

Hitesh N Panchal

List of Publications by Year in descending order

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184
papers

6,082
citations

61984

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all docs

187
docs citations

187
times ranked

1875
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of water depth on a novel absorber plate of pyramid solar still coated with TiO ₂ nano black paint. <i>Journal of Cleaner Production</i> , 2019, 213, 185-191.	9.3	199
2	Experimental studies on the biodiesel production parameters optimization of sunflower and soybean oil mixture and DI engine combustion, performance, and emission analysis fueled with diesel/biodiesel blends. <i>Fuel</i> , 2019, 255, 115791.	6.4	169
3	Maximization of biodiesel production from sunflower and soybean oils and prediction of diesel engine performance and emission characteristics through response surface methodology. <i>Fuel</i> , 2020, 266, 117072.	6.4	143
4	A mini review of techniques used to improve the tubular solar still performance for solar water desalination. <i>Chemical Engineering Research and Design</i> , 2019, 124, 204-212.	5.6	137
5	An extensive review on different design and climatic parameters to increase distillate output of solar still. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 750-758.	16.4	129
6	Various methods applied to solar still for enhancement of distillate output. <i>Desalination</i> , 2017, 415, 76-89.	8.2	118
7	Use of thermal energy storage materials for enhancement in distillate output of solar still: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 61, 86-96.	16.4	104
8	Experimental investigation on the effect of water mass in triangular pyramid solar still integrated to inclined solar still. <i>Groundwater for Sustainable Development</i> , 2017, 5, 229-234.	4.6	96
9	Optimization of performance and emission characteristics of CI engine fueled with Jatropha biodiesel produced using a heterogeneous catalyst (CaO). <i>Fuel</i> , 2020, 280, 118611.	6.4	92
10	Comparative study of an inclined solar panel basin solar still in passive and active mode. <i>Solar Energy</i> , 2018, 169, 206-216.	6.1	89
11	Current research aspects in mono and hybrid nanofluid based heat pipe technologies. <i>Heliyon</i> , 2019, 5, e01627.	3.2	86
12	Productivity forecasting of solar distiller integrated with evacuated tubes and external condenser using artificial intelligence model and moth-flame optimizer. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101671.	5.7	85
13	Experimental investigation on the yield of solar still using manganese oxide nanoparticles coated absorber. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100905.	5.7	84
14	Investigation and performance analysis of solar still with energy storage materials: An energy-exergy efficiency analysis. <i>Case Studies in Thermal Engineering</i> , 2022, 29, 101687.	5.7	84
15	Experimental and water quality analysis of solar stills with vertical and inclined fins. <i>Groundwater for Sustainable Development</i> , 2020, 11, 100410.	4.6	83
16	Wall-suspended trays inside stepped distiller with Al ₂ O ₃ /paraffin wax mixture and vapor suction: Experimental implementation. <i>Journal of Energy Storage</i> , 2020, 32, 102008.	8.1	80
17	Performance analysis of double basin solar still with evacuated tubes. <i>Applied Solar Energy (English)</i> Tj ETQq1 1 0.784314 rgBT /Overl	1.6	74
18	Investigation on solar stills having floating plates. <i>International Journal of Energy and Environmental Engineering</i> , 2012, 3, 8.	2.5	69

