

Name : **Dr. K. Bhaskar**
Qualification : M.E.,Ph.D
Designation : **Professor**
Department : Automobile Engineering
Name of the Organization : **Rajalakshmi Engineering College**
Place : Thandalam
E-mail Id : kbhaskar66@yahoo.co.in.
Mobile Number : 9159474837
Area of Interest : Automobile, IC Engines, Alternative fuels.
Pincode : 602105

Publications

International Journal

1. K.Bhaskar *“Influence of saturated fatty acid material composition in biodiesel on its performance in internal combustion engines”*, Material Today : Proceedings, Elsevier, September 2020, Page No 1181-1186, Volume 1, Issue 33.
2. K.Bhaskar *“Resistance Heated Catalytic Converter (RHCC) with copper oxide catalyst for reducing HC/CO emission from automobile”*, Material Today : Proceedings, Elsevier, September 2020, <https://doi.org/10.1016/j.matpr.2020.08.330>.
3. K.Bhaskar *“Oxides of nitrogen and soot trade-off characteristics of methyl esters in a hybrid mode compression ignition engine”*, Material Today : Proceedings, Elsevier, September 2020, <https://doi.org/10.1016/j.matpr.2020.08.278>.
4. K.Bhaskar *“Analysis on mechanical properties of wood plastic composite”*, Material Today : Proceedings, Elsevier, September 2020, <https://doi.org/10.1016/j.matpr.2020.08.570>.
5. K.Bhaskar *“Investigation on aluminium/mild steel plates bonded polyurethane sheets to control vibration”*, Material Today : Proceedings, Elsevier, September 2020, <https://doi.org/10.1016/j.matpr.2020.08.285>.

6. V.Muthu , K Bhaskar , Pavan ***“Experimental investigation on a two stroke SI engine to optimize fuel consumption through electronic ignition”***, Material Today : Proceedings, Elsevier, September 2020, <https://doi.org/10.1016/j.matpr.2020.09.250>.
7. K.Bhaskar ***“Analysis of Cymbopogon Citratus, Pinus sylvestris and Syzygium cumini biodiesel feedstocks for its fatty acid composition”***, Material Today : Proceedings, Elsevier, September 2020, <https://doi.org/10.1016/j.matpr.2020.09.254>.
8. Zahir Hussain, Anbalagan, K.Bhaskar ***“Charging of car battery in electric vehicle by using wind energy”***, Material Today : Proceedings, Elsevier, September 2020, <https://doi.org/10.1016/j.matpr.2020.08.341>.
9. M. Savana Kumar, M. Prabhakar, S.Sendilvelan, Sanjay Singh, R.Venkatesh, **K.Bhaskar** ***“Combustion, performance and emission analysis of a diesel engine fueled with methyl esters of Jatropha and fish oil with exhaust gas recirculation”***, Energy Procedia, Elsevier, January 2019, issue 160,page number 412-419. (Scopus Indexed).
10. S.Prakash, M.Prabhakar, S.Sendilvelan, R.Venkatesh, Sanjay Singh, **K.Bhaskar** ***“Experimental studies on the performance and emission characteristics of an automobile engine fuelled with fish oil methyl ester to reduce environmental pollution”***, Energy Procedia, Elsevier, March 2019 issue 160,page number 404-411, (Scopus Indexed).
11. S. Sendilvelan, **K. Bhaskar**, ***“Experimental Analysis of Partially Premixed Charge in a Diesel Engine with Jatropha Oil Methyl Ester and Diesel Blends”***, Distributed generation and alternative energy journal, January 2019, Volume:01, Issue 1, Pg no 47-60, (Scopus Indexed).
12. Larissa Sassykova, Subramanian Sendilvelan, Moldir Telbayeva, Kusman Dossumov, Kathirvelu Bhaskar, ***“Preparation and test of catalysts deposited on metal blocks used in synthesis of dimethyl and diisopropyl ethers”***, Journal of Chemical Technology and Metallurgy, April 2019, Volume 3 issue 54, Page no 539-546, (Scopus Indexed).
13. Yermek Aubakirov, Larissa Sassykova, Sendilvelan Subramanian, **Kathirvelu Bhaskar**, Ulzhan Otzhan, Magzhan Amangeldi, Tleutai Abildin, Ardak Zhumakanova, Aisulu Zhussupova, Marmar Zharkyn ***“Hydrogenation of aromatic***

