

Hamdy Hassan

List of Publications by Year in descending order

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110
papers

4,426
citations

71102

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110
times ranked

1962
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of using system of flat heat pipe-phase change material inclusion heat sink for thermal regulation of simulated PV. <i>Experimental Heat Transfer</i> , 2023, 36, 648-664.	3.2	10
2	Comparative study of heat pipes and liquid cooling systems with thermoelectric generators for heat recovery from chimneys. <i>International Journal of Energy Research</i> , 2022, 46, 2546-2557.	4.5	5
3	Investigation the performance of new designed solar still of rhombus shaped based on new model. <i>Solar Energy</i> , 2022, 231, 88-103.	6.1	5
4	Experimental investigation on the performance of parallel and staggered arrays of PCM energy storage system for PV thermal regulation. <i>Energy Conversion and Management</i> , 2022, 254, 115143.	9.2	12
5	Fundamentals of geothermal energy extraction. , 2022, , 11-33.		0
6	Comprehensive review in waste heat recovery in different thermal energy-consuming processes using thermoelectric generators for electrical power generation. <i>Chemical Engineering Research and Design</i> , 2022, 162, 134-154.	5.6	37
7	Energy management of standalone cascaded adsorption-compression refrigeration system using hybrid biomass-solar-wind energies. <i>Energy Conversion and Management</i> , 2022, 258, 115387.	9.2	39
8	An overview of the preparation and characteristics of phase change materials with nanomaterials. <i>Journal of Energy Storage</i> , 2022, 51, 104353.	8.1	41
9	Techno-economic assessment of clean hydrogen production and storage using hybrid renewable energy system of PV/Wind under different climatic conditions. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102195.	2.7	21
10	Renewable energy-based cascade adsorption-compression refrigeration system: Energy, exergy, exergoeconomic and enviroeconomic perspectives. <i>Energy</i> , 2022, 253, 124127.	8.8	24
11	Study of the performance of thermoelectric generator for waste heat recovery from chimney: impact of nanofluid-microchannel cooling system. <i>Environmental Science and Pollution Research</i> , 2022, 29, 74242-74263.	5.3	2
12	Performance investigation of hybrid adsorption-compression refrigeration system accompanied with phase change materials' intermittent characteristics. <i>International Journal of Refrigeration</i> , 2022, 142, 66-81.	3.4	19
13	Energy, exergy, economic and environmental (4E) assessment of hybrid solar system powering adsorption-parallel/series ORC multigeneration system. <i>Chemical Engineering Research and Design</i> , 2022, 164, 761-780.	5.6	35
14	Performance evaluation of PV panels/wind turbines hybrid system for green hydrogen generation and storage: Energy, exergy, economic, and enviroeconomic. <i>Energy Conversion and Management</i> , 2022, 267, 115870.	9.2	69
15	Phase change material based thermal energy storage applications for air conditioning: Review. <i>Applied Thermal Engineering</i> , 2022, 214, 118832.	6.0	35
16	Energy, exergy, and economic assessment of thermal regulation of PV panel using hybrid heat pipe-phase change material cooling system. <i>Journal of Cleaner Production</i> , 2022, 364, 132489.	9.3	39
17	An experimental work on the performance of solar cell cooled by flat heat pipe. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 1883-1892.	3.6	9
18	Investigation experimentally the impact of condensation rate on solar still performance at different thermal energy storages. <i>Journal of Energy Storage</i> , 2021, 34, 102014.	8.1	19