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19	Enhancement of distillate output of double basin solar still with vacuum tubes. <i>Frontiers in Energy</i> , 2014, 8, 101-109.	2.3	67
20	Performance analysis of solar still with cow dung cakes and blue metal stones. <i>Frontiers in Energy</i> , 2015, 9, 180-186.	2.3	67
21	Fine-tuned artificial intelligence model using pigeon optimizer for prediction of residual stresses during turning of Inconel 718. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3622-3634.	5.8	67
22	Comparative study of the combustion, performance, and emission characteristics of a direct injection diesel engine with a partially premixed lean charge compression ignition diesel engines. <i>Fuel</i> , 2019, 249, 277-285.	6.4	64
23	Investigation on performance analysis of a novel design of the vacuum tube-assisted double basin solar still: an experimental approach. <i>International Journal of Ambient Energy</i> , 2016, 37, 220-226.	2.5	63
24	Annual performance analysis of adding different nanofluids in stepped solar still. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3175-3182.	3.6	63
25	Performance analysis of solar still with different energy-absorbing materials. <i>International Journal of Ambient Energy</i> , 2017, 38, 224-228.	2.5	62
26	Theoretical and experimental performance analysis of sandstones and marble pieces as thermal energy storage materials inside solar stills. <i>International Journal of Ambient Energy</i> , 2018, 39, 221-229.	2.5	62
27	Experimental investigation on the effect of MgO and TiO ₂ nanoparticles in stepped solar still. <i>International Journal of Energy Research</i> , 2019, 43, 3295-3305.	4.5	62
28	Experimental analysis of single-basin solar still with porous fins. <i>International Journal of Ambient Energy</i> , 2020, 41, 563-569.	2.5	62
29	Effect of fin configuration parameters on performance of solar still: A review. <i>Groundwater for Sustainable Development</i> , 2020, 10, 100289.	4.6	60
30	Enhancement of upper basin distillate output by attachment of vacuum tubes with double-basin solar still. <i>Desalination and Water Treatment</i> , 2015, 55, 587-595.	1.0	59
31	Enhancement of distillate output of double basin solar still with vacuum tubes. <i>Journal of King Saud University, Engineering Sciences</i> , 2015, 27, 170-175.	2.0	57
32	ANSYS CFD and experimental comparison of various parameters of a solar still. <i>International Journal of Ambient Energy</i> , 2018, 39, 551-557.	2.5	56
33	Solar still with evacuated tubes and calcium stones to enhance the yield: An experimental investigation. <i>Chemical Engineering Research and Design</i> , 2020, 142, 150-155.	5.6	56
34	Use of solar photovoltaic with active solar still to improve distillate output: A review. <i>Groundwater for Sustainable Development</i> , 2020, 10, 100341.	4.6	56
35	Augmenting the productivity of stepped distiller by corrugated and curved liners, CuO/paraffin wax, wick, and vapor suctioning. <i>Environmental Science and Pollution Research</i> , 2021, 28, 56955-56965.	5.3	54
36	Theoretical modeling and experimental analysis of solar still integrated with evacuated tubes. <i>Heat and Mass Transfer</i> , 2017, 53, 1943-1955.	2.1	53

