Xiaoze Du

List of Publications by Year in descending order

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334 papers	9,021 citations	46918 47 h-index	76769 74 g-index
339 all docs	339 docs citations	339 times ranked	6339 citing authors

#	Article	IF	Citations
1	Cyclic performance of cascaded latent heat thermocline energy storage systems for high-temperature applications. Energy, 2022, 239, 122229.	4.5	16
2	Boost of photodegradation performances by adoption of semi-transparent open cell foam substrates via numerical simulation. Chemical Engineering Journal, 2022, 427, 130920.	6.6	1
3	Optimal flow layout and current allocation for improving the thermoelectric refrigeration system based on heat current method. International Journal of Energy Research, 2022, 46, 2826-2839.	2.2	8
4	A RuO2IrO2 electrocatalyst with an optimal composition and novel microstructure for oxygen evolving in the single cell. Korean Journal of Chemical Engineering, 2022, 39, 596-604.	1.2	5
5	Experimental, numerical and analytical modeling of heat transfer of gravity driven dense particle flow in vertical heated plates. International Journal of Heat and Mass Transfer, 2022, 187, 122571.	2.5	2
6	Mechanisms for thermal conduction in molten salt-based nanofluid. International Journal of Heat and Mass Transfer, 2022, 188, 122648.	2.5	13
7	Dynamic simulation of a 50MW solar power tower system for peak load regulation. AIP Conference Proceedings, 2022, , .	0.3	0
8	Comparison and evaluation of supercritical <scp> CO ₂ </scp> cooling performance in horizontal tubes with variable crossâ€section by field synergy theory. International Journal of Energy Research, 2022, 46, 14133-14144.	2.2	8
9	Numerical Simulation of Multi-Nozzle Droplet Evaporation Characteristics for Desulfurization Wastewater. Energies, 2022, 15, 5180.	1.6	0
10	Review of 3D printing in photocatalytic substrates and catalysts. Materials Today Energy, 2022, 29, 101100.	2.5	7
11	Anti-freezing performance and application of air-cooled heat exchanger with different water entry patterns. Applied Thermal Engineering, 2021, 182, 116066.	3.0	2
12	Numerical investigation on simultaneous charging and discharging process of molten-salt packed-bed thermocline storage tank employing in CSP plants. Renewable Energy, 2021, 172, 1417-1432.	4.3	13
13	Gaseous thermal conductivity studies on mesoporous silica particles based on a bimodal-pore distribution model. International Journal of Thermal Sciences, 2021, 160, 106668.	2.6	11
14	Dynamic characteristics of solid packed-bed thermocline tank using molten-salt as a heat transfer fluid. International Journal of Heat and Mass Transfer, 2021, 165, 120677.	2.5	19
15	Effects of SiO2 Nanoparticle Dispersion on The Heat Storage Property of the Solar Salt for Solar Power Applications. Energies, 2021, 14, 703.	1.6	6
16	Mechanism exploration of the enhancement of thermal energy storage in molten salt nanofluid. Physical Chemistry Chemical Physics, 2021, 23, 13181-13189.	1.3	16
17	Operation strategies of axial flow fans in a direct dry cooling system under various meteorological conditions. Heat Transfer, 2021, 50, 4481-4500.	1.7	2
18	Study on Outlet Temperature Control of External Receiver for Solar Power Tower. Energies, 2021, 14, 340.	1.6	3

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19	Performance Investigation of a Solar Thermal Collector Based on Nanostructured Energy Materials. Frontiers in Materials, 2021, 7, .	1.2	4
20	CaCo_{0.05}Mn_{0.95}O_{3â^'Î´}: A Promising Perovskite Solid Solution for Solar Thermochemical Energy Storage. ACS Applied Materials & Interfaces, 2021, 13, 3856-3866.	4.0	34
21	Optimization for Circulating Cooling Water Distribution of Indirect Dry Cooling System in a Thermal Power Plant under Crosswind Condition with Evolution Strategies Algorithm. Energies, 2021, 14, 1167.	1.6	4
