Arunkumar Thirugnanasambantham

List of Publications by Year
in descending order

65 papers	3,616 citations	109321 35 h-index	138484 58 g-index
65 all docs	65 docs citations	65 times ranked	1857 citing authors

#	Article	IF	Citations
1	An experimental study on a hemispherical solar still. Desalination, 2012, 286, 342-348.	8.2	225
2	The augmentation of distillate yield by using concentrator coupled solar still with phase change material. Desalination, 2013, 314, 189-192.	8.2	172
3	Productivity enhancements of compound parabolic concentrator tubular solar stills. Renewable Energy, 2016, 88, 391-400.	8.9	150
4	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
5	A Review of integrating solar collectors to solar still. Renewable and Sustainable Energy Reviews, 2017, 77, 1069-1097.	16.4	145
6	New hydrogel materials for improving solar water evaporation, desalination and wastewater treatment: A review. Desalination, 2020, 491, 114564.	8.2	142
7	Effect of water and air flow on concentric tubular solar water desalting system. Applied Energy, 2013, 103, 109-115.	10.1	140
8	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
9	A review of efficient high productivity solar stills. Renewable and Sustainable Energy Reviews, 2019, 101, 197-220.	16.4	113
10	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
11	Effect of phase change material on concentric circular tubular solar still-Integration meets enhancement. Desalination, 2017, 414, 46-50.	8.2	105
12	Performance enhancement of solar still through efficient heat exchange mechanism â€“ A review. Applied Thermal Engineering, 2017, 114, 815-836.	6.0	96
13	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
14	Augmenting the productivity of solar still using jute cloth knitted with sand heat energy storage. Desalination, 2018, 443, 122-129.	8.2	96
15	Effect of air flow on â€œVâ€•type solar still with cotton gauze cooling. Desalination, 2014, 337, 1-5.	8.2	86
16	Effect of heat removal on tubular solar desalting system. Desalination, 2016, 379, 24-33.	8.2	82
17	Integrated PV/T solar still- A mini-review. Desalination, 2018, 435, 259-267.	8.2	82
18	Productivity enhancement of solar still by using porous absorber with bubble-wrap insulation. Journal of Cleaner Production, 2018, 195, 1149-1161.	9.3	79

#	Article	IF	Citations
19	Technological advancements in solar energy driven humidification-dehumidification desalination systems - A review. Journal of Cleaner Production, 2019, 207, 826-845.	9.3	79
20	Experimental study on a parabolic concentrator assisted solar desalting system. Energy Conversion and Management, 2015, 105, 665-674.	9.2	75
21	Energy efficient materials for solar water distillation - A review. Renewable and Sustainable Energy Reviews, 2019, 115, 109409.	16.4	69
22	Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system. Applied Thermal Engineering, 2019, 148, 1416-1424.	6.0	66
23	Experimental Study on Various Solar Still Designs. , 2012, 2012, 1-10.		63
24	Annual performance analysis of adding different nanofluids in stepped solar still. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3175-3182.	3.6	63
25	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
26	Effect of reaction time on particle size and dielectric properties of manganese substituted CoFe2O4 nanoparticles. Journal of Physics and Chemistry of Solids, 2013, 74, 110-114.	4.0	53
27	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
28	Enhancing the solar still yield by increasing the surface area of waterâ€"A review. Environmental Progress and Sustainable Energy, 2016, 35, 815-822.	2.3	47
29	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
30	Performance amelioration of single basin solar still integrated with V- typeÂconcentrator: Energy, exergy, and economic analysis. Environmental Science and Pollution Research, 2021, 28, 3406-3420.	5.3	46
31	Investigation of humidification-dehumidification desalination system through waste heat recovery from household air conditioning unit. Desalination, 2019, 467, 1-11.	8.2	43
32	Heat treatment effects on structural and dielectric properties of Mn substituted CuFe2O4 and ZnFe2O4 nanoparticles. Superlattices and Microstructures, 2015, 85, 530-535.	3.1	42
33	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
34	A review on carbonized natural green flora for solar desalination. Renewable and Sustainable Energy Reviews, 2022, 158, 112121.	16.4	40
35	Surface coating and characterisation of polyurea for liquid storage. International Journal of Ambient Energy, 2017, 38, 781-787.	2.5	39
36	Solar energy utilisation for milk pasteurisation: A comprehensive review. Renewable and Sustainable Energy Reviews, 2018, 92, 1-8.	16.4	36

#	Article	IF	Citations
37	Progress on suspended nanostructured engineering materials powered solar distillation- a review. Renewable and Sustainable Energy Reviews, 2021, 143, 110848.	16.4	36
38	Influence of crescent shaped absorber in water desalting system. Desalination, 2016, 398, 208-213.	8.2	34
39	Geometrical variations in solar stills for improving the fresh water yieldâ€"A review. Desalination and Water Treatment, 2016, 57, 21145-21159.	1.0	30
40	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
41	Sensible desalting: Investigation of sensible thermal storage materials in solar stills. Journal of Energy Storage, 2020, 32, 101824.	8.1	25
42	Heat carrier nanofluids in solar still - A review. , 0, 130, 1-16.		25
43	Effect of parabolic solar energy collectors for water distillation. Desalination and Water Treatment, 2016, 57, 21234-21242.	1.0	24
44	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
45	Surfactant-liaised Variation in CdO Nanocomposites Morphology. Physics Procedia, 2013, 49, 36-43.	1.2	20
46	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
47	Improving the yield of fresh water from conventional and stepped solar still with different nanofluids. , 0, 100, 243-249.		18
48	A review on efficiently integrated passive distillation systems for active solar steam evaporation. Renewable and Sustainable Energy Reviews, 2022, 155, 111894.	16.4	18
49	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
50	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
51	Effect of air flow on tubular solar still efficiency. Iranian Journal of Environmental Health Science & Engineering, 2013, 10, 31.	1.8	16
52	Effect of forced cover cooling technique on a triangular pyramid solar still. International Journal of Ambient Energy, 2017, 38, 597-604.	2.5	15
53	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
54	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

#	Article	IF	Citations
55	A review on distillate water quality parameter analysis in solar still. International Journal of Ambient Energy, 2021, 42, 1335-1342.	2.5	12
56	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
57	Effects of concentrator type and encapsulated phase change material on the performance of different solar stills: an experimental approach. , 0, 87, 1-13.		9
58	Effect of CuO, MoO3 and ZnO nanomaterial coated absorbers for clean water production. SN Applied Sciences, 2020, 2, 1.	2.9	8
59	Synthesis and characterization of layered Li1â^'x(Ni0.5Co0.5)1â^'yFeyO2(0â‰¤(1â^'x)â‰¤1 and 0â‰¤yâ‰¤0.2) cathodes. Solid State Ionics, 2006, 177, 863-868.	2.7	6
60	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
61	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
62	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
63	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
64	Impact of Cutout off Axis on Electron Beam Dosimetric Parameters. Technology in Cancer Research and Treatment, 2012, 11, 141-147.	1.9	1
65	Comparative Analysis of Water Quality of Different Types of Feed Water in Solar Energy Based Desalting System. , 2019, , 439-456.		0