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37	Extracting water content from the ambient air in a double-slope half-cylindrical basin solar still using silica gel under Egyptian conditions. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 39, 100712.	2.7	52
38	Enhancement of the yield of solar still with the use of solar pond: A review. <i>Heat Transfer</i> , 2021, 50, 1392-1409.	3.0	52
39	Various techniques for improvement in distillate output from active solar still: a review. <i>International Journal of Ambient Energy</i> , 2017, 38, 209-222.	2.5	50
40	A review on solar still: a simple desalination technology to obtain potable water. <i>International Journal of Ambient Energy</i> , 2019, 40, 335-342.	2.5	48
41	An extensive analysis of mechanical, thermal and physical properties of jute fiber composites with different fiber orientations. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101612.	5.7	48
42	Performance analysis of evacuated tubes coupled solar still with double basin solar still and solid fins. <i>International Journal of Ambient Energy</i> , 2020, 41, 1031-1037.	2.5	47
43	Study of diesel-biodiesel blends combustion and emission characteristics in a CI engine by adding nanoparticles of Mn (II) supramolecular complex. <i>Atmospheric Pollution Research</i> , 2020, 11, 117-128.	3.8	47
44	A comprehensive review of solar cooker with sensible and latent heat storage materials. <i>International Journal of Ambient Energy</i> , 2019, 40, 329-334.	2.5	46
45	Economic and exergy investigation of triangular pyramid solar still integrated to inclined solar still with baffles. <i>International Journal of Ambient Energy</i> , 2019, 40, 571-576.	2.5	46
46	Performance enhancement of stepped basin solar still based on OSELM with traversal tree for higher energy adaptive control. <i>Desalination</i> , 2021, 502, 114926.	8.2	45
47	An enhancement in the diesel engine performance, combustion, and emission attributes fueled by diesel-biodiesel and 3D silver thiocyanate nanoparticles additive fuel blends. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 124, 369-380.	5.3	45
48	Experimental study on combustion, performance, and emission behaviours of diesel /WCO biodiesel/Cyclohexane blends in DI-CI engine. <i>Chemical Engineering Research and Design</i> , 2021, 149, 684-697.	5.6	43
49	Graphite powder mixed with black paint on the absorber plate of the solar still to enhance yield: An experimental investigation. <i>Desalination</i> , 2021, 520, 115349.	8.2	42
50	Biodegradable magnesium metal matrix composites for biomedical implants: synthesis, mechanical performance, and corrosion behavior – a review. <i>Journal of Materials Research and Technology</i> , 2022, 20, 650-670.	5.8	42
51	An efficient LoRa-based smart agriculture management and monitoring system using wireless sensor networks. <i>International Journal of Ambient Energy</i> , 2022, 43, 5447-5450.	2.5	41
52	Optimization of the multi-carburant dose as an energy source for the application of the HCCI engine. <i>Fuel</i> , 2019, 253, 15-24.	6.4	40
53	Thermal investigation of a solar box-type cooker with nanocomposite phase change materials using flexible thermography. <i>Renewable Energy</i> , 2021, 178, 260-282.	8.9	39
54	Performance analysis of conventional triple basin solar still with evacuated heat pipes, corrugated sheets and storage materials. <i>Groundwater for Sustainable Development</i> , 2020, 11, 100387.	4.6	38

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55	Performance enhancement and economic analysis of pyramid solar still with corrugated absorber plate and conventional solar still: A case study. <i>Case Studies in Thermal Engineering</i> , 2022, 35, 101966.	5.7	38
56	Effect of cultivation parameters and heat management on the algae species growth conditions and biomass production in a continuous feedstock photobioreactor. <i>Renewable Energy</i> , 2020, 148, 807-815.	8.9	37
57	An experimental investigation of emission performance of heterogenous catalyst jatropa biodiesel using RSM. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100876.	5.7	37
58	Investigation of mechanical properties of dual-fiber reinforcement in polymer composite. <i>Journal of Materials Research and Technology</i> , 2022, 18, 3908-3915.	5.8	37
59	Solar energy utilisation for milk pasteurisation: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 92, 1-8.	16.4	36
60	Passive solar still: recent advancements in design and related performance. <i>Environmental Technology Reviews</i> , 2018, 7, 235-261.	4.3	36
61	An enhanced multiobjective particle swarm optimisation algorithm for optimum utilisation of hybrid renewable energy systems. <i>International Journal of Ambient Energy</i> , 2022, 43, 2540-2548.	2.5	36
62	A Comprehensive Review of Solar Milk Pasteurization System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2018, 140, .	1.8	35
63	Various techniques to enhance distillate output of tubular solar still: A review. <i>Groundwater for Sustainable Development</i> , 2019, 9, 100268.	4.6	35
64	The requirement of various methods to improve distillate output of solar still: a review. <i>International Journal of Ambient Energy</i> , 2021, 42, 597-603.	2.5	35
65	Overview of fluoride removal from water using separation techniques. <i>Environmental Technology and Innovation</i> , 2021, 21, 101246.	6.1	35
66	Study of performance, combustion, and emissions parameters of DI-diesel engine fueled with algae biodiesel/diesel/n-pentane blends. <i>Energy Conversion and Management: X</i> , 2021, 10, 100058.	1.6	35
67	Life cycle cost analysis of a double-effect solar still. <i>International Journal of Ambient Energy</i> , 2017, 38, 395-399.	2.5	34
68	WCO biodiesel production by heterogeneous catalyst and using cadmium (II)-based supramolecular coordination polymer additives to improve diesel/biodiesel fueled engine performance and emissions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 6375-6391.	3.6	34
69	Statistical analysis on prediction of biodiesel properties from its fatty acid composition. <i>Case Studies in Thermal Engineering</i> , 2022, 30, 101775.	5.7	34
70	A novel intelligent transport system charging scheduling for electric vehicles using Grey Wolf Optimizer and Sail Fish Optimization algorithms. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 3555-3575.	2.3	34
71	A review on compound parabolic solar concentrator for sustainable development. <i>International Journal of Ambient Energy</i> , 2018, 39, 533-546.	2.5	33
72	Investigation and performance analysis of water-diesel emulsion for improvement of performance and emission characteristics of partially premixed charge compression ignition (PPCCI) diesel engines. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 36, 100546.	2.7	33

