

Yanping Yuan

List of Publications by Citations

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183
papers

4,736
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196
ext. papers

6,074
ext. citations

6.4
avg, IF

6.32
L-index

#	Paper	IF	Citations
183	Fatty acids as phase change materials: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 29, 482-498	16.2	435
182	Latent Heat Thermal Energy Storage Systems with Solid-Liquid Phase Change Materials: A Review. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700753	3.5	177
181	Preparation and properties of myristic-palmitic-stearic acid/expanded graphite composites as phase change materials for energy storage. <i>Solar Energy</i> , 2014 , 99, 259-266	6.8	150
180	Preparation and characterization of lauric-myristic-palmitic acid ternary eutectic mixtures/expanded graphite composite phase change material for thermal energy storage. <i>Chemical Engineering Journal</i> , 2013 , 231, 214-219	14.7	129
179	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	10.7	128
178	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
177	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	10.6	113
176	Lauric-palmitic-stearic acid/expanded perlite composite as form-stable phase change material: Preparation and thermal properties. <i>Energy and Buildings</i> , 2014 , 82, 505-511	7	105
175	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	8.1	103
174	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	6.8	96
173	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	7.9	88
172	Effect of carbon nanotubes on the thermal behavior of palmitic-stearic acid eutectic mixtures as phase change materials for energy storage. <i>Solar Energy</i> , 2014 , 110, 64-70	6.8	87
171	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	7.9	85
170	A hierarchical interdigitated flow field design for scale-up of high-performance redox flow batteries. <i>Applied Energy</i> , 2019 , 238, 435-441	10.7	78
169	A novel PCM of lauric-myristic-stearic acid/expanded graphite composite for thermal energy storage. <i>Materials Letters</i> , 2014 , 120, 43-46	3.3	77
168	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	10.7	71
167	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	7.9	70

166	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	7	68
165	Ground source heat pump system: A review of simulation in China. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 6814-6822	16.2	66
164	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	10.6	62
163	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	4.9	58
162	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	10.6	57
161	Investigation on thermal properties of capric/lauric/oleic acid/activated carbon composite phase change materials for high-temperature cooling application. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 124, 881-888	4.1	56
160	Preparation and thermal characterization of capric/oleic/lauric acid/expanded graphite composite as phase change material for energy storage. <i>Materials Letters</i> , 2014 , 125, 154-157	3.3	54
159	A renewable energy harvesting system using a mechanical vibration rectifier (MVR) for railroads. <i>Applied Energy</i> , 2017 , 204, 1535-1543	10.7	53
158	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	10.1	51
157	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	10.6	50
156	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	10.7	49
155	Opportunities and challenges of PCM-to-air heat exchangers (PAHXs) for building free cooling applications: A comprehensive review. <i>Journal of Energy Storage</i> , 2019 , 22, 157-175	7.8	49
154	Flexible phase change materials for thermal storage and temperature control. <i>Chemical Engineering Journal</i> , 2018 , 353, 920-929	14.7	45
153	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	10.7	43
152	A novel form-stable phase change composite with excellent thermal and electrical conductivities. <i>Chemical Engineering Journal</i> , 2018 , 336, 342-351	14.7	43
151	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	7.9	42
150	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	3.7	41
149	Cold storage condensation heat recovery system with a novel composite phase change material. <i>Applied Energy</i> , 2016 , 175, 259-268	10.7	40

