Silambarasan Rajendran

List of Publications by Year
in descending order

51 papers	802 citations	516710 16 h-index	552781 26 g-index
51 all docs	51 docs citations	51 times ranked	665 citing authors

#	Article	IF	Citations
1	Effect of operating parameters and antioxidant additives with biodiesels to improve the performance and reducing the emissions in a compression ignition engine â€“ A review. Renewable and Sustainable Energy Reviews, 2018, 81, 775-788.	16.4	73
2	Performance improvement and exhaust emissions reduction in biodiesel operated diesel engine through the use of operating parameters and catalytic converter: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 3215-3222.	16.4	65
3	Annona: A new biodiesel for diesel engine: A comparative experimental investigation. Journal of the Energy Institute, 2015, 88, 459-469.	5.3	49
4	A comparative review of performance and emission characteristics of diesel engine using eucalyptus-biodiesel blend. Fuel, 2021, 284, 118925.	6.4	43
5	Effect of di ethyl ether on the performance and emission characteristics of a diesel engine using biodieselâ€“eucalyptus oil blends. RSC Advances, 2015, 5, 54019-54027.	3.6	41
6	Effect of leaf extract from Pongamia pinnata on the oxidation stability, performance and emission characteristics of calophyllum biodiesel. Fuel, 2016, 180, 263-269.	6.4	39
7	Improving the performance is better and emission reductions from Annona biodiesel operated diesel engine using 1,4-dioxane fuel additive. Fuel, 2016, 185, 804-809.	6.4	38
8	Effect of antioxidant additives on oxides of nitrogen (NOx) emission reduction from Annona biodiesel operated diesel engine. Renewable Energy, 2020, 148, 1321-1326.	8.9	32
9	Experimental investigations of diesel engine emissions and combustion behaviour using addition of antioxidant additives to jamun biodiesel blend. Fuel, 2021, 285, 119157.	6.4	25
10	Performance and emission characteristics of a low heat rejection engine using Nerium biodiesel and its blends. International Journal of Ambient Energy, 2017, 38, 186-192.	2.5	22
11	Leaf extract additives: A solution for reduction of NOx emission in a biodiesel operated compression ignition engine. Energy, 2019, 175, 862-878.	8.8	22
12	Environmental effect of antioxidant additives on exhaust emission reduction in compression ignition engine fuelled with Annona methyl ester. Environmental Technology (United Kingdom), 2015, 36, 2079-2085.	2.2	21
13	Studies on orange oil methyl ester in diesel engine with hemispherical and toroidal combustion chamber. Thermal Science, 2016, 20, 981-989.	1.1	21
14	Exhaust emissions reduction from diesel engine using combined Annonaâ€“Eucalyptus oil blends and antioxidant additive. Heat and Mass Transfer, 2017, 53, 1105-1112.	2.1	19
15	Syngas: Derived from biodiesel and its influence on CI engine. Energy, 2019, 189, 116189.	8.8	19
16	Assessment of performance, combustion, and emission behavior of novel annona biodiesel-operated diesel engine. , 2019, , 391-405.		19
17	A comparative study of performance and emission characteristics of neat biodiesel operated diesel engine: a review. Journal of Thermal Analysis and Calorimetry, 2021, 146, 1015-1025.	3.6	19
18	Contemplation of thermal characteristics by filling ratio of Al2O3 nanofluid in wire mesh heat pipe. AEJ - Alexandria Engineering Journal, 2016, 55, 1063-1068.	6.4	18

