Haisheng Chen

List of Publications by Year
in descending order

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216 papers	13,528 citations	31902 53 h-index	22764 112 g-index
217 all docs	217 docs citations	217 times ranked	10715 citing authors

#	Article	IF	Citations
1	Progress in electrical energy storage system: A critical review. Progress in Natural Science: Materials International, 2009, 19, 291-312.	1.8	2,739
2	A benchmark study on the thermal conductivity of nanofluids. Journal of Applied Physics, 2009, 106, .	1.1	897
3	Heat transfer and flow behaviour of aqueous suspensions of TiO2 nanoparticles (nanofluids) flowing upward through a vertical pipe. International Journal of Heat and Mass Transfer, 2007, 50, 2272-2281.	2.5	812
4	Rheological behaviour of nanofluids. New Journal of Physics, 2007, 9, 367-367.	1.2	485
5	Rheological behaviour of ethylene glycol based titania nanofluids. Chemical Physics Letters, 2007, 444, 333-337.	1.2	430
6	Predicting thermal conductivity of liquid suspensions of nanoparticles (nanofluids) based on rheology. Particuology, 2009, 7, 151-157.	2.0	243
7	Heat transfer and flow behaviour of aqueous suspensions of titanate nanotubes (nanofluids). Powder Technology, 2008, 183, 63-72.	2.1	234
8	Hydrogen production from the thermochemical conversion of biomass: issues and challenges. Sustainable Energy and Fuels, 2019, 3, 314-342.	2.5	224
9	Dynamic simulation of Adiabatic Compressed Air Energy Storage (A-CAES) plant with integrated thermal storage â€“ Link between components performance and plant performance. Applied Energy, 2017, 185, 16-28.	5.1	205
10	Heat Transfer Intensification Using Nanofluids. KONA Powder and Particle Journal, 2007, 25, 23-38.	0.9	202
11	Hydrogen production from catalytic steam reforming of biodiesel byproduct glycerol: Issues and challenges. Renewable and Sustainable Energy Reviews, 2014, 30, 950-960.	8.2	193
12	Modelling study, efficiency analysis and optimisation of large-scale Adiabatic Compressed Air Energy Storage systems with low-temperature thermal storage. Applied Energy, 2016, 162, 589-600.	5.1	172
13	Solid sorbents for in-situ CO 2 removal during sorption-enhanced steam reforming process: A review. Renewable and Sustainable Energy Reviews, 2016, 53, 536-546.	8.2	171
14	Hydrogen production by sorption-enhanced steam reforming of glycerol. Bioresource Technology, 2009, 100, 3540-3547.	4.8	168
15	Thermogravimetric kinetics of crude glycerol. Bioresource Technology, 2009, 100, 2613-2620.	4.8	160
16	Thermodynamic characteristics of a novel supercritical compressed air energy storage system. Energy Conversion and Management, 2016, 115, 167-177.	4.4	159
17	Design of Hydrophobic Polyoxometalate Hybrid Assemblies Beyond Surfactant Encapsulation. Chemistry - A European Journal, 2008, 14, 2349-2354.	1.7	141
18	Hydrogen production by sorption-enhanced chemical looping steam reforming of ethanol in an alternating fixed-bed reactor: Sorbent to catalyst ratio dependencies. Energy Conversion and Management, 2018, 155, 243-252.	4.4	141

