

Arunkumar Thirugnanasambantham

List of Publications by Year in descending order

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65
papers

3,616
citations

109321

35
h-index

138484

58
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65
all docs

65
docs citations

65
times ranked

1857
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined effects of composite thermal energy storage and magnetic field to enhance productivity in solar desalination. Renewable Energy, 2022, 181, 219-234.	8.9	17
2	A review on efficiently integrated passive distillation systems for active solar steam evaporation. Renewable and Sustainable Energy Reviews, 2022, 155, 111894.	16.4	18
3	A review on carbonized natural green flora for solar desalination. Renewable and Sustainable Energy Reviews, 2022, 158, 112121.	16.4	40
4	A review on distillate water quality parameter analysis in solar still. International Journal of Ambient Energy, 2021, 42, 1335-1342.	2.5	12
5	Capillary flow-driven efficient nanomaterials for seawater desalination: Review of classifications, challenges, and future perspectives. Renewable and Sustainable Energy Reviews, 2021, 138, 110547.	16.4	18
6	Performance amelioration of single basin solar still integrated with V- type concentrator: Energy, exergy, and economic analysis. Environmental Science and Pollution Research, 2021, 28, 3406-3420.	5.3	46
7	Progress on suspended nanostructured engineering materials powered solar distillation- a review. Renewable and Sustainable Energy Reviews, 2021, 143, 110848.	16.4	36
8	Sensible desalting: Investigation of sensible thermal storage materials in solar stills. Journal of Energy Storage, 2020, 32, 101824.	8.1	25
9	Effect of CuO, MoO ₃ and ZnO nanomaterial coated absorbers for clean water production. SN Applied Sciences, 2020, 2, 1.	2.9	8
10	New hydrogel materials for improving solar water evaporation, desalination and wastewater treatment: A review. Desalination, 2020, 491, 114564.	8.2	142
11	Energy efficient materials for solar water distillation - A review. Renewable and Sustainable Energy Reviews, 2019, 115, 109409.	16.4	69
12	Investigation of humidification-dehumidification desalination system through waste heat recovery from household air conditioning unit. Desalination, 2019, 467, 1-11.	8.2	43
13	Annual performance analysis of adding different nanofluids in stepped solar still. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3175-3182.	3.6	63
14	Experimental investigation on the effect of MgO and TiO ₂ nanoparticles in stepped solar still. International Journal of Energy Research, 2019, 43, 3295-3305.	4.5	62
15	A review of efficient high productivity solar stills. Renewable and Sustainable Energy Reviews, 2019, 101, 197-220.	16.4	113
16	Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system. Applied Thermal Engineering, 2019, 148, 1416-1424.	6.0	66
17	Experimental study on conventional solar still integrated with inclined solar still under different water depth. Heat Transfer - Asian Research, 2019, 48, 100-114.	2.8	21
18	Technological advancements in solar energy driven humidification-dehumidification desalination systems - A review. Journal of Cleaner Production, 2019, 207, 826-845.	9.3	79

#	ARTICLE	IF	CITATIONS
19	Experimental exploration and theoretical certainty of thermal conductivity and viscosity of MgO-therminol 55 nanofluid. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 451-467.	2.3	11
20	Annual performance analysis of a single-basin passive solar still coupled with evacuated tubes: comprehensive study in climate conditions of Mahesana, Gujarat. International Journal of Ambient Energy, 2019, 40, 229-242.	2.5	15
21	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.	2.5	46
22	Comparative Analysis of Water Quality of Different Types of Feed Water in Solar Energy Based Desalting System. , 2019, , 439-456.		0
23	Solar energy utilisation for milk pasteurisation: A comprehensive review. Renewable and Sustainable Energy Reviews, 2018, 92, 1-8.	16.4	36
24	Integrated PV/T solar still- A mini-review. Desalination, 2018, 435, 259-267.	8.2	82
25	Different parameter and technique affecting the rate of evaporation on active solar still -a review. Heat and Mass Transfer, 2018, 54, 593-630.	2.1	42
26	Theoretical Analysis of Continuous Heat Extraction from Absorber of Solar Still for Improving the Productivity. Periodica Polytechnica, Mechanical Engineering, 2018, 62, 187-195.	1.4	12
27	Productivity enhancement of solar still by using porous absorber with bubble-wrap insulation. Journal of Cleaner Production, 2018, 195, 1149-1161.	9.3	79
28	Effect of nanoparticle on emission and performance characteristics of a diesel engine fueled with cashew nut shell biodiesel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 2485-2493.	2.3	137
29	Influence of water on exhaust emissions on unmodified diesel engine propelled with biodiesel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 2511-2517.	2.3	53
30	Combustion, Performance, and Emission Study of a Research Diesel Engine Fueled with Palm Oil Biodiesel and Its Additive. Energy & Fuels, 2018, 32, 8447-8452.	5.1	107
31	Augmenting the productivity of solar still using jute cloth knitted with sand heat energy storage. Desalination, 2018, 443, 122-129.	8.2	96
32	Effect of forced cover cooling technique on a triangular pyramid solar still. International Journal of Ambient Energy, 2017, 38, 597-604.	2.5	15
33	Surface coating and characterisation of polyurea for liquid storage. International Journal of Ambient Energy, 2017, 38, 781-787.	2.5	39
34	Performance improvement of a hybrid air conditioning system using the indirect evaporative cooler with internal baffles as a pre-cooling unit. AEJ - Alexandria Engineering Journal, 2017, 56, 395-403.	6.4	28
35	Effects of electric potential, NaCl, pH and distance between electrodes on efficiency of electrolysis in landfill leachate treatment. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2017, 52, 735-741.	1.7	4
36	Effect of phase change material on concentric circular tubular solar still-Integration meets enhancement. Desalination, 2017, 414, 46-50.	8.2	105

