

Yanping Yuan

List of Publications by Year in descending order

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195
papers

7,542
citations

46984

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times ranked

4784
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatty acids as phase change materials: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 29, 482-498.	8.2	549
2	Latent Heat Thermal Energy Storage Systems with Solidâ€“Liquid Phase Change Materials: A Review. <i>Advanced Engineering Materials</i> , 2018, 20, 1700753.	1.6	297
3	A high-efficiency energy regenerative shock absorber using supercapacitors for renewable energy applications in range extended electric vehicle. <i>Applied Energy</i> , 2016, 178, 177-188.	5.1	193
4	Experimental investigation on performance comparison of PV/T-PCM system and PV/T system. <i>Renewable Energy</i> , 2018, 119, 152-159.	4.3	181
5	Preparation and properties of myristicâ€“palmiticâ€“stearic acid/expanded graphite composites as phase change materials for energy storage. <i>Solar Energy</i> , 2014, 99, 259-266.	2.9	170
6	A portable high-efficiency electromagnetic energy harvesting system using supercapacitors for renewable energy applications in railroads. <i>Energy Conversion and Management</i> , 2016, 118, 287-294.	4.4	161
7	Effect of installation angle of fins on melting characteristics of annular unit for latent heat thermal energy storage. <i>Solar Energy</i> , 2016, 136, 365-378.	2.9	155
8	Preparation and characterization of lauricâ€“myristicâ€“palmitic acid ternary eutectic mixtures/expanded graphite composite phase change material for thermal energy storage. <i>Chemical Engineering Journal</i> , 2013, 231, 214-219.	6.6	152
9	Experimental studies on the supercooling and melting/freezing characteristics of nano-copper/sodium acetate trihydrate composite phase change materials. <i>Renewable Energy</i> , 2016, 99, 1029-1037.	4.3	149
10	Lauricâ€“palmiticâ€“stearic acid/expanded perlite composite as form-stable phase change material: Preparation and thermal properties. <i>Energy and Buildings</i> , 2014, 82, 505-511.	3.1	123
11	A renewable low-frequency acoustic energy harvesting noise barrier for high-speed railways using a Helmholtz resonator and a PVDF film. <i>Applied Energy</i> , 2018, 230, 52-61.	5.1	123
12	Effect of carbon nanotubes on the thermal behavior of palmiticâ€“stearic acid eutectic mixtures as phase change materials for energy storage. <i>Solar Energy</i> , 2014, 110, 64-70.	2.9	117
13	A hierarchical interdigitated flow field design for scale-up of high-performance redox flow batteries. <i>Applied Energy</i> , 2019, 238, 435-441.	5.1	113
14	Effect of natural convection on melting performance of eccentric horizontal shell and tube latent heat storage unit. <i>Sustainable Cities and Society</i> , 2018, 38, 571-581.	5.1	108
15	Preparation and properties of palmitic-stearic acid eutectic mixture/expanded graphite composite as phase change material for energy storage. <i>Energy</i> , 2014, 78, 950-956.	4.5	105
16	Thermal performance enhancement of palmitic-stearic acid by adding graphene nanoplatelets and expanded graphite for thermal energy storage: A comparative study. <i>Energy</i> , 2016, 97, 488-497.	4.5	101
17	Techno-economic analysis of a solar photovoltaic/thermal (PV/T) concentrator for building application in Sweden using Monte Carlo method. <i>Energy Conversion and Management</i> , 2018, 165, 8-24.	4.4	100
18	A portable renewable wind energy harvesting system integrated S-rotor and H-rotor for self-powered applications in high-speed railway tunnels. <i>Energy Conversion and Management</i> , 2019, 196, 56-68.	4.4	100