- nitro-compounds of a different structure in a liquid phase*", Journal of Chemical Technology and Metallurgy, April 2019, Volume 3 issue 54, Page no 522-530, (Scopus Indexed).
14. Sassykova, L. R., S. Sendilvelan, **K. Bhaskar**, A. S. Zhumakanova, Y. A. Aubakirov, T. S. Abildin, Sh N. Kubekova, Z. T. Mataeva, and A. A. Zhakupova. "*Norms of emissions of harmful substances generated from vehicles in the different countries of the world*", Series of geology and technical sciences (news of the national academy of sciences of the republic of Kazakhstan), March 2019, ISSN 2224-5278, Volume 2, Page no 181-190.
 15. L. R. Sassykova, Y. A. Aubakirov, S. Sendilvelan, Zh. Kh. Tashmukhambetova, M. F. Faizullaeva, **K. Bhaskar**, A. A. Batyrbayeva, R. G. Ryskaliyeva, B. B. Tyussyupova, A. A. Zhakupova and M. A. Sarybayev, "*The Main Components of Vehicle Exhaust Gases and Their Effective Catalytic Neutralization*", Oriental journal of chemistry, March 2019, Vol. 35, No.(1): Pg. 110-127, (Scopus Indexed).
 16. S. Sendilvelan, **K. Bhaskar** and S. Nallusamy," *Experimental investigation on cerium oxide nanoparticles with alumina catalytic converter to increase emission conversion efficiency in automobiles*", Rasayan J Chem ISSN:0974-1496, Pg no 454-460, Vol 10, -June 2017. (H -index 15).
 17. S. Nallusamy, S. Sendilvelan, **K. Bhaskar** and N. Manikanda Prabu," *Analysis of performance, combustion and emission characteristics on biofuel of novel pine oil*", Rasayan J Chem ISSN:0974-1496, Pg no 873-880, Vol 10, July-Sep 2017.(H -index 15).
 18. S. Sendilvelan and **K. Bhaskar**, "*Reduction of nox and opacity from diesel engine with dimethyl carbonate and isopropyl alcohol*", Rasayan J Chem ISSN:0974-1496, Pg no 844-851 Vol 10, July-Sep 2017. (H -index 15).
 19. T.G.Balachandran , S. Sendilvelan , **K. Bhaskar**, "*A Comparative Evaluation of Usage of Methyl Esters of Jatropha and Fish Oil for Environmental Protection*", Journal of Materials and Environmental Sciences ISSN : 2028-2508, Page 2564-2571 Volume 8, Issue 7 \march 2017,(H -index 22).
 20. S. Sendilvelan and **K. Bhaskar**, "*Performance studies on diesel engine using blends of coconut de-oiled cake and methyl esters of jatropha*", Rasayan J Chem

