

Cellphone : 9443947722

e-Mail ID : drpsk@mitindia.edu

Address : #3, Sri Vaari Apartments, 1st street Mageshwari
nagar, Hastinapuram Chrompet Chennai - 64



Present Position

Assistant Professor, Department of Automobile Engineering, Madras Institute of Technology, Anna University, Chennai from October-2009.

Previous Positions

- > Visiting Faculty, Department of Automobile Engineering, Madras Institute of Technology, Anna University, Chennai during January-2006 and October-2009.
- > Visiting Faculty, Department of Production Technology, Madras Institute of Technology, Anna University, Chennai during July-2004 and January-2006.

Previous Additional Responsibility

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

Other Employment

- > Lecturer (Contract), Coimbatore Institute of Technology for 5 years.

Degree

- ❖ M.E. in Refrigeration and Air conditioning, COIMBATORE INSTITUTE OF TECHNOLOGY, BHARATHIYAR UNIVERSITY (1997 - 1999).

Research Degree

- ❖ Ph.D. in Internal Combustion Engines from Faculty of Mechanical Engineering, Madras Institute of Technology, Anna University (2003 - 2009).
Title: Theoretical and Experimental Investigation of Performance and Emission Characteristics of Aquanol in a Single Cylinder 4-Stroke Diesel Engine.

Area of Specialisation

- > I.C Engines, Automotive materials, Pollution control and Alternate Fuels

Membership in Professional Organization

- > SAE

Research Guidance

Number of Ph.D Scholars Guided	: 2
Number of Ph.D Scholars Guiding	: 10
Number of M.E./ M.Tech. Projects Guided	: 28
Number of M.E./ M.Tech. Projects Guiding	: 4
Number of Ph.D Scholars Guiding as Joint-Supervisor	: 1

Papers Published in Journals

Research Papers Published in International Journals	: 23
Research Papers Published in National Journals	: 0

1. Dhandapani Kannan, Senthilkumar Pachamuthu, Md. Nurun Nabi, Johan Einar Hustad and Terese Løvås,, " Theoretical and experimental investigation of diesel engine performance, combustion and emissions analysis fuelled with the blends of ethanol, diesel and jatropha methyl ester", 4. Journal of Energy Conversion and Management, published by Elsevier. Vol. 53, pp. 322-331 (2009).
2. S.Prabhakar, V.N.Banugopan, K.Annamalai, G.Devaradjane, S.Jeyaraj, P.Senthil kumar and H.John, " Effect of injection time on the performance and emissions of non-edible nerium bio-diesel operated diesel engine", 2. An International Journal of Applied Engineering Research, Vol. 5, Issue 14, pp. PP 2521-2531 (2010).
3. S.Prabhakar, V.N.Banugopan, K.Annamalai, G.Devaradjane, S.Jeyaraj and P.Senthil kumar, "Influence of injection timing on the performance, emissions, combustion analysis and sound characteristics of nerium biodiesel operated single cylinder four stroke cycle direct injection diesel engine", 2. An International Journal of Material science Research India, Vol. 7, pp. 201-207 (2010).
4. P.Senthil kumar, M.Natesh kumar and S.Prabhakar, "Experimental Study On Fixed guide vanes to improve the operating range of turbochargers", 3. International Journal of Physical Sciences , Vol. 23, Issue 2, pp. 365-368 (2011).
5. S. Jaichandar, P. Senthil Kumar , K. Annamalai, "Combined effect of injection timing and combustion chamber geometry on the performance of a biodiesel fueled diesel engine", 5. Journal of Energy , published by Elsevier. Vol. 47, pp. 388-394 (2012).
6. P.Senthilkumar, P. Mohamed Azarudeen, S.Prabhakar, "Experimental Investigation of Performance and Emission Characteristics of Coated Squish Piston in a CI Engine Fueled With Vegetable Oil", 6. Journal of Scientific and Industrial Research, published by Nisclair. Vol. 72, pp. 515- 520 (2013).