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73	Artificial Intelligence for Forecasting the Prevalence of COVID-19 Pandemic: An Overview. Healthcare (Switzerland), 2021, 9, 1614.	2.0	33
74	Performance enhancement of selective layer coated on solar absorber panel with reflector for water heater by response surface method: A case study. Case Studies in Thermal Engineering, 2022, 36, 102093.	5.7	33
75	Different applications of Scheffler reflector for renewable energy: a comprehensive review. International Journal of Ambient Energy, 2020, 41, 716-728.	2.5	32
76	Investigation on evacuated tubes coupled solar still with condenser and fins: Experimental, exergo-economic and exergo-environment analysis. Case Studies in Thermal Engineering, 2021, 27, 101217.	5.7	32
77	Applications of evacuated tubes collector to harness the solar energy: a review. International Journal of Ambient Energy, 2022, 43, 344-361.	2.5	31
78	Experimental investigation on the influences of acetone organic compound additives into the diesel/biodiesel mixture in CI engine. Sustainable Energy Technologies and Assessments, 2020, 37, 100614.	2.7	31
79	A review of artificial intelligence-based optimization techniques for the sizing of integrated renewable energy systems in smart cities. Environmental Technology Reviews, 2020, 9, 111-136.	4.3	31
80	Productivity enhancement of solar still with thermoelectric modules from groundwater to produce potable water: A review. Groundwater for Sustainable Development, 2020, 11, 100429.	4.6	31
81	Thermal regulation of photovoltaic system for enhanced power production: A review. Journal of Energy Storage, 2021, 35, 102236.	8.1	31
82	Energy absorbing materials used in solar still for enhancement in distillate output: a review. International Journal of Ambient Energy, 2016, 37, 528-540.	2.5	30
83	Modelling and performance analysis of electric vehicle. International Journal of Ambient Energy, 2022, 43, 5034-5040.	2.5	30
84	Synthesis of Hybrid Graphene/TiO ₂ Nanoparticles Based High-Temperature Quinary Salt Mixture for Energy Storage Application. Journal of Energy Storage, 2020, 31, 101540.	8.1	29
85	Artificially roughened solar air heating technology – A comprehensive review. Applied Thermal Engineering, 2022, 214, 118817.	6.0	29
86	Performance Investigation on Variations of Glass Cover Thickness on Solar Still: Experimental and Theoretical Analysis. Technology and Economics of Smart Grids and Sustainable Energy, 2016, 1, 1.	2.6	28
87	Application of solar energy for milk pasteurisation: a comprehensive review for sustainable development. International Journal of Ambient Energy, 2020, 41, 117-120.	2.5	28
88	FEA based analysis and design of PMSM for electric vehicle applications using magnet software. International Journal of Ambient Energy, 2022, 43, 2742-2747.	2.5	28
89	Experimental analysis of diesel engine exhaust gas coupled with water desalination for improved potable water production. International Journal of Ambient Energy, 2017, 38, 567-570.	2.5	27
90	A detailed review on solar desalination techniques. International Journal of Ambient Energy, 2020, 41, 1066-1087.	2.5	27

