

M Cheralathan

List of Publications by Year in descending order

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34
papers

1,465
citations

430754

18
h-index

414303

32
g-index

34
all docs

34
docs citations

34
times ranked

1135
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitigation of NO _x emissions from a jatropha biodiesel fuelled DI diesel engine using antioxidant additives. <i>Fuel</i> , 2011, 90, 2721-2725.	3.4	205
2	Influence of fuel properties and composition on NO _x emissions from biodiesel powered diesel engines: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3702-3710.	8.2	178
3	Effect of aromatic amine antioxidants on NO emissions from a soybean biodiesel powered DI diesel engine. <i>Fuel Processing Technology</i> , 2013, 106, 526-532.	3.7	128
4	Enhanced heat transfer characteristics of water based copper oxide nanofluid PCM (phase change) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 system. <i>Energy</i> , 2014, 72, 636-642.	4.5	123
5	Performance analysis on industrial refrigeration system integrated with encapsulated PCM-based cool thermal energy storage system. <i>International Journal of Energy Research</i> , 2007, 31, 1398-1413.	2.2	77
6	Experimental investigation of antioxidant effect on oxidation stability and emissions in a methyl ester of neem oil fueled DI diesel engine. <i>Renewable Energy</i> , 2015, 74, 910-916.	4.3	71
7	Enhancement of the thermal energy storage capacity of a parabolic dish concentrated solar receiver using phase change materials. <i>Journal of Energy Storage</i> , 2019, 25, 100841.	3.9	68
8	Solidification behavior of water based nanofluid phase change material with a nucleating agent for cool thermal storage system. <i>International Journal of Refrigeration</i> , 2014, 41, 157-163.	1.8	59
9	Effect of aspect ratio on thermal performance of cavity receiver for solar parabolic dish concentrator: An experimental study. <i>Renewable Energy</i> , 2019, 139, 573-581.	4.3	58
10	Study of antioxidant effect on oxidation stability and emissions in a methyl ester of neem oil fuelled DI diesel engine. <i>Journal of the Energy Institute</i> , 2014, 87, 188-195.	2.7	50
11	An experimental study on energy and exergy performance of a spiral tube receiver for solar parabolic dish concentrator. <i>Energy</i> , 2020, 192, 116635.	4.5	48
12	Influence of the size of spherical capsule on solidification characteristics of DI (deionized water) water for a cool thermal energy storage system – An experimental study. <i>Energy</i> , 2015, 90, 807-813.	4.5	47
13	Experimental investigation to reduce emissions of CI (compression ignition) engine fuelled with methyl ester of cottonseed oil using antioxidant. <i>International Journal of Ambient Energy</i> , 2014, 35, 13-19.	1.4	43
14	Potential of Various Sources for Biodiesel Production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2013, 35, 831-839.	1.2	37
15	Thermal performance enhancement of solar air collector using a novel V-groove absorber plate with pin-fins for drying agricultural products: an experimental study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 2397-2408.	2.0	32
16	Effect of fill volume on solidification characteristics of DI (deionized) water in a spherical capsule – An experimental study. <i>Energy</i> , 2015, 90, 508-515.	4.5	31
17	Experimental investigation on carbon nano tubes coated brass rectangular extended surfaces. <i>Applied Thermal Engineering</i> , 2013, 50, 1361-1368.	3.0	29
18	Heat transfer and parametric studies of an encapsulated phase change material based cool thermal energy storage system. <i>Journal of Zhejiang University: Science A</i> , 2006, 7, 1886-1895.	1.3	25

#	ARTICLE	IF	CITATIONS
19	Encapsulated PCM based double pass solar air heater: A comparative experimental study. <i>Chemical Engineering Communications</i> , 2021, 208, 788-800.	1.5	21
20	Effect of porosity and the inlet heat transfer fluid temperature variation on the performance of cool thermal energy storage system. <i>Heat and Mass Transfer</i> , 2007, 43, 833-842.	1.2	19
21	Effect of non-uniform temperature distribution on surface absorption receiver in parabolic dish solar concentrator. <i>Thermal Science</i> , 2017, 21, 2011-2019.	0.5	18
22	The effect of antioxidant additives with methyl ester of neem oil on the oxidation stability. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 2454-2461.	1.2	17
23	Experimental investigation of varying the fuel injection pressure in a direct injection diesel engine fuelled with methyl ester of neem oil. <i>International Journal of Ambient Energy</i> , 2017, 38, 356-364.	1.4	17
24	Influence of thermal transport properties of NEPCM for cool thermal energy storage system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 367-378.	2.0	16
25	Simultaneous Reduction of NO _x and HC Emissions in a CI Engine Fueled with Methyl Ester of Neem Oil Using Ethylenediamine as Antioxidant Additive. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015, 37, 2684-2691.	1.2	10
26	Experimental investigation to reduce exhaust emissions in a single cylinder CI engine fuelled with methyl ester of neem oil using antioxidant (L-ascorbic acid). <i>Biofuels</i> , 2016, 7, 305-312.	1.4	10
27	Desiccant-based water production from humid air using concentrated solar energy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 2641-2651.	2.0	7
28	Thermal Performance of Solar Parabolic Dish Concentrator with Hetero-Conical Cavity Receiver. <i>Applied Mechanics and Materials</i> , 0, 787, 197-201.	0.2	5
29	Influence of functionalized carbon flake on phase change characteristics of deionized (DI) water for cool thermal storage system. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2022, 30, 958-968.	1.0	5
30	Influence of functionalized graphene nanoplatelets on the phase transition performance of DI water-based NEPCMs for cool thermal storage systems. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 1187-1203.	1.2	4
31	Experimental mitigation of NO _x emission in exhaust gases of CI engine fuelled with methyl ester of cottonseed oil blend. <i>International Journal of Ambient Energy</i> , 2020, 41, 1352-1356.	1.4	3
32	Experimental investigation on thermal performance of cavity receiver integrated with short-term thermal energy storage for a solar parabolic dish concentrator. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 741-752.	2.0	2
33	An experimental study on energy and exergy performance of a cavity receiver for solar parabolic dish concentrator. <i>International Journal of Exergy</i> , 2017, 23, 129.	0.2	2
34	Study of Thermal Transport Properties of Carbon Based NFPCM (Graphene) For Space Cooling Applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1130, 012053.	0.3	0