22	Influences of Lateral Double-Layered Deflectors on Cooling Performance of Air-Cooled Condenser. Journal of Thermal Science, 2021, 30, 2164-2177.	0.9	2
23	Tower Configuration Impacts on the Thermal and Flow Performance of Steel-Truss Natural Draft Dry Cooling System. Energies, 2021, 14, 2002.	1.6	0
24	A Comparative Study on the Performance of Single and Multi-Layer Encapsulated Phase Change Material Packed-Bed Thermocline Tanks. Energies, 2021, 14, 2175.	1.6	9
25	Study on Spray Evaporation Treatment of Desulfurization Wastewater. Coatings, 2021, 11, 418.	1.2	4
26	Numerical investigation of water and temperature distributions in a proton exchange membrane electrolysis cell. Science China Technological Sciences, 2021, 64, 1555-1566.	2.0	28
27	Energy-Saving Strategies of Axial Flow Fans for Direct Dry Cooling System. Energies, 2021, 14, 3176.	1.6	5
28	Energy Transport of Photocatalytic Carbon Dioxide Reduction in Optical Fiber Honeycomb Reactor Coupled with Trough Concentrated Solar Power. Catalysts, 2021, 11, 829.	1.6	3
29	Control strategy of molten salt solar power tower plant function as peak load regulation in grid. Applied Energy, 2021, 294, 116967.	5.1	8
30	Molecular Insight into Bubble Nucleation on the Surface with Wettability Transition at Controlled Temperatures. Langmuir, 2021, 37, 8765-8775.	1.6	14
31	Subregional modulation of axial flow fans to reduce condensate supercooling of air-cooled steam condenser in cold days. Applied Thermal Engineering, 2021, 193, 117016.	3.0	4
32	Experimental Investigation on the Hydrodynamic Characteristics of Fluidized Bed Particle Solar Receiver with Gas-Solid Countercurrent Flow Pattern. Journal of Thermal Science, 2021, 30, 2241-2253.	0.9	5
33	Characteristics of Axial and Radial Development of Solids Holdup in a Countercurrent Fluidized Bed Particle Solar Receiver. Journal of Thermal Science, 2021, 30, 2223-2240.	0.9	2
34	Coherent and incoherent effects of nanopores on thermal conductance in silicene. International Journal of Thermal Sciences, 2021, 167, 107009.	2.6	2
35	Influence of Operation Schemes on the Performance of the Natural Draft Hybrid Cooling System for Thermal Power Generation. Energies, 2021, 14, 5653.	1.6	0
36	Optimal clean heating mode of the integrated electricity and heat energy system considering the comprehensive energy-carbon price. Energy, 2021, 231, 120919.	4.5	28

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37	Review on gas-solid fluidized bed particle solar receivers applied in concentrated solar applications: Materials, configurations and methodologies. Renewable and Sustainable Energy Reviews, 2021, 150, 111479.	8.2	25
38	Investigation on Simultaneous Charging and Discharging Process of Water Thermocline Storage Tank Employed in Combined Heat and Power Units. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	10
39	Experimental investigation on stability of thermal performances of solar salt based nanocomposite. Renewable Energy, 2020, 146, 816-827.	4.3	26
40	Energy efficient strategies for anti-freezing of air-cooled heat exchanger. Applied Energy, 2020, 261, 114468.	5.1	19
41	Anti-freezing of natural draft dry cooling system of power generation by water re-distribution during winter. International Journal of Heat and Mass Transfer, 2020, 149, 119194.	2.5	8
42	Rotational speed adjustment of axial flow fans to maximize net power output for direct dry cooling power generating units. Heat Transfer - Asian Research, 2020, 49, 356-382.	2.8	5
43	Hot air extraction to improve aerodynamic and heat transfer performances of natural draft dry cooling system. International Journal of Heat and Mass Transfer, 2020, 163, 120476.	2.5	8