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91	Comparative analysis of indoor and outdoor tests on solar still. , 0, 63, 1-5.		27
92	Developments and modifications in passive solar still: a review. , 0, 143, 158-164.		27
93	A use of various phase change materials on the performance of solar still: a review. International Journal of Ambient Energy, 2021, 42, 1575-1580.	2.5	26
94	Mini-review of different co-generation systems: solar thermal perspective. International Journal of Ambient Energy, 2022, 43, 1-3.	2.5	26
95	A Review: Emphasizing the Nanofluids Use in PV/T Systems. IEEE Access, 2020, 8, 58227-58249.	4.2	26
96	An extensive review of performance enhancement techniques for pyramid solar still for solar thermal applications. Desalination, 2022, 532, 115692.	8.2	26
97	Improvement of Thermal Performance of a Solar Box Type Cooker Using SiO ₂ /TiO ₂ Nanolayer. Silicon, 2022, 14, 557-565.	3.3	25
98	Investigating the performance of dish solar distiller with phase change material mixed with Al ₂ O ₃ nanoparticles under different water depths. Environmental Science and Pollution Research, 2022, 29, 28115-28126.	5.3	25
99	A novel home automation distributed server management system using Internet of Things. International Journal of Ambient Energy, 2022, 43, 5478-5483.	2.5	22
100	Applications of Heat Exchanger in Solar Desalination: Current Issues and Future Challenges. Water (Switzerland), 2022, 14, 852.	2.7	22
101	Effect of Various Parameters on Augmentation of Distillate Output of Solar Still: A Review. Technology and Economics of Smart Grids and Sustainable Energy, 2016, 1, 1.	2.6	21
102	Comparative analysis of stepped and single basin solar still in climate conditions of Gandhinagar Gujarat during winter. International Journal of Ambient Energy, 2021, 42, 1649-1659.	2.5	21
103	Evaluation of electromagnetic intrusion in brushless DC motor drive for electric vehicle applications with manifestation of mitigating the electromagnetic interference. International Journal of Ambient Energy, 0, , 1-8.	2.5	21
104	Recent advancements in condensers to enhance the performance of solar still: A review. Heat Transfer, 2020, 49, 3758-3778.	3.0	21
105	A novel method for Arduino based electric vehicle emulator. International Journal of Ambient Energy, 2022, 43, 4299-4304.	2.5	21
106	Deep eutectic solvents-based CNT nanofluid “ A potential alternative to conventional heat transfer fluids. Journal of the Taiwan Institute of Chemical Engineers, 2021, 128, 314-326.	5.3	21
107	Comparative performance evaluation of single-slope and pyramid-shaped solar stills: experimental evaluation. International Journal of Ambient Energy, 2018, 39, 759-766.	2.5	20
108	Comparison of BPN, RBFN and wavelet neural network in induction motor modelling for speed estimation. International Journal of Ambient Energy, 2022, 43, 3246-3251.	2.5	20

