

# Swellam W Sharshir

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Improving the performance of tubular solar still integrated with drilled carbonized wood and carbon black thin film evaporation. <i>Solar Energy</i> , <b>2022</b> , 233, 504-514	6.8	8
78	Research progress on recent technologies of water harvesting from atmospheric air: A detailed review. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102000	4.7	6
77	Performance improvement of solar distiller using hang wick, reflectors and phase change materials enriched with nano-additives. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 31, 101856	5.6	8
76	Humidification dehumidification saline water desalination system utilizing high frequency ultrasonic humidifier and solar heated air stream. <i>Thermal Science and Engineering Progress</i> , <b>2022</b> , 27, 101144	3.6	5
75	Synergetic effect of absorber and condenser nano-coating on evaporation and thermal performance of solar distillation unit for clean water production. <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 240, 111698	6.4	1
74	Performance improvement of tubular solar still using nano-coated hanging wick thin film, ultrasonic atomizers, and cover cooling. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102127	4.7	0
73	Advanced applications of the nanohybrid membrane of chitosan/nickel oxide for photocatalytic, electro-biosensor, energy storage, and supercapacitors. <i>Journal of Energy Storage</i> , <b>2022</b> , 50, 104626	7.8	0
72	A new trapezoidal pyramid solar still design with multi thermal enhancers. <i>Applied Thermal Engineering</i> , <b>2022</b> , 213, 118699	5.8	1
71	Reverse osmosis desalination systems powered by solar energy: Preheating techniques and brine disposal challenges [A detailed review]. <i>Energy Conversion and Management</i> , <b>2021</b> , 114971	10.6	9
70	Experimental study of activated carbon as a porous absorber in solar desalination with environmental, exergy, and economic analysis. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 147, 1052-1065	5.5	21
69	An experimental investigation of a water desalination unit using different microparticle-coated absorber plate: yield, thermal, economic, and environmental assessments. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 37371-37386	5.1	14
68	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. <i>Energy Conversion and Management</i> , <b>2021</b> , 235, 113962	10.6	29
67	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. <i>Desalination</i> , <b>2021</b> , 504, 114952	10.3	17
66	Effect of copper oxide/cobalt oxide nanocomposite on phase change material for direct/indirect solar energy applications: Experimental investigation. <i>Journal of Energy Storage</i> , <b>2021</b> , 38, 102526	7.8	10
65	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> , <b>2021</b> , 45, 101046	4.7	23
64	Productivity Modeling Enhancement of a Solar Desalination Unit with Nanofluids Using Machine Learning Algorithms Integrated with Bayesian Optimization. <i>Energy Technology</i> , <b>2021</b> , 9, 2100189	3.5	3
63	Experimental investigation of the twist angle effects on thermo-hydraulic performance of a square and hexagonal pin fin array in forced convection. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 126, 105374	5.8	1

62	Performance improvement of double slope solar still via combinations of low cost materials integrated with glass cooling. <i>Desalination</i> , <b>2021</b> , 500, 114856	10.3	24
61	Advancement in graphene-based nanocomposites as high capacity anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2628-2661	13	17
60	Prediction of tubular solar still performance by machine learning integrated with Bayesian optimization algorithm. <i>Applied Thermal Engineering</i> , <b>2021</b> , 184, 116233	5.8	30
59	Investigation of a novel (GO@CuO.EAl2O3) hybrid nanocomposite for solar energy applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 856, 157463	5.7	18
58	A novel reduced graphene oxide based absorber for augmenting the water yield and thermal performance of solar desalination unit. <i>Materials Letters</i> , <b>2021</b> , 286, 128867	3.3	23
57	Performance amelioration of single basin solar still integrated with V- type concentrator: Energy, exergy, and economic analysis. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 3406-3420	5.1	27
56	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. <i>Environmental Sciences: Processes and Impacts</i> , <b>2021</b> , 23, 923-946	4.3	3
55	Enhancement of solar still performance via wet wick, different aspect ratios, cover cooling, and reflectors. <i>International Journal of Energy and Environmental Engineering</i> , <b>2021</b> , 12, 517-530	4	10
54	Performance assessment of solar PV-driven hybrid HDH-RO desalination system integrated with energy recovery units and solar collectors: Theoretical approach. <i>Energy Conversion and Management</i> , <b>2021</b> , 239, 114215	10.6	18
53	Infrared thermography-based condition monitoring of solar photovoltaic systems: A mini review of recent advances. <i>Solar Energy</i> , <b>2021</b> , 223, 33-43	6.8	12
52	Secondary transmission of SARS-CoV-2 through wastewater: Concerns and tactics for treatment to effectively control the pandemic. <i>Journal of Environmental Management</i> , <b>2021</b> , 290, 112668	7.9	16
51	Sustainable siting and design optimization of hybrid renewable energy system: A geospatial multi-criteria analysis. <i>Applied Energy</i> , <b>2021</b> , 295, 117071	10.7	11
50	Improved thermo-economic performance of solar desalination via copper chips, nanofluid, and nano-based phase change material. <i>Solar Energy</i> , <b>2021</b> , 224, 1313-1325	6.8	21
49	Potential and challenges of improving solar still by micro/nano-particles and porous materials - A review. <i>Journal of Cleaner Production</i> , <b>2021</b> , 311, 127432	10.3	23
48	Performance enhancement of tubular solar still using nano-enhanced energy storage material integrated with v-corrugated aluminum basin, wick, and nanofluid. <i>Journal of Energy Storage</i> , <b>2021</b> , 41, 102933	7.8	16
47	Nano-enhanced cooling techniques for photovoltaic panels: A systematic review and prospect recommendations. <i>Solar Energy</i> , <b>2021</b> , 227, 259-272	6.8	3
46	Performance and exergy analysis of different perforated rib designs of triple tubes heat exchanger employing hybrid nanofluids. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 168, 107006	4.1	6
45	A compact flat solar still with high performance. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 179, 121657	4.9	10

