Swellam W Sharshir

List of Publications by Citations

79 papers	3,519 citations	32 h-index	58 g-index
84 ext. papers	5,157 ext. citations	7.1 avg, IF	6.34 L-index

#	Paper	IF	Citations
79	Modeling of solar energy systems using artificial neural network: A comprehensive review. *Solar Energy*, **2019**, 180, 622-639	6.8	240
78	Applications of nanofluids in solar energy: A review of recent advances. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 3483-3502	16.2	216
77	Enhancing the solar still performance using nanofluids and glass cover cooling: Experimental study. *Applied Thermal Engineering*, **2017**, 113, 684-693	5.8	193
76	The effects of flake graphite nanoparticles, phase change material, and film cooling on the solar still performance. *Applied Energy*, **2017**, 191, 358-366	10.7	160
75	Factors affecting solar stills productivity and improvement techniques: A detailed review. *Applied Thermal Engineering*, **2016**, 100, 267-284	5.8	136
74	Effect of water depth on a novel absorber plate of pyramid solar still coated with TiO2 nano black paint. *Journal of Cleaner Production*, **2019**, 213, 185-191	10.3	119
73	Mathematical and experimental investigation of a solar humidification□dehumidification desalination unit. *Desalination*, **2015**, 358, 9-17	10.3	118
72	Feasibility analysis and techno-economic design of grid-isolated hybrid renewable energy system for electrification of agriculture and irrigation area: A case study in Dongola, Sudan. *Energy Conversion and Management*, **2019**, 196, 1453-1478	10.6	115
71	Thin film technology for solar steam generation: A new dawn. *Solar Energy*, **2019**, 177, 561-575	6.8	112
70	Energy and exergy analysis of solar stills with micro/nano particles: A comparative study. *Energy Conversion and Management*, **2018**, 177, 363-375	10.6	107
69	Thermal performance and exergy analysis of solar stills □A review. *Renewable and Sustainable Energy Reviews*, **2017**, 73, 521-544	16.2	101
68	Experimental study on tubular solar still using Graphene Oxide Nano particles in Phase Change Material (NPCM\x) for fresh water production. *Journal of Energy Storage*, **2020**, 28, 101204	7.8	91
67	A hybrid desalination system using humidification-dehumidification and solar stills integrated with evacuated solar water heater. *Energy Conversion and Management*, **2016**, 124, 287-296	10.6	90
66	A mini review of techniques used to improve the tubular solar still performance for solar water desalination. *Chemical Engineering Research and Design*, **2019**, 124, 204-212	5.5	86
65	Experimental study of a humidification-dehumidification solar technique by natural and forced air circulation. *Energy*, **2014**, 68, 218-228	7.9	86
64	Improving performance of tubular solar still by controlling the water depth and cover cooling. *Journal of Cleaner Production*, **2019**, 233, 848-856	10.3	71
63	A continuous desalination system using humidification □dehumidification and a solar still with an evacuated solar water heater. *Applied Thermal Engineering*, **2016**, 104, 734-742	5.8	71

62	Augmentation of a pyramid solar still performance using evacuated tubes and nanofluid: Experimental approach. *Applied Thermal Engineering*, **2019**, 160, 113997	5.8	68
61	A systematic decision-making approach for planning and assessment of hybrid renewable energy-based microgrid with techno-economic optimization: A case study on an urban community in Egypt. *Sustainable Cities and Society*, **2020**, 54, 102013	10.1	68
60	New hydrogel materials for improving solar water evaporation, desalination and wastewater treatment: A review. *Desalination*, **2020**, 491, 114564	10.3	66
59	Low-cost high-efficiency solar steam generator by combining thin film evaporation and heat localization: Both experimental and theoretical study. *Applied Thermal Engineering*, **2018**, 143, 1079-1084	5.8	60
58	Optimal sizing and techno-enviro-economic feasibility assessment of large-scale reverse osmosis desalination powered with hybrid renewable energy sources. *Energy Conversion and Management*, **2020**, 224, 113377	10.6	57
57	Performance enhancement of stepped double slope solar still by using nanoparticles and linen wicks: Energy, exergy and economic analysis. *Applied Thermal Engineering*, **2020**, 174, 115278	5.8	54
56	Performance enhancement of wick solar still using rejected water from humidification-dehumidification unit and film cooling. *Applied Thermal Engineering*, **2016**, 108, 1268-1278	5.8	51
55	Improved prediction of oscillatory heat transfer coefficient for a thermoacoustic heat exchanger using modified adaptive neuro-fuzzy inference system. *International Journal of Refrigeration*, **2019**, 102, 47-54	3.8	50
54	Experimental study on enhancing the yield from stepped solar still coated using fumed silica nanoparticle in black paint. *Materials Letters*, **2020**, 272, 127873	3.3	50
53	Improving the performance of solar still using different heat localization materials. *Environmental Science and Pollution Research*, **2020**, 27, 12332-12344	5.1	47
52	High efficient solar evaporation by airing multifunctional textile. *International Journal of Heat and Mass Transfer*, **2020**, 147, 118866	4.9	39
51	Exergoeconomic and environmental analysis of seawater desalination system augmented with nanoparticles and cotton hung pad. *Journal of Cleaner Production*, **2020**, 248, 119180	10.3	39
50	Influence of basin metals and novel wick-metal chips pad on the thermal performance of solar desalination process. *Journal of Cleaner Production*, **2020**, 248, 119224	10.3	36
49	Performance enhancement of pyramid solar distiller using nanofluid integrated with v-corrugated absorber and wick: An experimental study. *Applied Thermal Engineering*, **2020**, 168, 114848	5.8	35
48	Photovoltaics performance improvement using different cooling methodologies: A state-of-art review. *Journal of Cleaner Production*, **2020**, 273, 122772	10.3	32
47	Ultra-fast vapor generation by a graphene nano-ratchet: a theoretical and simulation study. *Nanoscale*, **2017**, 9, 19066-19072	7.7	31
46	Enhancing thermal performance and modeling prediction of developed pyramid solar still utilizing a modified random vector functional link. *Solar Energy*, **2020**, 198, 399-409	6.8	31
45	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	4.7	31