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19	A novel PCM of lauricâ€“myristicâ€“stearic acid/expanded graphite composite for thermal energy storage. <i>Materials Letters</i> , 2014, 120, 43-46.	1.3	97
20	Numerical investigation on optimal number of longitudinal fins in horizontal annular phase change unit at different wall temperatures. <i>Energy and Buildings</i> , 2018, 158, 384-392.	3.1	93
21	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Method and model development. <i>Energy</i> , 2017, 119, 817-833.	4.5	88
22	Ground source heat pump system: A review of simulation in China. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 6814-6822.	8.2	87
23	A renewable energy harvesting system using a mechanical vibration rectifier (MVR) for railroads. <i>Applied Energy</i> , 2017, 204, 1535-1543.	5.1	80
24	Aerodynamics of railway train/tunnel system: A review of recent research. <i>Energy and Built Environment</i> , 2020, 1, 351-375.	2.9	76
25	Non-steady experimental investigation on an integrated thermal management system for power battery with phase change materials. <i>Energy Conversion and Management</i> , 2017, 138, 84-96.	4.4	73
26	Numerical analysis of aerodynamic characteristics of high-speed train with different train nose lengths. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 188-199.	2.5	73
27	Investigation on thermal properties of capricâ€“palmiticâ€“stearic acid/activated carbon composite phase change materials for high-temperature cooling application. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 881-888.	2.0	72
28	Opportunities and challenges of PCM-to-air heat exchangers (PAHXs) for building free cooling applicationsâ€“A comprehensive review. <i>Journal of Energy Storage</i> , 2019, 22, 157-175.	3.9	72
29	A high-efficiency energy regenerative shock absorber using helical gears for powering low-wattage electrical device of electric vehicles. <i>Energy</i> , 2018, 159, 361-372.	4.5	71
30	Computer modelling and experimental investigation of phase change hysteresis of PCMs: The state-of-the-art review. <i>Applied Energy</i> , 2020, 263, 114572.	5.1	69
31	Design, modelling and practical tests on a high-voltage kinetic energy harvesting (EH) system for a renewable road tunnel based on linear alternators. <i>Applied Energy</i> , 2016, 164, 152-161.	5.1	67
32	Inorganic composite sorbents for water vapor sorption: A research progress. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 761-776.	8.2	67
33	A high-efficiency regenerative shock absorber considering twin ball screws transmissions for application in range-extended electric vehicles. <i>Energy and Built Environment</i> , 2020, 1, 36-49.	2.9	67
34	Flexible phase change materials for thermal storage and temperature control. <i>Chemical Engineering Journal</i> , 2018, 353, 920-929.	6.6	66
35	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.	4.3	65
36	Preparation and thermal characterization of capricâ€“myristicâ€“palmitic acid/expanded graphite composite as phase change material for energy storage. <i>Materials Letters</i> , 2014, 125, 154-157.	1.3	64

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37	Bionic building energy efficiency and bionic green architecture: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 771-787.	8.2	64
38	Effect of train length on fluctuating aerodynamic pressure wave in tunnels and method for determining the amplitude of pressure wave on trains. <i>Tunnelling and Underground Space Technology</i> , 2018, 80, 277-289.	3.0	60
39	A portable renewable solar energy-powered cooling system based on wireless power transfer for a vehicle cabin. <i>Applied Energy</i> , 2017, 195, 334-343.	5.1	59
40	A novel oscillating buoy wave energy harvester based on a spatial double X-shaped mechanism for self-powered sensors in sea-crossing bridges. <i>Energy Conversion and Management</i> , 2020, 204, 112286.	4.4	58
41	A novel form-stable phase change composite with excellent thermal and electrical conductivities. <i>Chemical Engineering Journal</i> , 2018, 336, 342-351.	6.6	56
42	Experimental and numerical investigation on dodecane/expanded graphite shape-stabilized phase change material for cold energy storage. <i>Energy</i> , 2019, 189, 116175.	4.5	56
43	Synthesis and thermal properties of nanoencapsulation of paraffin as phase change material for latent heat thermal energy storage. <i>Energy and Built Environment</i> , 2020, 1, 410-416.	2.9	56
44	Human responses to high air temperature, relative humidity and carbon dioxide concentration in underground refuge chamber. <i>Building and Environment</i> , 2018, 131, 53-62.	3.0	52
45	Numerical study on the impact of Mach number on the coupling effect of aerodynamic heating and aerodynamic pressure caused by a tube train. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 190, 100-111.	1.7	52
46	Optimal parameters of green roofs in representative cities of four climate zones in China: A simulation study. <i>Energy and Buildings</i> , 2017, 150, 118-131.	3.1	48
47	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.	2.9	48
48	Cold storage condensation heat recovery system with a novel composite phase change material. <i>Applied Energy</i> , 2016, 175, 259-268.	5.1	47
49	A comprehensive review on laminar spherically premixed flame propagation of syngas. <i>Fuel Processing Technology</i> , 2018, 181, 97-114.	3.7	47
50	A high-efficiency multidirectional wind energy harvester based on impact effect for self-powered wireless sensors in the grid. <i>Smart Materials and Structures</i> , 2019, 28, 115022.	1.8	46
51	Micro-Channel Heat Sink: A Review. <i>Journal of Thermal Science</i> , 2020, 29, 1431-1462.	0.9	46
52	Balsa-based porous carbon composite phase change material with photo-thermal conversion performance for thermal energy storage. <i>Solar Energy</i> , 2021, 230, 269-277.	2.9	46
53	A high-efficiency road energy harvester based on a chessboard sliding plate using semi-metal friction materials for self-powered applications in road traffic. <i>Energy Conversion and Management</i> , 2018, 165, 748-760.	4.4	45
54	Techno-economic performances of clean heating solutions to replace raw coal for heating in Northern rural China. <i>Energy and Buildings</i> , 2021, 240, 110881.	3.1	45