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109	Investigation and performance analysis of Scheffler reflector solar cooking system integrated with sensible and latent heat storage materials. International Journal of Ambient Energy, 2020, 41, 1096-1105.	2.5	19
110	Numerical simulation of flow-through heat exchanger having helical flow passage using high order accurate solution dependent weighted least square based gradient calculations. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-26.	2.3	19
111	Design and optimisation of slotted stator tooth switched reluctance motor for torque enhancement for electric vehicle applications. International Journal of Ambient Energy, 2022, 43, 4283-4288.	2.5	19
112	Low-cost bilayered structure for improving the performance of solar stills: Performance/cost analysis and water yield prediction using machine learning. Sustainable Energy Technologies and Assessments, 2022, 49, 101783.	2.7	19
113	Experimental investigation on dish solar distiller with modified absorber and phase change material under various operating conditions. Environmental Science and Pollution Research, 2022, 29, 63248-63259.	5.3	19
114	A method for broken bar fault diagnosis in three phase induction motor drive system using Artificial Neural Networks. International Journal of Ambient Energy, 2022, 43, 5138-5144.	2.5	18
115	Experimental study and mathematical model development for the effect of water depth on water production of a modified basin solar still. Case Studies in Thermal Engineering, 2022, 33, 101925.	5.7	17
116	Classification of Glaucoma Based on Elephant-Herding Optimization Algorithm and Deep Belief Network. Electronics (Switzerland), 2022, 11, 1763.	3.1	17
117	High-temperature molten salts optimisation using mixture design for energy storage application. Journal of Energy Storage, 2020, 32, 101981.	8.1	16
118	Performance enhancement using TiO_2 nano particles in solar still at variable water depth. International Journal of Ambient Energy, 2022, 43, 4037-4044.	2.5	16
119	Performance assessment of a solar water distiller using circular parabolic absorber: An experimental investigation. Case Studies in Thermal Engineering, 2021, 28, 101508.	5.7	16
120	Diesel-fired boiler performance and emissions measurements using a combination of diesel and palm biodiesel. Case Studies in Thermal Engineering, 2021, 27, 101324.	5.7	16
121	A comprehensive review on the effects of diesel/biofuel blends with nanofluid additives on compression ignition engine by response surface methodology. Energy Conversion and Management: X, 2022, 14, 100177.	1.6	16
122	Annual performance analysis of a single-basin passive solar still coupled with evacuated tubes: comprehensive study in climate conditions of Mahesana, Gujarat. International Journal of Ambient Energy, 2019, 40, 229-242.	2.5	15
123	Experimental investigation on solar still with nanomaterial and dripping arrangement. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-11.	2.3	15
124	Design, development and techno economic analysis of novel parabolic trough collector for low-temperature water heating applications. Case Studies in Thermal Engineering, 2021, 26, 100978.	5.7	15
125	A novel design of switched boost action based multiport converter using dsPIC controller for renewable energy applications. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 75-90.	2.3	15
126	Experimental investigations on indirect contact type liquid desiccant cooling systems for high latent heat load application. Case Studies in Thermal Engineering, 2022, 31, 101814.	5.7	15

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127	Experimental investigations of atmospheric water extraction device under different climatic conditions. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 38, 100677.	2.7	14
128	Influence of lean premixed ratio of PCCI-DI engine fueled by diesel/biodiesel blends on combustion, performance, and emission attributes; a comparison study. <i>Energy Conversion and Management: X</i> , 2021, 10, 100066.	1.6	14
129	Annual performance analysis of various energy storage materials in the upper basin of a double-basin solar still with vacuum tubes. <i>International Journal of Ambient Energy</i> , 2020, 41, 435-451.	2.5	13
130	Thermal performance and kinetic analysis of vermicelli drying inside a greenhouse for sustainable development. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 44, 101082.	2.7	13
131	A case study on experimental and statistical analysis of energy consumption of domestic refrigerator. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101636.	5.7	13
132	Experimental performance investigations on various orientations of evacuated double absorber tube for solar parabolic trough concentrator. <i>International Journal of Ambient Energy</i> , 2022, 43, 492-499.	2.5	12
133	Waste to Energy: An experimental comparison of burning the waste-derived bio-oils produced by transesterification and pyrolysis methods. <i>Energy</i> , 2022, 242, 122945.	8.8	12
134	Investigation and performance analysis of solar milk pasteurisation system. <i>International Journal of Ambient Energy</i> , 2021, 42, 522-529.	2.5	11
135	Continuous monitoring of power consumption in urban buildings based on Internet of Things. <i>International Journal of Ambient Energy</i> , 2022, 43, 5027-5033.	2.5	11
136	Ground water treatment using solar radiation-vaporization & condensation-techniques by solar desalination system. <i>International Journal of Ambient Energy</i> , 2022, 43, 2868-2874.	2.5	11
137	Microcontroller PIC 16F877A standard based on solar cooker using PV“ evacuated tubes with an extension of heat integrated energy system. <i>Environmental Science and Pollution Research</i> , 2022, 29, 15863-15875.	5.3	10
138	Comparative analysis of the use of flash evaporator and solar still with a solar desalination system. <i>International Journal of Ambient Energy</i> , 2020, , 1-8.	2.5	9
139	Performance analysis of waste brick magnesia as a storage material in a solar still. <i>Heat Transfer</i> , 2021, 50, 1799-1811.	3.0	9
140	Use of computational fluid dynamics for solar desalination system: a review. <i>International Journal of Ambient Energy</i> , 2022, 43, 5742-5757.	2.5	9
141	Enhancement of the distillate yield of solar still by separate and inbuilt condensers: A mini-Review. <i>International Journal of Ambient Energy</i> , 2022, 43, 3330-3334.	2.5	8
142	The influences of loading ratios and conveying velocity on gas-solid two phase flow characteristics: a comprehensive experimental CFD-DEM study. <i>International Journal of Ambient Energy</i> , 2022, 43, 2714-2726.	2.5	8
143	A concise review on Solar still with parabolic trough collector. <i>International Journal of Ambient Energy</i> , 2022, 43, 4812-4819.	2.5	8
144	Exergy assessment of an Organic Rankine Cycle for waste heat recovery from a refrigeration system: a review. <i>Chemical Engineering Communications</i> , 2023, 210, 837-865.	2.6	8

