

Gang Pei

List of Publications by Year in descending order

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187
papers

6,595
citations

76294

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85498

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188
all docs

188
docs citations

188
times ranked

3344
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative cooling: A review of fundamentals, materials, applications, and prospects. Applied Energy, 2019, 236, 489-513.	5.1	474
2	Hybrid photovoltaic and thermal solar-collector designed for natural circulation of water. Applied Energy, 2006, 83, 199-210.	5.1	266
3	A sensitivity study of a hybrid photovoltaic/thermal water-heating system with natural circulation. Applied Energy, 2007, 84, 222-237.	5.1	244
4	Distributed dynamic modeling and experimental study of PV evaporator in a PV/T solar-assisted heat pump. International Journal of Heat and Mass Transfer, 2009, 52, 1365-1373.	2.5	196
5	Construction and dynamic test of a small-scale organic rankine cycle. Energy, 2011, 36, 3215-3223.	4.5	189
6	Analysis of low temperature solar thermal electric generation using regenerative Organic Rankine Cycle. Applied Thermal Engineering, 2010, 30, 998-1004.	3.0	177
7	A review on the recent research progress in the compound parabolic concentrator (CPC) for solar energy applications. Renewable and Sustainable Energy Reviews, 2018, 82, 1272-1296.	8.2	166
8	Experimental study of photovoltaic solar assisted heat pump system. Solar Energy, 2008, 82, 43-52.	2.9	163
9	Field test and preliminary analysis of a combined diurnal solar heating and nocturnal radiative cooling system. Applied Energy, 2016, 179, 899-908.	5.1	110
10	Comprehensive photonic approach for diurnal photovoltaic and nocturnal radiative cooling. Solar Energy Materials and Solar Cells, 2018, 178, 266-272.	3.0	103
11	Numerical and experimental study on a PV/T system with static miniature solar concentrator. Solar Energy, 2015, 120, 565-574.	2.9	101
12	Energetic and exergetic investigation of an organic Rankine cycle at different heat source temperatures. Energy, 2012, 38, 85-95.	4.5	99
13	Experimental study of the effect of inclination angle on the thermal performance of heat pipe photovoltaic/thermal (PV/T) systems with wickless heat pipe and wire-meshed heat pipe. Applied Thermal Engineering, 2016, 106, 651-660.	3.0	99
14	Spectrally selective approaches for passive cooling of solar cells: A review. Applied Energy, 2020, 262, 114548.	5.1	98
15	Outdoor overall performance of a novel air-gap-lens-walled compound parabolic concentrator (ALCPC) incorporated with photovoltaic/thermal system. Applied Energy, 2015, 144, 214-223.	5.1	86
16	Effect of non-uniform illumination and temperature distribution on concentrating solar cell - A review. Energy, 2018, 144, 1119-1136.	4.5	86
17	Performance analysis of enhanced radiative cooling of solar cells based on a commercial silicon photovoltaic module. Solar Energy, 2018, 176, 248-255.	2.9	85
18	A cascade organic Rankine cycle power generation system using hybrid solar energy and liquefied natural gas. Solar Energy, 2016, 127, 136-146.	2.9	79