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19	An assessment of energy, exergy and CO ₂ emissions of a solar desalination system under hot climate conditions. <i>Chemical Engineering Research and Design</i> , 2021, 145, 157-171.	5.6	35
20	Productivity, exergy, exergoeconomic, and enviroeconomic assessment of hybrid solar distiller using direct salty water heating. <i>Environmental Science and Pollution Research</i> , 2021, 28, 5482-5494.	5.3	25
21	Energy, exergy, economic and environmental assessment of using different passive condenser designs of solar distiller. <i>Chemical Engineering Research and Design</i> , 2021, 148, 302-312.	5.6	42
22	Energy, exergy, economic and environmental assessment of double pass V-corrugated-perforated finned solar air heater at different air mass ratios. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 43, 100936.	2.7	45
23	Energy, exergy, and enviroeconomic assessment of double and single pass solar air heaters having a new design absorber. <i>Chemical Engineering Research and Design</i> , 2021, 149, 451-464.	5.6	53
24	Assessment of double-pass pin finned solar air heater at different air mass ratios via energy, exergy, economic, and environmental (4E) approaches. <i>Environmental Science and Pollution Research</i> , 2021, 28, 13776-13789.	5.3	31
25	Impact of energy storage of new hybrid system of phase change materials combined with air-conditioner on its heating and cooling performance. <i>Journal of Energy Storage</i> , 2021, 36, 102400.	8.1	27
26	Investigation of a solar still behaviour using response surface methodology. <i>Case Studies in Thermal Engineering</i> , 2021, 24, 100816.	5.7	27
27	Fractional modeling for enhancing the thermal performance of conventional solar still using hybrid nanofluid: Energy and exergy analysis. <i>Desalination</i> , 2021, 503, 114847.	8.2	57
28	Enhancement of the daily performance of solar still by exhaust gases under hot and cold climate conditions. <i>Environmental Science and Pollution Research</i> , 2021, 28, 66941-66956.	5.3	7
29	Study of the impact of using hybrid nanofluid and saline water preheating on the performance of both integrated solar still and photovoltaic panel using fractional modeling. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	5
30	Energy and exergy assessment of new designed solar air heater of V-shaped transverse finned absorber at single- and double-pass flow conditions. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	5.3	11
31	Energy, exergy, and economic analysis of tubular solar air heater with porous material: An experimental study. <i>Applied Thermal Engineering</i> , 2021, 196, 117294.	6.0	44
32	Heat transfer and performance analysis of SAH having new transverse finned absorber of lateral gaps and central holes. <i>Solar Energy</i> , 2021, 227, 236-258.	6.1	5
33	3D study of convection-radiation heat transfer of electronic chip inside enclosure cooled by heat sink. <i>International Journal of Thermal Sciences</i> , 2021, 159, 106585.	4.9	18
34	3D investigation on the impact of chips positions and number on their cooling inside cavity. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 5233-5244.	1.5	7
35	A 3d model of the effect of using heat spreader on the performance of photovoltaic panel (PV). <i>Mathematics and Computers in Simulation</i> , 2020, 167, 78-91.	4.4	18
36	Impact of window parameters on the building envelope on the thermal comfort, energy consumption and cost and environment. <i>International Journal of Ventilation</i> , 2020, 19, 233-259.	0.4	8

