

Xudong Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

217
papers

6,097
citations

43
h-index

69
g-index

235
ext. papers

7,600
ext. citations

6.8
avg, IF

6.45
L-index

#	Paper	IF	Citations
217	Experimental investigation and annual performance mathematical-prediction on a novel LT-PV/T system using spiral-descent concentric copper tube heat exchanger as the condenser for large-scale application. <i>Renewable Energy</i> , 2022 , 187, 257-270	8.1	1
216	Simulation analysis and experimental validation of enhanced photovoltaic thermal module by harnessing heat. <i>Applied Energy</i> , 2022 , 309, 118479	10.7	0
215	Study on the performance of a novel photovoltaic/thermal system combining photocatalytic and organic photovoltaic cells. <i>Energy Conversion and Management</i> , 2022 , 251, 114967	10.6	2
214	Investigation of a novel separately-configured micro-thermoelectric cooler to enabling extend application scope. <i>Applied Energy</i> , 2022 , 306, 117941	10.7	2
213	Combined Rankine Cycle and dew point cooler for energy efficient power generation of the power plants - A review and perspective study. <i>Energy</i> , 2022 , 238, 121688	7.9	1
212	A proof-of-concept study of a novel ventilation heat recovery vapour injection air source heat pump. <i>Energy Conversion and Management</i> , 2022 , 256, 115404	10.6	2
211	Experimental investigation of a novel vertical loop-heat-pipe PV/T heat and power system under different height differences. <i>Energy</i> , 2022 , 124193	7.9	0
210	Research on heat transfer mechanism and performance of a novel adaptive enclosure structure based on micro-channel heat pipe. <i>Energy</i> , 2022 , 124237	7.9	
209	Experimental and numerical investigation of wicking and evaporation performance of fibrous materials for evaporative cooling. <i>Energy and Buildings</i> , 2021 , 255, 111675	7	2
208	Overall outdoor experiments on daylighting performance of a self-regulating photovoltaic/daylighting system in different seasons. <i>Applied Energy</i> , 2021 , 286, 116548	10.7	4
207	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	6.5	4
206	Comparative investigation of concentrated photovoltaic thermal-thermoelectric with nanofluid cooling. <i>Energy Conversion and Management</i> , 2021 , 235, 113968	10.6	14
205	Review of Hygroscopic Coating on Aluminum Fin Surface of Air Conditioning Heat Exchanger. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5193	2.6	0
204	Effect of air gap on a novel hybrid photovoltaic/thermal and thermally regenerative electrochemical cycle system. <i>Applied Energy</i> , 2021 , 293, 116963	10.7	4
203	Hourly performance forecast of a dew point cooler using explainable Artificial Intelligence and evolutionary optimisations by 2050. <i>Applied Energy</i> , 2021 , 281, 116062	10.7	13
202	Performance investigation of a micro-channel flat separated loop heat pipe system for data centre cooling. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 98-113	2.8	0
201	Numerical and experimental investigations of the micro-channel flat loop heat pipe (MCFLHP) heat recovery system for data centre cooling and heat recovery. <i>Journal of Building Engineering</i> , 2021 , 35, 102088	5.2	6

