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Present Position

Professor, Department of Automobile Engineering, Madras Institute of Technology, Anna University, Chennai from October-2015.

Previous Positions

- > Assistant Professor, Department of Automobile Engineering, Madras Institute of Technology, Anna University, Chennai during October-2009 and October-2012.
- > Associate professor, Department of Automobile Engineering, Madras Institute of Technology, Anna University, Chennai during October-2009 and October-2015.

Previous Additional Responsibility

- > , , Anna University, Chennai.
- > , , Anna University, Chennai.

Other Employment

- > Assistant Professor, Ecole Des Mines de Nantes, FRANCE for 3 Years.
- > Post Doctoral Researcher, Ecole Des Mines de Nantes, FRANCE for 2 Years.
- > Senior Lecturer, Sri Venkateswara College of Engineering, Sriperumputhur, Chennai for 4 Months.
- > Lecturer, Shanmuga College of Engineering, Thanjavur, Tamilnadu. for 2 years.

Degree

- ❖ M.E. in MECHANICAL ENGINEERING , MADRAS INSTITUTE OF TECHNOLOGY, CHROMEPET, ANNA UNIVERSITY, CHENNAI (1994 - 1996).
- ❖ B.E. in MECHANICAL ENGINEERING , THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI., MADURAI KAMRAJ UNIVERSITY, MADURAI, INDIA. (1989 - 1993).

Research Degree

- ❖ Postdoctoral Research in IC ENGINES from Faculty of ENERGY ENGINEERING, ECOLE DES MINES DE NANTES, ECOLE DES MINES DE NANTES, FRANCE (2003 - 2005).
Title: INVESTIGATIONS ON THE EFFICIENT USE OF ANIMAL FAT EMULSIONS AS FUEL IN CI ENGINES.
- ❖ Ph.D. in IC ENGINES from Faculty of MECHANICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI, INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI (1998 - 2003).
Title: EXPERIMENTAL INVESTIGATIONS ON THE EFFICIENT USE OF VEGETABLE OIL (JATROPHA OIL) IN A COMPRESSION IGNITION ENGINE..

Research Guidance

Number of Ph.D Scholars Guided	: 4
Number of Ph.D Scholars Guiding	: 5
Number of M.E./ M.Tech. Projects Guided	: 30
Number of M.E./ M.Tech. Projects Guiding	: 1

Papers Published in Journals

Research Papers Published in International Journals	: 33
Research Papers Published in National Journals	: 0

1. "M. Senthil Kumar and M. Jaikumar (2014), Studies on the effect of Hydrogen induction on performance, emission and combustion behavior of a WCO emulsion based Dual Fuel Engine. International Journal of",
2. "M. Senthil Kumar, A. Ramesh, B. Nagalingam. (2001) Experimental investigations on a Jatropa oil methanol dual fuel engine. New developments in alternative fuels for IC engines (SP-1608), Society of A", (2001).
3. "M. Senthil Kumar, A. Ramesh, B. Nagalingam (2001) Complete vegetable oil fueled compression Ignition Engine. Society of Automotive Engineers, 2001- 28 - 0067, 2001. USA.", (2001).
4. "M. Senthil Kumar, A. Ramesh, B. Nagalingam. (2001) Investigations on the use of Jatropa oil and its methyl ester as a fuel in a compression ignition engine. Journal of the Institute of Energy, 174, 2", (2001).
5. "M. Senthil Kumar, A. Ramesh, B. Nagalingam (2003) An experimental comparison of methods to use methanol and Jatropa oil in a compression ignition engine. Journal of Biomass and Bio Energy, vol 25, 30", (2003).
6. "M. Senthil Kumar, A. Ramesh, B. Nagalingam (2003) Use of Hydrogen to enhance the performance of a vegetable oil fuelled Compression Ignition engine. International Journal of Hydrogen Energy, vol 28, 1", (2003).