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37	Comparing the performance of passive and active double and single slope solar stills incorporated with parabolic trough collector via energy, exergy and productivity. <i>Renewable Energy</i> , 2020, 148, 437-450.	8.9	72
38	An experimental work on the performance of new integration of photovoltaic panel with solar still in semi-arid climate conditions. <i>Renewable Energy</i> , 2020, 146, 1429-1443.	8.9	68
39	Impact of reactor design on the thermal energy storage of thermochemical materials. <i>Applied Thermal Engineering</i> , 2020, 168, 114776.	6.0	22
40	An experimental investigation of the performance of new design of solar air heater (tubular). <i>Renewable Energy</i> , 2020, 151, 1055-1066.	8.9	79
41	Optimized energy management strategy for grid connected double storage (pumped storage-battery) system powered by renewable energy resources. <i>Energy</i> , 2020, 192, 116615.	8.8	79
42	A parametric study on the impact of integrating solar cell panel at building envelope on its power, energy consumption, comfort conditions, and CO ₂ emissions. <i>Journal of Cleaner Production</i> , 2020, 249, 119374.	9.3	32
43	Energy, exergy and environmental assessment of solar still with solar panel enhanced by porous material and saline water preheating. <i>Journal of Cleaner Production</i> , 2020, 277, 124175.	9.3	39
44	Energy and exergy assessment of integrating reflectors on thermal energy storage of evacuated tube solar collector-heat pipe system. <i>Solar Energy</i> , 2020, 209, 470-484.	6.1	48
45	Combustion, emission, and phase stability features of a diesel engine fueled by <i>Jatropha</i> /ethanol blends and n-butanol as co-solvent. <i>International Journal of Green Energy</i> , 2020, 17, 793-804.	3.8	32
46	Performance enhancement of a humidification–dehumidification seawater desalination system. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 3276-3292.	2.4	5
47	Enhancement of hybrid solar desalination system composed of solar panel and solar still by using porous material and saline water preheating. <i>Solar Energy</i> , 2020, 204, 382-394.	6.1	87
48	Enhancement of waste heat recovery from vertical chimney via thermoelectric generators by heat spreader. <i>Chemical Engineering Research and Design</i> , 2020, 140, 314-329.	5.6	22
49	Energy payback time, exergoeconomic and enviroeconomic analyses of using thermal energy storage system with a solar desalination system: An experimental study. <i>Journal of Cleaner Production</i> , 2020, 270, 122082.	9.3	85
50	Experimental investigation of building heating and ventilation by using Trombe wall coupled with renewable energy system under semi-arid climate conditions. <i>Solar Energy</i> , 2020, 201, 63-74.	6.1	28
51	Optimal Scheduling of Hybrid Multi-Carrier System Feeding Electrical/Thermal Load Based on Particle Swarm Algorithm. <i>Sustainability</i> , 2020, 12, 4701.	3.2	8
52	Energy, exergy, environmental, and economic analysis of natural and forced cooling of solar still with porous media. <i>Environmental Science and Pollution Research</i> , 2020, 27, 38221-38240.	5.3	57
53	Impact of salty water medium and condenser on the performance of single acting solar still incorporated with parabolic trough collector. <i>Desalination</i> , 2020, 480, 114324.	8.2	52
54	Study of the performance of double pass solar air heater of a new designed absorber: An experimental work. <i>Solar Energy</i> , 2020, 198, 479-489.	6.1	70

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55	Impact a combination of geothermal and solar energy systems on building ventilation, heating and output power: Experimental study. <i>Renewable Energy</i> , 2020, 152, 1403-1413.	8.9	21
56	Impact of condenser heat transfer on energy and exergy performance of active single slope solar still under hot climate conditions. <i>Solar Energy</i> , 2020, 204, 79-89.	6.1	60
57	Assessment of parabolic trough solar collector assisted solar still at various saline water mediums via energy, exergy, exergoeconomic, and enviroeconomic approaches. <i>Renewable Energy</i> , 2020, 155, 604-616.	8.9	84
58	Optimization of the Width of Vapor Chamber Regions by Using Particle Swarm Optimization Method. <i>Journal of Heat Transfer</i> , 2020, 142, .	2.1	6
59	A study on the thermal energy storage of different phase change materials incorporated with the condenser of air-conditioning unit and their effect on the unit performance. <i>Energy and Buildings</i> , 2019, 202, 109353.	6.7	22
60	Influence of adding multiwalled carbon nanotubes to waste cooking oil biodiesel on the performance and emission characteristics of a diesel engine: an experimental investigation. <i>International Journal of Green Energy</i> , 2019, 16, 901-916.	3.8	13
61	Numerical Study for Open Reactor Design Using Salt Hydrate. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 322, 012021.	0.3	5
62	Enhancement thermoelectric generators output power from heat recovery of chimneys by using flaps. <i>Journal of Power Sources</i> , 2019, 443, 227266.	7.8	25
63	An experimental study on the performance of single slope solar still integrated with a PCM-based pin-finned heat sink. <i>Energy Procedia</i> , 2019, 156, 100-104.	1.8	83
64	Integrative passive and active cooling system using PCM and nanofluid for thermal regulation of concentrated photovoltaic solar cells. <i>Energy Conversion and Management</i> , 2019, 199, 112065.	9.2	98
65	An experimental study of the performance of the solar cell with heat sink cooling system. <i>Energy Procedia</i> , 2019, 162, 127-135.	1.8	46
66	Energy, exergy, exergoeconomic and enviroeconomic (4E) evaluation of a new integration of solar still with photovoltaic panel. <i>Journal of Cleaner Production</i> , 2019, 233, 665-680.	9.3	162
67	Effect of heat spreader size, microchannel configuration and nanoparticles on the performance of PV-heat spreader-microchannels system. <i>Solar Energy</i> , 2019, 182, 286-297.	6.1	49
68	Assessment of different passive solar stills via exergoeconomic, exergoenvironmental, and exergoenvironmental approaches: A comparative study. <i>Solar Energy</i> , 2019, 182, 316-331.	6.1	117
69	Experimental investigation on the impact of thermal energy storage on the solar still performance coupled with PV module via new integration. <i>Solar Energy</i> , 2019, 184, 584-593.	6.1	70
70	3D study of the impact of aspect ratio and tilt angle on the thermoelectric generator power for waste heat recovery from a chimney. <i>Journal of Power Sources</i> , 2019, 418, 98-111.	7.8	24
71	Experimental Study of the Cooling Performance of Trombe Wall with Geothermal Air Tube System. , 2019, , .		2
72	3D model of thermoelectric generator (TEG) case study: Effect of flow regime on the TEG performance. <i>Energy Conversion and Management</i> , 2019, 180, 231-239.	9.2	52

