

Hamdy Hassan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2469594/publications.pdf>

Version: 2024-02-01

110
papers

4,426
citations

71102

41
h-index

123424

61
g-index

110
all docs

110
docs citations

110
times ranked

1962
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal design of a grid-connected desalination plant powered by renewable energy resources using a hybrid PSO-GWO approach. <i>Energy Conversion and Management</i> , 2018, 173, 331-347.	9.2	165
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	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
25	3D study of cooling system effect on the heat transfer during polymer injection molding. <i>International Journal of Thermal Sciences</i> , 2010, 49, 161-169.	4.9	64
26	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
27	Transient cooling of electronic components by flat heat pipes. <i>Applied Thermal Engineering</i> , 2011, 31, 1877-1885.	6.0	58
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Heat transfer of Cu-water nanofluid in an enclosure with a heat sink and discrete heat source. <i>European Journal of Mechanics, B/Fluids</i> , 2014, 45, 72-83.	2.5	47
38	3D transient model of vapour chamber: Effect of nanofluids on its performance. <i>Applied Thermal Engineering</i> , 2013, 51, 1191-1201.	6.0	46
39	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
40	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
41	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
42	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
43	Effect of using nanofluids on the performance of rotating heat pipe. <i>Applied Mathematical Modelling</i> , 2015, 39, 4445-4462.	4.2	41
44	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
45	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
46	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
47	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
48	Effect of viscous dissipation on the temperature of the polymer during injection molding filling. <i>Polymer Engineering and Science</i> , 2008, 48, 1199-1206.	3.1	38
49	An experimental work on the effect of injection molding parameters on the cavity pressure and product weight. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 675-686.	3.0	38
50	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
51	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
52	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
53	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
54	Phase change material based thermal energy storage applications for air conditioning: Review. <i>Applied Thermal Engineering</i> , 2022, 214, 118832.	6.0	35

#	ARTICLE	IF	CITATIONS
55	A parametric study on the impact of integrating solar cell panel at building envelope on its power, energy consumption, comfort conditions, and CO2 emissions. <i>Journal of Cleaner Production</i> , 2020, 249, 119374.	9.3	32
56	Combustion, emission, and phase stability features of a diesel engine fueled by Jatropha/ethanol blends and n-butanol as co-solvent. <i>International Journal of Green Energy</i> , 2020, 17, 793-804.	3.8	32
57	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
58	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
59	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
60	Investigation of a solar still behaviour using response surface methodology. <i>Case Studies in Thermal Engineering</i> , 2021, 24, 100816.	5.7	27
61	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
62	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
63	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
64	Renewable energy-based cascade adsorption-compression refrigeration system: Energy, exergy, exergoeconomic and enviroeconomic perspectives. <i>Energy</i> , 2022, 253, 124127.	8.8	24
65	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
66	Impact of reactor design on the thermal energy storage of thermochemical materials. <i>Applied Thermal Engineering</i> , 2020, 168, 114776.	6.0	22
67	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
68	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
69	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
70	A Three-Dimensional Study of Electronic Component Cooling Using a Flat Heat Pipe. <i>Heat Transfer Engineering</i> , 2013, 34, 596-607.	1.9	19
71	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
72	An experimental work on the performance of solar still incorporating with wind turbine and thermal energy storage unit. , 0, 165, 24-34.		19

