

Faculty Profile



Name of the Faculty : Dr A.VELMURUGAN

Designation : ASSOCIATE PROFESSOR(Deputed by Annamalai University)

Department: Mechanical Engineering

Date of Joining : 16/07/2017

Faculty ID AICTE ID: 1-3536235256,

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E-Mail Address : velathi.lec@gmail.com

Qualification : PhD

Specialization : Thermal Engineering, Internal Combustion Engine, Alternative fuels

Professional Experience: 17 years

Research Guidance: Yes (1 student pursuing)

Publications:

(i) International Journals :

1. **Velmurugan. A, Loganathan. M** “Performance and Emission Characteristics of a DI Diesel Engine Fuelled with Cashew Nut Shell Liquid (CNSL)-Diesel Blends” International Journal Of Chemical and Environmental Engineering, issue 58. **PISSN** 2010-376X and **EISSN** 2010- 3778.
2. **Velmurugan. A and Loganathan.M,** “Effect of Ethanol Blending with Cashew Nut Shell Liquid (CNSL) Bio diesel on Engine Performance and Exhaust Emission in a CI Engine,” International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 7, Number 10 (2012) pp. 1089-1099.
3. **Velmurugan. A and Loganathan.M,** “Effect of Ethanol Addition with Cashew Nut Shell Liquid on Engine Combustion and Exhaust Emission in a DI Diesel Engine,” International Journal of Engineering Science and Technology (IJEST), ISSN: 0975-5462 Vol. 4 No.07 July 2012 pp. 3318.
4. Velmurugan. A, Loganathan. M “Performance and Emission Characteristics of a DI Diesel Engine Fuelled with Cashew Nut Shell Liquid (CNSL)-Diesel Blends” World Academy of Science, Engineering and Technology, (WASET), 58 (2011).
5. Velmurugan. A and Loganathan.M, Jamesgunasekran. E, “Experimental investigations on combustion, performance and emission characteristics of thermal cracked cashew nut shell liquid (TC-CNSL)–diesel blends in a diesel engine,“**Fuel ELSEIVER**”, 132 (2014): 236–245.
6. Velmurugan A., Loganathan M., Anbarasu A. The Role of Alcohol Additives for Thermal Cracked Cashew Nut Shell Liquid Fuel in Direct Injection Diesel Engine International Review of Mechanical Engineering (I.R.E.M.E.), 8.5, (2014).
7. A.VELMURUGAN, M. LOGANATHAN, E. JAMES GUNASEKARAN Prediction of performance, combustion and emission characteristics of diesel-thermal cracked cashew nut shell liquid blends using artificial neural network Frontiers Energy (SPRINGER) 2016, 10(1): 114 –124
8. M. LOGANATHAN, A. VELMURUGAN, TOM PAGE, E. JAMES GUNASEKARAN, P. TAMILARASAN Combustion analysis of a hydrogen-diesel fuel operated DI diesel engine with exhaust gas recirculation Frontiers Energy (SPRINGER) 2017, 11(4): 568 –574
9. T. V. Rajamurugan*, A. Velmurugan, K. Syedjafar, and N. Muthukumaran Sensitivity Analysis of Delamination Factor in Drilling GFR Polyester Composites Using Brad and Spur Drill Journal of Advanced Microscopy Research Vol. 13, 1–9, 2018

10. A. Velmurugan , T.V. Rajamurugan Performance and Emission Characteristics of Single Cylinder Combustion Ignition Engine by Using Tamarind Seed Oil Blend with Diesel International Innovative Research journal of Engineering and Technology ISSN: 2456-1983 Vol: 4 Special Issue 2018
11. Ravikumar Sankaralingam a, c , Balasubramanian Sengottuvelan b , Pranesh Venkat c, * , Mahalingam Selvaraj d , Velmurugan Arunachalam e, f , Jeyakumaran Natarajan g Experimental investigation on varying flame characteristics of benzoic resin solid fuel pellets “**Renewable Energy ELSEIVER**” Volume 147, Part 1, March 2020, Pages 1500-1510
12. M. Loganathana,* , V. Thanigaivelanb , V.M. Madhavanc , A. Anbarasud , A. Velmurugan The synergetic effect between hydrogen addition and EGR on cashew nut shell liquid biofuel-diesel operated engine ,“**Fuel ELSEIVER**”, 266 (2020) 117004
13. K.Balasubramanian, Dr. A.Velmurugan Performance, Combustion And Emission Characteristics of Diesel Engine Using Aloe vera Biodiesel 2019 JETIR June 2019, Volume 6, Issue 6 www.jetir.org (ISSN-2349-5162)

(ii) International Conferences:

1. Velmurugan.A and Loganathan.M “ Performance and Emission characteristics of Cashew Nut Shell Liquid(CNSL) operated CI engine- Presented in the International Conference of World Academy of Science and Engineering Technology, September 28-30,2011,Singapore.
2. Velmurugan.A, loganathan.M , “performance and emission evaluation of a diesel engine fueled with cashew nut shell liquid (CNSL) -diesel blends, international conference of mechanical and civil Engg VIT,inda.