Dr. A. Prabu M.E., Ph.D.,

Assistant Professor,

Dept of Mechanical Engineering, SRMIST

Ramapuram Campus, Chennai -89

Email : prabua3@srmist.edu.in

Overview:-

Dr A. Prabu Working as an Assistant Professor in the Department of Mechanical Engineering at SRMIST, Ramapuram. He Graduated in Mechanical Engineering at Anna University, Chennai, Tamilnadu, India. He secured Master of Engineering in Internal Combustion Engineering at Anna University, Chennai, India. He completed his Ph.D. in the field of Alternative Fuels for I.C. Engines at National Institute of Technology, Tiruchirappalli, Tamil Nadu, India. He is in teaching profession for more than 4 years. He has presented number of papers in International Journals and Conference.

Areas of Research:

Sustainable Energy, Green Fuels, Engine Management & Integrated Energy Systems

Selected Publications:

Web of Science/SCI

1. **Prabu, A.,** Isaac premkumar, Pradeep A. (2020). Production of Ricebran biodiesel by bubble wash method. https://doi.org/10.1080/01430750.2019.1583128. **Journal of Ambient Energy**[Pub.: Springer]

2. I.J.Isaac Premkumar, **A.Prabu**, V.Vijayan, A.Godwin Antony, R.Venkatesh. (2020).Combustion analysis of biodiesel blends with different piston geometries. **Journal of Thermal Analysis and Calorimetry**, 1–11. [Pub.: Springer].

3. **Prabu, A.,** Isaac premkumar, Pradeep A. (2019). An Assessment on the Nanoparticles-Dispersed Aloe vera Biodiesel Blends on the Performance, Combustion and Emission Characteristics of a DI Diesel Engine, **Arabian Journal for Science and Engineering**. 44 (9), 7457–7463. [Pub.: Springer].

4. **Prabu, A.,** (2018). Engine characteristic studies by application of antioxidants and nanoparticles as additives in biodiesel diesel blends, **Journal of energy resource technology**,140 (8), 1-7. [Pub.: ASME].

5. **Prabu, A.,** and R.B. Anand. (2018). Effects of oxygenate additive mixture on the performanceand emission characteristics of a biodiesel fuelled Compression ignition engine. ***Australian Journal of Mechanical Engineering,*** 17(1), 8-13. [Pub.: *Taylor & Francis*]

6. **Prabu, A.,** Isaac premkumar, Pradeep A. (2018) An investigation on the performance, combustion and emission characteristics of C.I engine on the addition of antioxidants, oxygenates and nanoparticles as additives in Jatropha biodiesel. **Journal of Ambient Energy**,41(2), 121-128.

7. **Prabu, A.,** Isaac premkumar, Pradeep A (2017), The effectiveness of antioxidant additives on the oxidation stability of Jatropha Biodiesel, ***Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*** 39 (24), 2203-2209 [Pub. : *Taylor & Francis*]

8. **Prabu, A.,** (2017), Nanoparticles as additive in biodiesel on the working characteristics of a DI diesel engine, ***Ain shams engineering journal***, 9(4), 2343-2349.[Pub.: *Elsevier*]**.**

9. **Prabu, A.,** (2016), Performance and Emission Characteristics of a Diesel Engine Fueled with Antioxidants Dispersed Biodiesel and Its Blend with Diesel, ***Environmental Progress & Sustainable Energy***,36 (2), 565-570 [Pub.: *Wiley*]**.**

10. **Prabu, A.** and R. B. Anand, (2015), Emission control strategy by adding alumina and ceriumoxide nano particles in biodiesel, ***Journal of the Energy Institute***, 89 (3), 366-372. [Pub.: *Elsevier*]**.**

11. **Prabu, A.** and R. B. Anand, (2015), Inhibition of NO emission by adding antioxidant mixturein Jatropha Biodiesel on the performance and emission characteristics of a C.I. Engine, ***Frontiers in energy***, 9, 238–245. [Pub.: *Springer*]**.**

12. **Prabu, A.** and R. B. Anand, (2017), "Influence of antioxidant addition in Jatropha biodiesel on theperformance and emission characteristics of a DI diesel engine, ***Journal of The Institution of Engineers (India): Series C***, 99(2), 207–216. [Pub.: *Springer*]**.**

13. **Prabu, A.** and R. B. Anand, (2015), Influence of oxygenate additives on the performance

andemission characteristics of Jatropha fuelled direct injection diesel engine, ***Biofuels***, 5(6), 667-672. [Pub: *Taylor & Francis*]**.**

14. **Prabu, A.** and R. B. Anand, (2015), Performance, Combustion and Emission Characteristics of a D.I. Diesel Engine Fuelled with Nanoparticle Blended Jatropha Biodiesel, ***Periodica Polytechnica Mechanical Engineering***, 59, 88-93. [Pub.: *Budapest University of Technologyand Economics, Hungary*]**.**

15. **Prabu, A**. and R. B. Anand, (2014), Working Characteristics of a C.I. Engine Fuelled with Oxygenates as additives in Jatropha Biodiesel, ***Applied Mechanics and Materials***, 592-594, 1842-1846. [Pub.: *Trans Tech Publication*]

16. Arun, R., Muthe Srinivasa Rao., **Prabu, A.** and R. B. Anand, (2014), Experimental Investigation on DICI Engine by Using Chemical and Nano Additives Blended Biodiesel, ***Applied Mechanics and Materials***, 592-594, 1575-1579. [*Pub.: Trans Tech Publication*]

17. **Prabu, A.** and R. B. Anand, (2012), Production and Application of Biodiesel – A Case Study, ***International Journal of Engineering Research and Development***, 2(2), 28-41.

Books/Book Chapters Published:

1. Contributed a chapter titled **"Behaviour of Oxygenated Biofuels in Engines: Engine Features of Oxygenate Mixtures"** (Chapter 10), 2020, IGI Global, Pennsylvania

2. Contributed a Lecture Notes titled "**An Investigation on Piston Structural Analysis Related with Experimental Cylinder Pressures Using Different Biodiesel Blend Ratios"** Advancesin Industrial Automation and Smart Manufacturing, Springer, 2020. pp 929-944.

Google Scholar:

https://scholar.google.com/citations?user=5DAZzuUAAAAJ&hl=en&authuser=1