148	Inorganic composite sorbents for water vapor sorption: A research progress. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 761-776	16.2	39
147	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
146	Restoration performance of vertical ground heat exchanger with various intermittent ratios. <i>Geothermics</i> , 2015 , 54, 115-121	4.3	38
145	Bionic building energy efficiency and bionic green architecture: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 74, 771-787	16.2	37
144	Thermal interaction of multiple ground heat exchangers under different intermittent ratio and separation distance. <i>Applied Thermal Engineering</i> , 2016 , 108, 277-286	5.8	37
143	A comprehensive review on laminar spherically premixed flame propagation of syngas. <i>Fuel Processing Technology</i> , 2018 , 181, 97-114	7.2	36
142	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	6.5	35
141	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	7	34
140	Computer modelling and experimental investigation of phase change hysteresis of PCMs: The state-of-the-art review. <i>Applied Energy</i> , 2020 , 263, 114572	10.7	33
139	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	5.7	32
138	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
137	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	6.3	31
136	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	10.6	30
135	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	10.6	29
134	Improvement of supercooling and thermal conductivity of the sodium acetate trihydrate for thermal energy storage with Fe_2O_3 as additive. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 133, 859-867	4.1	28
133	Experimental and numerical investigation on dodecane/expanded graphite shape-stabilized phase change material for cold energy storage. <i>Energy</i> , 2019 , 189, 116175	7.9	28
132	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	2.8	27
131	Aerodynamics of railway train/tunnel system: A review of recent research. <i>Energy and Built Environment</i> , 2020 , 1, 351-375	6.3	27

130	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	4.1	27
129	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	6.3	27
128	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	5.5	26
127	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	10.6	26
126	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	3.4	24
125	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	10.6	24
124	Thermophysical properties enhancement of ternary carbonates with carbon materials for high-temperature thermal energy storage. <i>Solar Energy</i> , 2017 , 155, 661-669	6.8	22
123	A Review on Recent Development of Cooling Technologies for Concentrated Photovoltaics (CPV) Systems. <i>Energies</i> , 2018 , 11, 3416	3.1	22
122	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
121	A novel hybrid energy system combined with solar-road and soil-regenerator: Sensitivity analysis and optimization. <i>Renewable Energy</i> , 2018 , 129, 419-430	8.1	20
120	Functional phase change composites with highly efficient electrical to thermal energy conversion. <i>Renewable Energy</i> , 2020 , 145, 2629-2636	8.1	20
119	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	7.9	19
118	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	7	18
117	Enhanced thermal properties of $\text{Li}_2\text{CO}_3/\text{Na}_2\text{CO}_3/\text{K}_2\text{CO}_3$ nanofluids with nanoalumina for heat transfer in high-temperature CSP systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 128, 1783-1792	4.5	17
116	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	7.9	17
115	Energy-Saving Analysis of Solar Heating System with PCM Storage Tank. <i>Energies</i> , 2018 , 11, 237	3.1	16
114	Semi-analytical solution for steady-periodic heat transfer of attached underground engineering envelope. <i>Building and Environment</i> , 2008 , 43, 1147-1152	6.5	16
113	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	6.5	16

112	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	4.5	15
111	Effects of number and layout of air purification devices in mine refuge chamber. <i>Chemical Engineering Research and Design</i> , 2017 , 105, 338-347	5.5	14
110	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	8.1	14
109	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	3.5	14
108	Household appliance recognition through a Bayes classification model. <i>Sustainable Cities and Society</i> , 2019 , 46, 101393	10.1	14
107	Inorganic composite adsorbent CaCl ₂ /MWNT for water vapor adsorption. <i>RSC Advances</i> , 2015 , 5, 38630-38639	3.5	14
106	Experimental investigation on thermophysical properties of capric acid/lauric acid phase change slurries for thermal storage system. <i>Energy</i> , 2015 , 90, 359-368	7.9	14
105	Study on thermal property of lauric/palmitic/stearic acid/vermiculite composite as form-stable phase change material for energy storage. <i>Advances in Mechanical Engineering</i> , 2015 , 7, 168781401560502	1.2	14
104	Thermal and electrical performance of a novel photovoltaic-thermal road. <i>Solar Energy</i> , 2020 , 199, 1-18	6.8	14
103	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	10.1	14
102	A Novel Solid-Solid Phase Change Material: Pentaglycerine/Expanded Graphite Composite PCMs. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800237	3.5	14
101	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	8.4	13
100	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	6.8	13
99	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	7.9	13
98	An Aerothermal Study of Influence of Blockage Ratio on a Supersonic Tube Train System. <i>Journal of Thermal Science</i> , 2020 , 1	1.9	13
97	Photo-to-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	4.5	13
96	Effect of water content on the phase transition temperature, latent heat and water uptake of PEG polymers acting as endothermal-hygroscopic materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 126, 699-708	4.1	13
95	Simultaneous charging and discharging of phase change materials: Development of correlation for liquid fraction. <i>Solar Energy</i> , 2019 , 188, 788-798	6.8	13