7. S.Jenorish Muthiya, V.Amarnath and P.Senthilkumar., "Carbon capture and storage from automobile exhaust to reduce CO₂ emission", 7. International journal of innovative research in science and engineering and technology, Vol. 2, Issue 2, (2014).
8. MohanKumar Subramaniam ,Senthilkumar Pachamuthu, Jayanth Arulanandan ,Jenoris Muthiya, " Simultaneous Reduction of HC, NO_x and PM by Using Active Regeneration Technique ", SAE Technical paper , (2015).
9. S. Jenoris Muthiya¹, P. Senthil Kumar², S. Mohan kumar³, A. Jayanth Joseph, "Investigation of effective storage capacity of lean NO_x trap coated with NO_x storage materials", Journal of Chemical and Pharmaceutical Sciences, Vol. 9, Issue 2, (2015).
10. A. Jayanth joseph¹, P. Senthil kumar², S. Jenoris Muthiya³, S. Mohan kumar⁴,, "Reduction of NO_x emissions in diesel engines by selective catalytic reduction using dual layer catalyst configurations.", Journal of Chemical and Pharmaceutical Sciences, Vol. 9, Issue 2, (2015).
11. S.Mohankumar¹, P.Senthilkumar² S.Jenoris muthiya³, A.Jayanth joseph, "Effects of thermal barrier coating on single cylinder CI engine fuelled with diesel and biodiesel", Journal of Chemical and Pharmaceutical Sciences, Vol. 9, Issue 2, (2015).
12. R.Rajesh¹, Dr.P.Senthilkumar², "Enhancing Efficiency of SI Engines using Water Induction with Assistive Hydrogen Compensation", Journal of Chemical and Pharmaceutical Sciences, Vol. 9, Issue 2, (2015).
13. Dr.P.Senthilkumar¹, R.Pradeep², E.R. Sivakumar, "Experimental optimization on durability of exhaust valves in CI engines", Journal of Chemical and Pharmaceutical Sciences, Vol. 9, Issue 2, (2015).
14. S.Mohankumar¹ and P.Senthilkumar, "Numerical and Experimental Investigation of Back pressure in Various models of Catalytic Converters", 8. International Journal of Applied Engineering Research, Vol. 10, Issue 61, (2015).
15. S.Jenorish Muthiya¹, V.Amarnath and P.Senthilkumar², " Experimental Investigation and controlling of CO₂ emission from Automobile exhaust by CCS technique", 9. International Journal of Applied Engineering Research, Vol. 10, Issue 61, (2015).
16. K. Chinnadurai¹, P. Senthilkumar, "Study of Failure Mechanisms in GFRP Laminates during Drilling by AE Technique", Journal of Chemical and Pharmaceutical Sciences, Vol. 9, Issue 2, (2015).
17. Muthusamy, S., Srinivasan, R., Naithani, U., and Pachamuthu, S, "Development and Validation of Mini-Channel Evaporator Model Integrated with TXV for R134a Mobile Air-Conditioning System", SAE Technical Paper , published by SAE. (2016).
18. T Nithiyananadam^{1*}, P Senthilkumar³ and R Selvakumar, "Effect of Injection Timing on Heat Release Rate and Emissions in a Biodiesel Fuelled & Nano Powder Coated CI Engine", Journal of Scientific & Industrial Research , Vol. 75, pp. 262-266 (2016).
19. E.R Sivakumar & P. Senthil Kumar, " Influence of Nano coating on an exhaust valve on thermal barrier coated, biodiesel fuelled CI engine", 19. Asian Journal of Research in Social Sciences and Humanities, Vol. 6, Issue 8, pp. 2472-2484 (2016).

20. V. Amarnath & P. Senthil Kumar, "Experimental Study of CO2 capture using activated carbon in IC engines", 20. Asian Journal of Research in Social Sciences and Humanities , Vol. 7, Issue 2, pp. 259-267 (2016).
21. T. Nithiyananadam , R. Selvakumar , P.Senthilkumar, "21. Asian Journal of Research in Social Sciences and Humanities", Vol. 7, Issue 1, pp. 87-95 (2016).
22. Selvaraj Mancikam & P. Senthil Kumar, "Analysis of Perfomance and Emission Characteristics Micro Explosion for Biodiesel Water Emulsions in a Compression Ignition Engine", 22. Journal of Computational and Theoretical Nano Science, Vol. 14, pp. 1-10 (2017).
23. S. Mohankumar and P. Senthilkumar, " Particulate matter formation and its control methodologies for diesel engine: A comprehensive review", 24. Renewable and Sustainable Energy Reviews, Elsevier , Vol. 80, pp. 1227-1238 (2017).

Current Sponsored Projects

1. "Experimental Investigation and controlling of Diesel Particulate Emission by Using Active Regeneration Technique", funded by University Grants Commission (Major Research Project) (July-2015 - June-2018). Project Cost: 1315000.00.

Sponsored Projects Completed

1. "Design and analysis of handling equipment for airborne dome antenna structure", funded by Centre for Airborne Systems (July-2016 - December-2016). Project Cost: 970000.00.