

Ali A Radwan

List of Publications by Year in descending order

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68
papers

1,803
citations

257101

24
h-index

288905

40
g-index

68
all docs

68
docs citations

68
times ranked

1141
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy assessment of a roof-integrated phase change materials, long-term numerical analysis with experimental validation. <i>Applied Thermal Engineering</i> , 2022, 202, 117773.	3.0	18
2	Phase change materials based on nanoparticles for enhancing the performance of solar photovoltaic panels: A review. <i>Journal of Energy Storage</i> , 2022, 48, 103937.	3.9	51
3	Thermal management systems based on heat pipes for batteries in EVs/HEVs. <i>Journal of Energy Storage</i> , 2022, 51, 104384.	3.9	38
4	A review of solar chimney for natural ventilation of residential and non-residential buildings. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102082.	1.7	27
5	Battery thermal management systems based on nanofluids for electric vehicles. <i>Journal of Energy Storage</i> , 2022, 50, 104385.	3.9	45
6	Performance assessment of a dual-axis solar tracker for concentrator photovoltaic systems. <i>International Journal of Energy Research</i> , 2022, 46, 13424-13440.	2.2	6
7	Thermal analysis of high concentrator photovoltaic module using convergent-divergent microchannel heat sink design. <i>Applied Thermal Engineering</i> , 2021, 183, 116201.	3.0	29
8	Application of new series connection scheme of vortex tubes in seawater desalination unit using new vortex generators. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	3
9	Thermal Analysis of Flat Plate Solar Collector Using Different Nanofluids and Nanoparticles Percentages. <i>IEEE Access</i> , 2021, 9, 52053-52066.	2.6	4
10	Flow boiling in a four-compartment heat sink for high-heat flux cooling: A parametric study. <i>Energy Conversion and Management</i> , 2021, 230, 113778.	4.4	16
11	Thermal analysis of a hybrid high concentrator photovoltaic/membrane distillation system for isolated coastal regions. <i>Solar Energy</i> , 2021, 215, 220-239.	2.9	27
12	Transformers Improvement and Environment Conservation by Using Synthetic Esters in Egypt. <i>Energies</i> , 2021, 14, 1992.	1.6	0
13	Concentrator photovoltaic thermal management using a new design of double-layer microchannel heat sink. <i>Solar Energy</i> , 2021, 220, 552-570.	2.9	31
14	Design and thermal analysis of a new multi-segmented mini channel based radiant ceiling cooling panel. <i>Journal of Building Engineering</i> , 2021, 40, 102330.	1.6	12
15	Thermal performance of ceiling radiant cooling panel with a segmented and concave surface: Laboratory analysis. <i>Applied Thermal Engineering</i> , 2021, 196, 117280.	3.0	17
16	Thermal and electrical performances of actively cooled concentrator photovoltaic system. <i>Applied Thermal Engineering</i> , 2021, 196, 117295.	3.0	12
17	The thermal potential of a new multifunctional sliding window. <i>Solar Energy</i> , 2021, 226, 389-407.	2.9	12
18	Experimental study of the performance of concentrator photovoltaic/thermoelectric generator system integrated with a new 3D printed microchannel heat sink. <i>International Journal of Energy Research</i> , 2021, 45, 7741-7763.	2.2	13