21. **K. Bhaskar S. Sendilvelan** , “*Performance and emission characteristics of a diesel engine with Diesel Premixed Compression Ignition and exhaust gas recirculation*”, Wiley Periodicals, Inc., Heat Transfer—Asian Res. August 2017; 1–13.(Journal Impact: 0.58).
22. Sendilvelan S., **Bhaskar K** “*Comparative performance studies on DI diesel engine with neem de-oiled cake and Jatropha methyl ester diesel blends*”, World Journal of Engineering, Pg no 348-352, June 2017, (Scopus Indexed)
23. S.Sendilvelan and **K.Bhaskar** “*Aluminium Phosphate Supported Copper Phosphate Catalytic Converter to Reduce Nitrous Oxides and Particulate Matter from Engine Emission*”, ORIENTAL JOURNAL OF CHEMISTRY, Vol. 33, No. (4): Pg.2111-2117 July-2017.
24. **Bhaskar Kathirvelu**, Sendilvelan Subramanian, Nagarajan Govindan, Sampath Santhanam “*Emission characteristics of biodiesel obtained from jatropha seeds and fish wastes in a diesel engine*”, Sustainable Environment Research, July 2017 Environment Research 27 (2017) 283-290
25. S. Sendilvelan and **K. Bhaskar** “*Studies on the enhancement of diesel engine combustion and reduction of emissions through the use of polymer based additives*” Journal of Heat and Mass Transfer, Pages 277-287 Volume 14, Number 3, August 2017, (Scopus Indexed).
26. S. Sendilvelan and **K. Bhaskar** “*Experimental analysis of PCCI in a diesel engine with different fuel blends*”, World Journal of Engineering, January 2018, issue 15/5, page number 567-574, (Scopus Indexed).
27. **K. BHASKAR** , L. R. SASSYKOVA , M. PRABHAHAR & S. SENDILVELAN, “*Effect of Dimethoxy-Methane (C₃H₈O₂) Additive on Emission Characteristics of a Diesel Engine Fueled with Biodiesel*”, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol. 8, No.1, PP 399-406, Feb 2018. (Scopus Indexed).
28. **K. Bhaskar**, “*Experimental studies on the performance and emission characteristics of a compression ignition engine fuelled with jatropha oil methyl*

- ester.*”, Journal of Mechanical Engineering and Sciences, March 2018 Volume 12, Issue 1, pp. 3431-3450, (Scopus Indexed).
29. **K. Bhaskar** and S. Sendilvelan, “*Experimental Evaluation of Jatropha Oil Methyl Ester (JOME) and Fish Oil Methyl Ester (FOME) in a Compression Ignition Engine with Exhaust Gas Recirculation.*”, Pertanika J. Sci. & Technology, Vol 26 (3): 1067 - 1080 May 2018, (Scopus Indexed).
 30. **K. Bhaskar**, S. Sendilvelan, L.R. Sassykova , “*Effect of premix and exhaust gas recirculation on the emission characteristics of biodiesel fueled engine*”, National academy of sciences of the republic of kazakhstan. series of geology and technical sciences, April 2018 Volume 2, Number 428 (2018), 6 – 17, (Scopus Indexed).
 31. S. Sendilvelan and **K. Bhaskar** , “*Experimental Investigation on Catalytic Properties of Copper Oxide in Internal Combustion Petrol Engine during Cold Start Emission*”, International Journal of Performability Engineering Volume 12, Number 6, November 2016 - Paper 2 - pp. 513-522, (Scopus Index, H- index – 13).
 32. Premnath SUNDARAMOORTHY , Devaradjane GOBALAKICHENIN , **Kathirvelu BASKAR** , and Shanmugasundaram PALANINATHAN, “*A Simulation study of air flow in different types of combustion chambers for a single cylinder diesel engine*”, Journal of Thermal Science Vol.20, Supp. 4 pp. S1145-S1151 Dec 16, (Impact factor 0.939.)
 33. S. Sendilvelan and **K. Bhaskar** , “*Effect Of Multiple Injection Strategies To Reduce Oxides Of Nitrogen And Control Of Pollutant Emissions Of An Automobile*”, Rasayan Journal Vol. 9, Issue – 4, Oct-Dec 2016, PP. 692-696 (Scopus indexed)
 34. **K. Bhaskar**, S. Sendilvelan, V. Muthu and S. Aravindraj, “*Performance and emission characteristics of compression ignition engine using methyl ester blends of jatropha and fish oil*”, Journal of Mechanical Engineering and Sciences Vol. 10, Issue 2, pp – 1994, Sep -2016, (Impact Factor 0.589)
 35. S. Sendilvelan and **K. Bhaskar**, “*Experimental Analysis Of Catalytic Converter For Reducing Environmental Pollution From Si Engine Using Electrically Initiated And Chemically Heated Catalyst.*”, ARPN Journal of Engineering and Applied Sciences Vol. 11 Issue : 23, pp 13735 - 13739 Dec 2016 (h-index-12)