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19	Conceptual development of a building-integrated photovoltaic-radiative cooling system and preliminary performance analysis in Eastern China. <i>Applied Energy</i> , 2017, 205, 626-634.	5.1	73
20	Preliminary experimental study of a specular and a diffuse surface for daytime radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2019, 191, 290-296.	3.0	73
21	Analysis of a novel solar electricity generation system using cascade Rankine cycle and steam screw expander. <i>Applied Energy</i> , 2016, 165, 627-638.	5.1	72
22	Optical evaluation of a novel static incorporated compound parabolic concentrator with photovoltaic/thermal system and preliminary experiment. <i>Energy Conversion and Management</i> , 2014, 85, 204-211.	4.4	70
23	Efficient transformation of corn stover to furfural using p-hydroxybenzenesulfonic acid-formaldehyde resin solid acid. <i>Bioresource Technology</i> , 2018, 264, 261-267.	4.8	70
24	Preliminary thermal analysis of a combined photovoltaic-photothermic-nocturnal radiative cooling system. <i>Energy</i> , 2017, 137, 419-430.	4.5	60
25	Performance assessment of a trifunctional system integrating solar PV, solar thermal, and radiative sky cooling. <i>Applied Energy</i> , 2020, 260, 114167.	5.1	56
26	Performance evaluation of daytime radiative cooling under different clear sky conditions. <i>Applied Thermal Engineering</i> , 2019, 155, 660-666.	3.0	54
27	Self-adaptive integration of photothermal and radiative cooling for continuous energy harvesting from the sun and outer space. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2120557119.	3.3	52
28	Experimental and numerical analysis of an efficiently optimized evacuated flat plate solar collector under medium temperature. <i>Applied Energy</i> , 2020, 269, 115129.	5.1	51
29	Effects of frame shadow on the PV character of a photovoltaic/thermal system. <i>Applied Energy</i> , 2014, 130, 326-332.	5.1	50
30	Modeling and optimization of radiative cooling based thermoelectric generators. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	50
31	Effect of working fluids on the performance of a novel direct vapor generation solar organic Rankine cycle system. <i>Applied Thermal Engineering</i> , 2016, 98, 786-797.	3.0	49
32	Field investigation of a hybrid photovoltaic-photothermic-radiative cooling system. <i>Applied Energy</i> , 2018, 231, 288-300.	5.1	49
33	Experimental study on a hybrid photo-thermal and radiative cooling collector using black acrylic paint as the panel coating. <i>Renewable Energy</i> , 2019, 139, 1217-1226.	4.3	48
34	Life-cycle assessment of a low-concentration PV module for building south wall integration in China. <i>Applied Energy</i> , 2018, 215, 174-185.	5.1	47
35	Theoretical and experimental studies of impacts of heat shields on heat pipe evacuated tube solar collector. <i>Renewable Energy</i> , 2019, 138, 999-1009.	4.3	46
36	A review on independent and integrated/coupled two-phase loop thermosyphons. <i>Applied Energy</i> , 2020, 280, 115885.	5.1	46

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37	Techno-economic assessment of performance-enhanced parabolic trough receiver in concentrated solar power plants. <i>Renewable Energy</i> , 2021, 167, 629-643.	4.3	46
38	Numerical study and experimental validation of a combined diurnal solar heating and nocturnal radiative cooling collector. <i>Applied Thermal Engineering</i> , 2018, 145, 1-13.	3.0	45
39	Radiative cooling of solar cells with micro-grating photonic cooler. <i>Renewable Energy</i> , 2022, 191, 662-668.	4.3	45
40	Performance analysis of a hybrid system combining photovoltaic and nighttime radiative cooling. <i>Applied Energy</i> , 2019, 252, 113432.	5.1	44
41	Comparative study on annual solar energy collection of a novel lens-walled compound parabolic concentrator (lens-walled CPC). <i>Sustainable Cities and Society</i> , 2012, 4, 35-40.	5.1	43
42	PV-Trombe Wall Design for Buildings in Composite Climates. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2007, 129, 431-437.	1.1	41
43	Thermodynamic and economic investigation of a screw expander-based direct steam generation solar cascade Rankine cycle system using water as thermal storage fluid. <i>Applied Energy</i> , 2017, 195, 137-151.	5.1	41
44	General strategy of passive sub-ambient daytime radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2019, 199, 108-113.	3.0	41
45	Optimization design and performance analysis of a novel asymmetric compound parabolic concentrator with rotation angle for building application. <i>Solar Energy</i> , 2017, 158, 808-818.	2.9	40
46	Performance analysis on a high-temperature solar evacuated receiver with an inner radiation shield. <i>Energy</i> , 2017, 139, 447-458.	4.5	40
47	Performance study and comparative analysis of traditional and double-selective-coated parabolic trough receivers. <i>Energy</i> , 2018, 145, 206-216.	4.5	40
48	Numerical investigation and experimental validation of the impacts of an inner radiation shield on parabolic trough solar receivers. <i>Applied Thermal Engineering</i> , 2018, 132, 381-392.	3.0	40
49	Numerical and lab experiment study of a novel concentrating PV with uniform flux distribution. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 1-9.	3.0	39
50	A novel concentrating photovoltaic/daylighting control system: Optical simulation and preliminary experimental analysis. <i>Applied Energy</i> , 2018, 228, 1362-1372.	5.1	39
51	Comprehensive experimental testing and analysis on parabolic trough solar receiver integrated with radiation shield. <i>Applied Energy</i> , 2020, 268, 115004.	5.1	39
52	Thermal analysis of PV/T evaporator of a solar-assisted heat pump. <i>International Journal of Energy Research</i> , 2007, 31, 525-545.	2.2	37
53	A Novel Lens-Walled Compound Parabolic Concentrator for Photovoltaic Applications. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012, 134, .	1.1	37
54	Applications of radiative sky cooling in solar energy systems: Progress, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 160, 112304.	8.2	37