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19	Performance, limits, and thermal stress analysis of high concentrator multijunction solar cell under passive cooling conditions. <i>Applied Thermal Engineering</i> , 2020, 164, 114497.	3.0	31
20	Influence of varying the Ethylene-Vinyl Acetate layer thicknesses on the performance of a polycrystalline silicon solar cell integrated with a microchannel heat sink. <i>Solar Energy</i> , 2020, 195, 592-609.	2.9	17
21	Thermal Analysis of a New Sliding Smart Window Integrated with Vacuum Insulation, Photovoltaic, and Phase Change Material. <i>Sustainability</i> , 2020, 12, 7846.	1.6	9
22	Development of a new vacuum-based photovoltaic/thermal collector, and its thermal and exergy analyses. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6251-6273.	2.5	14
23	Numerical analysis of passive cooled ultra-high concentrator photovoltaic cell using optimal heat spreader design. <i>Case Studies in Thermal Engineering</i> , 2020, 22, 100757.	2.8	9
24	Current State of Crustal Deformation and Seismic Activity from Seismic and Geodetic Data in Aswan Region, Egypt. <i>Geotectonics</i> , 2020, 54, 713-722.	0.2	1
25	Performance investigation of zero-building-integrated photovoltaic roof system: A case study in Egypt. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 5053-5067.	3.4	16
26	Active Distribution Network Modeling for Enhancing Sustainable Power System Performance; a Case Study in Egypt. <i>Sustainability</i> , 2020, 12, 8991.	1.6	7
27	Solar chimney combined with earth to-air heat exchanger for passive cooling of residential buildings in hot areas. <i>Solar Energy</i> , 2020, 206, 145-162.	2.9	47
28	Thermal and electrical performances of semi-transparent photovoltaic glazing integrated with translucent vacuum insulation panel and vacuum glazing. <i>Energy Conversion and Management</i> , 2020, 215, 112920.	4.4	30
29	Thermal management of high concentrator solar cell using new designs of stepwise varying width microchannel cooling scheme. <i>Applied Thermal Engineering</i> , 2020, 172, 115124.	3.0	39
30	Performance evaluation of concentrator photovoltaic systems integrated with a new jet impingement-microchannel heat sink and heat spreader. <i>Solar Energy</i> , 2020, 199, 852-863.	2.9	53
31	Enhancing the combustion and emission parameters of a diesel engine fueled by waste cooking oil biodiesel and gasoline additives. <i>Fuel</i> , 2020, 269, 117466.	3.4	61
32	Thermal performance analysis of a new structured-core translucent vacuum insulation panel in comparison to vacuum glazing: Experimental and theoretically validated analyses. <i>Solar Energy</i> , 2020, 199, 326-346.	2.9	23
33	Optimization of stepwise varying width microchannel heat sink for high heat flux applications. <i>Case Studies in Thermal Engineering</i> , 2020, 18, 100587.	2.8	33
34	Annual sea level variations in the Red Sea observed using GNSS. <i>Geophysical Journal International</i> , 2020, 221, 826-834.	1.0	8
35	The Effect of Groundwater Flow on the Thermal Performance of a Novel Borehole Heat Exchanger for Ground Source Heat Pump Systems: Small Scale Experiments and Numerical Simulation. <i>Energies</i> , 2020, 13, 1418.	1.6	19
36	Temperature uniformity enhancement of densely packed high concentrator photovoltaic module using four quadrants microchannel heat sink. <i>Solar Energy</i> , 2020, 202, 446-464.	2.9	41