7. "M. Senthil Kumar, A. Kerihuel, J. Bellettre and M. Tazerout (2005) Investigations on the use of preheated animal fat as fuel in a diesel engine. Journal of Renewable Energy, Vol 30, 9, 1443-1456, 2005", (2005).
8. "A. Kerihuel, M. Senthil Kumar, J. Bellettre and M. Tazerout (2005) Experimental Investigations on a compression ignition engine using animal fat emulsions as fuel with water and methanol. Society of A", (2005).
9. "A. Kerihuel, M. Senthil Kumar, J. Bellettre and M. Tazerout (2005) Use of Animal Fats as CI Engine fuel by making stable emulsions with water and methanol. Journal of Fuel, Vol. 84, 1713-1716, 2005.", (2005).
10. "M. Senthil Kumar, A. Kerihuel, J. Bellettre and M. Tazerout (2005) Effect of Water/Methanol fractions on the performance of a compression ignition engine. Journal of the Institute of Mechanical Engine", (2005).
11. "Kerihuel. A, M. Senthil Kumar, J. Bellettre and M. Tazerout (2006). Ethanol Animal Fat emulsions as a Diesel engine Fuel – Formulations and Influential Parameters (Part 1), Fuels, Vol.85, No.17-18, pp", (2006).
12. "M. Senthil Kumar, A. Kerihuel, J. Bellettre and M. Tazerout (2006). Ethanol Animal Fat emulsions as a Diesel engine Fuel – Engine Test Analysis (Part 2). Fuels, Vol.85, No.17-18, pp. 2646-2652, USA. ", (2006).
13. "M. Senthil Kumar, A. Kerihuel, J. Bellettre and M. Tazerout (2006). A Comparative study of different methods on combustion and emission characteristics of an Animal fat based compression ignition engi", (2006).
14. "M. Senthil Kumar, J. Bellettre and M. Tazerout (2010). Use of Biofuel emulsions as fuel for diesel engines – A Review, Journal of the Institute of Mechanical Engineers, Part A, JPE 758, Volume 223, pp", (2010).
15. "M. Senthil Kumar, A. Ramesh, B. Nagalingam (2010) A Comparison of the Different Methods of using Jatropha oil as fuel in a compression Ignition Engine. - ASME Journal of Gas turbines and Power, Volume", (2010).
16. "M. Senthil Kumar, (2010) Preparation, Characterization and Engine Test Analysis of Methyl Esters of Unrefined Palm oil and D-Limonene Oil Mixture as CI Engine Fuel. Society of Automotive Engineers, 20", (2010).
17. "M. Senthil Kumar, M. Tazerout and N. Pascal, (2010), Performance and Emission Studies on a CI Engine Using Methyl Esters of Palm Oil and Waste Cooking Oil Mixture as Fuel. Journal of Biofuels. Vol 1, ", (2010).
18. "M. Senthil Kumar, A. Ramesh, B. Nagalingam and M.Tazerout (2011) A Comparative Study On Performance Emission and Combustion Characteristics of A Dual Fuel engine Fuelled with Orange Oil and Jatropha O", (2011).
19. "M. Senthil Kumar, (2012) Effect of Hydrogen Induction on Combustion Characteristics of a Dual Fuel Engine Fuelled with Diesel and Hydrogen. Society of Automotive Engineers. Paper No. 2012–32–0034.", (2012).