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37	A Review of integrating solar collectors to solar still. Renewable and Sustainable Energy Reviews, 2017, 77, 1069-1097.	16.4	145
38	Performance enhancement of solar still through efficient heat exchange mechanism – A review. Applied Thermal Engineering, 2017, 114, 815-836.	6.0	96
39	Augmentation of a solar still distillate yield via absorber plate coated with black nanoparticles. AEJ - Alexandria Engineering Journal, 2017, 56, 433-438.	6.4	149
40	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.	4.6	96
41	A New Activated Carbon Prepared from Sago Palm Bark through Physiochemical Activated Process with Zinc Chloride. Engineering Journal, 2017, 21, 1-14.	1.0	17
42	Enhancing the solar still yield by increasing the surface area of water – A review. Environmental Progress and Sustainable Energy, 2016, 35, 815-822.	2.3	47
43	Influence of crescent shaped absorber in water desalting system. Desalination, 2016, 398, 208-213.	8.2	34
44	Geometrical variations in solar stills for improving the fresh water yield – A review. Desalination and Water Treatment, 2016, 57, 21145-21159.	1.0	30
45	Productivity enhancements of compound parabolic concentrator tubular solar stills. Renewable Energy, 2016, 88, 391-400.	8.9	150
46	Effect of parabolic solar energy collectors for water distillation. Desalination and Water Treatment, 2016, 57, 21234-21242.	1.0	24
47	Effect of heat removal on tubular solar desalting system. Desalination, 2016, 379, 24-33.	8.2	82
48	Physical Risk Assessment for Urban Water Supply in a Developing Country: A Case of Mega City Dhaka. Engineering Journal, 2016, 20, 23-32.	1.0	3
49	A novel Cp-Tree-based co-located classifier for big data analysis. International Journal of Communication Networks and Distributed Systems, 2015, 15, 191.	0.4	3
50	Heat treatment effects on structural and dielectric properties of Mn substituted CuFe ₂ O ₄ and ZnFe ₂ O ₄ nanoparticles. Superlattices and Microstructures, 2015, 85, 530-535.	3.1	42
51	Experimental study on a parabolic concentrator assisted solar desalting system. Energy Conversion and Management, 2015, 105, 665-674.	9.2	75
52	Effect of air flow on –type solar still with cotton gauze cooling. Desalination, 2014, 337, 1-5.	8.2	86
53	Effect of air flow on tubular solar still efficiency. Iranian Journal of Environmental Health Science & Engineering, 2013, 10, 31.	1.8	16
54	Surfactant-aided Variation in CdO Nanocomposites Morphology. Physics Procedia, 2013, 49, 36-43.	1.2	20

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55	Effect of reaction time on particle size and dielectric properties of manganese substituted CoFe ₂ O ₄ nanoparticles. Journal of Physics and Chemistry of Solids, 2013, 74, 110-114.	4.0	53
56	The augmentation of distillate yield by using concentrator coupled solar still with phase change material. Desalination, 2013, 314, 189-192.	8.2	172
57	Effect of water and air flow on concentric tubular solar water desalting system. Applied Energy, 2013, 103, 109-115.	10.1	140
58	Impact of Cutout off Axis on Electron Beam Dosimetric Parameters. Technology in Cancer Research and Treatment, 2012, 11, 141-147.	1.9	1
59	Experimental Study on Various Solar Still Designs. , 2012, 2012, 1-10.		63
60	An experimental study on a hemispherical solar still. Desalination, 2012, 286, 342-348.	8.2	225
61	Effect of Carboxymethyl Cellulose Gel on Thermal-Energy Storage by Ground Shallow Solar Ponds. Journal of Chemical Engineering of Japan, 2011, 44, 816-820.	0.6	4
62	Synthesis and characterization of layered Li _{1-x} (Ni _{0.5} Co _{0.5}) _{1-y} FeyO ₂ (0 ≤ x ≤ 1 and 0 ≤ y ≤ 0.2) cathodes. Solid State Ionics, 2006, 177, 863-868.	2.7	6
63	Effects of concentrator type and encapsulated phase change material on the performance of different solar stills: an experimental approach. , 0, 87, 1-13.		9
64	Improving the yield of fresh water from conventional and stepped solar still with different nanofluids. , 0, 100, 243-249.		18
65	Heat carrier nanofluids in solar still - A review. , 0, 130, 1-16.		25