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55	Restoration performance of vertical ground heat exchanger with various intermittent ratios. <i>Geothermics</i> , 2015, 54, 115-121.	1.5	44
56	Functional phase change composites with highly efficient electrical to thermal energy conversion. <i>Renewable Energy</i> , 2020, 145, 2629-2636.	4.3	42
57	A novel hybrid energy system combined with solar-road and soil-regenerator: Dynamic model and operational performance. <i>Energy Conversion and Management</i> , 2018, 156, 376-387.	4.4	41
58	Thermal interaction of multiple ground heat exchangers under different intermittent ratio and separation distance. <i>Applied Thermal Engineering</i> , 2016, 108, 277-286.	3.0	40
59	Improvement of supercooling and thermal conductivity of the sodium acetate trihydrate for thermal energy storage with $\text{Li-Fe}_2\text{O}_3$ as additive. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 859-867.	2.0	40
60	A portable solar-powered air-cooling system based on phase-change materials for a vehicle cabin. <i>Energy Conversion and Management</i> , 2017, 150, 148-158.	4.4	39
61	Experimental investigation on Influencing Factors of air curtain systems barrier efficiency for mine refuge chamber. <i>Chemical Engineering Research and Design</i> , 2016, 102, 534-546.	2.7	36
62	A Review on Recent Development of Cooling Technologies for Concentrated Photovoltaics (CPV) Systems. <i>Energies</i> , 2018, 11, 3416.	1.6	36
63	Thermophysical Properties of Some Fatty Acids/Surfactants as Phase Change Slurries for Thermal Energy Storage. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 2495-2501.	1.0	35
64	Thermal properties of polyethylene glycol/carbon microsphere composite as a novel phase change material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 1741-1749.	2.0	34
65	An electro-mechanical braking energy recovery system based on coil springs for energy saving applications in electric vehicles. <i>Energy</i> , 2020, 200, 117472.	4.5	34
66	Thermophysical properties enhancement of ternary carbonates with carbon materials for high-temperature thermal energy storage. <i>Solar Energy</i> , 2017, 155, 661-669.	2.9	33
67	A novel kinetic energy harvester using vibration rectification mechanism for self-powered applications in railway. <i>Energy Conversion and Management</i> , 2021, 228, 113720.	4.4	32
68	A thermal comfort field study on subway passengers during air-conditioning season in Beijing. <i>Sustainable Cities and Society</i> , 2020, 61, 102218.	5.1	32
69	Prediction of the solid effective thermal conductivity of fatty acid/carbon material composite phase change materials based on fractal theory. <i>Energy</i> , 2019, 170, 752-762.	4.5	31
70	Photo-thermal conversion and energy storage of lauric acid/expanded graphite composite phase change materials. <i>International Journal of Energy Research</i> , 2020, 44, 8555-8566.	2.2	31
71	Heat pipe/phase change material thermal management of Li-ion power battery packs: A numerical study on coupled heat transfer performance. <i>Energy</i> , 2022, 240, 122754.	4.5	31
72	Household appliance recognition through a Bayes classification model. <i>Sustainable Cities and Society</i> , 2019, 46, 101393.	5.1	30

