

Fa Essa

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105
papers

3,759
citations

34
h-index

59
g-index

114
ext. papers

5,324
ext. citations

5.8
avg, IF

6.67
L-index

#	Paper	IF	Citations
105	Applications of nanofluids in solar energy: A review of recent advances. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 3483-3502	16.2	216
104	Enhancement of modified solar still integrated with external condenser using nanofluids: An experimental approach. <i>Energy Conversion and Management</i> , 2014 , 78, 493-498	10.6	195
103	Enhancing the solar still performance using nanofluids and glass cover cooling: Experimental study. <i>Applied Thermal Engineering</i> , 2017 , 113, 684-693	5.8	193
102	Effect of using nanofluids and providing vacuum on the yield of corrugated wick solar still. <i>Energy Conversion and Management</i> , 2015 , 103, 965-972	10.6	167
101	The effects of flake graphite nanoparticles, phase change material, and film cooling on the solar still performance. <i>Applied Energy</i> , 2017 , 191, 358-366	10.7	160
100	Improving the performance of solar still by using nanofluids and providing vacuum. <i>Energy Conversion and Management</i> , 2014 , 86, 268-274	10.6	158
99	Experimental investigation of corrugated absorber solar still with wick and reflectors. <i>Desalination</i> , 2016 , 381, 111-116	10.3	119
98	An enhanced productivity prediction model of active solar still using artificial neural network and Harris Hawks optimizer. <i>Applied Thermal Engineering</i> , 2020 , 170, 115020	5.8	106
97	Fuel economy in gasoline engines using Al ₂ O ₃ /TiO ₂ nanomaterials as nanolubricant additives. <i>Applied Energy</i> , 2018 , 211, 461-478	10.7	99
96	The cooling techniques of the solar stills' glass covers [A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 78, 176-193	16.2	94
95	Augmentation of a solar still distillate yield via absorber plate coated with black nanoparticles. <i>AEJ - Alexandria Engineering Journal</i> , 2017 , 56, 433-438	6.1	93
94	Experimental study on tubular solar still using Graphene Oxide Nano particles in Phase Change Material (NPCM's) for fresh water production. <i>Journal of Energy Storage</i> , 2020 , 28, 101204	7.8	91
93	Numerical investigation of modified solar still using nanofluids and external condenser. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 75, 77-86	5.3	90
92	Rotating-drum solar still with enhanced evaporation and condensation techniques: Comprehensive study. <i>Energy Conversion and Management</i> , 2019 , 199, 112024	10.6	75
91	New design of trays solar still with enhanced evaporation methods [Comprehensive study. <i>Solar Energy</i> , 2020 , 203, 164-174	6.8	67
90	Energy harvesting sensitivity analysis and assessment of the potential power and full car dynamics for different road modes. <i>Mechanical Systems and Signal Processing</i> , 2018 , 110, 307-332	7.8	64
89	Rotating-wick solar still with mended evaporation technics: Experimental approach. <i>AEJ - Alexandria Engineering Journal</i> , 2019 , 58, 1449-1459	6.1	64