44	. *IEEE Access*, **2019**, 7, 164887-164907	3.5	31
43	Prediction of tubular solar still performance by machine learning integrated with Bayesian optimization algorithm. *Applied Thermal Engineering*, **2021**, 184, 116233	5.8	30
42	A fuzzy decision-making model for optimal design of solar, wind, diesel-based RO desalination integrating flow-battery and pumped-hydro storage: Case study in Baltim, Egypt. *Energy Conversion and Management*, **2021**, 235, 113962	10.6	29
41	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	5.1	27
40	Performance improvement of double slope solar still via combinations of low cost materials integrated with glass cooling. *Desalination*, **2021**, 500, 114856	10.3	24
39	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	4.7	23
38	A novel reduced graphene oxide based absorber for augmenting the water yield and thermal performance of solar desalination unit. *Materials Letters*, **2021**, 286, 128867	3.3	23
37	Potential and challenges of improving solar still by micro/nano-particles and porous materials - A review. *Journal of Cleaner Production*, **2021**, 311, 127432	10.3	23
36	Improving the solar still performance by using thermal energy storage materials: A review of recent developments165, 1-15		21
35	Experimental study of activated carbon as a porous absorber in solar desalination with environmental, exergy, and economic analysis. *Chemical Engineering Research and Design*, **2021**, 147, 1052-1065	5.5	21
34	Improved thermo-economic performance of solar desalination via copper chips, nanofluid, and nano-based phase change material. *Solar Energy*, **2021**, 224, 1313-1325	6.8	21
33	Investigation of a novel (GO@CuO.Al2O3) hybrid nanocomposite for solar energy applications. *Journal of Alloys and Compounds*, **2021**, 856, 157463	5.7	18
32	Performance assessment of solar PV-driven hybrid HDH-RO desalination system integrated with energy recovery units and solar collectors: Theoretical approach. *Energy Conversion and Management*, **2021**, 239, 114215	10.6	18
31	Sea-water desalination using a desalting unit integrated with a parabolic trough collector and activated carbon pellets as energy storage medium. *Desalination*, **2021**, 516, 115217	10.3	18
30	Feasibility analysis and optimization of an energy-water-heat nexus supplied by an autonomous hybrid renewable power generation system: An empirical study on airport facilities. *Desalination*, **2021**, 504, 114952	10.3	17
29	Advancement in graphene-based nanocomposites as high capacity anode materials for sodium-ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 2628-2661	13	17
28	Secondary transmission of SARS-CoV-2 through wastewater: Concerns and tactics for treatment to effectively control the pandemic. *Journal of Environmental Management*, **2021**, 290, 112668	7.9	16
27	Performance enhancement of tubular solar still using nano-enhanced energy storage material integrated with v-corrugated aluminum basin, wick, and nanofluid. *Journal of Energy Storage*, **2021**, 41, 102933	7.8	16