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73	Sensitivity analysis of design parameters for erythritol melting in a horizontal shell and multi-finned tube system: Numerical investigation. <i>Renewable Energy</i> , 2021, 163, 423-436.	4.3	30
74	Ultrasonic enhancement on heat transfer of palmitic-stearic acid as PCM in unit by experimental study. <i>Sustainable Cities and Society</i> , 2018, 43, 532-537.	5.1	29
75	Effects of in-situ bismuth catalyst electrodeposition on performance of vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2021, 506, 230238.	4.0	29
76	Thermal performance of stearic acid/carbon nanotube composite phase change materials for energy storage prepared by ball milling. <i>International Journal of Energy Research</i> , 2019, 43, 6327-6336.	2.2	28
77	Photo-to-thermal conversion and energy storage of polyethylene glycol/copper sulfide composite PCMs. <i>Solar Energy Materials and Solar Cells</i> , 2022, 238, 111583.	3.0	28
78	A review on the influence of the components on the performance of PVT modules. <i>Solar Energy</i> , 2021, 226, 365-388.	2.9	27
79	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.	2.7	26
80	A Novel Solidâ€“Solid Phase Change Material: Pentaglycerine/Expanded Graphite Composite PCMs. <i>Advanced Engineering Materials</i> , 2018, 20, 1800237.	1.6	26
81	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.	4.3	26
82	Thermal performance of triplex-tube latent heat storage exchanger: simultaneous heat storage and hot water supply via condensation heat recovery. <i>Renewable Energy</i> , 2020, 157, 616-625.	4.3	26
83	Heat pipe/phase change material coupled thermal management in Li-ion battery packs: Optimization and energy-saving assessment. <i>Applied Thermal Engineering</i> , 2022, 208, 118211.	3.0	26
84	Thermal performance of a heating system combining solar air collector with hollow ventilated interior wall in residential buildings on Tibetan Plateau. <i>Energy</i> , 2019, 182, 93-109.	4.5	25
85	Impact of vacuum degree on the aerodynamics of a high-speed train capsule running in a tube. <i>International Journal of Heat and Fluid Flow</i> , 2021, 88, 108752.	1.1	25
86	Multi-energy driven form-stable phase change materials based on SEBS and reduced graphene oxide aerogel. <i>Solar Energy Materials and Solar Cells</i> , 2021, 233, 111390.	3.0	25
87	Energy-Saving Analysis of Solar Heating System with PCM Storage Tank. <i>Energies</i> , 2018, 11, 237.	1.6	24
88	A novel hybrid energy system combined with solar-road and soil-regenerator: Sensitivity analysis and optimization. <i>Renewable Energy</i> , 2018, 129, 419-430.	4.3	24
89	Thermal and electrical performance of a novel photovoltaic-thermal road. <i>Solar Energy</i> , 2020, 199, 1-18.	2.9	24
90	Study on thermal property of lauricâ€“palmiticâ€“stearic acid/vermiculite composite as form-stable phase change material for energy storage. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401560502.	0.8	23

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91	Enhanced thermal properties of Li ₂ CO ₃ –Na ₂ CO ₃ –K ₂ CO ₃ nanofluids with nanoalumina for heat transfer in high-temperature CSP systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1783-1792.	2.0	23
92	Simultaneous charging and discharging of phase change materials: Development of correlation for liquid fraction. <i>Solar Energy</i> , 2019, 188, 788-798.	2.9	23
93	Numerical investigations of effects of the interdigitated channel spacing on overall performance of vanadium redox flow batteries. <i>Journal of Energy Storage</i> , 2020, 32, 101781.	3.9	23
94	A High-Efficiency, Portable Solar Energy Harvesting System Based on a Foldable Wings Mechanism for Self-Powered Applications in Railways. <i>Energy Technology</i> , 2021, 9, 2000794.	1.8	23
95	Experimental and numerical investigation on a solar direct-expansion heat pump system employing PV/T & solar thermal collector as evaporator. <i>Energy</i> , 2022, 254, 124312.	4.5	23
96	Coupled cooling method for multiple latent heat thermal storage devices combined with pre-cooling of envelope: Model development and operation optimization. <i>Energy</i> , 2018, 159, 508-524.	4.5	22
97	Investigation of energy performance and operational schemes of a Tibet-focused PCM-integrated solar heating system employing a dynamic energy simulation model. <i>Energy</i> , 2019, 172, 141-154.	4.5	21
98	Inorganic composite adsorbent CaCl ₂ /MWNT for water vapor adsorption. <i>RSC Advances</i> , 2015, 5, 38630-38639.	1.7	20
99	Thermal properties enforcement of carbonate ternary via lithium fluoride: A heat transfer fluid for concentrating solar power systems. <i>Renewable Energy</i> , 2017, 111, 523-531.	4.3	20
100	An Aerothermal Study of Influence of Blockage Ratio on a Supersonic Tube Train System. <i>Journal of Thermal Science</i> , 2022, 31, 529-540.	0.9	20
101	Experimental investigation on thermophysical properties of capric acid–lauric acid phase change slurries for thermal storage system. <i>Energy</i> , 2015, 90, 359-368.	4.5	19
102	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.	5.1	19
103	A Review on the Heat Pipe Photovoltaic/Thermal (PV/T) System. <i>Journal of Thermal Science</i> , 2021, 30, 1469-1490.	0.9	19
104	Effect of the thermal conductivity of building materials on the steady-state thermal behaviour of underground building envelopes. <i>Building and Environment</i> , 2006, 41, 330-335.	3.0	18
105	Semi-analytical solution for steady-periodic heat transfer of attached underground engineering envelope. <i>Building and Environment</i> , 2008, 43, 1147-1152.	3.0	18
106	Effects of number and layout of air purification devices in mine refuge chamber. <i>Chemical Engineering Research and Design</i> , 2017, 105, 338-347.	2.7	18
107	Thermal performance of a mine refuge chamber with human body heat sources under ventilation. <i>Applied Thermal Engineering</i> , 2019, 162, 114243.	3.0	18
108	Theoretical analysis of a solar-powered multi-effect distillation integrated with concentrating photovoltaic/thermal system. <i>Desalination</i> , 2019, 468, 114074.	4.0	18