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55	Comparative Experimental Analysis of the Thermal Performance of Evacuated Tube Solar Water Heater Systems With and Without a Mini-Compound Parabolic Concentrating (CPC) Reflector(C < 1). Energies, 2012, 5, 911-924.	1.6	36
56	Evaluation of external heat loss from a small-scale expander used in organic Rankine cycle. Applied Thermal Engineering, 2011, 31, 2694-2701.	3.0	34
57	Comparative analysis of different surfaces for integrated solar heating and radiative cooling: A numerical study. Energy, 2018, 155, 360-369.	4.5	34
58	A novel strategy for a building-integrated diurnal photovoltaic and all-day radiative cooling system. Energy, 2019, 183, 892-900.	4.5	34
59	Experimental optimization on the volume-filling ratio of a loop thermosyphon photovoltaic/thermal system. Renewable Energy, 2019, 143, 233-242.	4.3	34
60	Performance evaluation and analyses of novel parabolic trough evacuated collector tubes with spectrum-selective glass envelope. Renewable Energy, 2019, 138, 793-804.	4.3	33
61	An improved approach for the application of Trombe wall system to building construction with selective thermo-insulation faÅšades. Science Bulletin, 2009, 54, 1949-1956.	4.3	32
62	Analysis of a novel gravity driven organic Rankine cycle for small-scale cogeneration applications. Applied Energy, 2013, 108, 34-44.	5.1	32
63	Is it possible for a photovoltaic-thermoelectric device to generate electricity at night?. Solar Energy Materials and Solar Cells, 2021, 228, 111136.	3.0	32
64	Theoretical and Experimental Study of Spectral Selectivity Surface for Both Solar Heating and Radiative Cooling. International Journal of Photoenergy, 2015, 2015, 1-9.	1.4	31
65	p-Hydroxybenzenesulfonic acidâ€“formaldehyde solid acid resin for the conversion of fructose and glucose to 5-hydroxymethylfurfural. RSC Advances, 2017, 7, 27682-27688.	1.7	31
66	Parametric analysis and annual performance evaluation of an air-based integrated solar heating and radiative cooling collector. Energy, 2018, 165, 811-824.	4.5	31
67	An Experimental Study on a Novel Heat Pipe-Type Photovoltaic/Thermal System with and without a Glass Cover. International Journal of Green Energy, 2013, 10, 72-89.	2.1	30
68	A novel approach to thermal storage of direct steam generation solar power systems through two-step heat discharge. Applied Energy, 2019, 236, 81-100.	5.1	30
69	Preliminary Ray Tracing and Experimental Study on the Effect of Mirror Coating on the Optical Efficiency of a Solid Dielectric Compound Parabolic Concentrator. Energies, 2012, 5, 3627-3639.	1.6	29
70	A parametric study on the performance characteristics of an evacuated flat-plate photovoltaic/thermal (PV/T) collector. Renewable Energy, 2021, 167, 884-898.	4.3	29
71	A spectral self-regulating parabolic trough solar receiver integrated with vanadium dioxide-based thermochromic coating. Applied Energy, 2021, 285, 116453.	5.1	29
72	Design, optimization and performance analysis of an asymmetric concentrator-PV type window for the building south wall application. Solar Energy, 2019, 193, 422-433.	2.9	28

