

Karthikeyan A

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

886
citations

516215

16
h-index

552369

26
g-index

61
all docs

61
docs citations

61
times ranked

685
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel water hyacinth biodiesel as a potential alternative fuel for existing unmodified diesel engine: Performance, combustion and emission characteristics. <i>Energy</i> , 2019, 179, 295-305.	4.5	106
2	Performance and Emission Characteristics of a Diesel Engine Using Cerium Oxide Nanoparticle Blended Biodiesel Emulsion Fuel. <i>Journal of Energy Engineering - ASCE</i> , 2016, 142, .	1.0	51
3	Impact of antioxidant additives on the performance and emission characteristics of C.I engine fuelled with B20 blend of rice bran biodiesel. <i>Environmental Science and Pollution Research</i> , 2018, 25, 17634-17644.	2.7	51
4	Enzymatic production of biodiesel using lipase catalyst and testing of an unmodified compression ignition engine using its blends with diesel. <i>Renewable Energy</i> , 2020, 145, 399-407.	4.3	50
5	Performance and Emission Characteristics of Diesel Engine Using Alumina Nanoparticle Blended Biodiesel Emulsion Fuel. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2016, 138, .	1.4	46
6	Properties investigation and performance analysis of a diesel engine fuelled with Jatropha, Soybean, Palm and Cottonseed biodiesel using Ethanol as an additive. <i>Materials Today: Proceedings</i> , 2018, 5, 657-664.	0.9	39
7	Performance and emission characteristics of rice bran and alga biodiesel blends in a CI engine. <i>Materials Today: Proceedings</i> , 2016, 3, 2468-2474.	0.9	35
8	Enzymatic production of rice bran biodiesel and testing of its diesel blends in a four-stroke CI engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 5340-5351.	1.2	34
9	Analysis of ethanol blends on spark ignition engines. <i>International Journal of Ambient Energy</i> , 2018, 39, 103-107.	1.4	31
10	Evaluation on the consequence of cerium oxide nanoparticle additive in biomass-derived fuel blended with diesel for CI engine operation. <i>International Journal of Ambient Energy</i> , 0, , 1-8.	1.4	31
11	Analysis on the Performance, Combustion and Emission Characteristics of a CI Engine Fuelled with Algae Biodiesel. <i>Applied Mechanics and Materials</i> , 0, 591, 33-37.	0.2	26
12	A Comprehensive Review of Effect of Biodiesel Additives on Properties, Performance, and Emission. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 197, 012015.	0.3	26
13	Energy and exergy analysis of compression ignition engine fuelled with rice bran biodiesel blends. <i>International Journal of Ambient Energy</i> , 2019, 40, 381-387.	1.4	26
14	Impact of Methyl, Ethyl, and Butyl Ester Blends of Freshwater Algae Oil on the Combustion, Performance, and Emissions of a CI Engine. <i>Energy & Fuels</i> , 2020, 34, 9763-9770.	2.5	25
15	Effect of injection timing on the combustion characteristics of rice bran and algae biodiesel blends in a compression-ignition engine. <i>International Journal of Ambient Energy</i> , 2017, 38, 116-121.	1.4	24
16	Experimental investigation on spark ignition engine using blends of bio-ethanol produced from citrus peel wastes. <i>International Journal of Ambient Energy</i> , 2017, 38, 112-115.	1.4	22
17	Experimental Investigation on Improving the Heat Transfer of Cascaded Thermal Storage System Using Different Fins. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 2055-2065.	1.7	21
18	Diesel engine performance and emission evaluation using Canola biodiesel emulsion fuel. <i>Australian Journal of Mechanical Engineering</i> , 2016, 14, 174-181.	1.5	18

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19	Thermal behaviour study of phase change material of a latent heat storage system. <i>Materials Today: Proceedings</i> , 2016, 3, 2518-2524.	0.9	18
20	Applying a magnetic field on liquid line of vapour compression system is a novel technique to increase a performance of the system. <i>Applied Energy</i> , 2016, 182, 376-382.	5.1	15
21	Energy and Exergy Analysis of Multi-Temperature PCMs Employed in a Latent Heat Storage System and Parabolic Trough Collector. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2018, 43, 211-220.	2.4	14
22	Comparative experimental study on parabolic trough collector integrated with thermal energy storage system by using different reflective materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 941-948.	2.0	14
23	Performance improvement of D-sorbitol PCM-based energy storage system with different fins. <i>International Journal of Ambient Energy</i> , 2018, 39, 372-376.	1.4	12
24	Effect of propanol addition on the performance and emissions characteristics of a direct injection diesel engine fuelled with waste plastic oil. <i>International Journal of Ambient Energy</i> , 2022, 43, 803-808.	1.4	12
25	Heat transfer enhancement of the latent heat storage system using different encapsulating materials with and without fins. <i>International Journal of Ambient Energy</i> , 2017, 38, 77-84.	1.4	11
26	Effect of injection pressure on the performance and emission characteristics of CI engine using canola emulsion fuel. <i>International Journal of Ambient Energy</i> , 2017, 38, 314-319.	1.4	10
27	Heat transfer characteristics of acetone/water mixture in a tubular heat exchanger with turbulator. , 2013, , .		9
28	The thermal performance analyses of the solar energy-powered thermal energy storage system with MgCl ₂ ·6H ₂ O as PCM. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	9
29	Assessment of performance and emission characteristics of diesel engine supplied with waste plastic oil propanol and ethylhexyl nitrate blends. <i>Materials Today: Proceedings</i> , 2021, 44, 3642-3646.	0.9	9
30	Effect of manifold injection of n-decanol on neem biodiesel fuelled CI engine. <i>Energy</i> , 2022, 241, 122856.	4.5	9
31	Experimental analysis of heat transfer characteristics of solar energy based latent heat storage system. <i>Materials Today: Proceedings</i> , 2016, 3, 2475-2482.	0.9	8
32	Performance analysis of vapour compression water chiller with magnetic flux at the condenser exit. <i>Energy and Buildings</i> , 2018, 158, 282-289.	3.1	8
33	Investigation of cottonseed oil biodiesel with ethanol as an additive on fuel properties, engine performance, combustion and emission characteristics of a diesel engine. <i>Thermal Science</i> , 2020, 24, 27-36.	0.5	8
34	Experimental Investigations on Diesel engine using Methyl esters of Jatropha oil and fish oil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 197, 012020.	0.3	7
35	Heat transfer enhancement of a cascaded thermal energy storage system with various encapsulation arrangements. <i>Thermal Science</i> , 2017, , 227-227.	0.5	7
36	Performance improvement of vapour compression refrigeration system using different phase changing materials. <i>Materials Today: Proceedings</i> , 2021, 44, 3540-3543.	0.9	6