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73	An experimental work on the performance of single slope solar still incorporated with latent heat storage system in hot climate conditions. <i>Journal of Cleaner Production</i> , 2019, 209, 1396-1410.	9.3	109
74	Energy, exergy, economic and enviroeconomic (4E) analyses of solar distillation system using different absorbing materials. <i>Applied Thermal Engineering</i> , 2019, 150, 30-41.	6.0	130
75	Energetic and exergetic performance assessment of the inclusion of phase change materials (PCM) in a solar distillation system. <i>Energy Conversion and Management</i> , 2019, 179, 349-361.	9.2	145
76	Experimental work on the effect of saline water medium on the performance of solar still with tracked parabolic trough collector (TPTC). <i>Renewable Energy</i> , 2019, 135, 136-147.	8.9	70
77	Experimental study on the effect of coupling parabolic trough collector with double slope solar still on its performance. <i>Solar Energy</i> , 2018, 163, 54-61.	6.1	144
78	An experimental work on the effect of the eccentric rotation of heat sink on the convective heat transfer. <i>International Journal of Thermal Sciences</i> , 2018, 124, 68-75.	4.9	6
79	Experimental study on the performance of double pass and two inlet ports solar air heater (SAH) at different configurations of the absorber plate. <i>Renewable Energy</i> , 2018, 116, 728-740.	8.9	77
80	Parametric study on the effect of using cold thermal storage energy of phase change material on the performance of air-conditioning unit. <i>Applied Energy</i> , 2018, 230, 1380-1402.	10.1	79
81	3D study on the performance of cooling technique composed of heat spreader and microchannels for cooling the solar cells. <i>Energy Conversion and Management</i> , 2018, 170, 1-18.	9.2	54
82	An experimental work on the effect of using new technique of thermal energy storage of phase change material on the performance of air conditioning unit. <i>Energy and Buildings</i> , 2018, 173, 353-364.	6.7	38
83	Optimal design of a grid-connected desalination plant powered by renewable energy resources using a hybrid PSO-CWO approach. <i>Energy Conversion and Management</i> , 2018, 173, 331-347.	9.2	165
84	Effect of the PV position and orientation on energy consumption in a facility. , 2018, , .		6
85	A numerical study on the effect of the heat sink as condenser on the performance of passive solar still. , 2018, , .		8
86	Effect of using nanoparticles on the performance of thermal energy storage of phase change material coupled with air-conditioning unit. <i>Energy Conversion and Management</i> , 2018, 171, 903-916.	9.2	65
87	Effect of Operating Parameters on the Heat Transfer and Liquid Film Thickness of Revolving Heat Pipe. <i>Heat Transfer Engineering</i> , 2017, 38, 538-548.	1.9	8
88	Effect of the condenser type and the medium of the saline water on the performance of the solar still in hot climate conditions. <i>Desalination</i> , 2017, 417, 60-68.	8.2	73
89	An experimental work on the effect of the radius of rotation on the performance of revolving heat pipe (RVHP). <i>Applied Thermal Engineering</i> , 2017, 123, 537-545.	6.0	18
90	Energy and exergy analysis of single slope passive solar still under Egyptian climate conditions. <i>Energy Procedia</i> , 2017, 141, 18-23.	1.8	55