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73	Performance investigation of solar tower system using cascade supercritical carbon dioxide Brayton-steam Rankine cycle. <i>Energy Conversion and Management</i> , 2020, 225, 113430.	4.4	28
74	Development of a 2D temperature-irradiance coupling model for performance characterizations of the flat-plate photovoltaic/thermal (PV/T) collector. <i>Renewable Energy</i> , 2020, 153, 404-419.	4.3	28
75	Seasonal-regulatable energy systems design and optimization for solar energy year-round utilization. <i>Applied Energy</i> , 2022, 322, 119500.	5.1	28
76	Design of the ORC (organic Rankine cycle) condensation temperature with respect to the expander characteristics for domestic CHP (combined heat and power) applications. <i>Energy</i> , 2014, 77, 579-590.	4.5	27
77	Feasibility of an innovative amorphous silicon photovoltaic/thermal system for medium temperature applications. <i>Applied Energy</i> , 2019, 252, 113427.	5.1	27
78	Conventional photovoltaic panel for nocturnal radiative cooling and preliminary performance analysis. <i>Energy</i> , 2019, 175, 677-686.	4.5	27
79	Modeling and optimization of solar-powered cascade Rankine cycle system with respect to the characteristics of steam screw expander. <i>Renewable Energy</i> , 2017, 112, 398-412.	4.3	26
80	Examination of the expander leaving loss in variable organic Rankine cycle operation. <i>Energy Conversion and Management</i> , 2013, 65, 66-74.	4.4	25
81	Off-design performance modelling of a solar organic Rankine cycle integrated with pressurized hot water storage unit for community level application. <i>Energy Conversion and Management</i> , 2018, 166, 132-145.	4.4	25
82	A novel integrated solar gas turbine trigeneration system for production of power, heat and cooling: Thermodynamic-economic-environmental analysis. <i>Renewable Energy</i> , 2020, 152, 925-941.	4.3	24
83	Performance evaluation of controllable separate heat pipes. <i>Applied Thermal Engineering</i> , 2016, 100, 518-527.	3.0	23
84	Preliminary performance study of a high-temperature parabolic trough solar evacuated receiver with an inner transparent radiation shield. <i>Solar Energy</i> , 2018, 173, 640-650.	2.9	23
85	An analytical study of the nocturnal radiative cooling potential of typical photovoltaic/thermal module. <i>Applied Energy</i> , 2020, 277, 115625.	5.1	23
86	Investigation on the Optimum Volume-Filling Ratio of a Loop Thermosyphon Solar Water-Heating System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016, 138, .	1.1	22
87	Feasibility research on a double-covered hybrid photo-thermal and radiative sky cooling module. <i>Solar Energy</i> , 2020, 197, 332-343.	2.9	22
88	Overall detail comparison for a building integrated concentrating photovoltaic/daylighting system. <i>Energy and Buildings</i> , 2019, 199, 415-426.	3.1	21
89	Daylighting utilization and uniformity comparison for a concentrator-photovoltaic window in energy saving application on the building. <i>Energy</i> , 2021, 214, 118932.	4.5	21
90	Light and thermal management of the semi-transparent radiative cooling glass for buildings. <i>Energy</i> , 2022, 238, 121761.	4.5	21