94	Seven Operation Modes and Simulation Models of Solar Heating System with PCM Storage Tank. <i>Energies</i> , 2017 , 10, 2128	3.1	13
93	Micro-Channel Heat Sink: A Review. <i>Journal of Thermal Science</i> , 2020 , 29, 1431-1462	1.9	13
92	Relationship between the Cu content and thermal properties of AlCu alloys for latent heat energy storage. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 129, 109-115	4.1	12
91	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	10.1	12
90	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
89	A thermal comfort field study on subway passengers during air-conditioning season in Beijing. <i>Sustainable Cities and Society</i> , 2020 , 61, 102218	10.1	12
88	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
87	An electro-mechanical braking energy recovery system based on coil springs for energy saving applications in electric vehicles. <i>Energy</i> , 2020 , 200, 117472	7.9	11
86	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	8.1	11
85	A novel kinetic energy harvester using vibration rectification mechanism for self-powered applications in railway. <i>Energy Conversion and Management</i> , 2021 , 228, 113720	10.6	11
84	Optimum connection modes for photovoltaic thermal collectors in different radiation zones of China. <i>Applied Thermal Engineering</i> , 2017 , 122, 661-672	5.8	10
83	Biogas Production and Heat Transfer Performance of a Multiphase Flow Digester. <i>Energies</i> , 2019 , 12, 1960	3.1	10
82	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	3.1	10
81	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	2.9	10
80	Dynamic Performance of the Shading-type Building-Integrated Photovoltaic Claddings. <i>Procedia Engineering</i> , 2015 , 121, 930-937		10
79	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	8.1	10
78	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	10.1	9
77	Theoretical analysis of a solar-powered multi-effect distillation integrated with concentrating photovoltaic/thermal system. <i>Desalination</i> , 2019 , 468, 114074	10.3	9

76	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	1.2	9
75	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	7.8	9
74	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	2.4	9
73	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	3.5	9
72	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	5.8	9
71	A High-Efficiency, Portable, Solar-Powered Cooling System Based on a Foldable-Flower Mechanism and Wireless Power Transfer Technology for Vehicle Cabins. <i>Energy Technology</i> , 2020 , 8, 2000028	3.5	8
70	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	6.8	8
69	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	4.5	8
68	High-energy orbit attainment of a nonlinear beam generator by adjusting the buckling level. <i>Sensors and Actuators A: Physical</i> , 2020 , 312, 112164	3.9	8
67	Flue Gas Water Recovery by Indirect Cooling Technology for Large-Scale Applications: A Review. <i>Journal of Thermal Science</i> , 2020 , 29, 1223-1241	1.9	8
66	Core-shell microstructured nanocomposites for synergistic adjustment of environmental temperature and humidity. <i>Scientific Reports</i> , 2016 , 6, 36974	4.9	8
65	Flow field around a surface-mounted cubic building with louver blinds. <i>Building Simulation</i> , 2019 , 12, 141-151	3.9	8
64	Polyethylene Glycol/CaCl ₂ Coordination Compounds as a Novel Form-Stable Phase Change Material with Excellent Thermophysical Properties. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700643	3.5	8
63	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
62	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	6.3	7
61	Comparison of optimal oriented facade integrated solar cooling systems in Australian climate zones. <i>Solar Energy</i> , 2020 , 198, 385-398	6.8	7
60	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	7.9	7
59	Thermal performance of a mine refuge chamber with human body heat sources under ventilation. <i>Applied Thermal Engineering</i> , 2019 , 162, 114243	5.8	7