88	Improving the trays solar still performance using reflectors and phase change material with nanoparticles. <i>Journal of Energy Storage</i> , 2020 , 31, 101744	7.8	61
87	Eco-friendly coffee-based colloid for performance augmentation of solar stills. <i>Chemical Engineering Research and Design</i> , 2020 , 136, 259-267	5.5	57
86	Rotating discs solar still: New mechanism of desalination. <i>Journal of Cleaner Production</i> , 2020 , 275, 123200.3	10.3	56
85	Prediction of power consumption and water productivity of seawater greenhouse system using random vector functional link network integrated with artificial ecosystem-based optimization. <i>Chemical Engineering Research and Design</i> , 2020 , 144, 322-329	5.5	54
84	Performance evaluation of a humidification-dehumidification unit integrated with wick solar stills under different operating conditions. <i>Desalination</i> , 2018 , 441, 52-61	10.3	53
83	Performance enhancement of wick solar still using rejected water from humidification-dehumidification unit and film cooling. <i>Applied Thermal Engineering</i> , 2016 , 108, 1268-1278	5.8	51
82	Experimental and water quality analysis of solar stills with vertical and inclined fins. <i>Groundwater for Sustainable Development</i> , 2020 , 11, 100410	6	50
81	Minimizing of the boundary friction coefficient in automotive engines using Al ₂ O ₃ and TiO ₂ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	47
80	Comparative Study of Tubular Solar Still with Phase Change Material and Nano-Enhanced Phase Change Material. <i>Energies</i> , 2020 , 13, 3989	3.1	46
79	Experimental study on single slope single basin solar still using TiO ₂ nano layer for natural clean water invention. <i>Journal of Energy Storage</i> , 2020 , 30, 101522	7.8	45
78	Investigation of the effects of mixtures of WS ₂ and ZnO solid lubricants on the sliding friction and wear of M50 steel against silicon nitride at elevated temperatures. <i>Wear</i> , 2017 , 374-375, 128-141	3.5	43
77	Effects of ZnO and MoS ₂ Solid Lubricants on Mechanical and Tribological Properties of M50-Steel-Based Composites at High Temperatures: Experimental and Simulation Study. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	43
76	Deep learning-based forecasting model for COVID-19 outbreak in Saudi Arabia. <i>Chemical Engineering Research and Design</i> , 2021 , 149, 223-233	5.5	41
75	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	7.8	38
74	An augmented productivity of solar distillers integrated to HDH unit: Experimental implementation. <i>Applied Thermal Engineering</i> , 2020 , 167, 114723	5.8	35
73	Enhancement of hemispherical solar still productivity using iron, zinc and copper trays. <i>Solar Energy</i> , 2021 , 216, 295-302	6.8	35
72	Experimental investigation of single pass solar air heater with reflectors and turbulators. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 579-587	6.1	34
71	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	4.7	31

70	Improving the performance of trays solar still using wick corrugated absorber, nano-enhanced phase change material and photovoltaics-powered heaters. <i>Journal of Energy Storage</i> , 2021 , 40, 102782	7.8	30
69	Enhancement of pyramid solar distiller performance using reflectors, cooling cycle, and dangled cords of wicks. <i>Desalination</i> , 2021 , 506, 115019	10.3	29
68	Improving the tubular solar still performance using square and circular hollow fins with phase change materials. <i>Journal of Energy Storage</i> , 2021 , 38, 102564	7.8	29
67	Improving the performance of tubular solar still using rotating drum [Experimental and theoretical investigation. <i>Chemical Engineering Research and Design</i> , 2021 , 148, 579-589	5.5	29
66	Improving the tribological properties of AISI M50 steel using Sns/Zno solid lubricants. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153494	5.7	28
65	Experimental investigation on the yield of solar still using manganese oxide nanoparticles coated absorber. <i>Case Studies in Thermal Engineering</i> , 2021 , 25, 100905	5.6	28
64	Enhancing the wick solar still performance using half barrel and corrugated absorbers. <i>Chemical Engineering Research and Design</i> , 2021 , 150, 440-452	5.5	28
63	Experimental study on the performance of trays solar still with cracks and reflectors. <i>Applied Thermal Engineering</i> , 2021 , 188, 116652	5.8	27
62	Improving the performance of pyramid solar still using rotating four cylinders and three electric heaters. <i>Chemical Engineering Research and Design</i> , 2021 , 148, 950-958	5.5	26
61	On the different packing materials of humidification-dehumidification thermal desalination techniques [A review. <i>Journal of Cleaner Production</i> , 2020 , 277, 123468	10.3	25
60	Effect of fins and silicon dioxide nanoparticle black paint on the absorber plate for augmenting yield from tubular solar still. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 35102-35112	5.1	25
59	Performance evaluation of a vertical rotating wick solar still. <i>Chemical Engineering Research and Design</i> , 2021 , 148, 796-804	5.5	24
58	Investigation into the effects of SiO ₂ /TiO ₂ nanolayer on the thermal performance of solar box type cooker. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021 , 43, 2724-2737	1.6	24
57	Enhancing the solar still performance using reflectors and sliding-wick belt. <i>Solar Energy</i> , 2021 , 214, 268-279	6.79	24
56	Friction and Wear Reduction Mechanisms of the Reciprocating Contact Interfaces Using Nanolubricant Under Different Loads and Speeds. <i>Journal of Tribology</i> , 2018 , 140,	1.8	23
55	Enhancement of the yield of solar still with the use of solar pond: A review. <i>Heat Transfer</i> , 2021 , 50, 1392-1409	5.1409	23
54	Improved Friction and Wear of M50 Steel Composites Incorporated with ZnO as a Solid Lubricant with Different Concentrations Under Different Loads. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 4855-4866	1.6	21
53	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	5.1	21

