Bin-Juine Huang

List of Publications by Year
in descending order

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100 papers	4,399 citations	125106 35 h-index	124990 64 g-index
100 all docs	100 docs citations	100 times ranked	2880 citing authors

#	Article	IF	Citations
1	A method of fast quality control inspection of loop heat pipe. IOP Conference Series: Materials Science and Engineering, 2021, 1139, 012004.	0.3	0
2	Development of once-through manufacturing machine for large-area Perovskite solar cell production. Solar Energy, 2020, 205, 192-201.	2.9	8
3	Study of power dispatching control scheme in pyramid solar micro-grid. Energy Reports, 2020, 6, 107-113.	2.5	7
4	Humidificationâ€“Dehumidification (HDH) Desalination System with Air-Cooling Condenser and Cellulose Evaporative Pad. Water (Switzerland), 2020, 12, 142.	1.2	12
5	Solar Home System with Peak-Shaving Function and Smart Control in Hot Water Supply. Smart Innovation, Systems and Technologies, 2020, , 23-35.	0.5	1
6	Performance test of 4+4 pyramid solar micro-grid. Energy Reports, 2020, 6, 1496-1503.	2.5	1
7	Power dispatching control of pyramid solar micro-grid. International Journal of Smart Grid and Clean Energy, 2020, , 135-142.	0.4	2
8	Development of solar home system with dual energy storage. SN Applied Sciences, 2019, 1, 1.	1.5	3
9	A study of heat-pump fresh air exchanger. Applied Thermal Engineering, 2018, 132, 708-718.	3.0	12
10	Pyramid solar micro-grid. IOP Conference Series: Earth and Environmental Science, 2018, 136, 012002.	0.2	0
11	Low-cost manufacturing of loop heat pipe for commercial applications. Applied Thermal Engineering, 2017, 126, 1091-1097.	3.0	17
12	A novel algorithm for single-axis maximum power generation sun trackers. Energy Conversion and Management, 2017, 149, 543-552.	4.4	13
13	Long-term Energy Generation Efficiency of Solar PV System for Self-consumption. Energy Procedia, 2017, 141, 91-95.	1.8	17
14	Distributed Solar PV System for Industrial Application. Journal of Energy and Power Engineering, 2017, 11, .	0.2	0
15	Effect of switching scheme on the performance of a hybrid solar PV system. Renewable Energy, 2016, 96, 520-530.	4.3	16
16	Cellulose-pad water cooling system with cold storage. International Journal of Refrigeration, 2016, 69, 383-393.	1.8	5
17	Design of direct solar PV driven air conditioner. Renewable Energy, 2016, 88, 95-101.	4.3	59
18	Investigation of an experimental ejector refrigeration machine operating with refrigerant R245fa at design and off-design working conditions. Part 2. Theoretical and experimental results. International Journal of Refrigeration, 2015, 55, 212-223.	1.8	60

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19	Spiral multiple-effect diffusion solar still coupled with vacuum-tube collector and heat pipe. Desalination, 2015, 362, 74-83.	4.0	48
20	Investigation of an experimental ejector refrigeration machine operating with refrigerant R245fa at design and off-design working conditions. Part 1. Theoretical analysis. International Journal of Refrigeration, 2015, 55, 201-211.	1.8	55
21	A thermoelectric generator using loop heat pipe and design match for maximum-power generation. Applied Thermal Engineering, 2015, 91, 1082-1091.	3.0	31
22	Solar Distillation System Based on Multiple-Effect Diffusion Type Still. Journal of Sustainable Development of Energy, Water and Environment Systems, 2014, 2, 41-50.	0.9	13
23	Performance test of solar-assisted ejector cooling system. International Journal of Refrigeration, 2014, 39, 172-185.	1.8	21
24	Multiple-effect diffusion solar still coupled with a vacuum-tube collector and heat pipe. Desalination, 2014, 347, 66-76.	4.0	52
25	Illumination and Color Control in Red-Green-Blue Light-Emitting Diode. IEEE Transactions on Power Electronics, 2014, 29, 4921-4937.	5.4	29
26	Performance optimization for a variable throat ejector in a solar refrigeration system. International Journal of Refrigeration, 2013, 36, 1512-1520.	1.8	39
27	Improving Solar PV System Efficiency Using One-Axis 3-Position Sun Tracking. Energy Procedia, 2013, 33, 280-287.	1.8	61
28	Development of constant-power driving control for light-emitting-diode (LED) luminaire. Applied Thermal Engineering, 2013, 50, 645-651.	3.0	11
29	Maximum-power-point tracking control of solar heating system. Solar Energy, 2012, 86, 3278-3287.	2.9	9
30	Direct battery-driven solar LED lighting using constant-power control. Solar Energy, 2012, 86, 3250-3259.	2.9	20
31	System performance and economic analysis of solar-assisted cooling/heating system. Solar Energy, 2011, 85, 2802-2810.	2.9	17
32	Design-theoretical study of cascade CO2 sub-critical mechanical compression/butane ejector cooling cycle. International Journal of Refrigeration, 2011, 34, 1649-1656.	1.8	25
33	Solar cell junction temperature measurement of PV module. Solar Energy, 2011, 85, 388-392.	2.9	58
34	Long-term field test of solar PV power generation using one-axis 3-position sun tracker. Solar Energy, 2011, 85, 1935-1944.	2.9	84
35	Advanced Solar-Assisted Cascade Ejector Cooling / CO2 Sub-Critical Mechanical Compression Refrigeration System. , 2011, , .		2
36	Building-integrated Solar Collector (BISC). , 2011, , .		2