36. **K. Bhaskar**, “*Production methods and analysis of cotton waste bio-gas to reduce environmental pollution.*” International Journal of Pharma and Bio sciences Vol. 8(1), pp 494 – 499 Jan. 2017,(h- index – 16).
37. **K. Bhaskar**, “*Electrically Heated Transition Metal Oxide Catalyst for Cold Start Emission Reduction From Gasoline Engine.*”, Indian Journal of Environmental Protection, Vol. 36(12) Dec. 2016, (h- index 13)
38. **S. Sendilvelan and K. Bhaskar** , “*Chemical and Experimental analysis of fumigation process to reduce emission without affecting performance of an engine*”, Rasayan Journal of Chemistry, Vol. 10 Issue 1. pp 111 – 116, Jan – March 2017. (H – index 14).
39. **S. SENDILVELAN and K. BHASKAR**, “*Studies on enhancement of diesel engine combustion through use of pib-succinimide type fuel additive and internal jets for turbulence inducement to reduce environmental pollution*”, International journal of chemical science, Vol. 14 Issue 4, 2016, pp 2467 – 2475 Sep. 2016 (H- index 6).
40. “*Reduction of nitrous oxide in diesel engine using metal salt macro-emulsion*”, International Journal of Surface Science and Technology, Vol. 32. Issue 3-4, pp. 69-72, December 2016 (H- index 12 , Impact factor 0.44)
41. **S. Sendilvelan and K. Bhaskar** “*Experimental analysis of pilot injection-assisted premixed charge compression ignition to reduce emissions with jatropha oil methyl ester in a diesel engine*”, International Journal of Energy for a Clean Environment Vol. 18, Issue :2, pp-67-80 October 2016 (H –index 4)
42. **Bhaskar Kathirvelu, Sendilvelan Subramanian** “*Performance and emission characteristics of biodiesel blends in a premixed compression ignition engine with exhaust gas recirculation*”, Environmental Engineering Research 13-Mar-17 (H-index 47)
43. **S. Sendilvela and K. Bhaskar** “*Chemical and experimental analysis of fumigation process to reduce emission without affecting the performance of an engine*”, Rasayan J Chem ISSN:0974-1496 Vol 10, Jan -march 2017 (H -index 15).
44. **S. Sendilvela and K. Bhaskar** , “*Reduction of nitrous oxide in diesel engine using diesel-water micro emulsion*” Journal of Chemical and Pharmaceutical Sciences Pg no 46-49, Volume 10 Issue 1, Jan-March 2017.

45. S. Sendilvelan and **K. Bhaskar**, “*Experimental investigation to reduce environmental pollution from an automobile using thermal reactor*”, Teri Information Digest on Energy and Environment, Vol. 14(4) Dec 2015.
46. Aswin R, Karthick Sundar R, Aravindraj S , **Bhaskar K** ,“*Experimental Investigation of HCCI Engine with Ethanol Manifold Injection*”, Journal of Basic and Applied Engineering Research, Vol.1(4), pp. 16-20, Oct 2014.
47. V. Muthu, **K. Bhaskar**, R. Karthick sundar “*Experimental Investigation of Hot water Fired R134A-DMAC VARS System at Various Heat Source Temperatures*”, Journal of Energy Research and Environmental Technology, Vol.1(1), pp. 20-25, Nov 2014.
48. A. DINESH , G. SURYA & **K. BHASKAR**, “*Experimental Investigation on HCCI Engine with Gasoline Injection*”, International Journal of Chemical and Pharmaceutical sciences Special Issue 7, pp. 293-296, Jan-Mar 2015.