44	High temperature stability and optical properties investigation of a novel ITO-Therminol 66 nanofluid for spectral splitting PV/T systems. Optical Materials, 2020, 109, 110373.	1.7	11
45	Performance analysis of direct absorption-based parabolic trough solar collector using hybrid nanofluids. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	14
46	Simulation Study on Direct Contact Membrane Distillation Modules for High-Concentration NaCl Solution. Membranes, 2020, 10, 179.	1.4	20
47	Response characteristics of external receiver for concentrated solar power to disturbance during operation. Applied Energy, 2020, 278, 115709.	5.1	16
48	Heat transport characteristics of a peak shaving solar power tower station. Renewable Energy, 2020, 156, 493-508.	4.3	8
49	Performance analyses of a combined natural draft hybrid cooling system with serial airflow path. International Journal of Heat and Mass Transfer, 2020, 159, 120073.	2.5	13
50	Enhanced heat conduction in molten salt containing nanoparticles: Insights from molecular dynamics. International Journal of Heat and Mass Transfer, 2020, 153, 119578.	2.5	38
51	A review on emulsification via microfluidic processes. Frontiers of Chemical Science and Engineering, 2020, 14, 350-364.	2.3	25
52	Cooling Performance Optimization of Direct Dry Cooling System Based on Partition Adjustment of Axial Flow Fans. Energies, 2020, 13, 3179.	1.6	5
53	Modelling of TiO2-based packing bed photocatalytic reactor with Raschig rings for phenol degradation by coupled CFD and DEM. Chemical Engineering Journal, 2020, 400, 125988.	6.6	25
54	Review of modeling and simulation strategies for unstructured packing bed photoreactors with CFD method. Renewable and Sustainable Energy Reviews, 2020, 131, 109986.	8.2	11

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55	Auxiliary heat exchanger layout for freeze-proofing and performance recovery of natural draft dry cooling system. International Journal of Heat and Mass Transfer, 2020, 150, 119381.	2.5	1
56	Piping-Main Scheme for Condensers against the Adverse Impact of Environmental Conditions on Air-Cooled Thermal Power Units. Energies, 2020, 13, 170.	1.6	5
57	Cooling performance of natural draft hybrid system with parallel air path. Applied Thermal Engineering, 2020, 169, 114971.	3.0	12
58	Enhancement of Thermo-Flow Performances by Windbreakers for Two-Tower Indirect Dry Cooling System. Journal of Thermal Science, 2020, 29, 676-686.	0.9	4
59	Performance prediction and cost-effectiveness analysis of a novel natural draft hybrid cooling system for power plants. Applied Energy, 2020, 262, 114555.	5.1	23
60	INFLUENCE OF NONCONDENSABLE GAS TO CONDENSATION OF WATER IN A NANOSCALE SPACE USING MOLECULAR DYNAMICS SIMULATION. Journal of Enhanced Heat Transfer, 2020, 27, 85-100.	0.5	0
61	Influence of temperature on performance of all vanadium redox flow battery: analysis of ionic mass transfer. Ionics, 2019, 25, 593-606.	1.2	25
62	Experimental study on the vibrational performance and its physical origins of a prototype reversible pump turbine in the pumped hydro energy storage power station. Renewable Energy, 2019, 130, 667-676.	4.3	83
63	Water redistribution among various sectors to avoid freezing of air-cooled heat exchanger. International Journal of Heat and Mass Transfer, 2019, 141, 294-309.	2.5	11
64	Dynamic analysis of a concentrating photovoltaic/concentrating solar power (CPV/CSP) hybrid system. Science China Technological Sciences, 2019, 62, 1987-1998.	2.0	7
65	Pre-cooling of air by water spray evaporation to improve thermal performance of lithium battery pack. Applied Thermal Engineering, 2019, 163, 114401.	3.0	35
66	Evaporation aided improvement for cooling performance of large scale natural draft dry cooling system. Applied Thermal Engineering, 2019, 163, 114350.	3.0	20
67	Cooling Performance Enhancement of Air-Cooled Condensers by Guiding Air Flow. Energies, 2019, 12, 3503.	1.6	5