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37	Header impact assessment of double-layer microchannel heat sink in the computational fluid mechanics simulation for CPV thermal management. Energy Reports, 2020, 6, 55-60.	2.5	16
38	Thermal performance analyses of a new multi-segmented minichannel-based radiant ceiling cooling panel. Energy Reports, 2020, 6, 1409-1415.	2.5	7
39	Modern Eminence and Concise Critique of Solar Thermal Energy and Vacuum Insulation Technologies for Sustainable Low-Carbon Infrastructure. Malaysian Journal of ELT Research, 2020, 1, 52-71.	0.1	13
40	Analysis of a vacuum-based photovoltaic thermal collector. Energy Reports, 2020, 6, 236-242.	2.5	4
41	Numerical analyses of hybrid jet impingement/microchannel cooling device for thermal management of high concentrator triple-junction solar cell. Applied Energy, 2019, 253, 113538.	5.1	63
42	Energy conservation using new structured-core and transparent vacuum insulation panels: Numerical simulation with experimental validation. Solar Energy, 2019, 193, 885-905.	2.9	9
43	New configurations for sea water desalination system using Ranque-Hilsch vortex tubes. Applied Thermal Engineering, 2019, 157, 113757.	3.0	15
44	Two-phase simulation of nanofluid in a confined single impinging jet. Case Studies in Thermal Engineering, 2019, 14, 100423.	2.8	17
45	Thermal management of concentrator photovoltaic systems using two-phase flow boiling in double-layer microchannel heat sinks. Applied Energy, 2019, 241, 404-419.	5.1	77
46	Performance of Concentrator Photovoltaic Systems Integrated With Double Layer Microchannel Heat Sink. , 2019, , .		0
47	Performance Analysis of Concentrator Photovoltaic/Microchannel Heat Sink System Using Nanofluid. , 2019, , .		0
48	Numerical Analyses of High Concentrator Triple-Junction Solar Cell under Jet Impingement Cooling. Energy Procedia, 2018, 152, 1051-1056.	1.8	8
49	Cooling of Concentrator Photovoltaic Cells Using Mini-Scale Jet Impingement Heat Sinks. , 2018, , .		0
50	Thermal and structure analyses of high concentrator solar cell under confined jet impingement cooling. Energy Conversion and Management, 2018, 176, 39-54.	4.4	69
51	Thermal management of concentrator photovoltaic systems using microchannel heat sink with nanofluids. Solar Energy, 2018, 171, 229-246.	2.9	58
52	Uniform cooling for concentrator photovoltaic cells and electronic chips by forced convective boiling in 3D-printed monolithic double-layer microchannel heat sink. Energy Conversion and Management, 2018, 166, 356-371.	4.4	69
53	Comparative Study of Active and Passive Cooling Techniques for Concentrated Photovoltaic Systems. , 2018, , 475-505.		12
54	Measurement and analysis of an electric power distribution system with optimal reactive power compensation for improving the power quality. Case study: Middle Egypt region. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
55	An Investigation of a Novel Structure Polycrystalline Silicon Solar Cell for Concentrated Solar Power. , 2017, , .		0
56	The influence of microchannel heat sink configurations on the performance of low concentrator photovoltaic systems. Applied Energy, 2017, 206, 594-611.	5.1	107
57	Performance evaluation of new modified low-concentrator polycrystalline silicon photovoltaic/thermal systems. Energy Conversion and Management, 2017, 149, 593-607.	4.4	57
58	Analysis of a New Hybrid Water-Phase Change Material Heat Sink for Low Concentrated Photovoltaic Systems. , 2017, , .		4
59	Modeling and reconfiguration of middle Egypt distribution network. , 2017, , .		7
60	Analysis and simulation of concentrating photovoltaic systems with a microchannel heat sink. Solar Energy, 2016, 136, 35-48.	2.9	73
61	Performance of Concentrated Photovoltaic Cells Using Various Microchannel Heat Sink Designs. , 2016, , .		2
62	Performance Evaluation of Concentrated Photovoltaic System Using a Microchannel Heat Sink. , 2016, , .		2
63	Performance enhancement of concentrated photovoltaic systems using a microchannel heat sink with nanofluids. Energy Conversion and Management, 2016, 119, 289-303.	4.4	171
64	Assessment of the geodynamical settings around the main active faults at Aswan area, Egypt. Arabian Journal of Geosciences, 2015, 8, 4317-4327.	0.6	3
65	Geological and geophysical investigation of Kamil crater, Egypt. Meteoritics and Planetary Science, 2012, 47, 1842-1868.	0.7	16
66	Kamil Crater (Egypt): Ground truth for small-scale meteorite impacts on Earth. Geology, 2011, 39, 179-182.	2.0	52
67	The Kamil Crater in Egypt. Science, 2010, 329, 804-804.	6.0	48
68	Biochemical Studies on Pepper Seeds at Different Maturity Stages and Stored for Various Periods. Lipid - Fett, 1982, 84, 366-371.	0.6	0