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145	A review on thermochemical biomass gasification techniques for bioenergy production. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-34.	2.3	8
146	Analysis of vibrations in a diesel engine produced by Jatropha biodiesel using heterogeneous catalyst. Energy and Environment, 2023, 34, 407-428.	4.6	8
147	In Vitro Degradability, Microstructural Evaluation, and Biocompatibility of Zn-Ti-Cu-Ca-P Alloy. Nanomaterials, 2022, 12, 1357.	4.1	8
148	Case studies on simulations of flow-induced vibrations of a cooled circular cylinder: Incompressible flow solver for moving mesh problem. Case Studies in Thermal Engineering, 2022, 34, 102030.	5.7	8
149	A comparative assessment on life cycle analysis of the biodiesel fuels produced from soybean, Jatropha, Calophyllum inophyllum, and microalgae. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 3253-3272.	2.3	8
150	An Experimental Study of ZrO ₂ -CeO ₂ Hybrid Nanofluid and Response Surface Methodology for the Prediction of Heat Transfer Performance: The New Correlations. Journal of Nanomaterials, 2022, 2022, 1-11.	2.7	8
151	A Novel ultra sparse matrix converter as a power transferring device for gearless wind energy conversion systems based on renewable energy applications. Sustainable Energy Technologies and Assessments, 2022, 50, 101830.	2.7	7
152	An effective energy management strategy in hybrid electric vehicles using Taguchi based approach for improved performance. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 3418-3435.	2.3	7
153	Real-Time Facemask Detection for Preventing COVID-19 Spread Using Transfer Learning Based Deep Neural Network. Electronics (Switzerland), 2022, 11, 2250.	3.1	7
154	Experimental investigations on spray flames and emissions analysis of diesel and diesel/biodiesel blends for combustion in oxy-fuel burner. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2375.	1.5	6
155	Design and experimental analysis of solar-powered water desalination system using humidification-dehumidification. International Journal of Ambient Energy, 2020, , 1-12.	2.5	6
156	Industrial wastewater treatment by electrocoagulation powered by a solar photovoltaic system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-12.	2.3	6
157	A novel selective harmonic elimination for duple voltage boosting nine level inverter topology with fewer switching components for renewable energy applications. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 871-892.	2.3	6
158	A simplified methodology for renewable energy integration and harmonic current reduction in hybrid micro grid. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 8357-8379.	2.3	6
159	Molybdenum and its oxide-based coatings: a review. International Journal of Ambient Energy, 2020, , 1-7.	2.5	5
160	An improved optimisation technique for the network-controlled pH process and DC motor using various controllers. International Journal of Ambient Energy, 2022, 43, 4950-4958.	2.5	5
161	Solar photovoltaic based dynamic voltage restorer with DC-DC boost converter for mitigating power quality issues in single phase grid. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 91-115.	2.3	5
162	Experimental and numerical assessment of the rotary bed reactor for fuel-processing and evaluation of produced oil usability as fuel substitute. Case Studies in Thermal Engineering, 2022, 29, 101710.	5.7	5