200	Numerical Analysis of a Segmented Annular Thermoelectric Generator 2021 , 449-454		0
199	Advanced big-data/machine-learning techniques for optimization and performance enhancement of the heat pipe technology [A review and prospective study. <i>Applied Energy</i> , 2021 , 294, 116969	10.7	5
198	Scientific and technological progress and future perspectives of the solar assisted heat pump (SAHP) system. <i>Energy</i> , 2021 , 229, 120719	7.9	11
197	Mathematical and experimental evaluation of a mini-channel PV/T and thermal panel in summer mode. <i>Solar Energy</i> , 2021 , 224, 401-410	6.8	5
196	Performance evaluation for the dielectric asymmetric compound parabolic concentrator with almost unity angular acceptance efficiency. <i>Energy</i> , 2021 , 233, 121065	7.9	2
195	Performance analysis of a novel hybrid electrical generation system using photovoltaic/thermal and thermally regenerative electrochemical cycle. <i>Energy</i> , 2021 , 232, 120998	7.9	2
194	Electrical and thermal performance comparison between PVT-ST and PV-ST systems. <i>Energy</i> , 2021 , 237, 121589	7.9	5
193	Analysis of thermoelectric geometry in a concentrated photovoltaic-thermoelectric under varying weather conditions. <i>Energy</i> , 2020 , 202, 117742	7.9	21
192	Experimental and numerical investigation of a novel photovoltaic/thermal system using micro-channel flat loop heat pipe (PV/T-MCFLHP). <i>International Journal of Low-Carbon Technologies</i> , 2020 , 15, 513-527	2.8	4
191	Operating performance of a solar/air-dual source heat pump system under various refrigerant flow rates and distributions. <i>Applied Thermal Engineering</i> , 2020 , 178, 115631	5.8	13
190	Solar energy integration in buildings. <i>Applied Energy</i> , 2020 , 264, 114740	10.7	10
189	Electrical and mechanical analysis of a segmented solar thermoelectric generator under non-uniform heat flux. <i>Energy</i> , 2020 , 199, 117433	7.9	26
188	Transient and non-uniform heat flux effect on solar thermoelectric generator with phase change material. <i>Applied Thermal Engineering</i> , 2020 , 173, 115206	5.8	27
187	Economic and environmental analysis of a novel rural house heating and cooling system using a solar-assisted vapour injection heat pump. <i>Applied Energy</i> , 2020 , 275, 115323	10.7	10
186	Comprehensive study and optimization of concentrated photovoltaic-thermoelectric considering all contact resistances. <i>Energy Conversion and Management</i> , 2020 , 205, 112422	10.6	37
185	Experimental study and exergy analysis of photovoltaic-thermoelectric with flat plate micro-channel heat pipe. <i>Energy Conversion and Management</i> , 2020 , 207, 112515	10.6	51
184	Optimization and performance analysis of a solar concentrated photovoltaic-thermoelectric (CPV-TE) hybrid system. <i>Renewable Energy</i> , 2020 , 152, 1342-1353	8.1	35
183	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	6.8	3

182	Can whole building energy models outperform numerical models, when forecasting performance of indirect evaporative cooling systems?. <i>Energy Conversion and Management</i> , 2020 , 213, 112886	10.6	10
181	A constraint multi-objective evolutionary optimization of a state-of-the-art dew point cooler using digital twins. <i>Energy Conversion and Management</i> , 2020 , 211, 112772	10.6	16
180	Small scale optimization in crystalline silicon solar cell on efficiency enhancement of low-concentrating photovoltaic cell. <i>Solar Energy</i> , 2020 , 202, 316-325	6.8	12
179	Review of thermoelectric geometry and structure optimization for performance enhancement. <i>Applied Energy</i> , 2020 , 268, 115075	10.7	45
178	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	11.8	4
177	Experimental and analytic study of a hybrid solar/biomass rural heating system. <i>Energy</i> , 2020 , 190, 116392	9.2	7
176	Experimental and numerical investigations on the performance of a G-PV/T system comparing with A-PV/T system. <i>Energy</i> , 2020 , 194, 116776	7.9	17
175	Operational performance of a novel fast-responsive heat storage/exchanging unit (HSEU) for solar heating systems. <i>Renewable Energy</i> , 2020 , 151, 137-151	8.1	1
174	Theoretical and experimental study of a novel solar indirect-expansion heat pump system employing mini channel PV/T and thermal panels. <i>Renewable Energy</i> , 2020 , 151, 674-686	8.1	12
173	Effect of grid and optimization on improving the electrical performance of compound parabolic concentrator photovoltaic cells. <i>Solar Energy</i> , 2020 , 196, 607-615	6.8	6
172	Scale effect on electrical characteristics of CPC-PV. <i>Energy</i> , 2020 , 192, 116726	7.9	6
171	Application based multi-objective performance optimization of a proton exchange membrane fuel cell. <i>Journal of Cleaner Production</i> , 2020 , 252, 119567	10.3	45
170	Thermal performance analysis of a solar energy storage unit encapsulated with HITEC salt/copper foam/nanoparticles composite. <i>Energy</i> , 2020 , 192, 116593	7.9	17
169	Design and analysis of a novel dual source vapor injection heat pump using exhaust and ambient air. <i>Energy and Built Environment</i> , 2020 , 3, 95-95	6.3	4
168	Micro-Channel Heat Sink: A Review. <i>Journal of Thermal Science</i> , 2020 , 29, 1431-1462	1.9	13
167	A chronological review of advances in solar assisted heat pump technology in 21st century. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 132, 110132	16.2	23
166	Operational performance of a novel heat pump coupled with mini-channel PV/T and thermal panel in low solar radiation. <i>Energy and Built Environment</i> , 2020 , 1, 50-59	6.3	31
165	Experimental analysis of heat coupling during TES based reverse cycle defrosting method for cascade air source heat pumps. <i>Renewable Energy</i> , 2020 , 147, 35-42	8.1	12

