Karthickeyan Viswanathan

List of Publications by Year
in descending order

52 papers	1,732 citations	257450 24 h-index	315739 38 g-index
52 all docs	52 docs citations	52 times ranked	919 citing authors

#	Article	IF	Citations
1	A comprehensive study on the performance and emission characteristics of a diesel engine with the blends of diesel, jojoba oil biodiesel, and butylated hydroxyl anisole as an alternative fuel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 3216-3230.	2.3	8
2	Experimental evaluation of orange oil biodiesel in compression ignition engine with various bowl geometries. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 10569-10580.	2.3	4
3	Syngas analysis by hybrid modeling of sewage sludge gasification in downdraft reactor: Validation and optimization. Waste Management, 2022, 144, 132-143.	7.4	24
4	Split injection strategies based RCCI combustion analysis with waste cooking oil biofuel and methanol in an open ECU assisted CRDI engine. Fuel, 2022, 319, 123710.	6.4	23
5	Novel Petit grain bitter orange waste peel oil biofuel investigation in diesel engine with modified fuel injection pressure and bowl geometry. Fuel, 2022, 319, 123660.	6.4	19
6	Economic dispatch of torrefied biomass polygeneration systems considering power/SNG grid demands. Renewable Energy, 2022, 196, 707-719.	8.9	17
7	Impact of yttria stabilized zirconia coating on diesel engine performance and emission characteristics fuelled by lemon grass oil biofuel. Journal of Thermal Analysis and Calorimetry, 2021, 146, 2303-2315.	3.6	17
8	Effect of diethyl ether and ethanol as an oxygenated additive on Calophyllum inophyllum biodiesel in CI engine. Environmental Science and Pollution Research, 2021, 28, 33880-33898.	5.3	39
9	Experimental investigation of high alcohol low viscous renewable fuel in DI diesel engine. Environmental Science and Pollution Research, 2021, 28, 12026-12040.	5.3	25
10	Experimental investigation on the application of preheated fish oil ethyl ester as a fuel in diesel engine. Fuel, 2021, 285, 119244.	6.4	62
11	A comprehensive investigation on the effects of ceramic layering and cetane improver with an avocado seed oil biodiesel fueled diesel engine. , 2021, , 293-332.		4
12	Biofuel characteristic of waste clay oil pyrolysis. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105117.	5.5	17
13	Comparative life cycle assessment and economic analysis of methanol/hydrogen production processes for fuel cell vehicles. Journal of Cleaner Production, 2021, 300, 126959.	9.3	25
14	Effects of antioxidant and ceramic coating on performance enhancement and emission reduction of a diesel engine fueled by Annona oil biodiesel. Journal of the Taiwan Institute of Chemical Engineers, 2021, 125, 243-256.	5.3	34
15	Energy, exergy and environmental impact analysis on the novel indirect solar dryer with fins inserted phase change material. Renewable Energy, 2021, 176, 280-294.	8.9	58
16	Production of renewable fuels and chemicals from fats, oils, and grease (FOG) using homogeneous and heterogeneous catalysts: Design, validation, and optimization. Chemical Engineering Journal, 2021, 424, 130199.	12.7	42
17	Effect of thermal barrier coating on performance and emission characteristics of kapok oil methyl ester in diesel engine. Australian Journal of Mechanical Engineering, 2020, 18, 467-480.	2.1	21
18	Effect of manifold injection of methanol/n-pentanol in safflower biodiesel fuelled CI engine. Fuel, 2020, 261, 116378.	6.4	83