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109	Thermal and infrared camouflage performance of earth-air heat exchanger for cooling an underground diesel generator room for protective engineering. <i>Sustainable Cities and Society</i> , 2019, 47, 101437.	5.1	18
110	High-energy orbit attainment of a nonlinear beam generator by adjusting the buckling level. <i>Sensors and Actuators A: Physical</i> , 2020, 312, 112164.	2.0	18
111	10-year simulation of photovoltaic-thermal road assisted ground source heat pump system for accommodation building heating in expressway service area. <i>Solar Energy</i> , 2021, 215, 459-472.	2.9	18
112	Dynamic Performance of the Shading-type Building-Integrated Photovoltaic Claddings. <i>Procedia Engineering</i> , 2015, 121, 930-937.	1.2	17
113	Thermal properties of ternary carbonate/T-ZnOw for thermal energy storage in high-temperature concentrating solar power systems. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 93, 177-184.	3.8	17
114	Thermal properties of phase change cement board with capric acid/expanded perlite form-stable phase change material. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401770170.	0.8	17
115	Seven Operation Modes and Simulation Models of Solar Heating System with PCM Storage Tank. <i>Energies</i> , 2017, 10, 2128.	1.6	17
116	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.	5.1	17
117	Biogas Production and Heat Transfer Performance of a Multiphase Flow Digester. <i>Energies</i> , 2019, 12, 1960.	1.6	17
118	Effect of water content on the phase transition temperature, latent heat and water uptake of PEG polymers acting as endothermal-hydroscopic materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 699-708.	2.0	16
119	Relationship between the Cu content and thermal properties of Al-Cu alloys for latent heat energy storage. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 109-115.	2.0	16
120	Enhanced Thermal Energy Storage Performance of Polyethylene Glycol by Using Interfacial Interaction of Copper-Based Metal Oxide. <i>Advanced Engineering Materials</i> , 2017, 19, 1600601.	1.6	16
121	Evaluation of climatic zones and field study on thermal comfort for underground engineering in China during summer. <i>Sustainable Cities and Society</i> , 2018, 43, 421-431.	5.1	16
122	Comparison of optimal oriented facade integrated solar cooling systems in Australian climate zones. <i>Solar Energy</i> , 2020, 198, 385-398.	2.9	16
123	Numerical simulation of smoke stratification in tunnel fires under longitudinal velocities. <i>Underground Space (China)</i> , 2021, 6, 163-172.	3.4	16
124	Thermal properties of biomass-based form-stable phase change material for latent heat thermal energy storage. <i>International Journal of Energy Research</i> , 2021, 45, 20372-20383.	2.2	16
125	Numerical investigation on the factors influencing the temperature distribution of photovoltaic/thermal (PVT) evaporator/condenser for heat pump systems. <i>Renewable Energy</i> , 2022, 194, 885-901.	4.3	16
126	Thermal properties and crystallization kinetics of pentaglycerine/graphene nanoplatelets composite phase change material for thermal energy storage. <i>International Journal of Energy Research</i> , 2020, 44, 448-459.	2.2	15