68	Performance of a novel natural draft hybrid cooling tower for thermal power generation. Energy Procedia, 2019, 158, 5231-5237.	1.8	9
69	Static and dynamic thermocline evolution in the water thermocline storage tank. Energy Procedia, 2019, 158, 4471-4476.	1.8	12
70	Numerical study of a novel dual-PCM thermal energy storage structure filled with inorganic salts and metal alloy as the PCMs. Energy Procedia, 2019, 158, 4423-4428.	1.8	14
71	Effect of nanostructures on rapid boiling of water films: a comparative study by molecular dynamics simulation. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	18
72	Transient behavior of the cold end system in an indirect dry cooling thermal power plant under varying operating conditions. Energy, 2019, 181, 1202-1212.	4.5	6

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73	Experimental Investigation of Pressure on the Thermal Conductivity of Granular Carbon Aerogels. International Journal of Thermophysics, 2019, 40, 1.	1.0	3
74	Cyclic characteristics of water thermocline storage tank with encapsulated PCM packed bed. International Journal of Heat and Mass Transfer, 2019, 139, 1077-1086.	2.5	29
75	Peak shaving performance of coal-fired power generating unit integrated with multi-effect distillation seawater desalination. Applied Energy, 2019, 250, 175-184.	5.1	49
76	Air pre-heating for anti-freezing of air-cooled heat exchanger by spraying flue gas. International Journal of Heat and Mass Transfer, 2019, 138, 152-162.	2.5	6
77	Simultaneous measurements of thin film thickness using total internal reflection fluorescence microscopy and disjoining pressure using Scheludko cell. Review of Scientific Instruments, 2019, 90, 045118.	0.6	3
78	Influencing Mechanisms of a Crosswind on the Thermo-Hydraulic Characteristics of a Large-Scale Air-Cooled Heat Exchanger. Energies, 2019, 12, 1128.	1.6	3
79	Dynamic output characteristics of a photovoltaic-wind-concentrating solar power hybrid system integrating an electric heating device. Energy Conversion and Management, 2019, 193, 86-98.	4.4	23
80	Anti-freezing of air-cooled heat exchanger with rolling-type windbreaker. International Journal of Heat and Mass Transfer, 2019, 136, 70-86.	2.5	9
81	Combined air-cooled condenser layout with in line configured finned tube bundles to improve cooling performance. Applied Thermal Engineering, 2019, 154, 505-518.	3.0	18
82	Internal flow near the triple line in sessile droplets of binary mixtures during evaporation at different ambient temperatures. International Journal of Heat and Mass Transfer, 2019, 136, 581-590.	2.5	7
83	Experimental study of influences of a particle on the collapsing dynamics of a laser-induced cavitation bubble near a solid wall. Experimental Thermal and Fluid Science, 2019, 105, 289-306.	1.5	37
84	Entransy based optimal adjustment of louvers for anti-freezing of natural draft dry cooling system. International Journal of Heat and Mass Transfer, 2019, 134, 468-481.	2.5	15
85	Thin film profile and interfacial temperature distribution of binary fluid sessile droplet evaporating on heated substrate. International Journal of Heat and Mass Transfer, 2019, 135, 274-283.	2.5	4
86	Evaluation of natural draft dry cooling system incorporating water spray air precooling. Applied Thermal Engineering, 2019, 151, 294-307.	3.0	17
87	Flow deflectors to release the negative defect of natural wind on large scale dry cooling tower. International Journal of Heat and Mass Transfer, 2019, 128, 248-269.	2.5	31
88	Modeling the performance of the indirect dry cooling system in a thermal power generating unit under variable ambient conditions. Energy, 2019, 169, 625-636.	4.5	24