44	Augmented performance of tubular solar still integrated with cost-effective nano-based mushrooms. <i>Solar Energy</i> , <b>2021</b> , 228, 27-37	6.8	14
43	Sea-water desalination using a desalting unit integrated with a parabolic trough collector and activated carbon pellets as energy storage medium. <i>Desalination</i> , <b>2021</b> , 516, 115217	10.3	18
42	Improving thermal, economic, and environmental performance of solar still using floating coal, cotton fabric, and carbon black nanoparticles. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 48, 101563	4.7	6
41	New hydrogel materials for improving solar water evaporation, desalination and wastewater treatment: A review. <i>Desalination</i> , <b>2020</b> , 491, 114564	10.3	66
40	An artificial neural network based approach for prediction the thermal conductivity of nanofluids. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	14
39	Photovoltaics performance improvement using different cooling methodologies: A state-of-art review. <i>Journal of Cleaner Production</i> , <b>2020</b> , 273, 122772	10.3	32
38	Enhancing thermal performance and modeling prediction of developed pyramid solar still utilizing a modified random vector functional link. <i>Solar Energy</i> , <b>2020</b> , 198, 399-409	6.8	31
37	Experimental study on tubular solar still using Graphene Oxide Nano particles in Phase Change Material (NPCM $\delta$ ) for fresh water production. <i>Journal of Energy Storage</i> , <b>2020</b> , 28, 101204	7.8	91
36	Improving the performance of solar still using different heat localization materials. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 12332-12344	5.1	47
35	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> , <b>2020</b> , 39, 100712	4.7	31
34	Performance enhancement of stepped double slope solar still by using nanoparticles and linen wicks: Energy, exergy and economic analysis. <i>Applied Thermal Engineering</i> , <b>2020</b> , 174, 115278	5.8	54
33	Experimental study on enhancing the yield from stepped solar still coated using fumed silica nanoparticle in black paint. <i>Materials Letters</i> , <b>2020</b> , 272, 127873	3.3	50
32	Influence of basin metals and novel wick-metal chips pad on the thermal performance of solar desalination process. <i>Journal of Cleaner Production</i> , <b>2020</b> , 248, 119224	10.3	36
31	High efficient solar evaporation by airing multifunctional textile. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 147, 118866	4.9	39
30	Performance enhancement of pyramid solar distiller using nanofluid integrated with v-corrugated absorber and wick: An experimental study. <i>Applied Thermal Engineering</i> , <b>2020</b> , 168, 114848	5.8	35
29	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. <i>Sustainable Cities and Society</i> , <b>2020</b> , 54, 102013	10.1	68
28	Exergoeconomic and environmental analysis of seawater desalination system augmented with nanoparticles and cotton hung pad. <i>Journal of Cleaner Production</i> , <b>2020</b> , 248, 119180	10.3	39
27	Investigation on heat transfer enhancement of conventional and staggered fin solar air heater coated with CNT-black paint-an experimental approach. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 32251-32269	5.1	2