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127	Operation performance test and energy efficiency analysis of ground-source heat pump systems. <i>Journal of Building Engineering</i> , 2021, 41, 102446.	1.6	15
128	Effect of connection mode and mass flux on the energy output of a PVT hot water system. <i>Solar Energy</i> , 2017, 158, 285-294.	2.9	14
129	Simultaneous decrease in supercooling and enhancement of thermal conductivity of paraffin emulsion in medium temperature range with graphene as additive. <i>Thermochimica Acta</i> , 2018, 664, 16-25.	1.2	14
130	Thermal performance analysis of an underground closed chamber with human body heat sources under natural convection. <i>Applied Thermal Engineering</i> , 2018, 145, 453-463.	3.0	14
131	A Study on Ceiling Temperature Distribution and Critical Exhaust Volumetric Flow Rate in a Long-Distance Subway Tunnel Fire with a Two-Point Extraction Ventilation System. <i>Energies</i> , 2019, 12, 1411.	1.6	14
132	Numerical analysis of the aerothermodynamic behavior of a Hyperloop in choked flow. <i>Energy</i> , 2021, 237, 121427.	4.5	14
133	Polyethylene glycolâ€”based functional composite phase change materials with excellent electrical and thermal conductivities. <i>International Journal of Energy Research</i> , 2021, 45, 7675-7688.	2.2	14
134	Flow field around a surface-mounted cubic building with louver blinds. <i>Building Simulation</i> , 2019, 12, 141-151.	3.0	13
135	Air quality control in mine refuge chamber with ventilation through pressure air pipeline. <i>Chemical Engineering Research and Design</i> , 2020, 135, 46-58.	2.7	13
136	Numerical analysis on the thermal performance of capillary heat exchange system in metro running tunnel. <i>Energy and Built Environment</i> , 2020, 1, 207-214.	2.9	13
137	Experimental and analytical analysis of the impact of different base plate materials and design parameters on the performance of the photovoltaic/thermal system. <i>Renewable Energy</i> , 2022, 187, 522-536.	4.3	13
138	Optimum connection modes for photovoltaic thermal collectors in different radiation zones of China. <i>Applied Thermal Engineering</i> , 2017, 122, 661-672.	3.0	12
139	Thermo-economic analysis of geothermal heat pump system integrated with multi-modular water-phase change material tanks for underground space cooling applications. <i>Journal of Energy Storage</i> , 2022, 45, 103726.	3.9	12
140	Steady-state equation of water vapor sorption for CaCl ₂ -based chemical sorbents and its application. <i>Scientific Reports</i> , 2016, 6, 34115.	1.6	11
141	Polyethylene Glycolâ€”CaCl ₂ Coordination Compounds as a Novel Formâ€”Stable Phase Change Material with Excellent Thermophysical Properties. <i>Advanced Engineering Materials</i> , 2018, 20, 1700643.	1.6	11
142	A Highâ€”Efficiency, Portable, Solarâ€”Powered Cooling System Based on a Foldableâ€”Flower Mechanism and Wireless Power Transfer Technology for Vehicle Cabins. <i>Energy Technology</i> , 2020, 8, 2000028.	1.8	11
143	Investigations on transient thermal performance of phase change materials embedded in metal foams for latent heat thermal energy storage. <i>International Journal of Energy Research</i> , 2021, 45, 20763-20782.	2.2	11
144	Correlations for the forced convective heat transfer at a windward building facade with exterior louver blinds. <i>Solar Energy</i> , 2020, 209, 709-723.	2.9	10

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145	Flue Gas Water Recovery by Indirect Cooling Technology for Large-Scale Applications: A Review. <i>Journal of Thermal Science</i> , 2020, 29, 1223-1241.	0.9	10
146	Mathematical and experimental evaluation of a mini-channel PV/T and thermal panel in summer mode. <i>Solar Energy</i> , 2021, 224, 401-410.	2.9	10
147	Energy Performance of an Encapsulated Phase Change Material PV/T System. <i>Energies</i> , 2019, 12, 3929.	1.6	9
148	Performance analysis of photovoltaic-thermal road assisted ground source heat pump system during non-heating season. <i>Solar Energy</i> , 2021, 221, 10-29.	2.9	9
149	Theoretical and numerical study of choking mechanism of fluid flow in Hyperloop system. <i>Aerospace Science and Technology</i> , 2022, 121, 107367.	2.5	9
150	Wall-Attached Night Ventilation Combined with Phase Change Material Wallboard in Hot Summer: An Experimental Study on the Thermal Performance. <i>Journal of Thermal Science</i> , 2022, 31, 318-331.	0.9	9
151	Core-shell microstructured nanocomposites for synergistic adjustment of environmental temperature and humidity. <i>Scientific Reports</i> , 2016, 6, 36974.	1.6	8
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