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19	Forcasting of an ANN model for predicting behaviour of diesel engine energised by a combination of two low viscous biofuels. Environmental Science and Pollution Research, 2020, 27, 24702-24722.	5.3	52
20	Experimental investigation on combined effect of ignition promoters and ceramic coating fuelled with papaya seed oil methyl ester in DI diesel engine. Renewable Energy, 2020, 148, 772-789.	8.9	42
21	Comparative study on pyrolysis and combustion behavior of untreated Matooke biomass wastes in East Africa via TGA, SEM, and EDXS. International Journal of Energy and Environmental Engineering, 2020, 11, 265-273.	2.5	18
22	Experimental investigation on pumpkin seed oil methyl ester blend in diesel engine with various injection pressure, injection timing and compression ratio. Fuel, 2020, 264, 116868.	6.4	108
23	Experimental investigation on engine parameters variation in common rail direct injection engine fueled with biodiesel. Clean Technologies and Environmental Policy, 2020, 22, 459-479.	4.1	14
24	Comparative analysis on the influence of antioxidants role with Pistacia khinjuk oil biodiesel to reduce emission in diesel engine. Heat and Mass Transfer, 2020, 56, 1275-1292.	2.1	31
25	Experimental investigation of pomegranate oil methyl ester in ceramic coated engine at different operating condition in direct injection diesel engine with energy and exergy analysis. Energy Conversion and Management, 2020, 205, 112334.	9.2	118
26	Comprehensive study of engine characteristics of novel biodiesel from curry leaf (Murraya koenigii) oil in ceramic layered diesel engine. Fuel, 2020, 280, 118586.	6.4	36
27	Characterization and effect of Moringa Oleifera Lam. antioxidant additive on the storage stability of Jatropha biodiesel. Fuel, 2020, 281, 118614.	6.4	31
28	Multi-functional fuel additive as a combustion catalyst for diesel and biodiesel in CI engine characteristics. Fuel, 2020, 278, 118250.	6.4	35
29	Performance, Emission and Combustion Characteristics of a Diesel Engine Powered by Macadamia and Grapeseed Biodiesels. Energies, 2020, 13, 2748.	3.1	20
30	Study of diesel fuel multiple injection characteristics using shadow-graphic imaging technique with CRDI system in constant volume chamber. Fuel, 2020, 279, 118436.	6.4	11
31	Data set on performance and relative exhaust emission (REE) characteristics of fish oil ethyl ester with fuel preheating in diesel engine. Data in Brief, 2020, 29, 105237.	1.0	6
32	Investigation of Alternative Fuels as Low Reactivity Fuel in Port-Charged Compression Ignition (PCCI) Engine. Advances in Mechatronics and Mechanical Engineering, 2020, , 211-233.	1.0	2
33	Process Optimization Study of Alternative Fuel Production From Linseed Oil. Advances in Mechatronics and Mechanical Engineering, 2020, , 234-249.	1.0	0
34	Effect of cetane enhancer on Moringa oleifera biodiesel in a thermal coated direct injection diesel engine. Fuel, 2019, 235, 538-550.	6.4	70
35	Simultaneous reduction of NOx and smoke emissions with low viscous biofuel in low heat rejection engine using selective catalytic reduction technique. Fuel, 2019, 255, 115854.	6.4	60
36	Investigation of novel Pistacia khinjuk biodiesel in DI diesel engine with post combustion capture system. Applied Thermal Engineering, 2019, 159, 113969.	6.0	57

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37	Effect of fuel injection strategies and EGR on biodiesel blend in a CRDI engine. Energy, 2019, 181, 1094-1113.	8.8	65
38	Data set for effect of cetane enhancer on ceramic coated diesel engine fuelled with neat Moringa oleifera methyl ester. Data in Brief, 2019, 24, 103932.	1.0	6
39	Investigating the combined effect of thermal barrier coating and antioxidants on pine oil in DI diesel engine. Environmental Science and Pollution Research, 2019, 26, 15573-15599.	5.3	39
40	Effect of combustion chamber bowl geometry modification on engine performance, combustion and emission characteristics of biodiesel fuelled diesel engine with its energy and exergy analysis. Energy, 2019, 176, 830-852.	8.8	105
41	Experimental investigation on emission reduction in neem oil biodiesel using selective catalytic reduction and catalytic converter techniques. Environmental Science and Pollution Research, 2018, 25, 13548-13559.	5.3	26
42	Experimental analysis on thermally coated diesel engine with neem oil methyl ester and its blends. Heat and Mass Transfer, 2018, 54, 1961-1974.	2.1	27
43	Impact of partially stabilised zirconia on a single-cylinder diesel engineâ€™s performance, using orange oil methyl ester biodiesel. International Journal of Ambient Energy, 2018, 39, 767-776.	2.5	14
44	Comparative studies on the performance and emissions of a direct injection diesel engine fueled with neem oil and pumpkin seed oil biodiesel with and without fuel preheater. Environmental Science and Pollution Research, 2018, 25, 4621-4631.	5.3	26
45	Effect of nature based antioxidant from Zingiber officinale Rosc. on the oxidation stability, engine performance and emission characteristics with neem oil methyl ester. Heat and Mass Transfer, 2018, 54, 3409-3420.	2.1	15
46	Effect of thermal barrier coating with various blends of pumpkin seed oil methyl ester in DI diesel engine. Heat and Mass Transfer, 2017, 53, 3141-3154.	2.1	32
47	Studies on piston bowl geometries using single blend ratio of various non-edible oils. Environmental Science and Pollution Research, 2017, 24, 17068-17080.	5.3	20
48	Developing of ANN model for prediction of performance and emission characteristics of VCR engine with orange oil biodiesel blends. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 2877-2888.	1.6	42
49	Comparative studies on emission reduction in thermal barrier coated engine using single blend ratio of various non-edible oils. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 1823-1833.	1.6	21
50	Studies on orange oil methyl ester in diesel engine with hemispherical and toroidal combustion chamber. Thermal Science, 2016, 20, 981-989.	1.1	21
51	Experimental Investigation on Emission Characteristics of Catalytic Converter Using Different Wash Coat Material. Applied Mechanics and Materials, 2014, 550, 62-70.	0.2	14
52	Characteristics Investigation on Di Diesel Engine with Nano-Particles as an Additive in Lemon Grass Oil. , 0, , .		26