89	Characterization and stability study of a form-stable erythritol/expanded graphite composite phase change material for thermal energy storage. Renewable Energy, 2019, 136, 211-222.	4.3	99
90	Cooling water mass flow optimization for indirect dry cooling system of thermal power unit under variable output load. International Journal of Heat and Mass Transfer, 2019, 133, 1-10.	2.5	23

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91	Dynamic simulation of steam generation system in solar tower power plant. Renewable Energy, 2019, 135, 866-876.	4.3	40
92	Parameter analysis of atomized droplets sprayed evaporation in flue gas flow. International Journal of Heat and Mass Transfer, 2019, 129, 936-952.	2.5	37
93	Entransy analysis optimization of cooling water flow distribution in a dry cooling tower of power plant under summer crosswinds. Energy, 2019, 166, 1229-1240.	4.5	28
94	Effect of sessile binary droplet evaporation at different ambient temperatures on interfacial profile near the triple line. Experimental Thermal and Fluid Science, 2019, 103, 108-117.	1.5	5
95	A novel rotational symmetry (RS) connection approach for dense-array concentrator photovoltaic (DA-CPV) modules. Energy Conversion and Management, 2019, 181, 359-371.	4.4	10
96	Numerical simulation of effective thermal conductivity and pore-scale melting process of PCMs in foam metals. Applied Thermal Engineering, 2019, 147, 464-472.	3.0	98
97	Performance of a novel natural draft hybrid cooling system with serial airside heat exchange. Applied Thermal Engineering, 2019, 147, 361-370.	3.0	17
98	Thermo-flow performances of air-cooled condenser cell with oblique finned tube bundles. International Journal of Thermal Sciences, 2019, 135, 478-492.	2.6	5
99	Experiments on comparative performance of water thermocline storage tank with and without encapsulated paraffin wax packed bed. Applied Thermal Engineering, 2019, 147, 188-197.	3.0	44
100	Heat Transfer Characteristics in an Evaporating Thin Film and Intrinsic Meniscus in a Binary Fluid Sessile Droplet. Heat Transfer Engineering, 2019, 40, 450-463.	1.2	6
101	Molecular dynamics simulation of the effect of oxygen-containing functional groups on the thermal conductivity of reduced graphene oxide. Computational Materials Science, 2018, 148, 176-183.	1.4	30
102	Fluid Flow and Thin-Film Evolution near the Triple Line during Droplet Evaporation of Self-Rewetting Fluids. Langmuir, 2018, 34, 3853-3863.	1.6	14
103	Ca(NO3)2-NaNO3/expanded graphite composite as a novel shape-stable phase change material for mid- to high-temperature thermal energy storage. Energy Conversion and Management, 2018, 163, 50-58.	4.4	128
104	A numerical investigation on the conjugate heat transfer of thin liquid film of water in closed microcavity. International Journal of Thermal Sciences, 2018, 130, 1-9.	2.6	2
105	Experimental photothermal performance of nanofluids under concentrated solar flux. Solar Energy Materials and Solar Cells, 2018, 182, 255-262.	3.0	55
106	Numerical study of the thermo-flow performances of novel finned tubes for air-cooled condensers in power plant. IOP Conference Series: Earth and Environmental Science, 2018, 121, 042025.	0.2	2
107	A novel effective thermal conductivity correlation of the PCM melting in spherical PCM encapsulation for the packed bed TES system. Applied Thermal Engineering, 2018, 135, 116-122.	3.0	64
108	Wave propagation in liquids with oscillating vapor-gas bubbles. Applied Thermal Engineering, 2018, 133, 483-492.	3.0	31

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109	Efficiency analyses of high temperature thermal energy storage systems of rocks only and rock-PCM capsule combination. Solar Energy, 2018, 162, 153-164.	2.9	49
110	Thermodynamic characteristics of thermal power plant with hybrid (dry/wet) cooling system. Energy, 2018, 147, 729-741.	4.5	37