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37	Optimal Performance of Solar Heating System. , 2011, , .		0
38	Investigation of Experimental Ejector Cooling Machine Operating with Refrigerant R245fa Designed for Solar Air Conditioning Application. , 2011, , .		0
39	Optimal control and performance test of solar-assisted cooling system. Applied Thermal Engineering, 2010, 30, 2243-2252.	3.0	23
40	Development of hybrid solar-assisted cooling/heating system. Energy Conversion and Management, 2010, 51, 1643-1650.	4.4	40
41	Development of high-performance solar LED lighting system. Energy Conversion and Management, 2010, 51, 1669-1675.	4.4	35
42	System dynamic model and charging control of lead-acid battery for stand-alone solar PV system. Solar Energy, 2010, 84, 822-830.	2.9	49
43	Multivariable Robust Control for a Redâ€“Greenâ€“Blue LED Lighting System. IEEE Transactions on Power Electronics, 2010, 25, 417-428.	5.4	53
44	Design and Modeling of Innovative Solar Ejector Air Conditioners and Chillers Operating with Low Boiling Working Fluids. , 2010, , .		1
45	System dynamics model of high-power LED luminaire. Applied Thermal Engineering, 2009, 29, 609-616.	3.0	55
46	Performance of ejector cooling system with thermal pumping effect using R141b and R365mfc. Applied Thermal Engineering, 2009, 29, 1904-1912.	3.0	34
47	Economic feasibility of solar-powered led roadway lighting. Renewable Energy, 2009, 34, 1934-1938.	4.3	55
48	A fast response heat pump water heater using thermostat made from shape memory alloy. Applied Thermal Engineering, 2009, 29, 56-63.	3.0	16
49	System dynamics model and startup behavior of loop heat pipe. Applied Thermal Engineering, 2009, 29, 2999-3005.	3.0	37
50	Thermalâ€“electricalâ€“luminous model of multi-chip polychromatic LED luminaire. Applied Thermal Engineering, 2009, 29, 3366-3373.	3.0	39
51	Development of High-power LED Lighting Luminaires Using Loop Heat Pipe. Journal of Light and Visual Environment, 2008, 32, 148-155.	0.2	19
52	Performance evaluation method of solar-assisted heat pump water heater. Applied Thermal Engineering, 2007, 27, 568-575.	3.0	38
53	Study of system dynamics model and control of a high-power LED lighting luminaire. Energy, 2007, 32, 2187-2198.	4.5	45
54	Feasibility study of one axis three positions tracking solar PV with low concentration ratio reflector. Energy Conversion and Management, 2007, 48, 1273-1280.	4.4	132

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55	Study of a new environmental chamber design. Applied Thermal Engineering, 2007, 27, 1967-1977.	3.0	5
56	Study of System Dynamics of High-Power LEDs. , 2006, , .		2
57	Development of an ejector cooling system with thermal pumping effect. International Journal of Refrigeration, 2006, 29, 476-484.	1.8	38
58	Near-maximum-power-point-operation (nMPPO) design of photovoltaic power generation system. Solar Energy, 2006, 80, 1003-1020.	2.9	30
59	Charaterizing LEDs for Mixture of Colored LED light sources. , 2006, , .		25
60	Study of a high efficiency residential split water-cooled air conditioner. Applied Thermal Engineering, 2005, 25, 1599-1613.	3.0	23
61	Heat-pipe enhanced solar-assisted heat pump water heater. Solar Energy, 2005, 78, 375-381.	2.9	66
62	A proposed modified efficiency for thermosyphon solar heating systems. Solar Energy, 2004, 76, 693-701.	2.9	31
63	Long-term performance of solar-assisted heat pump water heater. Renewable Energy, 2004, 29, 633-639.	4.3	53
64	A pulse-tube refrigerator using variable-resistance orifice. Cryogenics, 2003, 43, 59-65.	0.9	0
65	Performance analysis of a solar-assisted heat pump water heater. Solar Energy, 2003, 74, 33-44.	2.9	104
66	A criterion study of solar irradiation patterns for the performance testing of thermosyphon solar water heaters. Solar Energy, 2002, 73, 287-292.	2.9	11
67	Performance evaluation of solar photovoltaic/thermal systems. Solar Energy, 2001, 70, 443-448.	2.9	641
68	Collector selection for solar ejector cooling system. Solar Energy, 2001, 71, 269-274.	2.9	45
69	Performance characteristics of integral type solar-assisted heat pump. Solar Energy, 2001, 71, 403-414.	2.9	109
70	Experimental study on the design of orifice pulse tube refrigerator. International Journal of Refrigeration, 2001, 24, 400-408.	1.8	7
71	A combined-cycle refrigeration system using ejector-cooling cycle as the bottom cycle. International Journal of Refrigeration, 2001, 24, 391-399.	1.8	42
72	Modeling of integral-type Stirling refrigerator using system dynamics approach. International Journal of Refrigeration, 2000, 23, 632-641.	1.8	9