#	Article	IF	Citations
19	Effects of nano additives on performance and emission characteristics of a diesel engine fueled with Annona methyl ester. Biofuels, 2016, 7, 271-277.	2.4	17
20	Performance and emission characteristics of using sea lemon biodiesel with thermal barrier coating in a direct-injection diesel engine. Biofuels, 2017, 8, 235-241.	2.4	16
21	Influence of Compression Ratio on the Performance and Emission Characteristics of Annona Methyl Ester Operated DI Diesel Engine. Advances in Mechanical Engineering, 2014, 6, 832470.	1.6	14
22	Assessment of engine operating parameters on working characteristics of a diesel engine fueled with 20% proportion of biodiesel diesel blend. Energy, 2017, 141, 907-923.	8.8	14
23	Characteristics analysis of julifora biodiesel derived from different production methods. Fuel, 2020, 280, 118579.	6.4	14
24	The influence of natural and synthetic antioxidant on oxidation stability and emission of sapota oil methyl ester as fuel in CI engine. Thermal Science, 2016, 20, 991-997.	1.1	13
25	Antioxidant (A-tocopherol acetate) effect on oxidation stability and NOx emission reduction in methyl ester of Annona oil operated diesel engine. Heat and Mass Transfer, 2017, 53, 1797-1804.	2.1	12
26	Addition of diethyl ether on the LHR engine characteristics using biodiesel-eucalyptus blend. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	2.3	12
27	Use of antioxidant additives for NOx mitigation in compression ignition engine operated with biodiesel from annona oil. Thermal Science, 2016, 20, 967-972.	1.1	12
28	A comparative assessment on performance, combustion and emission characteristics of diesel engine fuelled by juliflora biodiesel-diesel blends. Australian Journal of Mechanical Engineering, 2023, 21, 257-269.	2.1	11
29	Effect of natural antioxidant additive on hydrogen-enriched biodiesel operated compression ignition engine. International Journal of Hydrogen Energy, 2022, 47, 20771-20783.	7.1	9
30	Performance improvement and emission control in a direct injection diesel engine using nano catalyst coated pistons. Biofuels, 2016, 7, 529-535.	2.4	8
31	Influence of natural leaf additive in a biodiesel-operated LHR engine on performance and NOx emission. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-19.	2.3	8
32	The influence of injection timing on the performance and emission characteristics of an Annona methyl ester operated diesel engine. Biofuels, 2016, 7, 437-445.	2.4	7
33	Effects of antioxidant additives on exhaust emissions reduction in compression ignition engine fueled with methyl ester of annona oil. Thermal Science, 2016, 20, 1029-1035.	1.1	7
34	Effect of isopropyl alcohol on the performance, combustion and emission Characteristics variable compression ratio engine using rubber seed oil blends. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-16.	2.3	6
35	Application of thermal barrier coating for improving the suitability of Annona biodiesel in a diesel engine. Thermal Science, 2016, 20, 973-979.	1.1	6
36	Effect of antioxidant additives on oxides of nitrogen (NOx) emission reduction from annona biodiesel operated diesel engine. , 2019, , 247-263.		5

#	Article	IF	Citations
37	Effect of L-ascorbic acid as additive for exhaust emission reduction in a direct injection diesel engine using mango seed methyl ester. Thermal Science, 2016, 20, 999-1004.	1.1	5
38	Impact of injection pressure on the performance and emission characteristics of a diesel engine fuelled with Annona methyl ester. Biofuels, 2015, 6, 295-303.	2.4	4
39	Impact of compression ratio and effect of biodiesel blends in performance, combustion and emission characteristics of VCR DI diesel engine. Materials Today: Proceedings, 2021, 37, 967-974.	1.8	3
40	Effects of Dual Biodiesel on a LHR-DI Diesel Engine Performance, Emission and Combustion Characteristics. , 0, , .		3
41	A comparative experimental analysis of combustion in a diesel engine fuelled with biodiesel and diesel fuel. Biofuels, 2017, 8, 153-161.	2.4	2
42	Effect of 1, 4-dioxane addition on operating characteristics of a neat biodiesels-fueled diesel engine. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, , 1-14.	2.3	2
43	NOx Emission Reduction in Annona Biodiesel Engine by Means of Antioxidant Additives. SAE International Journal of Fuels and Lubricants, 2017, 10, .	0.2	1
44	A novel alternative fuel for diesel engine: a comparative experimental investigation. International Journal of Global Warming, 2018, 14, 40.	0.5	1
45	Exhaust Emissions Reduction from Neat Biodiesel Operated Diesel Engine Using Catalyst Coated Piston and Antioxidant Additive. , 0, , .		1
46	Effect of L-Ascorbic acid on performance and emission behavior of neem biodiesel operated diesel engine. Materials Today: Proceedings, 2021, 37, 1009-1013.	1.8	1
47	Sapota methyl ester: analysis of combustion and emission characteristics for partial replacement of diesel in a CI engine. International Journal of Ambient Energy, 2022, 43, 5076-5084.	2.5	1
48	A comparative study of methyl ester blend ratio on thermal stability and combustion characteristics of diesel engine. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	1
49	Contraction of radiator length in heavy vehicles using cerium oxide nanofluid by enhancing heat transfer performance. Thermal Science, 2016, 20, 1037-1044.	1.1	1
50	Combustion analysis of Jatropha methyl esters and Pongamia methyl esters with the addition of ethanol as fuel in a diesel engine. International Journal of Ambient Energy, 2016, 37, 321-327.	2.5	0
51	A novel alternative fuel for diesel engine: a comparative experimental investigation. International Journal of Global Warming, 2018, 14, 40.	0.5	0