111	Effect of pulse electrodeposition parameters on electrocatalytic the activity of methanol oxidation and morphology of Pt/C catalyst for direct methanol fuel cells. Energy Conversion and Management, 2018, 160, 85-92.	4.4	33
112	Computational study on thermal conductivity of defective carbon nanomaterials: carbon nanotubes versus graphene nanoribbons. Journal of Materials Science, 2018, 53, 4242-4251.	1.7	19
113	Temporal and spatial evolution of the thin film near triple line during droplet evaporation. International Journal of Heat and Mass Transfer, 2018, 117, 1147-1157.	2.5	4
114	Experimental study on boiling heat transfer of a self-rewetting fluid on copper foams with pore-density gradient structures. International Journal of Heat and Mass Transfer, 2018, 124, 210-219.	2.5	32
115	Wind leading to improve cooling performance of natural draft air-cooled condenser. Applied Thermal Engineering, 2018, 136, 63-83.	3.0	25
116	Performance improvement in nano-alumina filled silicone rubber composites by using vinyl tri-methoxysilane. Polymer Testing, 2018, 67, 295-301.	2.3	71
117	Acoustic wave propagation in bubbly flow with gas, vapor or their mixtures. Ultrasonics Sonochemistry, 2018, 40, 40-45.	3.8	34
118	Selection principles and thermophysical properties of high temperature phase change materials for thermal energy storage: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 1771-1786.	8.2	233
119	Effects of mass transfer on damping mechanisms of vapor bubbles oscillating in liquids. Ultrasonics Sonochemistry, 2018, 40, 120-127.	3.8	23
120	A review of methods for vortex identification in hydroturbines. Renewable and Sustainable Energy Reviews, 2018, 81, 1269-1285.	8.2	198
121	Novel air-cooled condenser with V-frame cells and induced axial flow fans. International Journal of Heat and Mass Transfer, 2018, 117, 167-182.	2.5	20
122	Thermo-flow performances of natural draft direct dry cooling system at ambient winds. International Journal of Heat and Mass Transfer, 2018, 116, 173-184.	2.5	9
123	Stability mechanisms of oscillating vapor bubbles in acoustic fields. Ultrasonics Sonochemistry, 2018, 40, 808-814.	3.8	17
124	CO₂ absorption characteristics in a random packed column with various geometric structures and working conditions. , 2018, 8, 120-132.		0
125	Effects of geometric structures of air deflectors on thermo-flow performances of air-cooled condenser. International Journal of Heat and Mass Transfer, 2018, 118, 1022-1039.	2.5	20
126	Molecular dynamics simulation of cross-linked epoxy resin and its interaction energy with graphene under two typical force fields. Computational Materials Science, 2018, 143, 240-247.	1.4	69

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127	Shear deformation-induced anisotropic thermal conductivity of graphene. Physical Chemistry Chemical Physics, 2018, 20, 951-957.	1.3	8
128	Anti-freezing operation strategies of natural draft dry cooling system. International Journal of Heat and Mass Transfer, 2018, 118, 165-170.	2.5	18
129	Annularly arranged air-cooled condenser to improve cooling efficiency of natural draft direct dry cooling system. International Journal of Heat and Mass Transfer, 2018, 118, 587-601.	2.5	10
130	A novel PtRuIr nanoclusters synthesized by selectively electrodepositing Ir on PtRu as highly active bifunctional electrocatalysts for oxygen evolution and reduction. Energy Conversion and Management, 2018, 155, 182-187.	4.4	36
131	Numerical Simulation Study on Spray Evaporation Process of Desulfurization Wastewater in Flue Duct. , 2018, , .		0
132	Reduction of thermal conductivity in silicene nanomesh: insights from coherent and incoherent phonon transport. Physical Chemistry Chemical Physics, 2018, 20, 27169-27175.	1.3	10