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19	Rheological behaviour of ethylene glycol-titanate nanotube nanofluids. Journal of Nanoparticle Research, 2009, 11, 1513-1520.	0.8	136
20	Forced convective heat transfer of nanofluids. Advanced Powder Technology, 2007, 18, 813-824.	2.0	132
21	Rheological behaviour of nanofluids containing tube / rod-like nanoparticles. Powder Technology, 2009, 194, 132-141.	2.1	126
22	Hydrogen production and reduction of Ni-based oxygen carriers during chemical looping steam reforming of ethanol in a fixed-bed reactor. International Journal of Hydrogen Energy, 2017, 42, 26217-26230.	3.8	121
23	Steam reforming of crude glycerol with in situ CO2 sorption. Bioresource Technology, 2010, 101, 2436-2442.	4.8	120
24	Thermodynamic analyses of adsorption-enhanced steam reforming of glycerol for hydrogen production. International Journal of Hydrogen Energy, 2009, 34, 7208-7222.	3.8	110
25	Experimental study on the melting and solidification behavior of erythritol in a vertical shell-and-tube latent heat thermal storage unit. International Journal of Heat and Mass Transfer, 2016, 99, 770-781.	2.5	110
26	Renewable energy carriers: Hydrogen or liquid air/nitrogen?. Applied Thermal Engineering, 2010, 30, 1985-1990.	3.0	104
27	Hydrogen production by enhanced-sorption chemical looping steam reforming of glycerol in moving-bed reactors. Applied Energy, 2014, 130, 342-349.	5.1	99
28	Renewable hydrogen production from steam reforming of glycerol by Niâ€“Cuâ€“Al, Niâ€“Cuâ€“Mg, Niâ€“Mg catalysts. International Journal of Hydrogen Energy, 2013, 38, 3562-3571.	3.8	94
29	Off-design performance and an optimal operation strategy for the multistage compression process in adiabatic compressed air energy storage systems. Applied Thermal Engineering, 2019, 149, 262-274.	3.0	93
30	Progress and prospects of thermo-mechanical energy storageâ€”a critical review. Progress in Energy, 2021, 3, 022001.	4.6	91
31	A comparative study on hydrogen production from steam-glycerol reforming: thermodynamics and experimental. Renewable Energy, 2011, 36, 779-788.	4.3	88
32	Hydrogen production from chemical looping steam reforming of glycerol by Ni-based oxygen carrier in a fixed-bed reactor. Chemical Engineering Journal, 2015, 280, 459-467.	6.6	86
33	Sodium nitrate â€“ Diatomite composite materials for thermal energy storage. Solar Energy, 2017, 146, 494-502.	2.9	84
34	Hydrogen production from steam reforming of glycerol by Niâ€“Mgâ€“Al based catalysts in a fixed-bed reactor. Chemical Engineering Journal, 2013, 220, 133-142.	6.6	82
35	Comparative study of the influences of different water tank shapes on thermal energy storage capacity and thermal stratification. Renewable Energy, 2016, 85, 31-44.	4.3	82
36	Research progress of hot gas filtration, desulphurization and HCl removal in coal-derived fuel gas: A review. Chemical Engineering Research and Design, 2012, 90, 1901-1917.	2.7	80

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37	Activity of Niâ€“Cuâ€“Al based catalyst for renewable hydrogen production from steam reforming of glycerol. Energy Conversion and Management, 2014, 78, 253-259.	4.4	76
38	Compressed air energy storage system with variable configuration for accommodating large-amplitude wind power fluctuation. Applied Energy, 2019, 239, 957-968.	5.1	76
39	Rheological and heat transfer behaviour of the ionic liquid, [C4mim][NTf2]. International Journal of Heat and Fluid Flow, 2008, 29, 149-155.	1.1	72
40	Comprehensive exergy analysis of the dynamic process of compressed air energy storage system with low-temperature thermal energy storage. Applied Thermal Engineering, 2019, 147, 684-693.	3.0	72
41	Sorption-enhanced steam reforming of glycerol on Ni-based multifunctional catalysts. International Journal of Hydrogen Energy, 2015, 40, 7037-7044.	3.8	71
42	Pyrolysis characteristics and non-isothermal kinetics of waste wood biomass. Energy, 2021, 226, 120358.	4.5	69
43	Fundamentals and applications of cryogen as a thermal energy carrier: A critical assessment. International Journal of Thermal Sciences, 2010, 49, 941-949.	2.6	68
44	A hybrid energy storage system with optimized operating strategy for mitigating wind power fluctuations. Renewable Energy, 2018, 125, 121-132.	4.3	67
45	Fluidized-bed gasification combined continuous sorption-enhanced steam reforming system to continuous hydrogen production from waste plastic. International Journal of Hydrogen Energy, 2016, 41, 3803-3810.	3.8	65
46	Effect of support on hydrogen production from chemical looping steam reforming of ethanol over Ni-based oxygen carriers. International Journal of Hydrogen Energy, 2016, 41, 17334-17347.	3.8	62
47	A near-isothermal expander for isothermal compressed air energy storage system. Applied Energy, 2018, 225, 955-964.	5.1	62
48	Enhanced hydrogen production by sorption-enhanced steam reforming from glycerol with in-situ CO 2 removal in a fixed-bed reactor. Fuel, 2016, 166, 340-346.	3.4	60
49	Continuous sorption-enhanced steam reforming of glycerol to high-purity hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 11902-11909.	3.8	59
50	Performance analysis of compressed air energy storage systems considering dynamic characteristics of compressed air storage. Energy, 2017, 135, 876-888.	4.5	58
51	Thermodynamic analytical solution and exergy analysis for supercritical compressed air energy storage system. Applied Energy, 2017, 199, 96-106.	5.1	57
52	Singleâ€Crystal SnSe Thermoelectric Fibers via Laserâ€Induced Directional Crystallization: From 1D Fibers to Multidimensional Fabrics. Advanced Materials, 2020, 32, e2002702.	11.1	57
53	Air fuelled zero emission road transportation: A comparative study. Applied Energy, 2011, 88, 337-342.	5.1	55
54	Hydrogen production by chemical looping steam reforming of ethanol using NiO/montmorillonite oxygen carriers in a fixed-bed reactor. Chemical Engineering Journal, 2016, 298, 96-106.	6.6	55