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91	Preliminary study on variable conductance loop thermosyphons. <i>Energy Conversion and Management</i> , 2017, 147, 66-74.	4.4	20
92	Performance analysis of integrated linear fresnel reflector with a conventional cooling, heat, and power tri-generation plant. <i>Renewable Energy</i> , 2019, 138, 639-650.	4.3	20
93	Thermo-economic evaluation of an innovative direct steam generation solar power system using screw expanders in a tandem configuration. <i>Applied Thermal Engineering</i> , 2019, 148, 1007-1017.	3.0	20
94	Small scale optimization in crystalline silicon solar cell on efficiency enhancement of low-concentrating photovoltaic cell. <i>Solar Energy</i> , 2020, 202, 316-325.	2.9	20
95	Experimental study on a hybrid solar photothermic and radiative cooling collector equipped with a rotatable absorber/emitter plate. <i>Applied Energy</i> , 2022, 306, 118096.	5.1	20
96	Performance of a building-integrated photovoltaic/thermal system under frame shadows. <i>Energy and Buildings</i> , 2017, 134, 71-79.	3.1	19
97	Design of steam condensation temperature for an innovative solar thermal power generation system using cascade Rankine cycle and two-stage accumulators. <i>Energy Conversion and Management</i> , 2019, 184, 389-401.	4.4	19
98	Analysis of a novel photovoltaic/thermal system using InGaN/GaN MQWs cells in high temperature applications. <i>Renewable Energy</i> , 2021, 168, 11-20.	4.3	19
99	An all-day cooling system that combines solar absorption chiller and radiative cooling. <i>Renewable Energy</i> , 2022, 186, 831-844.	4.3	19
100	The design, construction and experimental characterization of a novel concentrating photovoltaic/daylighting window for green building roof. <i>Energy</i> , 2019, 175, 1138-1152.	4.5	18
101	A dual-layer polymer-based film for all-day sub-ambient radiative sky cooling. <i>Energy</i> , 2022, 254, 124350.	4.5	18
102	Performance evaluation of a micro turbo-expander for application in low-temperature solar electricity generation. <i>Journal of Zhejiang University: Science A</i> , 2011, 12, 207-213.	1.3	17
103	Structure optimization and annual performance analysis of the lens-walled compound parabolic concentrator. <i>International Journal of Green Energy</i> , 2016, 13, 944-950.	2.1	17
104	Effects of different types of defects on ignition mechanisms in shocked $\dot{\text{I}}^2$ -cyclo-tetramethylene tetranitramine crystals: A molecular dynamics study based on ReaxFF-Ig force field. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	17
105	Experimental study on the temperature management behaviours of a controllable loop thermosyphon. <i>Energy Conversion and Management</i> , 2019, 195, 436-446.	4.4	17
106	Experimental study on a novel photovoltaic thermal system using amorphous silicon cells deposited on stainless steel. <i>Energy</i> , 2018, 159, 786-798.	4.5	16
107	Novel parabolic trough power system integrating direct steam generation and molten salt systems: Preliminary thermodynamic study. <i>Energy Conversion and Management</i> , 2019, 195, 909-926.	4.4	16
108	Effect of non-condensable gas on the behaviours of a controllable loop thermosyphon under active control. <i>Applied Thermal Engineering</i> , 2019, 146, 288-294.	3.0	16

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109	Investigation of an innovative PV/T-ORC system using amorphous silicon cells and evacuated flat plate solar collectors. <i>Energy</i> , 2020, 203, 117873.	4.5	16
110	Optimization strategies and verifications of negative thermal-flux region occurring in parabolic trough solar receiver. <i>Journal of Cleaner Production</i> , 2021, 278, 123407.	4.6	16
111	Performance analysis of a novel bifacial solar photothermic and radiative cooling module. <i>Energy Conversion and Management</i> , 2021, 236, 114057.	4.4	16
112	Effect of working fluids on the performance of phase change material storage based direct vapor generation solar organic Rankine cycle system. <i>Energy Reports</i> , 2021, 7, 348-361.	2.5	16
113	Numerical study of PV/T-SAHP system. <i>Journal of Zhejiang University: Science A</i> , 2008, 9, 970-980.	1.3	15
114	Spectral optimization of solar selective absorbing coating for parabolic trough receiver. <i>Energy</i> , 2019, 183, 639-650.	4.5	15
115	Design and analysis of an innovative concentrated solar power system using cascade organic Rankine cycle and two-tank water/steam storage. <i>Energy Conversion and Management</i> , 2021, 237, 114108.	4.4	15
116	Thermodynamic comparison and dynamic simulation of direct and indirect solar organic Rankine cycle systems with PCM storage. <i>Energy Procedia</i> , 2017, 129, 716-723.	1.8	14
117	Experimental investigation on controllable loop thermosyphon with a reservoir. <i>Applied Thermal Engineering</i> , 2017, 126, 322-329.	3.0	14
118	Daylighting characteristics and experimental validation of a novel concentrating photovoltaic/daylighting system. <i>Solar Energy</i> , 2019, 186, 264-276.	2.9	14
119	The fuel cell and atmospheric water generator hybrid system for supplying grid-independent power and freshwater. <i>Applied Energy</i> , 2020, 279, 115780.	5.1	14
120	Performance analysis of the sky radiative and thermoelectric hybrid cooling system. <i>Energy</i> , 2020, 200, 117516.	4.5	14
121	Effect of the spectrally selective features of the cover and emitter combination on radiative cooling performance. <i>Energy and Built Environment</i> , 2021, 2, 251-259.	2.9	14
122	Performance analysis of the aerogel-based PV/T collector: A numerical study. <i>Solar Energy</i> , 2021, 228, 339-348.	2.9	14
123	Frictional pressure drop characteristics of air flow through sinter bed layer in vertical tank. <i>Powder Technology</i> , 2019, 344, 177-182.	2.1	13
124	Performance characteristics of variable conductance loop thermosyphon for energy-efficient building thermal control. <i>Applied Energy</i> , 2020, 275, 115337.	5.1	13
125	Feasibility of realizing daytime solar heating and radiative cooling simultaneously with a novel structure. <i>Sustainable Cities and Society</i> , 2021, 74, 103224.	5.1	13
126	The energy, exergy, and techno-economic analysis of a solar seasonal residual energy utilization system. <i>Energy</i> , 2022, 248, 123626.	4.5	13

