

Beemkumar Nagappan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

1,930
citations

24
h-index

42
g-index

75
ext. papers

2,400
ext. citations

2.9
avg, IF

5.96
L-index

#	Paper	IF	Citations
75	A Review on Factors Influencing the Mismatch Losses in Solar Photovoltaic System. <i>International Journal of Photoenergy</i> , 2022 , 2022, 1-27	2.1	1
74	Performance analysis of sustainable solar energy operated ejector refrigeration system with the combined effect of Scheffler and parabolic trough collectors to lower greenhouse gases.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
73	Detailed analysis on reducing wastage and exploiting the production process of bio-oil from in-edible and waste <i>Sinapis arvensis</i> seed oil. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 174, 108879	3.7	5
72	Investigation on the thermal management of solar photo voltaic cells cooled by phase change material. <i>Journal of Energy Storage</i> , 2022 , 52, 104914	7.8	0
71	Renewable Pathway and Twin Fueling Approach on Ignition Analysis of a Dual-Fuelled Compression Ignition Engine. <i>Energy & Fuels</i> , 2021 , 35, 9930-9936	4.1	19
70	Investigation on the effect of ultrasound irradiation on biodiesel properties and transesterification parameters. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 64769-64777	5.1	13
69	Influence of antioxidant additives on performance and emission characteristics of beef tallow biodiesel-fuelled C.I engine. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 12041-12055	5.1	27
68	Modelling and analysis of aircraft wing with and without winglet. <i>International Journal of Ambient Energy</i> , 2021 , 42, 363-373	2	2
67	Optimisation of cutting parameters for machining of newly developed Co-free hard-faced nuclear reactor components. <i>International Journal of Ambient Energy</i> , 2021 , 42, 143-149	2	
66	Control of room temperature fluctuations in the building by incorporating PCM in the roof. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 3039-3046	4.1	11
65	Experimental investigation on solar-powered ejector refrigeration system integrated with different concentrators. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 16298-16307	5.1	11
64	Detailed study on the effect of different ignition enhancers in the binary blends of diesel/biodiesel as a possible substitute for unaltered compression ignition engine. <i>Petroleum Science</i> , 2020 , 17, 1151-1158	4.4	25
63	Efficiency enhancement in a PV operated solar pump by effective design of VFD and tracking system. <i>Materials Today: Proceedings</i> , 2020 , 33, 454-462	1.4	3
62	Feasibility study of employing diverse antioxidants as an additive in research diesel engine running with diesel-biodiesel blends. <i>Fuel</i> , 2020 , 277, 118161	7.1	16
61	An experimental study on the influence of an oxygenated additive in diesel engine fuelled with neat papaya seed biodiesel/diesel blends. <i>Fuel</i> , 2020 , 268, 117254	7.1	79
60	Experimental Investigation and Numerical Modeling of Room Temperature Control in Buildings by the Implementation of Phase Change Material in the Roof. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2020 , 142,	2.3	6
59	Investigating the Physio-chemical Properties of Densified Biomass Pellet Fuels from Fruit and Vegetable Market Waste. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 563-574	2.5	14