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37	Comparative study of performance and emissions of a CI engine using biodiesel of microalgae, macroalgae and rice bran. IOP Conference Series: Materials Science and Engineering, 2017, 197, 012017.	0.3	5
38	Influence of ternary fuel blends of decanol/neem oil biodiesel/diesel on combustion, emission and performance characteristics of an unmodified diesel engine. International Journal of Ambient Energy, 2022, 43, 7705-7714.	1.4	4
39	Analysis of Thermal Energy Storage Tank by ANSYS and Comparison with Experimental Results to Improve its Thermal Efficiency. IOP Conference Series: Materials Science and Engineering, 2017, 197, 012039.	0.3	3
40	Assessment on effectiveness of a shower type cooling tower. International Journal of Ambient Energy, 2022, 43, 4239-4246.	1.4	3
41	Effect of mixing two biodiesels on emissions in CI engine fuelled by candle nut and soap nut methyl esters-diesel blends. AIP Conference Proceedings, 2020, , .	0.3	3
42	Investigation of Sensible and Latent Heat Storage System using various HTF. IOP Conference Series: Materials Science and Engineering, 2017, 197, 012038.	0.3	2
43	Examining the impact of magnetic field on fuel economy and emission reduction in I.C. engines. International Journal of Ambient Energy, 2019, , 1-7.	1.4	2
44	Experimental study on thermal performance of xylitol in a latent heat storage combined with sensible heat storage. AIP Conference Proceedings, 2019, , .	0.3	2
45	Effect of ternary fuel blends on performance and emission characteristics of single cylinder diesel engine. Journal of Physics: Conference Series, 2021, 2054, 012007.	0.3	2
46	Emission Control in Two Wheelers Using Magnesium Nanoparticle as a Catalyst. Applied Mechanics and Materials, 0, 766-767, 343-347.	0.2	1
47	Thermal Analysis of Fluidized Bed and Fixed Bed Latent Heat Thermal Storage System. IOP Conference Series: Materials Science and Engineering, 2017, 197, 012033.	0.3	1
48	Performance Improvement of Energy Storage System with nano-additives in HTF. IOP Conference Series: Materials Science and Engineering, 2017, 197, 012036.	0.3	1
49	Investigation on a diesel engine's performance with integration of magnetic flux on the fuel line. International Journal of Ambient Energy, 2018, 39, 726-731.	1.4	1
50	Investigate the effect of regenerator mesh on cooling performance. International Journal of Ambient Energy, 2022, 43, 590-595.	1.4	1
51	40 K single-stage split-type Stirling cryocooler. International Journal of Ambient Energy, 2022, 43, 216-221.	1.4	1
52	Optimization of material of flexure spring by finite element analysis. Materials Today: Proceedings, 2021, 44, 3929-3932.	0.9	1
53	Review of oil separation technologies used in refrigeration systems. AIP Conference Proceedings, 2020, , .	0.3	1
54	Solar desalination using solar still enhanced by PCM and nano fluid. AIP Conference Proceedings, 2020, , .	0.3	1

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55	Reduction in the exhaust emissions of four-stroke multi-cylinder SI Engine on application of multiple pairs of magnets. International Journal of Ambient Energy, 2018, 39, 823-829.	1.4	0
56	Thermal shock resistance behaviour of multilayered Gd ₂ O ₃ doped YSZ on Inconel-718 substrate. Materials Today: Proceedings, 2020, 33, 1011-1014.	0.9	0
57	Experimental Investigation of a Combined Solar Parabolic Dish and Trough Collector for Wax Melting Application. International Journal of Mechanical and Production Engineering Research and Development, 2018, 8, 897-906.	0.1	0
58	Experimental investigation of unmodified diesel engine using hybrid biofuel: Pine oil-Jatropha biodiesel blends. AIP Conference Proceedings, 2020, , .	0.3	0
59	Performance test on C.I engines on improving the oxidation stability of biodiesel. AIP Conference Proceedings, 2020, , .	0.3	0
60	Performance enhancement of diesel engines using combined biodiesel. AIP Conference Proceedings, 2020, , .	0.3	0