52	A new M50 matrix composite sintered with a hybrid Sns/Zno nanoscale solid lubricants: an experimental investigation. <i>Materials Research Express</i> , 2019 , 6, 116523	1.7	18
51	Experimental investigation of a new design of drum solar still with reflectors under different conditions. <i>Case Studies in Thermal Engineering</i> , 2021 , 24, 100850	5.6	18
50	Performance enhancement of stepped basin solar still based on OSELM with traversal tree for higher energy adaptive control. <i>Desalination</i> , 2021 , 502, 114926	10.3	18
49	Enhancing the solar still performance via rotating wick belt and quantum dots nanofluid. <i>Case Studies in Thermal Engineering</i> , 2021 , 27, 101222	5.6	18
48	Productivity enhancement of solar still with thermoelectric modules from groundwater to produce potable water: A review. <i>Groundwater for Sustainable Development</i> , 2020 , 11, 100429	6	16
47	Effect of different wick materials on solar still performance a review. <i>International Journal of Ambient Energy</i> , 2021 , 42, 1055-1082	2	16
46	Experimental investigation of convex tubular solar still performance using wick and nanocomposites. <i>Case Studies in Thermal Engineering</i> , 2021 , 27, 101368	5.6	16
45	Enhancing the tribological and mechanical properties of M50 steel using solid lubricants a detailed review. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2018 , 232, 619-642	1.4	15
44	Performance, combustion and emission characteristics of a DI-CI diesel engine fueled with corn oil methyl ester biodiesel blends. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 43, 100981	4.7	14
43	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	10.3	14
42	Solar still with rotating parts: a review. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 54260-54281	4.81	13
41	Experimental investigation of vertical solar still with rotating discs. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-21	1.6	12
40	Thermal investigation of a solar box-type cooker with nanocomposite phase change materials using flexible thermography. <i>Renewable Energy</i> , 2021 , 178, 260-282	8.1	12
39	Energy-Harvesting Potential and Vehicle Dynamics Conflict Analysis under Harmonic and Random Road Excitations 2018 ,		10
38	Experimental enhancement of tubular solar still performance using rotating cylinder, nanoparticles' coating, parabolic solar concentrator, and phase change material. <i>Case Studies in Thermal Engineering</i> , 2022 , 29, 101705	5.6	10
37	Improvement of Thermal Performance of a Solar Box Type Cooker Using SiO ₂ /TiO ₂ Nanolayer. <i>Silicon</i> , 2020 , 1	2.4	10
36	Energy, Exergy Analysis, and Optimizations of Collector Cover Thickness of a Solar Still in El Oued Climate, Algeria. <i>International Journal of Photoenergy</i> , 2021 , 2021, 1-8	2.1	10
35	Studies on the effect of applied load, sliding speed and temperature on the wear behavior of M50 steel reinforced with Al ₂ O ₃ and / or graphene nanoparticles. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 283-303	5.5	10

