2014.
5. Selva Ganapathy V., Karuppasamy K, "Comparative studies of pungamia bio diesel derived from pyrolysis & Trans esterification and its performance studies in diesel Engine", ICCICMET14, at Holycross Engineering college, (ICCICMET14) Thoothukudi, Tamilnadu, 22 nd March 2014.
6. Vinoth, T., Karuppasamy K, "Numerical investigation on heat transfer characteristics of super critical water in a upward flow vertical tube" ICCICMET14, at Holycross Engineering college, (ICCICMET14) Thoothukudi, Tamilnadu, 22 nd March 2014.

##### **b. National Conferences:**

1. Prabhu, N., Karuppasamy K, "Impact of water-biodiesel emulsion fuel with nano-additive on the performance of diesel engine", OPTTEST 2014, at Bannari Amman institute of Technology, Sathiyamangalam, Tamilnadu, 04-05 th April, 2014.

2. Satheeskumar, S., Karuppasamy K, "Theoretical Analysis of cascade Refrigeration system", RAIME'14, National Engineering College, Kovilpatti, Tamilnadu, 28 th March, 2014.
3. Sivaram, AR., Karuppasamy K, "Performance analysis of a water heater using waste heat from an Air conditioning system", RAIME'14, National Engineering College, Kovilpatti, Tamilnadu, 28 th March, 2014.
4. Sarathkumar, P., Karuppasamy K, "Experimental analysis of solar pond using encapsulated PCM", RAIME'14, National Engineering College, Kovilpatti, Tamilnadu, 28 th March, 2014.
5. Jeyasri, J., Karuppasamy K, Performance Analysis of a Gasketed plat heat Exchanger by Varying port diameter" DISENO'2K14, Adhiyamaan College of Engineering, Hosur, Tamilnadu, 26 th Feb' 2014.
6. Sundaramahalingam, A., Karuppasamy K, "synthesis of biodiesel from castor oil and its combustion studies in diesel engine" Eighth national conference on optimization techniques in engineering sciences and technologies, (OPTTEST 2014) at Bannari Amman institute of Technology, Sathiyamangalam, pp.301-309, 2013.
7. Ajith Rathina Kumar, P., Karuppasamy K, "Effect of injection timing on the performance of DI diesel engine with Tamnu oil Biodiesel", RAIME'13, National Engineering College, Kovilpatti, Tamilnadu, 16-17 th April, 2013.
8. Deepa, N., Karuppasamy K, "Performance, combustion and emission characteristics of diesel engine using rice bran oil methyl ester blend" RAIME'13, National Engineering College, Kovilpatti, Tamilnadu, 16-17 th April, 2013.
9. Ram senthil Murugan, K., Karuppasamy K, "Developing a dual axis solar tracking system based on solar mapping and controlled by micro controller", RAIME'13, National Engineering College, Kovilpatti, Tamilnadu, 16-17 th April, 2013.
10. Pratheesh, J P., Karuppasamy K, "Development of small domestic wind turbine tower and blades systems: An optimization approach", Emerging technology in mechanical science and Engineering, Noorul Islam university, Nagarcoil, Tamilnadu, March 2013.
11. Chadrasekar S., Karuppasamy K, "The performance and Emission characterstics of DI diesel engine fueled with blends of diesel-biodiesel-ethanol", RRME'12, 21 st April 2012.
12. Deepak Kumar, R., Karuppasamy K, "Computational Analysis of Combustion in single cylinder DI diesel engine", RRME'12, 21 st April 2012.
13. Vinukumar, K., Karuppasamy K, "Production of Biodiesel obtained from cotton seed oil", NCOMM 2011, 18 th March 2011.
14. Prakash,T., Karuppasamy K, "Design of Radiator for 150cc four stroke engine", NCIMMBS-2011, 29 th & 30 th April 2011.
15. Arunraj, T., Karuppasamy K, "Thermal behavior of municipal solid waste feed long stick biomass gasifier" NCIME 2011, 26 th March 2011