133	Manipulating Thermal Conductance of Supported Graphene via Surface Hydroxylation of Substrates. Journal of Physical Chemistry C, 2018, 122, 27689-27695.	1.5	6
134	Design and performance analysis of volumetric solar receiver based on porous foam ceramics. AIP Conference Proceedings, 2018, , .	0.3	2
135	Thermal Properties of Solar Collector Comprising Oscillating Heat Pipe in a Flat-Plate Structure and Water Heating System in Low-Temperature Conditions. Energies, 2018, 11, 2553.	1.6	8
136	Numerical study of a photovoltaic/thermal hybrid system with nanofluid based spectral beam filters. Energy Conversion and Management, 2018, 174, 686-704.	4.4	44
137	Novel optimization design strategy for solar power tower plants. Energy Conversion and Management, 2018, 177, 682-692.	4.4	28
138	Solar energy curtailment in China: Status quo, reasons and solutions. Renewable and Sustainable Energy Reviews, 2018, 97, 509-528.	8.2	82
139	Measurement and Analysis of Thermal Conductivity of Ti3C2Tx MXene Films. Materials, 2018, 11, 1701.	1.3	82
140	Enhanced photocatalytic reduction of carbon dioxide in optical fiber monolith reactor with transparent glass balls. Applied Energy, 2018, 230, 1403-1413.	5.1	25
141	Heat transfer characteristics of a binary thin liquid film in a microchannel with constant heat flux boundary condition. International Journal of Thermal Sciences, 2018, 134, 612-621.	2.6	7
142	Numerical study on performance improvement of air-cooled condenser by water spray cooling. International Journal of Heat and Mass Transfer, 2018, 125, 1028-1042.	2.5	25
143	Square array of air-cooled condensers to improve thermo-flow performances under windy conditions. International Journal of Heat and Mass Transfer, 2018, 127, 717-729.	2.5	16
144	Impacts of Water Flow Rate on Freezing Prevention of Air-Cooled Heat Exchangers in Power Plants. Energies, 2018, 11, 112.	1.6	1

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145	Energy Analysis of Cascade Heating with High Back-Pressure Large-Scale Steam Turbine. Energies, 2018, 11, 119.	1.6	21
146	On the Heat Transfer Enhancement of Plate Fin Heat Exchanger. Energies, 2018, 11, 1398.	1.6	42
147	Study on multi-effect distillation of seawater with low-grade heat utilization of thermal power generating unit. Applied Thermal Engineering, 2018, 141, 589-599.	3.0	34
148	Thermal analysis of a conceptual loop heat pipe for solar central receivers. Energy, 2018, 158, 709-718.	4.5	31
149	Experimental investigations of interactions between a laser-induced cavitation bubble and a spherical particle. Experimental Thermal and Fluid Science, 2018, 98, 645-661.	1.5	70
150	UNSTEADY CHARACTERISTICS OF WATER THERMOCLINE STORAGE TANK WITH ENCAPSULATED PARAFFIN WAX PACKED BED. , 2018, , .		6
151	Improvement in thermal conductivity and mechanical properties of ethyleneâ€propyleneâ€“diene monomer rubber by expanded graphite. Polymer Composites, 2017, 38, 870-876.	2.3	24
152	Off-design performance of concentrated solar heat and coal double-source boiler power generation with thermocline energy storage. Applied Energy, 2017, 189, 697-710.	5.1	40
153	Heat transfer characteristics of evaporating thin liquid film in closed microcavity for self-rewetting binary fluid. International Journal of Heat and Mass Transfer, 2017, 108, 136-145.	2.5	16
154	Performance improvement of natural draft dry cooling system by water flow distribution under crosswinds. International Journal of Heat and Mass Transfer, 2017, 108, 1924-1940.	2.5	31
155	Indoor and outdoor particle concentration distributions of a typical meeting room during haze and clear-sky days. Science China Technological Sciences, 2017, 60, 355-362.	2.0	3
156	Flue gas diffusion for integrated dry-cooling tower and stack system in power plants. International Journal of Thermal Sciences, 2017, 114, 257-270.	2.6	24