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73	System dynamic model and temperature control of a thermoelectric cooler. International Journal of Refrigeration, 2000, 23, 197-207.	1.8	89
74	A design method of thermoelectric cooler. International Journal of Refrigeration, 2000, 23, 208-218.	1.8	186
75	Empirical correlation for ejector design. International Journal of Refrigeration, 1999, 22, 379-388.	1.8	140
76	A 1-D analysis of ejector performance. International Journal of Refrigeration, 1999, 22, 354-364.	1.8	797
77	Integral-type solar-assisted heat pump water heater. Renewable Energy, 1999, 16, 731-734.	4.3	46
78	Fuzzy control on the phase and stroke of a linear compressor of a split-Stirling cryocooler. Cryogenics, 1998, 38, 231-238.	0.9	11
79	A SOLAR EJECTOR COOLING SYSTEM USING REFRIGERANT R141b. Solar Energy, 1998, 64, 223-226.	2.9	94
80	Effect of oversize in wire-screen matrix to the matrix-holding tube on regenerator thermal performance. Cryogenics, 1996, 36, 365-372.	0.9	15
81	New techniques for the non-contact measurement of displacer motion of a miniature split-Stirling cryocooler. Cryogenics, 1996, 36, 573-578.	0.9	6
82	A system dynamics model of split-type Stirling refrigerator. Cryogenics, 1996, 36, 513-516.	0.9	0
83	System design of orifice pulse-tube refrigerator using linear flow network analysis. Cryogenics, 1996, 36, 889-902.	0.9	32
84	Split-type free-displacer Stirling refrigerator design using linear network analysis. Cryogenics, 1996, 36, 1005-1017.	0.9	10
85	System performance analysis of Gifford-McMahon cooler. Cryogenics, 1995, 35, 117-125.	0.9	9
86	Linear network analysis of regenerator in a cyclic-flow system. Cryogenics, 1995, 35, 203-207.	0.9	13
87	Linear network analysis of split-type stirling refrigerator. Cryogenics, 1994, 34, 207-210.	0.9	3
88	Performance characteristics of pulse tube refrigerators. Cryogenics, 1993, 33, 1132-1136.	0.9	1
89	Performance rating method of thermosyphon solar water heaters. Solar Energy, 1993, 50, 435-440.	2.9	32
90	Dynamic response of regenerator in cyclic flow system. Cryogenics, 1993, 33, 1046-1052.	0.9	7

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91	A precise measurement of temperature difference using thermopiles. Experimental Thermal and Fluid Science, 1990, 3, 265-271.	1.5	9
92	Jouleâ€"Thomson effect in liquid He II. Cryogenics, 1986, 26, 475-477.	0.9	8
93	A simulation method for solar thermosyphon collector. Solar Energy, 1985, 35, 31-43.	2.9	38
94	A method of analysis for heat pipe heat exchangers. International Journal of Heat and Mass Transfer, 1985, 28, 553-562.	2.5	25
95	Performance test of solar collector with intermittent output. Solar Energy, 1982, 28, 413-420.	2.9	5
96	Mass transfer in heterogeneous system with chemical reaction. International Journal of Heat and Mass Transfer, 1980, 23, 1539-1543.	2.5	0
97	Engineering analysis of pumping cold deep nutrient-rich seawater for mariculture and nuclear power plant cooling. Ocean Engineering, 1980, 7, 501-520.	1.9	2
98	Similarity theory of solar water heater with natural circulation. Solar Energy, 1980, 25, 105-116.	2.9	61
99	Thermal analysis of black liquid cylindrical parabolic collector. Solar Energy, 1979, 22, 221-224.	2.9	28
100	Creeping-film phenomenon of potassium chloride solution. Nature, 1976, 261, 36-38.	13.7	10