20. " M. Senthil Kumar and M. Jaikumar (2014), Studies on the effect of Hydrogen induction on performance, emission and combustion behavior of a WCO emulsion based Dual Fuel Engine. International Journal", (2014).
21. "M. Senthil Kumar and M. Jaikumar (2014), Studies on the effect of Hydrogen induction on performance, emission and combustion behavior of a WCO emulsion based Dual Fuel Engine. International Journal of", (2014).
22. " 22. M. Senthil Kumar and M. Jaikumar (2014), Studies on the effect of Hydrogen induction on performance, emission and combustion behavior of a WCO emulsion based Dual Fuel Engine. International Journ", (2014).
23. " 23. M. Senthil Kumar (2014), 'Influence of Methanol Induction on Performance, Emission and Combustion Behavior of a Methanol - Diesel Dual Fuel Engine'. SAE 2014-01-1315. ", (2014).
24. "M. Senthil Kumar and K.Venkatesan (2014), Experimental Investigations on a Diesel Engine Using Coconut Shell Pyro Oil (CSPO) – Diesel Blends as Fuel. SAE 2014-01-1377", SAE 2014-01-1377, published by SAE. (2014).
25. M.Jaikymar, " M. Senthil Kumar, A Comprehensive study on performance, Emission and Combustion behavior of a Compression Ignition Engine Fuelled with WCO Emulsions as Fuel. Journal of the ", Journal of the Energy Institute, UK, published by Elsevier Ltd on behalf of Energy Institute. Vol. 87, Issue 3, pp. 263-271 (2014).
26. "M. Senthil Kumar and K.Venkatesan (2014), Experimental Investigations on a Diesel Engine Using Coconut Shell Pyro Oil (CSPO) – Diesel Blends as Fuel. Transactions of Society of Automotive Engineers", (2014).
27. "M. Senthil Kumar (2014), 'Influence of Methanol Induction on Performance, Emission and Combustion Behavior of a Methanol - Diesel Dual Fuel Engine'. Transactions of Society of Automotive Engineers,", Technical Papers of Society of Automotive Engineers, USA, published by Society of Automotive ENgineers. (2014).
28. "M.Senthilkumar, K. Venkatesan (2015), A Comprehensive Assessment on Performance Behavior of a CI Engine Using Bio oil Emulsions (PJSO10, KSO10 and CSO10) as Fuels. Journal of Mechanical Science and Te", (2015).
29. "G. Mathiselvan, M. Senthil Kumar, K. Venkatesan, (2015) Effect Of Temperature And Particle Size in Biomass Pyrolysis and Properties Of Bio Oil. International Journal of Applied Engineering Research, I", (2015).
30. " K. Venkatesan and M. Senthil Kumar (2015), Combustion Studies on a CI engine Using Bio oil Obtained From Pyrolysis of Prosopis Juliflora as Fuel. International Journal of App.Engg research. 10, 19 ", (2015).
31. "M.Senthil Kumar, K.Venkatesan (2015), Assessment of Performance, Emission and Combustion Behaviour of a WCO Based Diesel Engine Using Oxygen Enrichment Technique. SAE 2015-01-0895.", (2015).
32. " M.Senthil Kumar, S..Arul selvan (2015), A Comparative Study on the Effect of Alcohol Addition and Induction on Performance Behavior of a CI engine fueled with "Madhuca Indica" As fuel. SAE 2015-01-08", (2015).

33. " M. Senthilkumar and N. Sasikumar, Influence of Oxygen Enriched Combustion on Performance, Emission and Combustion Behaviour of a CI Engine Fuelled with Pyro oil – Diesel Blend as Fuel. SAE 2016-01-0", (2016).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 1
Research Papers Presented in National Programmes : 0

1. on M. Senthil Kumar, A.Ramesh, B.Nagalingam, K.V.Gopalakrishnan. (2000) Performance studies on a CI engine using methyl ester of Jatropha oil as fuel. XVI National conference on I.C.Engines and Combustion , Calcutta, India, January 2000, 89-94, INDI.

Current Sponsored Projects

1. "Development of a high performance diesel engine fuelled completely with Vegetable oil micro emulsions as Fuel" (December-1969 - December-1969). Project Cost: 1800000.00.

Sponsored Projects Completed

1. "Development of a High performance Diesel engine Fuelled Completely with Green Diesel produced from Pyrolysis of Biomass Waste" (March-2016 - March-2018). Project Cost: 1100000.00.

Programme Organized

1. International level conference.

Honours

1. "POST DOCTORAL FELLOWSHIP" given by ECOLE DES MINES DEE NANTES, NANTES from FRANCE (2004).

Experience Abroad

1. Visited ECOLE DES MINES DE NANTES, NANTES, FRANCE from 05-Jan-2004 to 28-Feb-2006. Purpose of visit :POST DOCTORAL FELLOWSHIP.
2. Visited ECOLE DES MINES DE NANTES, NANTES, FRANCE from 01-Sep-2006 to 31-Aug-2009. Purpose of visit :ASSISTANT PROFESSOR.