157	Mass transfer and energy consumption for CO2 absorption by ammonia solution in bubble column. Applied Energy, 2017, 190, 1068-1080.	5.1	65
158	A thermal conductivity study of double-pore distributed powdered silica aerogels. International Journal of Heat and Mass Transfer, 2017, 108, 1297-1304.	2.5	22
159	Modeling filtration performance of elliptical fibers with random distributions. Advanced Powder Technology, 2017, 28, 1193-1201.	2.0	16
160	Experimental study on the radiative properties of open-cell porous ceramics. Solar Energy, 2017, 149, 13-19.	2.9	29
161	Performance of natural draft hybrid cooling system of large scale steam turbine generator unit. Applied Thermal Engineering, 2017, 122, 227-244.	3.0	21
162	Anti-freezing of air-cooled heat exchanger by switching off sectors. Applied Thermal Engineering, 2017, 120, 327-339.	3.0	21

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163	Direct dry cooling system through hybrid ventilation for improving cooling efficiency in power plants. Applied Thermal Engineering, 2017, 119, 254-268.	3.0	14
164	Experimental study on heat transfer enhancement of wavy finned flat tubes by water spray cooling. International Journal of Heat and Mass Transfer, 2017, 110, 383-392.	2.5	21
165	Thermal conductivity of epoxy composites filled by thermally reduced graphite oxide with different reduction degree. Journal of Composite Materials, 2017, 51, 1743-1752.	1.2	25
166	A review of the concentrated photovoltaic/thermal (CPVT) hybrid solar systems based on the spectral beam splitting technology. Applied Energy, 2017, 187, 534-563.	5.1	221
167	Enhancing absorption properties of composite nanosphere and nanowire arrays by localized surface plasmon resonance shift. Results in Physics, 2017, 7, 87-94.	2.0	8
168	Parametric analysis of a hybrid solar concentrating photovoltaic/concentrating solar power (CPV/CSP) system. Applied Energy, 2017, 189, 520-533.	5.1	56
169	A review on the development of photovoltaic/concentrated solar power (PV-CSP) hybrid systems. Solar Energy Materials and Solar Cells, 2017, 161, 305-327.	3.0	165
170	Impacts of solar multiple on the performance of direct steam generation solar power tower plant with integrated thermal storage. Frontiers in Energy, 2017, 11, 461-471.	1.2	14
171	Aging properties of styrene-butadiene rubber nanocomposites filled with carbon black and rectorite. Polymer Testing, 2017, 64, 92-100.	2.3	48
172	Experimental study of inhalable particle concentration distribution in typical university canteens. Journal of Building Engineering, 2017, 14, 81-88.	1.6	7
173	A review of concentrated photovoltaic-thermal (CPVT) hybrid solar systems with waste heat recovery (WHR). Science Bulletin, 2017, 62, 1388-1426.	4.3	85
174	Ammonia escape mass transfer and heat transfer characteristics of CO2 absorption in packed absorbing column. Applied Energy, 2017, 205, 1596-1604.	5.1	18
175	Experimental investigations on radiative properties of two kinds of open-cell porous ceramic materials. AIP Conference Proceedings, 2017, , .	0.3	2
176	Volumetric solar heating and steam generation via gold nanofluids. Applied Energy, 2017, 206, 393-400.	5.1	136
177	Mass transfer performance of water recovery from flue gas of lignite boiler by composite membrane. International Journal of Heat and Mass Transfer, 2017, 115, 377-386.	2.5	20
178	Deposition pattern and tracer particle motion of evaporating multi-component sessile droplets. Journal of Colloid and Interface Science, 2017, 506, 83-92.	5.0	22
179	Modeling photocatalytic conversion of carbon dioxide in bubbling twin reactor. Energy Conversion and Management, 2017, 149, 514-525.	4.4	22
180	Circularly arranged air-cooled condensers to restrain adverse wind effects. Applied Thermal Engineering, 2017, 124, 202-223.	3.0	29

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