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91	Long-term Thermal Energy Storage Using Thermochemical Materials. Energy Procedia, 2017, 141, 310-314.	1.8	13
92	Optimal grid connected hybrid energy system for Egyptian residential area. , 2017, , .		4
93	Effect of rotation speed on the temperature of starter alternator machine. Heat and Mass Transfer, 2016, 52, 197-204.	2.1	2
94	Effect of using nanofluids on the performance of rotating heat pipe. Applied Mathematical Modelling, 2015, 39, 4445-4462.	4.2	41
95	Study of the parameters and characteristics of flat heat pipe with nanofluids subjected to periodic heat load on its performance. International Journal of Thermal Sciences, 2015, 97, 126-142.	4.9	15
96	An Experimental and Numerical Study on the Effects of the Flat Heat Pipe Wick Structure on Its Thermal Performance. Heat Transfer Engineering, 2015, 36, 278-289.	1.9	15
97	Heat transfer of Cuâ€“water nanofluid in an enclosure with a heat sink and discrete heat source. European Journal of Mechanics, B/Fluids, 2014, 45, 72-83.	2.5	47
98	An experimental work on the effect of injection molding parameters on the cavity pressure and product weight. International Journal of Advanced Manufacturing Technology, 2013, 67, 675-686.	3.0	38
99	A Three-Dimensional Study of Electronic Component Cooling Using a Flat Heat Pipe. Heat Transfer Engineering, 2013, 34, 596-607.	1.9	19
100	3D transient model of vapour chamber: Effect of nanofluids on its performance. Applied Thermal Engineering, 2013, 51, 1191-1201.	6.0	46
101	Parametric Study of the Effect of the Vapor Chamber Characteristics on Its Performance. Journal of Heat Transfer, 2013, 135, .	2.1	8
102	A proposed technique to improve the filling of the mold cavity by polymer during injection molding. Polymer Engineering and Science, 2011, 51, 1155-1164.	3.1	4
103	Transient cooling of electronic components by flat heat pipes. Applied Thermal Engineering, 2011, 31, 1877-1885.	6.0	58
104	3D study of cooling system effect on the heat transfer during polymer injection molding. International Journal of Thermal Sciences, 2010, 49, 161-169.	4.9	64
105	3D study on the effect of process parameters on the cooling of polymer by injection molding. Journal of Applied Polymer Science, 2009, 114, 2901-2914.	2.6	12
106	A 3D study on the effect of gate location on the cooling of polymer by injection molding. International Journal of Heat and Fluid Flow, 2009, 30, 1218-1229.	2.4	17
107	Effect of filling stage on the cooling system design of injection molding. Polymer Engineering and Science, 2009, 49, 993-1003.	3.1	3
108	Effect of viscous dissipation on the temperature of the polymer during injection molding filling. Polymer Engineering and Science, 2008, 48, 1199-1206.	3.1	38

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109	Experimental Study on the Desalination System Using Humidification-Dehumidification Technology. Materials Science Forum, 0, 1008, 177-185.	0.3	3
110	An experimental work on the performance of solar still incorporating with wind turbine and thermal energy storage unit. , 0, 165, 24-34.		19