164	Assessment of the cost reduction potential of a novel loop-heat-pipe solar photovoltaic/thermal system by employing the distributed parameter model. <i>Energy</i> , 2020 , 190, 116338	7.9	19
163	Numerical simulation and experimental validation of a micro-channel PV/T modules based direct-expansion solar heat pump system. <i>Renewable Energy</i> , 2020 , 145, 1992-2004	8.1	39
162	Improved outdoor thermography and processing of infrared images for defect detection in PV modules. <i>Solar Energy</i> , 2019 , 190, 549-560	6.8	31
161	Prediction of Outdoor Human Thermal Sensation at the Pedestrian Level in High-rise Residential Areas in Severe Cold Regions of China. <i>Energy Procedia</i> , 2019 , 157, 51-58	2.3	5
160	Feasibility analysis for a novel dew point air cooler applied in warm and humid climate: a case study in Beijing. <i>Energy Procedia</i> , 2019 , 158, 2126-2131	2.3	5
159	Design, optimization and performance analysis of an asymmetric concentrator-PV type window for the building south wall application. <i>Solar Energy</i> , 2019 , 193, 422-433	6.8	13
158	Optimization of the counter-flow heat and mass exchanger for M-Cycle indirect evaporative cooling assisted with entropy analysis. <i>Energy</i> , 2019 , 171, 1206-1216	7.9	24
157	High performance and thermal stress analysis of a segmented annular thermoelectric generator. <i>Energy Conversion and Management</i> , 2019 , 184, 180-193	10.6	71
156	Daylighting characteristics and experimental validation of a novel concentrating photovoltaic/daylighting system. <i>Solar Energy</i> , 2019 , 186, 264-276	6.8	9
155	Feasibility of an innovative amorphous silicon photovoltaic/thermal system for medium temperature applications. <i>Applied Energy</i> , 2019 , 252, 113427	10.7	13
154	A statistical model for dew point air cooler based on the multiple polynomial regression approach. <i>Energy</i> , 2019 , 181, 868-881	7.9	20
153	Experimental and numerical investigation of a high-efficiency dew-point evaporative cooler. <i>Energy and Buildings</i> , 2019 , 197, 120-130	7	29
152	Simulation and experiment on thermal performance of a micro-channel heat pipe under different evaporator temperatures and tilt angles. <i>Energy</i> , 2019 , 179, 549-557	7.9	32
151	Comparative study of a concentrated photovoltaic-thermoelectric system with and without flat plate heat pipe. <i>Energy Conversion and Management</i> , 2019 , 193, 1-14	10.6	61
150	Optimized high performance thermoelectric generator with combined segmented and asymmetrical legs under pulsed heat input power. <i>Journal of Power Sources</i> , 2019 , 428, 53-66	8.9	45
149	Advancements in thermoelectric generators for enhanced hybrid photovoltaic system performance. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 109, 24-54	16.2	68
148	The design, construction and experimental characterization of a novel concentrating photovoltaic/daylighting window for green building roof. <i>Energy</i> , 2019 , 175, 1138-1152	7.9	14
147	The performance analysis of a novel hybrid solar gradient utilization photocatalytic-thermal-catalytic-Trombe wall system. <i>Energy</i> , 2019 , 174, 420-435	7.9	13

