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Area of Specialization: IC Engine –Alternative fuel.

List of Publications

International Journals

1. **Mohamed Musthafa, M., S.P. Sivapirakasam and M.Udayakumar** (2009) Experimental Investigation on Effects of Mahua Methyl Ester on a Low Heat Rejection Diesel Engine. ***International Journal of Mechanical Engineering and Materials Sciences,*** **2**, 111-118.

2. **Mohamed Musthafa, M., S.P. Sivapirakasam and M.Udayakumar** (2009) Performance and Emission Characteristics of LHR CI Engine fueled by Rice Bran oil as a Biodiesel. ***International Journal of Recent Trends in Engineering and Technology***, **3**, 1-5.

3. **Mohamed Musthafa, M., S.P. Sivapirakasam and M.Udayakumar** (2010) Experimental investigation on effects of low heat rejection diesel engine running on biodiesel. ***Journal of Environmental Research and Development***, **4**, 811-822.
   [Impact factor: 1.268**]**

4. **Mohamed Musthafa, M., S. P. Sivapirakasam and M. Udayakumar** (2010)

   A comparative evaluation of Al_2O_3 coated low heat rejection diesel engine performance and emission characteristics using fuel as rice bran and pongamia methyl ester. ***Journal of Renewable Sustainable Energy***,**2, 053105**.

5. **M. Mohamed Musthafa, S.P.Sivapirakasam and M.Udayakumar** (2012)'Performance and Emission Characteristics of a Low Heat Rejection CI Engine with two Different thermal barrier Coating using Pongamia methyl ester as Fuel**'** ***International Journal of Vehicle Design,*** Vol. 59, Nos. 2/3, 182-195 [**Impact factor:0.509]**

6. **Mohamed Musthafa, M., S. P. Sivapirakasam., M. Udayakumar and K. R. Balasubramanian.** Effects of Al_2O_3 coating on diesel engine performance, combustion and emission characteristics fueled by Pongamia methyl ester and its blends with diesel. ***Environmental Progress & Sustainable Energy .*** DOI: 10.1002/ep.10534.

7. **M.Mohamed Musthafa, M., S. P. Sivapirakasamand M.Udayakumar(2011)** Comparative studies on Fly ash coated low heat rejection diesel engine on Performance,Combustion and Emission Characteristics using fuel as Rice bran and Pongamia methylester and their blends with diesel. ***Energy***, **36,** 2343-2351. [**Impact factor: 3.651]**

POST PhD PUBLICATION

1. **M.Mohamed Musthafa (2014)** Biodiesel extracted from citrus limetta seed oil as a blend with diesel oil as alternate fuel for diesel engine. ***International Journal of Modern Sciences and Engineering Technology (IJMSET)*** Volume 1, Issue 7, pp.88-97. [**Impact factor: 3.094 from SJIF]**
2. **M.Mohamed Musthafa (2015)** Enhancing Photoelectric Conversion Efficiency of Solar Panel by Water Cooling. ***Fundamentals of Renewable Energy and Applications*** Volume 5, Issue 2, doi:10.4172/20904541.1000166.
3. **K. Dhanasekaran, M. Mohamed Musthafa and M. Dharmendirakumar(2016)** Processing and Characterization of Biodieselfrom Sweet Orange (Citrus Sinensis) seed oil**.** ***Energy Sources, Part A: Recovery, Utilization, and Environmental Effects Recovery, Utilization, And Environmental Effects***, VOL. 38, NO. 17, 2582–2589 DOI:10.1080/15567036.2015.1075089.
4. **M.Mohamed Musthafa (2016)** NOx Reduction Approach in LHR Diesel Engine running on biodiesel blends. ***International journal of Bio fuels*** DOI: 10.1080/17597269.2015.1135371
5. **M. Mohamed Musthafa (2016)**. Production of biodiesel from Citrus Limetta seed oil ***Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*** VOL. 38, NO. 20, 2994–3000.doi.org/10.1080/15567036.2015.1135205
6. **M. Mohamed Musthafa (2016)**. Synthetic lubrication oil influences on performance and emission characteristic of coated diesel engine fuelled by biodiesel blends. ***Applied Thermal Engineering***, Volume 96 pp. 607–612.
7. **M. Mohamed Musthafa** (2017). Thermal barrier coated diesel engine running on biodiesel: A Review. ***International Journal of Sustainable Engineering.*** DOI: 10.1080/19397038.2017.1393024
8. **M. Mohamed Musthafa (2017)** Improvement study of Low Heat Rejection diesel engine at part load operation in dual fuel mode. ***International journal of Bio fuels*** DOI: 10.1080/17597269.2017.1302665.
9. **M. Mohamed Musthafa (2017)** Development of Performance and emission characteristics on coated Diesel Engine fuelled by biodiesel with Cetane Number Enhancing Additive. ***Energy*** 134, 234-239
10. **M. Mohamed Musthafa and G. Sridharan** (2017) Performance and Emissions Characteristics of Diesel Engine Running on used Mustard Oil-Diesel Blends by Micro Emulsification as a Fuel **J. Surface Sci. Technol.** Vol 33(3–4), 101–105
11. **M. Mohamed Musthafa** (2018) Biogas production and its application in compressed gas. ***Energy Sources, Part A: Recovery, Utilization, and Environmental Effects***. DOI:10.1080/15567036.2017.1422055
12. **M. Mohamed Musthafa⋆, T. Ashok Kumar, T. Mohanraj, R. Chandramouli** (2018) A comparative study on performance, combustion and emission characteristics of diesel engine fuelled by biodiesel blends with and without an additive. ***Fuels*** .Vol. 225 , 343–348.
13. **M. Mohamed Musthafa (2019)** A comparative study on coated and uncoated diesel engine performance and emissions running on dual fuel (LPG-Biodiesel) with and without an additive. ***Industrial crops& products*** Vol. 128, 194-198

14. **T. Ashok Kumar, M. Mohamed Musthafa*, R. Chandramouli, T. K.Kandavel,**

T. Mohanraj, G.Sridharan(2019) Performance characteristics of a variable compression ratio CI engine simulation using artificial neural network.Energy sources, Part A: recovery, utilization, and environmental effects. DOI: 10.1080/15567036.2019.1648595.

15. **M. Mohamed Musthafa, Ajay Joshua, A. H.Dhilip, B. Ravi Kumar,* (2019)**Performance and Emission Characteristics of a diesel engine using diesel –raw Jatropha oil blends.Energy sources, Part A: recovery, utilization, and environmental effects. DOI: 10.1080/15567036.2019.1687619.