34	Enhancing the tribological performance of epoxy composites utilizing carbon nano fibers additives for journal bearings. <i>Materials Research Express</i> , 2019 , 6, 035307	1.7	9
33	Utilization of ensemble random vector functional link network for freshwater prediction of active solar stills with nanoparticles. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101405	4.7	9
32	Ni/Ni3Al interface-dominated nanoindentation deformation and pop-in events. <i>Nanotechnology</i> , 2021 ,	3.4	8
31	Design, development and techno economic analysis of novel parabolic trough collector for low-temperature water heating applications. <i>Case Studies in Thermal Engineering</i> , 2021 , 26, 100978	5.6	8
30	Improving the performance of pyramid solar distiller using dangled cords of various wick materials: Novel working mechanism of wick. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101550	5.6	7
29	Ground water treatment using solar radiation-vaporization & condensation-techniques by solar desalination system. <i>International Journal of Ambient Energy</i> ,1-7	2	7
28	Crack Propagation and Microstructural Evolution of Ni-based Single Crystal Alloy Under Shear Loads. <i>Rare Metal Materials and Engineering</i> , 2018 , 47, 1370-1376		6
27	A comprehensive review on residual stresses in turning. <i>Advances in Manufacturing</i> ,1	2.7	6
26	Improving the mechanical properties and coefficient of thermal expansion of molybdenum-reinforced copper using powder metallurgy. <i>Materials Research Express</i> , 2021 , 8, 096502	1.7	6
25	Half barrel and corrugated wick solar stills [Comprehensive study. <i>Journal of Energy Storage</i> , 2021 , 42, 103117	7.8	6
24	Thermal analysis of an annular fin under multi-boiling heat transfer coefficient using differential transform method with Pade approximant (DTM-Pade). <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> ,095440892210762	1.5	4
23	Modeling of the Transient Temperature Field during Laser Heating. <i>Lasers in Manufacturing and Materials Processing</i> , 2021 , 8, 97-112	2.1	4
22	Simulation study on thermal performance of a Solar box Cooker using nanocomposite for natural Food invention. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 50649-50667	5.1	4
21	Energy saving via Heat Pipe Heat Exchanger in air conditioning applications [Experimental study and economic analysis] <i>Journal of Building Engineering</i> , 2021 , 35, 102053	5.2	4
20	Performance of Stepped Bar Plate-Coated Nanolayer of a Box Solar Cooker Control Based on Adaptive Tree Traversal Energy and OSELM 2021 , 193-217		4
19	Investigating the performance of dish solar distiller with phase change material mixed with AlO nanoparticles under different water depths.. <i>Environmental Science and Pollution Research</i> , 2022 , 29, 28115	5.1	3
18	Integrability of the coupled cubic-quintic complex Ginzburg-Landau equations and multiple-soliton solutions via mathematical methods. <i>Modern Physics Letters B</i> , 2018 , 32, 1850045	1.6	2
17	A survey of techniques for warp scheduling in GPUs 2015 ,		2

16	Enhancement of disc solar still performance using thermal energy storage unit and reflectors: An experimental approach. <i>AEJ - Alexandria Engineering Journal</i> , 2022 ,	6.1	2
15	Performance analysis of a double-slope solar still with elevated basin - comprehensive study	223, 13-25	2
14	Electrochemical Behavior of Cu-MWCNT Nanocomposites Manufactured by Powder Technology. <i>Coatings</i> , 2022 , 12, 409	2.9	2
13	Twins and grain boundaries-dominated the reverse Bauschinger effect and tension-compression asymmetry. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 15-28	5.5	2
12	Universal metadata repository for document analysis and recognition 2016 ,		1
11	A federated E-learning cloud system based on mixed reality 2016 ,		1
10	A Numerical Analysis of Fluid Flow and Torque for Hydropower Pelton Turbine Performance Using Computational Fluid Dynamics. <i>Inventions</i> , 2022 , 7, 22	2.9	1
9	Improving the vertical solar distiller performance using rotating wick discs and integrated condenser.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
8	Revealing prediction of perched cum off-centered wick solar still performance using network based on optimizer algorithm. <i>Chemical Engineering Research and Design</i> , 2022 , 161, 188-200	5.5	1
7	Modeling and optimization of working conditions of pyramid solar still with different nanoparticles using response surface methodology. <i>Case Studies in Thermal Engineering</i> , 2022 , 33, 101984	5.6	0
6	Machine learning-based prediction and augmentation of dish solar distiller performance using an innovative convex stepped absorber and phase change material with nanoadditives. <i>Chemical Engineering Research and Design</i> , 2022 , 162, 112-123	5.5	0
5	Augmenting the distillate yield of cords pyramid distiller with baffles within compartments. <i>Journal of Cleaner Production</i> , 2022 , 131761	10.3	0
4	Experimental investigation on dish solar distiller with modified absorber and phase change material under various operating conditions.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
3	Performance improvement of tubular solar still via tilting glass cylinder, nano-coating, and nano-PCM: experimental approach.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
2	Improving the performance of a hybrid solar desalination system under various operating conditions. <i>Chemical Engineering Research and Design</i> , 2022 , 162, 706-720	5.5	0
1	High-temperature solar selective absorbing coatings for concentrated solar power systems 2022 , 361-398		