58	Energy Performance of an Encapsulated Phase Change Material PV/T System. <i>Energies</i> , 2019 , 12, 3929	3.1	7
57	Numerical analysis of the aerothermodynamic behavior of a Hyperloop in choked flow. <i>Energy</i> , 2021 , 237, 121427	7.9	7
56	Thermodynamic analysis of a novel sodium hydroxide-water solution absorption refrigeration, heating and power system for low-temperature heat sources. <i>Applied Energy</i> , 2018 , 222, 1-12	10.7	6
55	Numerical simulation of smoke stratification in tunnel fires under longitudinal velocities. <i>Underground Space (China)</i> , 2021 , 6, 163-172	3.7	6
54	Steady-state equation of water vapor sorption for CaCl ₂ -based chemical sorbents and its application. <i>Scientific Reports</i> , 2016 , 6, 34115	4.9	5
53	Hexagonal spiral prismatic polypyrrole nanorods prepared by chemical oxidation. <i>Colloid and Polymer Science</i> , 2015 , 293, 329-332	2.4	5
52	Friction-Load Relationship in the Adhesive Regime Revealing Potential Incapability of AFM Investigations. <i>Tribology Letters</i> , 2020 , 68, 1	2.8	5
51	Air quality control in mine refuge chamber with ventilation through pressure air pipeline. <i>Chemical Engineering Research and Design</i> , 2020 , 135, 46-58	5.5	5
50	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	6.8	5
49	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
48	Experimental Investigation on Performance Comparison of Solar Water Heating-Phase Change Material System and Solar Water Heating System. <i>Energies</i> , 2019 , 12, 2347	3.1	4
47	A high efficiency electric heater based on dual-helical tube and screw-tape for instant water heating. <i>Applied Thermal Engineering</i> , 2019 , 160, 114018	5.8	4
46	Porosity reduction of polyethylene glycol phase change materials by using nanoscale thermal-energy-conducting medium during crystallization process. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45446	2.9	4
45	Experimental investigation on the supercooling and heat conduction of sodium acetate trihydrate/copper foam/YSZ composite phase change material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 3275-3284	4.1	4
44	Operation performance test and energy efficiency analysis of ground-source heat pump systems. <i>Journal of Building Engineering</i> , 2021 , 41, 102446	5.2	4
43	A review on the influence of the components on the performance of PVT modules. <i>Solar Energy</i> , 2021 , 226, 365-388	6.8	4
42	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	6.4	4
41	Semi-analytical solution of roof-on-grade attached underground engineering envelope. <i>Building and Environment</i> , 2008 , 43, 1138-1146	6.5	3

40	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	6.4	3
39	Heat pipe/phase change material thermal management of Li-ion power battery packs: A numerical study on coupled heat transfer performance. <i>Energy</i> , 2021 , 240, 122754	7.9	3
38	Thermal performance of helicopter air conditioning system with lube oil source (LOS) heat pump. <i>Energy</i> , 2020 , 190, 116446	7.9	3
37	Optimization of falling film thermosyphons bundle arrangement for large-scale cooling applications by genetic algorithm. <i>Applied Thermal Engineering</i> , 2020 , 169, 114892	5.8	3
36	Thermodynamic and economic analysis of a micro-combined polygeneration system coupled with solar energy and fuels for distributed applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 581-595	4.1	3
35	Effects of in-situ bismuth catalyst electrodeposition on performance of vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2021 , 506, 230238	8.9	3
34	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	7.8	2
33	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	8.1	2
32	Comparative numerical study of aerodynamic heating and performance of transonic hyperloop pods with different noses. <i>Case Studies in Thermal Engineering</i> , 2022 , 29, 101701	5.6	2
31	Theoretical and numerical study of choking mechanism of fluid flow in Hyperloop system. <i>Aerospace Science and Technology</i> , 2022 , 121, 107367	4.9	2
30	Aerodynamic thermal environment around transonic tube train in choked/unchoked flow. <i>International Journal of Heat and Fluid Flow</i> , 2021 , 92, 108890	2.4	2
29	Melting and solidification performance in two horizontal shell-and-tube heat exchangers with different structures. <i>International Journal of Energy Research</i> , 2020 , 44, 11288-11301	4.5	2
28	Feasibility study on temperature control with phase change material in intensive heat-releasing space during emergency power failure: A case analysis of information system room. <i>Energy and Buildings</i> , 2021 , 230, 110482	7	2
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