

Qunwu Huang

List of Publications by Year in descending order

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papers

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567281

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docs citations

45
times ranked

706
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct liquid-immersion cooling of concentrator silicon solar cells in a linear concentrating photovoltaic receiver. <i>Energy</i> , 2014, 65, 264-271.	8.8	77
2	The performance of silicon solar cells operated in liquids. <i>Applied Energy</i> , 2009, 86, 1037-1042.	10.1	73
3	Heat dissipation performance of silicon solar cells by direct dielectric liquid immersion under intensified illuminations. <i>Solar Energy</i> , 2011, 85, 922-930.	6.1	60
4	An effective heat dissipation method for densely packed solar cells under high concentrations. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 133-140.	6.2	57
5	Multi-turbine wind-solar hybrid system. <i>Renewable Energy</i> , 2015, 76, 401-407.	8.9	57
6	CFD investigation of a new flat plate collector with additional front side transparent insulation for use in cold regions. <i>Renewable Energy</i> , 2019, 138, 754-763.	8.9	32
7	Experimental study of liquid-immersion III-V multi-junction solar cells with dimethyl silicon oil under high concentrations. <i>Energy Conversion and Management</i> , 2015, 94, 169-177.	9.2	30
8	Comparison of photovoltaic and photocatalytic performance of non-concentrating and V-trough SOLWAT (solar water purification and renewable electricity generation) systems for water purification. <i>Energy</i> , 2015, 85, 251-260.	8.8	29
9	Photovoltaic and disinfection performance study of a hybrid photovoltaic-solar water disinfection system. <i>Energy</i> , 2016, 106, 757-764.	8.8	29
10	Parametric analysis on the performance of flat plate collector with transparent insulation material. <i>Energy</i> , 2019, 174, 534-542.	8.8	24
11	Effect of radiation and convection heat transfer on cooling performance of radiative panel. <i>Renewable Energy</i> , 2016, 99, 10-17.	8.9	23
12	Study on direct-contact phase-change liquid immersion cooling dense-array solar cells under high concentration ratios. <i>Energy Conversion and Management</i> , 2016, 128, 95-103.	9.2	22
13	Experimental study of active phase change cooling technique based on porous media for photovoltaic thermal management and efficiency enhancement. <i>Energy Conversion and Management</i> , 2019, 199, 111990.	9.2	22
14	The performance and applicability study of a fixed photovoltaic-solar water disinfection system. <i>Energy Conversion and Management</i> , 2016, 123, 549-558.	9.2	19
15	Experimental study on direct-contact liquid film cooling simulated dense-array solar cells in high concentrating photovoltaic system. <i>Energy Conversion and Management</i> , 2017, 135, 55-62.	9.2	18
16	Experimental study of direct contact vaporization heat transfer on n-pentane-water flowing interface. <i>Energy</i> , 2015, 93, 854-863.	8.8	14
17	Direct contact evaporation heat transfer coefficient and drobble size distribution in a 2D column. <i>Applied Thermal Engineering</i> , 2016, 96, 568-575.	6.0	14
18	Performance study of SOL&PID system for the degradation of Acid Red 26 and 4-Chlorophenol. <i>Energy Conversion and Management</i> , 2017, 136, 361-371.	9.2	14