58	Emission analysis of diesel and butanol blends in research diesel engine. <i>Petroleum Science and Technology</i> , 2020 , 38, 289-296	1.4	35
57	Effect of flame-retardant additive with polyurea for explosive environment. <i>Materials Research Innovations</i> , 2020 , 24, 409-413	1.9	1
56	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	2	3
55	Study on the effect on combining long-chain additive with neat bio-diesel fueled engine to examine its ignition characteristics. <i>Fuel</i> , 2020 , 279, 118400	7.1	15
54	Performance and emission characteristics of bio fuelled CI engine using palm oil and waste cooking oil 2020 ,		9
53	Influence of nano catalyst on performance of DI diesel engine with blends of Citronella oil using Taguchi approach 2020 ,		9
52	Multi-objective optimization of VCR diesel engine performance and emissions fueled with diesel-lime steam oil blends using grey relational analysis 2020 ,		9
51	Taguchi based optimization of diesel engine parameters with blends of lemon grass oil with ZnO 2020 ,		10
50	Performance study of a domestic refrigerator using CuO/AL ₂ O ₃ -R22 nanorefrigerant as a working fluid. <i>International Journal of Ambient Energy</i> , 2020 , 41, 152-156	2	14
49	Experimental Investigation on the Treatment of Mixed Market Waste by a Novel Rotary Air Dryer. <i>Waste and Biomass Valorization</i> , 2020 , 11, 2153-2162	3.2	1
48	Combustion, performances, and emissions characteristics of diesel engine fuelled with diesel-aqueous zinc oxide nanofluid blends. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-15	1.6	15
47	Experimental assessment of performance and exhaust emission characteristics of a diesel engine fuelled with Punnai biodiesel/butanol fuel blends. <i>Petroleum Science</i> , 2019 , 16, 1471-1478	4.4	78
46	Experimental investigation of diesel engine performance fuelled with the blends of Jatropha curcas, ethanol, and diesel. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 8633-8639	5.1	19
45	Effect of nano-fluid on reducing the smoke emissions from diesel engine. <i>Petroleum Science and Technology</i> , 2019 , 37, 2283-2287	1.4	2
44	Experimental study on Al ₂ O ₃ /H ₂ O nanofluid with conical sectional insert in concentric tube heat exchanger. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-13	1.6	5
43	Effect of conical strip inserts in a parabolic trough solar collector under turbulent flow. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-13	1.6	5
42	Experimental Testing and Evaluation of Neat Biodiesel and Heptanol Blends in Diesel Engine. <i>Journal of Testing and Evaluation</i> , 2019 , 47, 20170307	1	65
41	A comprehensive study on emission and performance characteristics of a diesel engine fueled with nanoparticle-blended biodiesel. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 10662-10672	5.1	90

40	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	4.1	12
39	Performance evaluation and emission characteristics of biodiesel-ignition enhancer blends propelled in a research diesel engine. <i>International Journal of Green Energy</i> , 2019 , 16, 277-283	3	78
38	Air nanobubble-enhanced combustion study using mustard biodiesel in a common rail direct injection engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 41, 1809-1816	1.6	12
37	Experimental exploration and theoretical certainty of thermal conductivity and viscosity of MgO-therminol 55 nanofluid. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 41, 451-467	1.6	8
36	Experimental analysis of mechanical properties of aluminium alloy weldments by friction welding process under cryogenic treatment. <i>International Journal of Ambient Energy</i> , 2019 , 40, 82-85	2	3
35	Enhancing heat transfer rate in a car radiator by using Al ₂ O ₃ nanofluid as a coolant. <i>International Journal of Ambient Energy</i> , 2019 , 40, 367-373	2	10
34	Effect of diethyl ether blended with neem oil methyl esters in CI engine. <i>International Journal of Ambient Energy</i> , 2019 , 40, 116-118	2	27
33	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	5.1	34
32	Emission and performance analysis of a diesel engine burning cashew nut shell oil bio diesel mixed with hexanol. <i>Petroleum Science</i> , 2018 , 15, 176-184	4.4	90
31	Performance, combustion and emission analysis of mustard oil biodiesel and octanol blends in diesel engine. <i>Heat and Mass Transfer</i> , 2018 , 54, 1803-1811	2.2	88
30	Performance improvement of D-sorbitol PCM-based energy storage system with different fins. <i>International Journal of Ambient Energy</i> , 2018 , 39, 372-376	2	9
29	Experimental investigation on the influence of titanium dioxide nanofluid on emission pattern of biodiesel in a diesel engine. <i>Atmospheric Pollution Research</i> , 2018 , 9, 47-52	4.5	111
28	Emissions analysis on mahua oil biodiesel and higher alcohol blends in diesel engine. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 2627-2631	6.1	103
27	Emission and combustion profile study of unmodified research engine propelled with neat biofuels. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 19643-19656	5.1	61
26	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	3.8	10
25	Analysis of heat transfer through a high strength concrete with circular pipe in a safety vessel of reactor vault. <i>International Journal of Ambient Energy</i> , 2018 , 39, 678-684	2	0
24	Effect of injection parameters on the reduction of NO _x emission in neat bio-diesel fuelled diesel engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018 , 40, 186-192	1.6	30
23	Exhaust emission study on neat biodiesel and alcohol blends fueled diesel engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018 , 40, 115-119	1.6	74