146	The energy and exergy analysis of counter-flow regenerative evaporative cooler. <i>Thermal Science</i> , 2019 , 23, 3615-3626	1.2	1
145	Series of detail comparison and optimization of thermoelectric element geometry considering the PV effect. <i>Renewable Energy</i> , 2019 , 130, 930-942	8.1	33
144	Solar Systems for Urban Building Applications Heating, Cooling, Hot Water, and Power Supply. <i>Green Energy and Technology</i> , 2019 , 373-416	0.6	1
143	Solar Heating, Cooling, and Power Generation Projects Case Studies. <i>Green Energy and Technology</i> , 2019 , 487-539	0.6	
142	Solar Systems Economic and Environmental Performance Assessment. <i>Green Energy and Technology</i> , 2019 , 453-486	0.6	
141	PCM and PCM Slurries and Their Application in Solar Systems. <i>Green Energy and Technology</i> , 2019 , 101-146	0.6	1
140	Overall detail comparison for a building integrated concentrating photovoltaic/daylighting system. <i>Energy and Buildings</i> , 2019 , 199, 415-426	7	17
139	Heat Pipe and Loop Heat Pipe Technologies and Their Applications in Solar Systems. <i>Green Energy and Technology</i> , 2019 , 79-100	0.6	0
138	Solar Desiccant (Absorption/Adsorption) Cooling/Dehumidification Technologies. <i>Green Energy and Technology</i> , 2019 , 211-286	0.6	1
137	Solar Thermoelectric Technologies for Power Generation. <i>Green Energy and Technology</i> , 2019 , 341-371	0.6	2
136	Solar System Design and Energy Performance Assessment Approaches. <i>Green Energy and Technology</i> , 2019 , 417-451	0.6	
135	Heat Pump Technologies and Their Applications in Solar Systems. <i>Green Energy and Technology</i> , 2019 , 311-339	0.6	0
134	Investigation on the Solar Absorption Property of the Nanoporous Alumina Sheet for Solar Application. <i>Materials</i> , 2019 , 12,	3.5	1
133	CNN based automatic detection of photovoltaic cell defects in electroluminescence images. <i>Energy</i> , 2019 , 189, 116319	7.9	57
132	Investigation of the interface effects and condensation properties of the micro/nanoporous aluminum plates. <i>Sustainable Cities and Society</i> , 2019 , 51, 101739	10.1	
131	Experimental Investigation of a Novel Solar Micro-Channel Loop-Heat-Pipe Photovoltaic/Thermal (MC-LHP-PV/T) System for Heat and Power Generation. <i>Applied Energy</i> , 2019 , 256, 113929	10.7	29
130	Statistical investigation of a dehumidification system performance using Gaussian process regression. <i>Energy and Buildings</i> , 2019 , 202, 109406	7	9
129	Preliminary experiment on a novel photovoltaic-thermoelectric system in summer. <i>Energy</i> , 2019 , 188, 116041	7.9	38

