

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
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68
all docs

68
docs citations

68
times ranked

1141
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance enhancement of concentrated photovoltaic systems using a microchannel heat sink with nanofluids. <i>Energy Conversion and Management</i> , 2016, 119, 289-303.	4.4	171
2	The influence of microchannel heat sink configurations on the performance of low concentrator photovoltaic systems. <i>Applied Energy</i> , 2017, 206, 594-611.	5.1	107
3	Thermal management of concentrator photovoltaic systems using two-phase flow boiling in double-layer microchannel heat sinks. <i>Applied Energy</i> , 2019, 241, 404-419.	5.1	77
4	Analysis and simulation of concentrating photovoltaic systems with a microchannel heat sink. <i>Solar Energy</i> , 2016, 136, 35-48.	2.9	73
5	Thermal and structure analyses of high concentrator solar cell under confined jet impingement cooling. <i>Energy Conversion and Management</i> , 2018, 176, 39-54.	4.4	69
6	Uniform cooling for concentrator photovoltaic cells and electronic chips by forced convective boiling in 3D-printed monolithic double-layer microchannel heat sink. <i>Energy Conversion and Management</i> , 2018, 166, 356-371.	4.4	69
7	Numerical analyses of hybrid jet impingement/microchannel cooling device for thermal management of high concentrator triple-junction solar cell. <i>Applied Energy</i> , 2019, 253, 113538.	5.1	63
8	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
9	Thermal management of concentrator photovoltaic systems using microchannel heat sink with nanofluids. <i>Solar Energy</i> , 2018, 171, 229-246.	2.9	58
10	Performance evaluation of new modified low-concentrator polycrystalline silicon photovoltaic/thermal systems. <i>Energy Conversion and Management</i> , 2017, 149, 593-607.	4.4	57
11	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
12	Kamil Crater (Egypt): Ground truth for small-scale meteorite impacts on Earth. <i>Geology</i> , 2011, 39, 179-182.	2.0	52
13	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
14	The Kamil Crater in Egypt. <i>Science</i> , 2010, 329, 804-804.	6.0	48
15	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
16	Battery thermal management systems based on nanofluids for electric vehicles. <i>Journal of Energy Storage</i> , 2022, 50, 104385.	3.9	45
17	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
18	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

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19	Thermal management systems based on heat pipes for batteries in EVs/HEVs. <i>Journal of Energy Storage</i> , 2022, 51, 104384.	3.9	38
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	Two-phase simulation of nanofluid in a confined single impinging jet. <i>Case Studies in Thermal Engineering</i> , 2019, 14, 100423.	2.8	17
31	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
32	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
33	Geological and geophysical investigation of Kamil crater, Egypt. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1842-1868.	0.7	16
34	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
35	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
36	Header impact assessment of double-layer microchannel heat sink in the computational fluid mechanics simulation for CPV thermal management. <i>Energy Reports</i> , 2020, 6, 55-60.	2.5	16

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37	New configurations for sea water desalination system using Ranque-Hilsch vortex tubes. Applied Thermal Engineering, 2019, 157, 113757.	3.0	15
38	Development of a new vacuum-based photovoltaic/thermal collector, and its thermal and exergy analyses. Sustainable Energy and Fuels, 2020, 4, 6251-6273.	2.5	14
39	Experimental study of the performance of concentrator photovoltaic/thermoelectric generator system integrated with a new <sc>3D</sc> printed microchannel heat sink. International Journal of Energy Research, 2021, 45, 7741-7763.	2.2	13
40	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
41	Comparative Study of Active and Passive Cooling Techniques for Concentrated Photovoltaic Systems. , 2018, , 475-505.		12
42	Design and thermal analysis of a new multi-segmented mini channel based radiant ceiling cooling panel. Journal of Building Engineering, 2021, 40, 102330.	1.6	12
43	Thermal and electrical performances of actively cooled concentrator photovoltaic system. Applied Thermal Engineering, 2021, 196, 117295.	3.0	12
44	The thermal potential of a new multifunctional sliding window. Solar Energy, 2021, 226, 389-407.	2.9	12
45	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
46	Thermal Analysis of a New Sliding Smart Window Integrated with Vacuum Insulation, Photovoltaic, and Phase Change Material. Sustainability, 2020, 12, 7846.	1.6	9
47	Numerical analysis of passive cooled ultra-high concentrator photovoltaic cell using optimal heat spreader design. Case Studies in Thermal Engineering, 2020, 22, 100757.	2.8	9
48	Numerical Analyses of High Concentrator Triple-Junction Solar Cell under Jet Impingement Cooling. Energy Procedia, 2018, 152, 1051-1056.	1.8	8
49	Annual sea level variations in the Red Sea observed using GNSS. Geophysical Journal International, 2020, 221, 826-834.	1.0	8
50	Modeling and reconfiguration of middle Egypt distribution network. , 2017, , .		7
51	Active Distribution Network Modeling for Enhancing Sustainable Power System Performance; a Case Study in Egypt. Sustainability, 2020, 12, 8991.	1.6	7
52	Thermal performance analyses of a new multi-segmented minichannel-based radiant ceiling cooling panel. Energy Reports, 2020, 6, 1409-1415.	2.5	7
53	Performance assessment of a dual-axis solar tracker for concentrator photovoltaic systems. International Journal of Energy Research, 2022, 46, 13424-13440.	2.2	6
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

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55	Analysis of a New Hybrid Water-Phase Change Material Heat Sink for Low Concentrated Photovoltaic Systems. , 2017, , .		4
56	Thermal Analysis of Flat Plate Solar Collector Using Different Nanofluids and Nanoparticles Percentages. IEEE Access, 2021, 9, 52053-52066.	2.6	4
57	Analysis of a vacuum-based photovoltaic thermal collector. Energy Reports, 2020, 6, 236-242.	2.5	4
58	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
59	Application of new series connection scheme of vortex tubes in seawater desalination unit using new vortex generators. SN Applied Sciences, 2021, 3, 1.	1.5	3
60	Performance of Concentrated Photovoltaic Cells Using Various Microchannel Heat Sink Designs. , 2016, , .		2
61	Performance Evaluation of Concentrated Photovoltaic System Using a Microchannel Heat Sink. , 2016, , .		2
62	Current State of Crustal Deformation and Seismic Activity from Seismic and Geodetic Data in Aswan Region, Egypt. Geotectonics, 2020, 54, 713-722.	0.2	1
63	Biochemical Studies on Pepper Seeds at Different Maturity Stages and Stored for Various Periods. Lipid - Fett, 1982, 84, 366-371.	0.6	0
64	An Investigation of a Novel Structure Polycrystalline Silicon Solar Cell for Concentrated Solar Power. , 2017, , .		0
65	Cooling of Concentrator Photovoltaic Cells Using Mini-Scale Jet Impingement Heat Sinks. , 2018, , .		0
66	Transformers Improvement and Environment Conservation by Using Synthetic Esters in Egypt. Energies, 2021, 14, 1992.	1.6	0
67	Performance of Concentrator Photovoltaic Systems Integrated With Double Layer Microchannel Heat Sink. , 2019, , .		0
68	Performance Analysis of Concentrator Photovoltaic/Microchannel Heat Sink System Using Nanofluid. , 2019, , .		0