A Muthu Manokar

List of Publications by Year
in descending order

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	Experimental study on tubular solar still using Graphene Oxide Nano particles in Phase Change Material (NPCM's) for fresh water production. Journal of Energy Storage, 2020, 28, 101204.	3.9	185
2	Different parameters affecting the rate of evaporation and condensation on passive solar still â€“ A review. Renewable and Sustainable Energy Reviews, 2014, 38, 309-322.	8.2	154
3	Sustainable fresh water and power production by integrating PV panel in inclined solar still. Journal of Cleaner Production, 2018, 172, 2711-2719.	4.6	152
4	Experimental investigation on Peltier based hybrid PV/T active solar still for enhancing the overall performance. Energy Conversion and Management, 2018, 168, 371-381.	4.4	136
5	Experimental investigation on hybrid PV/T active solar still with effective heating and cover cooling method. Desalination, 2018, 435, 140-151.	4.0	112
6	Experimental investigation on the effect of water mass in triangular pyramid solar still integrated to inclined solar still. Groundwater for Sustainable Development, 2017, 5, 229-234.	2.3	96
7	Comparative study of an inclined solar panel basin solar still in passive and active mode. Solar Energy, 2018, 169, 206-216.	2.9	89
8	Experimental study on enhancing the yield from stepped solar still coated using fumed silica nanoparticle in black paint. Materials Letters, 2020, 272, 127873.	1.3	88
9	Integrated PV/T solar still- A mini-review. Desalination, 2018, 435, 259-267.	4.0	82
10	A Review on Different Design Modifications Employed in Inclined Solar Still for Enhancing the Productivity. Journal of Solar Energy Engineering, Transactions of the ASME, 2019, 141, .	1.1	66
11	Extracting water content from the ambient air in a double-slope half-cylindrical basin solar still using silica gel under Egyptian conditions. Sustainable Energy Technologies and Assessments, 2020, 39, 100712.	1.7	52
12	Enhancement of potable water production from an inclined photovoltaic panel absorber solar still by integrating with flat-plate collector. Environment, Development and Sustainability, 2020, 22, 4145-4167.	2.7	47
13	Effect of aluminum balls on the productivity of solar distillate. Journal of Energy Storage, 2020, 30, 101466.	3.9	47
14	Economic and exergy investigation of triangular pyramid solar still integrated to inclined solar still with baffles. International Journal of Ambient Energy, 2019, 40, 571-576.	1.4	46
15	Different parameters affecting the condensation rate on an active solar stillâ€”A review. Environmental Progress and Sustainable Energy, 2019, 38, 286-296.	1.3	44
16	Extraction of drinking water from modified inclined solar still incorporated with spiral tube solar water heater. Journal of Water Process Engineering, 2020, 38, 101613.	2.6	42
17	Experimental studies on inclined PV panel solar still with cover cooling and PCM. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3987-3995.	2.0	39
18	Phosphate bed as energy storage materials for augmentation of conventional solar still productivity. Environmental Progress and Sustainable Energy, 2021, 40, e13581.	1.3	39

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19	Performance analysis of a modified solar still using reduced graphene oxide coated absorber plate with activated carbon pellet. Sustainable Energy Technologies and Assessments, 2021, 45, 101046.	1.7	38
20	Sustainable potable water production from conventional solar still during the winter season at Algerian dry areas: energy and exergy analysis. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1215-1225.	2.0	37
21	Rehash of cooked oil for the palatable water production using single slope solar still. Fuel, 2020, 271, 117613.	3.4	36
22	Augmenting the potable water produced from single slope solar still using CNT-doped paraffin wax as energy storage: an experimental approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	34
23	Experimental studies on passive inclined solar panel absorber solar still. Journal of Thermal Analysis and Calorimetry, 2020, 139, 3649-3660.	2.0	33
24	Comparative study of finned acrylic solar still and galvanised iron solar still. Materials Today: Proceedings, 2017, 4, 8323-8327.	0.9	29
25	Experimental investigation on pyramid solar still in passive and active mode. Heat and Mass Transfer, 2019, 55, 1045-1058.	1.2	29
26	Enhancing the solar still output using micro/nano-particles of aluminum oxide at different concentrations: An experimental study, energy, exergy and economic analysis. Sustainable Materials and Technologies, 2021, 29, e00291.	1.7	23
27	Energy, exergy and economic investigation of passive and active inclined solar still: experimental study. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1091-1102.	2.0	22
28	Effect of mass flow rate on fresh water improvement from inclined PV panel basin solar still. Materials Today: Proceedings, 2020, 32, 374-378.	0.9	20
29	Energy, Exergy Analysis, and Optimizations of Collector Cover Thickness of a Solar Still in El Oued Climate, Algeria. International Journal of Photoenergy, 2021, 2021, 1-8.	1.4	20
30	Experimental investigation on pyramid solar still with single and double collector coverâ€"Comparative study. Heat Transfer - Asian Research, 2020, 49, 103-119.	2.8	17
31	Year around distilled water production, energy, and economic analysis of solar stillsâ€"A comparative study. Heat Transfer, 2020, 49, 3651-3662.	1.7	17
32	Investigating the effect of sensible and latent heat storage materials on the performance of a single basin solar still during winter days. Journal of Energy Storage, 2021, 44, 103480.	3.9	17
33	A comparative study of 3E (energy, exergy, and economy) analysis of various solar stills. Heat Transfer, 2020, 49, 4394-4409.	1.7	15
34	Effect of Design Parameters on Fresh Water Produced from Triangular Basin and Conventional Basin Solar Still. International Journal of Photoenergy, 2021, 2021, 1-8.	1.4	15
35	Exploitation of an insulated air chamber as a glazed cover of a conventional solar still. Heat Transfer - Asian Research, 2019, 48, 1563-1574.	2.8	14
36	Effect of Insulation on Energy and Exergy Effectiveness of a Solar Photovoltaic Panel Incorporated Inclined Solar Stillâ€"An Experimental Investigation. Green Energy and Technology, 2019, , 275-292.	0.4	13

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37	Theoretical Analysis of Continuous Heat Extraction from Absorber of Solar Still for Improving the Productivity. Periodica Polytechnica, Mechanical Engineering, 2018, 62, 187-195.	0.8	12
38	A study of life cycle conversion efficiency and CO2 role in the pyramid shape solar stills â€“ Comparative analysis. Groundwater for Sustainable Development, 2020, 11, 100413.	2.3	9