128	Building Integrated Thermoelectric Air Conditioners: A Potentially Fully Environmentally Friendly Solution in Building Services. <i>Future Cities and Environment</i> , 2019 , 5,	1.3	7
127	Modular Solar System for Building Integration. <i>Green Energy and Technology</i> , 2019 , 143-163	0.6	
126	Micro (Mini)-Channels and Their Applications in Solar Systems. <i>Green Energy and Technology</i> , 2019 , 165-200		
125	Investigation of Heat Management in High Thermal Density Communication Cabinet by a Rear Door Liquid Cooling System. <i>Energies</i> , 2019 , 12, 4385	3.1	0
124	Energy performance analysis of a novel solar PVT loop heat pipe employing a microchannel heat pipe evaporator and a PCM triple heat exchanger. <i>Energy</i> , 2019 , 167, 866-888	7.9	64
123	Analytical and experimental study of an innovative multiple-throughout-flowing micro-channel-panels-array for a solar-powered rural house space heating system. <i>Energy</i> , 2019 , 171, 566-580	7.9	6
122	Comparative analysis of thermoelectric elements optimum geometry between photovoltaic-thermoelectric and solar thermoelectric. <i>Energy</i> , 2019 , 171, 599-610	7.9	48
121	Performance comparison of encapsulated PCM PV/T, microchannel heat pipe PV/T and conventional PV/T systems. <i>Energy</i> , 2019 , 166, 1249-1266	7.9	47
120	Dynamic simulation of a hybrid dew point evaporative cooler and vapour compression refrigerated system for a building using EnergyPlus. <i>Journal of Building Engineering</i> , 2019 , 21, 287-301	5.2	29
119	A study on thermal characteristic and sleeping comfort of a hybrid solar heating system applied in cold rural areas. <i>Energy and Buildings</i> , 2019 , 182, 242-250	7	16
118	Experimental study and performance prediction of the PCM-antifreeze solar thermal system under cold weather conditions. <i>Applied Thermal Engineering</i> , 2019 , 146, 526-539	5.8	11
117	Two-dimensional numerical study of a heat and mass exchanger for a dew-point evaporative cooler. <i>Energy</i> , 2019 , 168, 975-988	7.9	21
116	Thermo-mechanical behavior assessment of smart wire connected and busbar PV modules during production, transportation, and subsequent field loading stages. <i>Energy</i> , 2019 , 168, 931-945	7.9	19
115	Study on the PCM flat-plate solar collector system with antifreeze characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 129, 357-366	4.9	38
114	Comparison study of the performance of two kinds of photovoltaic/thermal(PV/T) systems and a PV module at high ambient temperature. <i>Energy</i> , 2018 , 148, 1153-1161	7.9	51
113	Numerical study of a regenerative counter flow evaporative cooler using alumina nanoparticles in wet channel. <i>Energy and Buildings</i> , 2018 , 169, 430-443	7	25
112	Numerical investigation of a solar/waste energy driven sorption/desorption cycle employing a novel adsorbent bed. <i>Energy</i> , 2018 , 149, 84-97	7.9	2
111	Inconsistent phenomenon of thermoelectric load resistance for photovoltaic-thermoelectric module. <i>Energy Conversion and Management</i> , 2018 , 161, 155-161	10.6	40

110	Experimental investigation of the novel BIPV/T system employing micro-channel flat-plate heat pipes. <i>Building Services Engineering Research and Technology</i> , 2018 , 39, 540-556	2.3	3
109	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Optimization of pre-cooling with intermittent mode. <i>Sustainable Cities and Society</i> , 2018 , 38, 370-381	10.1	12
108	Optimal study of the rural house space heating systems employing the AHP and FCE methods. <i>Energy</i> , 2018 , 150, 631-641	7.9	15
107	The integration of solid-solid phase change material with micro-channel flat plate heat pipe-based BIPV/T. <i>Building Services Engineering Research and Technology</i> , 2018 , 39, 712-732	2.3	4
106	A novel concentrating photovoltaic/daylighting control system: Optical simulation and preliminary experimental analysis. <i>Applied Energy</i> , 2018 , 228, 1362-1372	10.7	26
105	Energy savings of hybrid dew-point evaporative cooler and micro-channel separated heat pipe cooling systems for computer data centers. <i>Energy</i> , 2018 , 163, 629-640	7.9	30
104	A review of solar photovoltaic-thermoelectric hybrid system for electricity generation. <i>Energy</i> , 2018 , 158, 41-58	7.9	120
103	Cases of Energy System in a Green Building in UK 2018 , 1741-1794		
102	Experimental investigation on performance comparison of PV/T-PCM system and PV/T system. <i>Renewable Energy</i> , 2018 , 119, 152-159	8.1	119
101	Frosting Performance of a Nanoporous Hydrophilic Aluminum Surface. <i>Energies</i> , 2018 , 11, 3483	3.1	5
100	Physical instability suppression of microencapsulated phase change material(MPCM) suspensions. <i>Journal of Thermal Science and Technology</i> , 2018 , 13, JTST0033-JTST0033	0.6	2
99	Study on Dehumidification Performance of a Multi-Stage Internal Cooling Solid Desiccant Adsorption Packed Bed. <i>Energies</i> , 2018 , 11, 3038	3.1	2
98	Fabrication and Frosting Properties Study of Surface-Active Agents Coating Based on Nanoporous Aluminum Substrate. <i>Energies</i> , 2018 , 11, 2797	3.1	2
97	Thermal Performance Enhancement of a Cross-Flow-Type Maisotsenko Heat and Mass Exchanger Using Various Nanofluids. <i>Energies</i> , 2018 , 11, 2656	3.1	18
96	Analytical Investigation of the Heat-Transfer Limits of a Novel Solar Loop-Heat Pipe Employing a Mini-Channel Evaporator. <i>Energies</i> , 2018 , 11, 148	3.1	8
95	Investigation on the daylight and overall energy performance of semi-transparent photovoltaic facades in cold climatic regions of China. <i>Applied Energy</i> , 2018 , 232, 517-526	10.7	24
94	Numerical simulation and experimental validation of the solar photovoltaic/thermal system with phase change material. <i>Applied Energy</i> , 2018 , 232, 715-727	10.7	58
93	Solar Water Heaters 2018 , 111-125		1