26	An artificial neural network based approach for prediction the thermal conductivity of nanofluids. *SN Applied Sciences*, **2020**, 2, 1	1.8	14
25	An experimental investigation of a water desalination unit using different microparticle-coated absorber plate: yield, thermal, economic, and environmental assessments. *Environmental Science and Pollution Research*, **2021**, 28, 37371-37386	5.1	14
24	Augmented performance of tubular solar still integrated with cost-effective nano-based mushrooms. *Solar Energy*, **2021**, 228, 27-37	6.8	14
23	Infrared thermography-based condition monitoring of solar photovoltaic systems: A mini review of recent advances. *Solar Energy*, **2021**, 223, 33-43	6.8	12
22	Sustainable siting and design optimization of hybrid renewable energy system: A geospatial multi-criteria analysis. *Applied Energy*, **2021**, 295, 117071	10.7	11
21	Effect of copper oxide/cobalt oxide nanocomposite on phase change material for direct/indirect solar energy applications: Experimental investigation. *Journal of Energy Storage*, **2021**, 38, 102526	7.8	10
20	Enhancement of solar still performance via wet wick, different aspect ratios, cover cooling, and reflectors. *International Journal of Energy and Environmental Engineering*, **2021**, 12, 517-530	4	10
19	A compact flat solar still with high performance. *International Journal of Heat and Mass Transfer*, **2021**, 179, 121657	4.9	10
18	Reverse osmosis desalination systems powered by solar energy: Preheating techniques and brine disposal challenges □A detailed review. *Energy Conversion and Management*, **2021**, 114971	10.6	9
17	Improving the performance of tubular solar still integrated with drilled carbonized wood and carbon black thin film evaporation. *Solar Energy*, **2022**, 233, 504-514	6.8	8
16	Performance improvement of solar distiller using hang wick, reflectors and phase change materials enriched with nano-additives. *Case Studies in Thermal Engineering*, **2022**, 31, 101856	5.6	8
15	Research progress on recent technologies of water harvesting from atmospheric air: A detailed review. *Sustainable Energy Technologies and Assessments*, **2022**, 52, 102000	4.7	6
14	Techno-economic Design and Assessment of Grid-Isolated Hybrid Renewable Energy System for Agriculture Sector **2019**,		6
13	Performance and exergy analysis of different perforated rib designs of triple tubes heat exchanger employing hybrid nanofluids. *International Journal of Thermal Sciences*, **2021**, 168, 107006	4.1	6
12	Improving thermal, economic, and environmental performance of solar still using floating coal, cotton fabric, and carbon black nanoparticles. *Sustainable Energy Technologies and Assessments*, **2021**, 48, 101563	4.7	6
11	Humidification dehumidification saline water desalination system utilizing high frequency ultrasonic humidifier and solar heated air stream. *Thermal Science and Engineering Progress*, **2022**, 27, 101144	3.6	5
10	Productivity Modeling Enhancement of a Solar Desalination Unit with Nanofluids Using Machine Learning Algorithms Integrated with Bayesian Optimization. *Energy Technology*, **2021**, 9, 2100189	3.5	3
9	A case study of SARS-CoV-2 transmission behavior in a severely air-polluted city (Delhi, India) and the potential usage of graphene based materials for filtering air-pollutants and controlling/monitoring the COVID-19 pandemic. *Environmental Sciences: Processes and Impacts*, **2021**, 23, 923-946	4.3	3

8	Nano-enhanced cooling techniques for photovoltaic panels: A systematic review and prospect recommendations. *Solar Energy*, **2021**, 227, 259-272	6.8	3
7	Hybrid solar desalination systems review. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*,1-31	1.6	2
6	Investigation on heat transfer enhancement of conventional and staggered fin solar air heater coated with CNT-black paint-an experimental approach. *Environmental Science and Pollution Research*, **2020**, 27, 32251-32269	5.1	2
5	Experimental investigation of the twist angle effects on thermo-hydraulic performance of a square and hexagonal pin fin array in forced convection. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105374	5.8	1
4	Synergetic effect of absorber and condenser nano-coating on evaporation and thermal performance of solar distillation unit for clean water production. *Solar Energy Materials and Solar Cells*, **2022**, 240, 111698	6.4	1
3	A new trapezoidal pyramid solar still design with multi thermal enhancers. *Applied Thermal Engineering*, **2022**, 213, 118699	5.8	1
2	Performance improvement of tubular solar still using nano-coated hanging wick thin film, ultrasonic atomizers, and cover cooling. *Sustainable Energy Technologies and Assessments*, **2022**, 52, 102127	4.7	0
1	Advanced applications of the nanohybrid membrane of chitosan/nickel oxide for photocatalytic, electro-biosensor, energy storage, and supercapacitors. *Journal of Energy Storage*, **2022**, 50, 104626	7.8	0