26	Optimal sizing and techno-enviro-economic feasibility assessment of large-scale reverse osmosis desalination powered with hybrid renewable energy sources. <i>Energy Conversion and Management</i> , <b>2020</b> , 224, 113377	10.6	57
25	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. <i>Energy Conversion and Management</i> , <b>2019</b> , 196, 1453-1478	10.6	115
24	Modeling of solar energy systems using artificial neural network: A comprehensive review. <i>Solar Energy</i> , <b>2019</b> , 180, 622-639	6.8	240
23	Augmentation of a pyramid solar still performance using evacuated tubes and nanofluid: Experimental approach. <i>Applied Thermal Engineering</i> , <b>2019</b> , 160, 113997	5.8	68
22	Improving performance of tubular solar still by controlling the water depth and cover cooling. <i>Journal of Cleaner Production</i> , <b>2019</b> , 233, 848-856	10.3	71
21	Improved prediction of oscillatory heat transfer coefficient for a thermoacoustic heat exchanger using modified adaptive neuro-fuzzy inference system. <i>International Journal of Refrigeration</i> , <b>2019</b> , 102, 47-54	3.8	50
20	A mini review of techniques used to improve the tubular solar still performance for solar water desalination. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 124, 204-212	5.5	86
19	. <i>IEEE Access</i> , <b>2019</b> , 7, 164887-164907	3.5	31
18	Techno-economic Design and Assessment of Grid-Isolated Hybrid Renewable Energy System for Agriculture Sector <b>2019</b> ,		6
17	Effect of water depth on a novel absorber plate of pyramid solar still coated with TiO <sub>2</sub> nano black paint. <i>Journal of Cleaner Production</i> , <b>2019</b> , 213, 185-191	10.3	119
16	Thin film technology for solar steam generation: A new dawn. <i>Solar Energy</i> , <b>2019</b> , 177, 561-575	6.8	112
15	Applications of nanofluids in solar energy: A review of recent advances. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 3483-3502	16.2	216
14	Low-cost high-efficiency solar steam generator by combining thin film evaporation and heat localization: Both experimental and theoretical study. <i>Applied Thermal Engineering</i> , <b>2018</b> , 143, 1079-1084	5.8	60
13	Energy and exergy analysis of solar stills with micro/nano particles: A comparative study. <i>Energy Conversion and Management</i> , <b>2018</b> , 177, 363-375	10.6	107
12	Thermal performance and exergy analysis of solar stills A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 73, 521-544	16.2	101
11	The effects of flake graphite nanoparticles, phase change material, and film cooling on the solar still performance. <i>Applied Energy</i> , <b>2017</b> , 191, 358-366	10.7	160
10	Ultra-fast vapor generation by a graphene nano-ratchet: a theoretical and simulation study. <i>Nanoscale</i> , <b>2017</b> , 9, 19066-19072	7.7	31
9	Enhancing the solar still performance using nanofluids and glass cover cooling: Experimental study. <i>Applied Thermal Engineering</i> , <b>2017</b> , 113, 684-693	5.8	193

8	A hybrid desalination system using humidification-dehumidification and solar stills integrated with evacuated solar water heater. <i>Energy Conversion and Management</i> , <b>2016</b> , 124, 287-296	10.6	90
7	Factors affecting solar stills productivity and improvement techniques: A detailed review. <i>Applied Thermal Engineering</i> , <b>2016</b> , 100, 267-284	5.8	136
6	A continuous desalination system using humidification & dehumidification and a solar still with an evacuated solar water heater. <i>Applied Thermal Engineering</i> , <b>2016</b> , 104, 734-742	5.8	71
5	Performance enhancement of wick solar still using rejected water from humidification-dehumidification unit and film cooling. <i>Applied Thermal Engineering</i> , <b>2016</b> , 108, 1268-1278	5.8	51
4	Mathematical and experimental investigation of a solar humidification & dehumidification desalination unit. <i>Desalination</i> , <b>2015</b> , 358, 9-17	10.3	118
3	Experimental study of a humidification-dehumidification solar technique by natural and forced air circulation. <i>Energy</i> , <b>2014</b> , 68, 218-228	7.9	86
2	Hybrid solar desalination systems review. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-31	1.6	2
1	Improving the solar still performance by using thermal energy storage materials: A review of recent developments	165, 1-15	21