92	Performance Analysis and Discussion on the Thermoelectric Element Footprint for PVTE Maximum Power Generation. <i>Journal of Electronic Materials</i> , 2018 , 47, 5344-5351	1.9	21
91	Analytical study of impact of the wick's fractal parameters on the heat transfer capacity of a novel micro-channel loop heat pipe. <i>Energy</i> , 2018 , 158, 746-759	7.9	24
90	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Temperature control using phase-change chair. <i>Sustainable Cities and Society</i> , 2018 , 42, 38-51	10.1	8
89	Micro-encapsulated phase change material (MPCM) slurries: Characterization and building applications. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 246-262	16.2	57
88	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Sensitivity analysis and optimization. <i>Chemical Engineering Research and Design</i> , 2017 , 107, 438-453	5.5	20
87	Energy saving potential of a counter-flow regenerative evaporative cooler for various climates of China: Experiment-based evaluation. <i>Energy and Buildings</i> , 2017 , 148, 199-210	7	47
86	Performance Study of a Novel Solar Solid Dehumidification/Regeneration Bed for Use in Buildings Air Conditioning Systems. <i>Energies</i> , 2017 , 10, 1335	3.1	4
85	Design, fabrication and performance evaluation of a compact regenerative evaporative cooler: Towards low energy cooling for buildings. <i>Energy</i> , 2017 , 140, 506-519	7.9	25
84	Numerical investigation of the energy performance of an Opaque Ventilated Façade system employing a smart modular heat recovery unit and a latent heat thermal energy system. <i>Applied Energy</i> , 2017 , 205, 130-152	10.7	24
83	Clear-days operational performance of a hybrid experimental space heating system employing the novel mini-channel solar thermal & PV/T panels and a heat pump. <i>Solar Energy</i> , 2017 , 155, 464-477	6.8	41
82	Experimental investigation of a super performance dew point air cooler. <i>Applied Energy</i> , 2017 , 203, 761-767	6.9	69
81	Development of a Smart Modular Heat Recovery Unit Adaptable into a Ventilated Façade. <i>Procedia Environmental Sciences</i> , 2017 , 38, 94-101		2
80	Investigation of the Energy Performance of a Novel Modular Solar Building Envelope. <i>Energies</i> , 2017 , 10, 880	3.1	3
79	Performance Investigation of the Novel Solar-Powered Dehumidification Window for Residential Buildings. <i>Energies</i> , 2017 , 10, 1369	3.1	4
78	Investigation on the Energy Saving Potential of Using a Novel Dew Point Cooling System in Data Centres. <i>Energies</i> , 2017 , 10, 1732	3.1	5
77	Cases of Energy System in a Green Building in UK 2017 , 1-55		
76	Experimental investigation of the performance of the novel HP-BIPV/T system for use in residential buildings. <i>Energy and Buildings</i> , 2016 , 130, 295-308	7	16
75	Experimental investigation on performance of fabrics for indirect evaporative cooling applications. <i>Building and Environment</i> , 2016 , 110, 104-114	6.5	58