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127	The spatial and temporal mismatch phenomenon in solar space heating applications: status and solutions. <i>Applied Energy</i> , 2022, 321, 119326.	5.1	13
128	Enhanced cooling by applying the radiative sky cooler to both ends of the thermoelectric cooler. <i>Energy Conversion and Management</i> , 2020, 212, 112785.	4.4	12
129	Negative thermal-flux phenomenon and regional solar absorbing coating improvement strategy for the next-generation solar power tower. <i>Energy Conversion and Management</i> , 2021, 247, 114756.	4.4	12
130	Absorption chiller waste heat utilization to the desiccant dehumidifier system for enhanced cooling “ Energy and exergy analysis. <i>Energy</i> , 2022, 239, 121847.	4.5	12
131	A numerical and experimental study of a dual-function solar collector integrated with building in passive space heating mode. <i>Science Bulletin</i> , 2010, 55, 1568-1573.	1.7	11
132	Effect of grid and optimization on improving the electrical performance of compound parabolic concentrator photovoltaic cells. <i>Solar Energy</i> , 2020, 196, 607-615.	2.9	11
133	Feasibility research on a hybrid solar tower system using steam and molten salt as heat transfer fluid. <i>Energy</i> , 2020, 205, 118094.	4.5	11
134	Characterisation of a controllable loop thermosyphon for precise temperature management. <i>Applied Thermal Engineering</i> , 2021, 185, 116444.	3.0	11
135	Integration of radiative sky cooling to the photovoltaic and thermoelectric system for improved space cooling. <i>Applied Thermal Engineering</i> , 2021, 196, 117230.	3.0	11
136	Tunable thermal management based on solar heating and radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2022, 235, 111457.	3.0	11
137	Sub-ambient daytime radiative cooling based on continuous sunlight blocking. <i>Solar Energy Materials and Solar Cells</i> , 2022, 245, 111854.	3.0	11
138	Experimental study of organic Rankine cycle in the presence of non-condensable gases. <i>Energy</i> , 2018, 142, 739-753.	4.5	10
139	Temperature-dependent performance of amorphous silicon photovoltaic/thermal systems in the long term operation. <i>Applied Energy</i> , 2020, 275, 115156.	5.1	10
140	Analysis and quantification of effects of the diffuse solar irradiance on the daylighting performance of the concentrating photovoltaic/daylighting system. <i>Building and Environment</i> , 2021, 193, 107654.	3.0	10
141	Design and Optical Evaluation of a Novel Asymmetric Lens-Walled Compound Parabolic Concentrator (ALCPC) Integration with Building South Wall. <i>Journal of Daylighting</i> , 2017, 4, 26-36.	0.5	10
142	Extending the operation of a solar air collector to night-time by integrating radiative sky cooling: A comparative experimental study. <i>Energy</i> , 2022, 251, 123986.	4.5	10
143	Effect of gas inlet parameters on exergy transfer performance of sinter cooling process in vertical moving bed. <i>Applied Thermal Engineering</i> , 2019, 152, 126-134.	3.0	9
144	Effect of Phase Change Material Storage on the Dynamic Performance of a Direct Vapor Generation Solar Organic Rankine Cycle System. <i>Energies</i> , 2020, 13, 5904.	1.6	9