22	Analysis of emission reduction in ethyneBiodiesel-aspirated diesel engine. <i>International Journal of Green Energy</i> , 2018 , 15, 436-440	3	70
21	Comparative study of room temperature control in buildings with and without the use of PCM in walls. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018 , 40, 1765-1771	1.6	9
20	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	2	7
19	Performance and emissions analysis on diesel engine fuelled with cashew nut shell biodiesel and pentanol blends. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 1021-1026	2.8	72
18	Emissions analysis on diesel engine fuelled with cashew nut shell biodiesel and pentanol blends. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 13136-13141	5.1	70
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	2.5	13
16	Comparative study of performance and emissions of a CI engine using biodiesel of microalgae, macroalgae and rice bran. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 197, 012017	0.4	4
15	Thermal Analysis of Fluidized Bed and Fixed Bed Latent Heat Thermal Storage System. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 197, 012033	0.4	1
14	Investigation of Sensible and Latent Heat Storage System using various HTF. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 197, 012038	0.4	1
13	Performance, Combustion, and Emission Analysis of Neat Palm Oil Biodiesel and Higher Alcohol Blends in a Diesel Engine. <i>Energy & Fuels</i> , 2017 , 31, 13796-13801	4.1	76
12	Influence of an oxygenated additive on emission of an engine fueled with neat biodiesel. <i>Petroleum Science</i> , 2017 , 14, 791-797	4.4	70
11	Analysis of Thermal Energy Storage Tank by ANSYS and Comparison with Experimental Results to Improve its Thermal Efficiency. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 197, 012039	0.4	2
10	Performance Improvement of Energy Storage System with nano-additivesin HTF. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 197, 012036	0.4	1
9	Heat transfer enhancement of a cascaded thermal energy storage system with various encapsulation arrangements. <i>Thermal Science</i> , 2017 , 227-227	1.2	7
8	Experimental analysis of heat transfer characteristics of solar energy based latent heat storage system. <i>Materials Today: Proceedings</i> , 2016 , 3, 2475-2482	1.4	8
7	Experimental Investigation on Enhancement of Heat Transfer in Thermal Energy Storage System Using Paraffin Wax as PCM. <i>Applied Mechanics and Materials</i> , 2015 , 766-767, 457-462	0.3	2
6	Experimental investigation on air cooler with thermal storage 2010 ,		2
5	Exploration of non-edible palm kernel oil as a potential heat transfer fluid for higher temperature applications. <i>Biomass Conversion and Biorefinery</i> , ¹	2.3	5

4	EMISSIONS ANALYSIS ON DIESEL ENGINE FUELED WITH PALM OIL BIODIESEL AND PENTANOL BLENDS. <i>Journal of Oil Palm Research</i> ,380-386	o	89
3	EFFECT OF INJECTION TIMING ON PERFORMANCE AND EMISSION CHARACTERISTICS OF PALM BIODIESEL AND DIESEL BLENDS. <i>Journal of Oil Palm Research</i> ,	o	40
2	Experimental and numerical analysis of heat transfer from main vessel to safety vessel using H ₂ O/Al ₂ O ₃ nanofluid in a nuclear reactor vault114, 135-145		4
1	Experimental analysis on diffusion absorption refrigeration cycle with the magnetic field. <i>International Journal of Ambient Energy</i> ,1-5		2