74	Cold storage condensation heat recovery system with a novel composite phase change material. <i>Applied Energy</i> , 2016 , 175, 259-268	10.7	40
73	Experimental investigation of a solar driven direct-expansion heat pump system employing the novel PV/micro-channels-evaporator modules. <i>Applied Energy</i> , 2016 , 178, 484-495	10.7	93
72	Experimental investigation of the energy performance of a novel Micro-encapsulated Phase Change Material (MPCM) slurry based PV/T system. <i>Applied Energy</i> , 2016 , 165, 260-271	10.7	77
71	Experimental investigation of the thermal and electrical performance of the heat pipe BIPV/T system with metal wires. <i>Applied Energy</i> , 2016 , 170, 314-323	10.7	25
70	Comparative Investigation of Solar Photovoltaic (PV) and Photovoltaic/Thermal (PV/T) Systems by both Laboratory and Field Experiments 2016 , 673-682		
69	Solar PV/Thermal Research. <i>International Journal of Photoenergy</i> , 2016 , 2016, 1-1	2.1	
68	Experimental study of a counter-flow regenerative evaporative cooler. <i>Building and Environment</i> , 2016 , 104, 47-58	6.5	90
67	Conceptual development of a novel photovoltaic-thermoelectric system and preliminary economic analysis. <i>Energy Conversion and Management</i> , 2016 , 126, 935-943	10.6	77
66	Numerical investigation of the energy performance of a guideless irregular heat and mass exchanger with corrugated heat transfer surface for dew point cooling. <i>Energy</i> , 2016 , 109, 803-817	7.9	39
65	A new application of high-efficient silver salts-based photocatalyst under natural indoor weak light for wastewater cleaning. <i>Water Research</i> , 2015 , 81, 366-74	12.5	33
64	Operational performance of a novel heat pump assisted solar faade loop-heat-pipe water heating system. <i>Applied Energy</i> , 2015 , 146, 371-382	10.7	52
63	Design, Fabrication and Experimental Study of a Novel Loop-heat-pipe Based Solar Thermal Facade Water Heating System. <i>Energy Procedia</i> , 2015 , 75, 566-571	2.3	5
62	Applications of solar water heating system with phase change material. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 645-652	16.2	81
61	The early design stage for building renovation with a novel loop-heat-pipe based solar thermal facade (LHP-STF) heat pump water heating system: Techno-economic analysis in three European climates. <i>Energy Conversion and Management</i> , 2015 , 106, 964-986	10.6	20
60	Comparative study of a novel liquid vapour separator incorporated gravitational loop heat pipe against the conventional gravitational straight and loop heat pipes [Part I: Conceptual development and theoretical analyses. <i>Energy Conversion and Management</i> , 2015 , 90, 409-426	10.6	11
59	Experimental investigation of the thermal isolation and evaporative cooling effects of an exposed shallow-water-reserved roof under the sub-tropical climatic condition. <i>Sustainable Cities and Society</i> , 2015 , 14, 293-304	10.1	10
58	Solar water heating: From theory, application, marketing and research. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 41, 68-84	16.2	102
57	Active Solar Thermal Facades (ASTFs): From concept, application to research questions. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 50, 32-63	16.2	45

56	Theoretical investigation of the energy performance of a novel MPCM (Microencapsulated Phase Change Material) slurry based PV/T module. <i>Energy</i> , 2015 , 87, 686-698	7.9	69
55	Case Study of Smart Meter and In-home Display for Residential Behavior Change in Shanghai, China. <i>Energy Procedia</i> , 2015 , 75, 2694-2699	2.3	15
54	Comparative study of the thermal performance of the novel green (planting) roofs against other existing roofs. <i>Sustainable Cities and Society</i> , 2015 , 16, 1-12	10.1	32
53	Parallel experimental study of a novel super-thin thermal absorber based photovoltaic/thermal (PV/T) system against conventional photovoltaic (PV) system. <i>Energy Reports</i> , 2015 , 1, 30-35	4.6	28
52	Recent development and application of thermoelectric generator and cooler. <i>Applied Energy</i> , 2015 , 143, 1-25	10.7	431
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