#	ARTICLE	IF	CITATIONS
73	Performance investigation of hybrid adsorption-compression refrigeration system accompanied with phase change materials' intermittent characteristics. International Journal of Refrigeration, 2022, 142, 66-81.	3.4	19
74	An experimental work on the effect of the radius of rotation on the performance of revolving heat pipe (RVHP). Applied Thermal Engineering, 2017, 123, 537-545.	6.0	18
75	A 3d model of the effect of using heat spreader on the performance of photovoltaic panel (PV). Mathematics and Computers in Simulation, 2020, 167, 78-91.	4.4	18
76	3D study of convection-radiation heat transfer of electronic chip inside enclosure cooled by heat sink. International Journal of Thermal Sciences, 2021, 159, 106585.	4.9	18
77	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
78	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
79	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
80	Long-term Thermal Energy Storage Using Thermochemical Materials. Energy Procedia, 2017, 141, 310-314.	1.8	13
81	Influence of adding multiwalled carbon nanotubes to waste cooking oil biodiesel on the performance and emission characteristics of a diesel engine: an experimental investigation. International Journal of Green Energy, 2019, 16, 901-916.	3.8	13
82	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
83	Experimental investigation on the performance of parallel and staggered arrays of PCM energy storage system for PV thermal regulation. Energy Conversion and Management, 2022, 254, 115143.	9.2	12
84	Energy and exergy assessment of new designed solar air heater of V-shaped transverse finned absorber at single- and double-pass flow conditions. Environmental Science and Pollution Research, 2021, , 1.	5.3	11
85	Experimental study of using system of flat heat pipe-phase change material inclusion heat sink for thermal regulation of simulated PV. Experimental Heat Transfer, 2023, 36, 648-664.	3.2	10
86	An experimental work on the performance of solar cell cooled by flat heat pipe. Journal of Thermal Analysis and Calorimetry, 2021, 146, 1883-1892.	3.6	9
87	Parametric Study of the Effect of the Vapor Chamber Characteristics on Its Performance. Journal of Heat Transfer, 2013, 135, .	2.1	8
88	Effect of Operating Parameters on the Heat Transfer and Liquid Film Thickness of Revolving Heat Pipe. Heat Transfer Engineering, 2017, 38, 538-548.	1.9	8
89	A numerical study on the effect of the heat sink as condenser on the performance of passive solar still. , 2018, , .		8
90	Impact of window parameters on the building envelope on the thermal comfort, energy consumption and cost and environment. International Journal of Ventilation, 2020, 19, 233-259.	0.4	8

#	ARTICLE	IF	CITATIONS
91	Optimal Scheduling of Hybrid Multi-Carrier System Feeding Electrical/Thermal Load Based on Particle Swarm Algorithm. Sustainability, 2020, 12, 4701.	3.2	8
92	Enhancement of the daily performance of solar still by exhaust gases under hot and cold climate conditions. Environmental Science and Pollution Research, 2021, 28, 66941-66956.	5.3	7
93	3D investigation on the impact of chips positions and number on their cooling inside cavity. Journal of Mechanical Science and Technology, 2021, 35, 5233-5244.	1.5	7
94	An experimental work on the effect of the eccentric rotation of heat sink on the convective heat transfer. International Journal of Thermal Sciences, 2018, 124, 68-75.	4.9	6
95	Effect of the PV position and orientation on energy consumption in a facility. , 2018, , .		6
96	Optimization of the Width of Vapor Chamber Regions by Using Particle Swarm Optimization Method. Journal of Heat Transfer, 2020, 142, .	2.1	6
97	Numerical Study for Open Reactor Design Using Salt Hydrate. IOP Conference Series: Earth and Environmental Science, 2019, 322, 012021.	0.3	5
98	Performance enhancement of a humidificationâ€“dehumidification seawater desalination system. Environmental Science: Water Research and Technology, 2020, 6, 3276-3292.	2.4	5
99	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. European Physical Journal Plus, 2021, 136, 1.	2.6	5
100	Comparative study of heat pipes and <scp>liquidâ€“cooling</scp> systems with thermoelectric generators for heat recovery from chimneys. International Journal of Energy Research, 2022, 46, 2546-2557.	4.5	5
101	Heat transfer and performance analysis of SAH having new transverse finned absorber of lateral gaps and central holes. Solar Energy, 2021, 227, 236-258.	6.1	5
102	Investigation the performance of new designed solar still of rhombus shaped based on new model. Solar Energy, 2022, 231, 88-103.	6.1	5
103	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
104	Optimal grid connected hybrid energy system for Egyptian residential area. , 2017, , .		4
105	Effect of filling stage on the cooling system design of injection molding. Polymer Engineering and Science, 2009, 49, 993-1003.	3.1	3
106	Experimental Study on the Desalination System Using Humidification-Dehumidification Technology. Materials Science Forum, 0, 1008, 177-185.	0.3	3
107	Effect of rotation speed on the temperature of starter alternator machine. Heat and Mass Transfer, 2016, 52, 197-204.	2.1	2
108	Experimental Study of the Cooling Performance of Trombe Wall with Geothermal Air Tube System. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
109	Study of the performance of thermoelectric generator for waste heat recovery from chimney: impact of nanofluid-microchannel cooling system. Environmental Science and Pollution Research, 2022, 29, 74242-74263.	5.3	2
110	Fundamentals of geothermal energy extraction. , 2022, , 11-33.		0