#	ARTICLE	IF	CITATIONS
163	An extensive review on energy management system for microgrids. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 4203-4228.	2.3	5
164	A study of solar heat gain variation in building applied photovoltaic buildings and its impact on environment and indoor air quality. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 6192-6212.	2.3	5
165	Past, present and future of the active solar distillation system: a comprehensive review. <i>International Journal of Ambient Energy</i> , 2022, 43, 1074-1082.	2.5	4
166	A simplified methodology for mitigating the harmonics and common-mode voltage using multi-level inverters for renewable energy applications. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 10449-10471.	2.3	4
167	Numerical simulation of cascaded cyclone separator for nanosize aerosol. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-21.	2.3	4
168	Fuel reactivity controlled compression ignition engine and potential strategies to extend the engine operating range: A comprehensive review. <i>Energy Conversion and Management: X</i> , 2022, 13, 100133.	1.6	4
169	Performance analysis and enhancement of brain emotion-based intelligent controller and its impact on PMBLDC motor drive for electric vehicle applications. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 5640-5664.	2.3	4
170	A novel strategy for implementation of intelligent techniques in solar photovoltaic arrays to improve the performance and various comparison of partial shading mitigating techniques. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 3079-3099.	2.3	4
171	Digital watermarking on extracted key frames from uncompressed color video using 4-level DWT. , 2011, , .		3
172	Removal of Fluoride from Aqueous Solution using Calcium Peroxide as a Low-cost Adsorbent. <i>Journal of Water Chemistry and Technology</i> , 2020, 42, 329-338.	0.6	3
173	Numerical investigation of blade tip with different groove effect and its dynamic analysis of axial flow fan. <i>International Journal of Ambient Energy</i> , 2019, , 1-9.	2.5	2
174	Progress in Passive Solar Still for Enhancement in Distillate Output. <i>Green Energy and Technology</i> , 2019, , 167-177.	0.6	2
175	A Portable Active Photovoltaic Solar Energy System in Treating Wastewaters by Electrocoagulation. <i>Smart and Sustainable Manufacturing Systems</i> , 2021, 5, 120-128.	0.7	2
176	Performance investigation of 140 kW grid connected solar PV system installed in southern region of India – A detailed case study and analysis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 10472-10486.	2.3	2
177	Experimental Analysis of Diesel Engine Exhaust Gas Coupled With Water Desalination for Improved Potable Water Production. , 2015, , .		1
178	One pot synthesis of Ag-Au/ZnO nanocomposites: a multi-junction component for sunlight photocatalysis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 758-770.	2.3	1
179	Optimization and prediction of engine block vibration using micro-electro-mechanical systems capacitive accelerometer, fueled with diesel-bioethanol (water-hyacinth) blends by response surface methodology and artificial neural network. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> . 0. . 095440622110528.	2.1	1
180	EFFECT OF ENHANCED PARAMETERS ON HIGHER YIELD OF SOLAR STILL. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
181	Passive Solar still: Recent advancement in design and related Performance. Environmental Technology (United Kingdom), 2018, , 1-59.	2.2	0
182	Growth and characterization study of pure and C ₄ H ₆ O ₅ /C ₂ H ₂ O ₄ /Li ₂ SO ₄ doped L-Lysine single crystal for NLO applications. Materials Today: Proceedings, 2020, 30, 69-77.	1.8	0
183	A case study on development of thermodynamic entropy measuring device and its implication on the human body. Case Studies in Thermal Engineering, 2022, , 102229.	5.7	0
184	An adaptive harmonic abatement in three-phase multilevel inverter topology with reduced switches using metaheuristic approaches for renewable energy applications. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 5455-5472.	2.3	0