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19	Phase-change immersion cooling high power light emitting diodes and heat transfer improvement. <i>Microelectronics Reliability</i> , 2017, 79, 257-264.	1.7	13
20	Weighting of toilet assessment scheme in China implementing analytic hierarchy process. <i>Journal of Environmental Management</i> , 2021, 283, 111992.	7.8	13
21	The experimental study of a hybrid solar photo-Fenton and photovoltaic system for water purification. <i>Energy Conversion and Management</i> , 2017, 135, 178-187.	9.2	12
22	Experimental study on cooling performance of solar cells with atmospheric plate thermosyphon. <i>Energy Conversion and Management</i> , 2018, 178, 226-234.	9.2	12
23	The effect of Dixon rings on direct contact evaporative heat transfer performance. <i>Applied Thermal Engineering</i> , 2015, 87, 336-343.	6.0	10
24	The effect of Dixon rings on direct contact heat transfer performance: Comparison of counter and co-current evaporation. <i>Applied Thermal Engineering</i> , 2017, 117, 762-772.	6.0	10
25	Performance comparison between ethanol phase-change immersion and active water cooling for solar cells in high concentrating photovoltaic system. <i>Energy Conversion and Management</i> , 2017, 149, 505-513.	9.2	9
26	Experimental and numerical optimization of direct-contact liquid film cooling in high concentration photovoltaic system. <i>Energy Conversion and Management</i> , 2017, 154, 603-614.	9.2	9
27	Experimental study of a solar-driven photo-electrochemical hybrid system for the decolorization of Acid Red 26. <i>Energy Conversion and Management</i> , 2017, 150, 775-786.	9.2	7
28	Analysis of Combined Natural Convection and Radiation Heat Transfer in a Partitioned Rectangular Enclosure with Semitransparent Walls. <i>Transactions of Tianjin University</i> , 2019, 25, 472-487.	6.4	7
29	Comparative study of high concentrating photovoltaics integrated with phase-change liquid film cooling system. <i>International Journal of Energy Research</i> , 2019, 43, 2108-2122.	4.5	7
30	Preparation of solar selective absorbing CuO coating for medium temperature application. <i>Frontiers of Chemical Engineering in China</i> , 2007, 1, 256-260.	0.6	6
31	Experimental Study on a Modified Wind-Solar Hybrid System. <i>Transactions of Tianjin University</i> , 2018, 24, 59-65.	6.4	6
32	Transient Heat Transfer Study of Direct Contact Condensation of Steam in Spray Cooling Water. <i>Transactions of Tianjin University</i> , 2018, 24, 131-143.	6.4	5
33	Study on the performance of cooling composite materials for liquid-immersed concentrating photovoltaic systems. <i>Solar Energy</i> , 2015, 119, 543-552.	6.1	4
34	Experimental and theoretical investigation of cross-flow heat transfer equipment for air energy high efficient utilization. <i>Applied Thermal Engineering</i> , 2016, 98, 1231-1240.	6.0	4
35	Performance analysis of a solar photochemical photovoltaic hybrid system for decolorization of Acid Red 26 (AR 26). <i>Energy</i> , 2017, 127, 209-217.	8.8	3
36	Transient analysis of the steam-water direct contact condensation in the packed column. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 404-413.	1.7	3

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37	New insights for phase-change immersion cooling enhancement of solar cells under high concentration ratios. <i>International Journal of Energy Research</i> , 2018, 42, 466-476.	4.5	3
38	Effect of Color Coating of Cover Plate on Thermal Behavior of Flat Plate Solar Collector. <i>Energies</i> , 2020, 13, 6696.	3.1	3
39	Experimental investigation on direct contact condensation of subatmospheric pressure steam in cocurrent flow packed tower. <i>Energy Science and Engineering</i> , 0, , .	4.0	3
40	Controlling of Fumed Silica Particle Size Uniform Production Process Based on Burner Fluid Dynamic Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 7235-7244.	3.7	3
41	Spectral transmittance of di-methyl silicon oil as a heat transfer material for concentrator solar cells. <i>Transactions of Tianjin University</i> , 2015, 21, 453-460.	6.4	2
42	Simple model for gas holdup and liquid velocity of annular photocatalytic external-loop airlift reactor under both bubble and developing slug flow. <i>Transactions of Tianjin University</i> , 2016, 22, 228-236.	6.4	1
43	The effect of packing on direct contact evaporation in spray column. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 2209-2220.	1.7	1
44	An indirect evaporative heat pump system. <i>Applied Thermal Engineering</i> , 2017, 121, 791-801.	6.0	1
45	Influence of Piping on On-Line Continuous Weighing of Materials inside Process Equipment: Theoretical Analysis and Experimental Verification. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5246.	2.5	1