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145	Performance analysis on a crystalline silicon photovoltaic cell under non-uniform illumination distribution with a high electrical efficiency. <i>Solar Energy</i> , 2020, 203, 275-283.	2.9	9
146	A novel selective emissivity spectrum for radiative sky cooling. <i>Solar Energy Materials and Solar Cells</i> , 2021, 232, 111380.	3.0	9
147	An innovative hybrid solar preheating intercooled gas turbine using parabolic trough collectors. <i>Renewable Energy</i> , 2021, 179, 1009-1026.	4.3	9
148	The energetic, exergetic, and mechanical comparison of two structurally optimized non-concentrating solar collectors for intermediate temperature applications. <i>Renewable Energy</i> , 2022, 184, 881-898.	4.3	9
149	Performance analysis of an air-source heat pump using an immersed water condenser. <i>Frontiers of Energy and Power Engineering in China</i> , 2010, 4, 234-245.	0.4	8
150	A general optimization strategy for the annual performance enhancement of a solar concentrating system incorporated in the south-facing wall of a building. <i>Indoor and Built Environment</i> , 2020, 29, 1386-1398.	1.5	8
151	Thermal performance evaluation of subcritical organic Rankine cycle for waste heat recovery from sinter annular cooler. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 248-258.	1.4	8
152	Evaluate the validity of the empirical correlations of clearance and friction coefficients to improve a scroll expander semi-empirical model. <i>Energy</i> , 2020, 202, 117723.	4.5	8
153	Effect of phase change materials on the performance of direct vapor generation solar organic Rankine cycle system. <i>Energy</i> , 2021, 223, 120006.	4.5	8
154	A full-spectrum synergetic management strategy for passive cooling of solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2022, 245, 111860.	3.0	8
155	Quantitative analyses and a novel optimization strategy on negative energy-flow region in parabolic trough solar receivers. <i>Solar Energy</i> , 2020, 196, 663-672.	2.9	7
156	A rigid spectral selective cover for integrated solar heating and radiative sky cooling system. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111270.	3.0	7
157	Numerical analysis of a novel household refrigerator with controllable loop thermosyphons. <i>International Journal of Refrigeration</i> , 2019, 104, 134-143.	1.8	6
158	Preliminary evaluation of the energy-saving behavior of a novel household refrigerator. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	0.8	6
159	A spectrally selective surface structure for combined photothermic conversion and radiative sky cooling. <i>Frontiers in Energy</i> , 2020, 14, 882-888.	1.2	6
160	Effect of regenerator on the direct steam generation solar power system characterized by prolonged thermal storage and stable power conversion. <i>Renewable Energy</i> , 2020, 159, 1099-1116.	4.3	6
161	Overall outdoor experiments on daylighting performance of a self-regulating photovoltaic/daylighting system in different seasons. <i>Applied Energy</i> , 2021, 286, 116548.	5.1	6
162	Experimental study of a novel cool-storage refrigerator with controllable two-phase loop thermosyphon. <i>International Journal of Refrigeration</i> , 2021, 129, 32-42.	1.8	6

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163	Performance evaluation for the dielectric asymmetric compound parabolic concentrator with almost unity angular acceptance efficiency. <i>Energy</i> , 2021, 233, 121065.	4.5	6
164	Preliminary characterization of a dual-source passive building cooling system based on loop thermosyphon. <i>Energy and Buildings</i> , 2022, 262, 111981.	3.1	6
165	An innovative concentrated solar power system driven by high-temperature cascade organic Rankine cycle. <i>Journal of Energy Storage</i> , 2022, 52, 104999.	3.9	6
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