

A Muthu Manokar

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,966
citations

236612

25
h-index

315357

38
g-index

38
all docs

38
docs citations

38
times ranked

807
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable potable water production from conventional solar still during the winter season at Algerian dry areas: energy and exergy analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1215-1225.	2.0	37
2	Phosphate bed as energy storage materials for augmentation of conventional solar still productivity. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13581.	1.3	39
3	Energy, exergy and economic investigation of passive and active inclined solar still: experimental study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1091-1102.	2.0	22
4	Effect of Design Parameters on Fresh Water Produced from Triangular Basin and Conventional Basin Solar Still. <i>International Journal of Photoenergy</i> , 2021, 2021, 1-8.	1.4	15
5	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.	1.4	20
6	Performance analysis of a modified solar still using reduced graphene oxide coated absorber plate with activated carbon pellet. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101046.	1.7	38
7	Enhancing the solar still output using micro/nano-particles of aluminum oxide at different concentrations: An experimental study, energy, exergy and economic analysis. <i>Sustainable Materials and Technologies</i> , 2021, 29, e00291.	1.7	23
8	Investigating the effect of sensible and latent heat storage materials on the performance of a single basin solar still during winter days. <i>Journal of Energy Storage</i> , 2021, 44, 103480.	3.9	17
9	Enhancement of potable water production from an inclined photovoltaic panel absorber solar still by integrating with flat-plate collector. <i>Environment, Development and Sustainability</i> , 2020, 22, 4145-4167.	2.7	47
10	Experimental studies on passive inclined solar panel absorber solar still. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3649-3660.	2.0	33
11	Experimental investigation on pyramid solar still with single and double collector cover—Comparative study. <i>Heat Transfer - Asian Research</i> , 2020, 49, 103-119.	2.8	17
12	Extraction of drinking water from modified inclined solar still incorporated with spiral tube solar water heater. <i>Journal of Water Process Engineering</i> , 2020, 38, 101613.	2.6	42
13	A comparative study of 3E (energy, exergy, and economy) analysis of various solar stills. <i>Heat Transfer</i> , 2020, 49, 4394-4409.	1.7	15
14	Augmenting the potable water produced from single slope solar still using CNT-doped paraffin wax as energy storage: an experimental approach. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	34
15	Year around distilled water production, energy, and economic analysis of solar stills—A comparative study. <i>Heat Transfer</i> , 2020, 49, 3651-3662.	1.7	17
16	Effect of mass flow rate on fresh water improvement from inclined PV panel basin solar still. <i>Materials Today: Proceedings</i> , 2020, 32, 374-378.	0.9	20
17	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.	3.9	185
18	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.	1.7	52

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19	Experimental study on enhancing the yield from stepped solar still coated using fumed silica nanoparticle in black paint. <i>Materials Letters</i> , 2020, 272, 127873.	1.3	88
20	Rehash of cooked oil for the palatable water production using single slope solar still. <i>Fuel</i> , 2020, 271, 117613.	3.4	36
21	Effect of aluminum balls on the productivity of solar distillate. <i>Journal of Energy Storage</i> , 2020, 30, 101466.	3.9	47
22	A study of life cycle conversion efficiency and CO ₂ role in the pyramid shape solar stills – Comparative analysis. <i>Groundwater for Sustainable Development</i> , 2020, 11, 100413.	2.3	9
23	Different parameters affecting the condensation rate on an active solar still – A review. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 286-296.	1.3	44
24	Experimental studies on inclined PV panel solar still with cover cooling and PCM. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3987-3995.	2.0	39
25	Effect of Insulation on Energy and Exergy Effectiveness of a Solar Photovoltaic Panel Incorporated Inclined Solar Still – An Experimental Investigation. <i>Green Energy and Technology</i> , 2019, , 275-292.	0.4	13
26	Exploitation of an insulated air chamber as a glazed cover of a conventional solar still. <i>Heat Transfer - Asian Research</i> , 2019, 48, 1563-1574.	2.8	14
27	A Review on Different Design Modifications Employed in Inclined Solar Still for Enhancing the Productivity. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019, 141, .	1.1	66
28	Experimental investigation on pyramid solar still in passive and active mode. <i>Heat and Mass Transfer</i> , 2019, 55, 1045-1058.	1.2	29
29	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.	1.4	46
30	Comparative study of an inclined solar panel basin solar still in passive and active mode. <i>Solar Energy</i> , 2018, 169, 206-216.	2.9	89
31	Integrated PV/T solar still- A mini-review. <i>Desalination</i> , 2018, 435, 259-267.	4.0	82
32	Sustainable fresh water and power production by integrating PV panel in inclined solar still. <i>Journal of Cleaner Production</i> , 2018, 172, 2711-2719.	4.6	152
33	Experimental investigation on hybrid PV/T active solar still with effective heating and cover cooling method. <i>Desalination</i> , 2018, 435, 140-151.	4.0	112
34	Theoretical Analysis of Continuous Heat Extraction from Absorber of Solar Still for Improving the Productivity. <i>Periodica Polytechnica, Mechanical Engineering</i> , 2018, 62, 187-195.	0.8	12
35	Experimental investigation on Peltier based hybrid PV/T active solar still for enhancing the overall performance. <i>Energy Conversion and Management</i> , 2018, 168, 371-381.	4.4	136
36	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.	2.3	96

#	ARTICLE	IF	CITATIONS
37	Comparative study of finned acrylic solar still and galvanised iron solar still. Materials Today: Proceedings, 2017, 4, 8323-8327.	0.9	29
38	Different parameters affecting the rate of evaporation and condensation on passive solar still – A review. Renewable and Sustainable Energy Reviews, 2014, 38, 309-322.	8.2	154