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55	Renewable hydrogen production from chemical looping steam reforming of ethanol using xCeNi/SBA-15 oxygen carriers in a fixed-bed reactor. International Journal of Hydrogen Energy, 2016, 41, 12899-12909.	3.8	55
56	Potential of â€˜nanofluidsâ€™ to further intensify microreactors. Green Chemistry, 2008, 10, 670.	4.6	54
57	Sorption enhanced steam reforming of biodiesel by-product glycerol on Ni-CaO-MMT multifunctional catalysts. Chemical Engineering Journal, 2017, 313, 207-216.	6.6	53
58	Cyclic transient behavior of the Jouleâ€“Brayton based pumped heat electricity storage: Modeling and analysis. Renewable and Sustainable Energy Reviews, 2019, 111, 523-534.	8.2	52
59	Techno-economic and social analysis of energy storage for commercial buildings. Energy Conversion and Management, 2014, 78, 125-136.	4.4	51
60	High Temperature CO₂ Sorption on Li₂ZrO₃ Based Sorbents. Industrial & Engineering Chemistry Research, 2014, 53, 12744-12752.	1.8	49
61	Hydrogen production from chemical looping steam reforming of glycerol by Ni based Al-MCM-41 oxygen carriers in a fixed-bed reactor. Fuel, 2016, 183, 170-176.	3.4	48
62	Studies on absorption and regeneration for CO2 capture by aqueous ammonia. International Journal of Greenhouse Gas Control, 2012, 6, 171-178.	2.3	47
63	Stability of nanofluids in quiescent and shear flow fields. Nanoscale Research Letters, 2011, 6, 231.	3.1	46
64	A solar energy storage and power generation system based onÂsupercritical carbon dioxide. Renewable Energy, 2014, 64, 43-51.	4.3	46
65	Distributed generation with energy storage systems: A case study. Applied Energy, 2017, 204, 1251-1263.	5.1	46
66	Heat Transfer and Rheological Behaviour of Nanofluids â€“ A Review. Advances in Transport Phenomena, 2009, , 135-177.	0.5	44
67	Highly dispersed Ni/montmorillonite catalyst for glycerol steam reforming: Effect of Ni loading and calcination temperature. Applied Thermal Engineering, 2016, 109, 99-108.	3.0	44
68	Unbalanced mass flow rate of packed bed thermal energy storage and its influence on the Joule-Brayton based Pumped Thermal Electricity Storage. Energy Conversion and Management, 2019, 185, 593-602.	4.4	44
69	Aqueous phase reforming of biodiesel byproduct glycerol over mesoporous Ni-Cu/CeO2 for renewable hydrogen production. Fuel, 2022, 308, 122014.	3.4	44
70	Study of cycle-to-cycle dynamic characteristics of adiabatic Compressed Air Energy Storage using packed bed Thermal Energy Storage. Energy, 2017, 141, 2120-2134.	4.5	42
71	Co-production system of hydrogen and electricity based on coal partial gasification with CO2 capture. International Journal of Hydrogen Energy, 2012, 37, 11805-11814.	3.8	41
72	Hybrid CCHP system combined with compressed air energy storage. International Journal of Energy Research, 2015, 39, 1807-1818.	2.2	40

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73	Cryogenic energy storage characteristics of a packed bed at different pressures. Applied Thermal Engineering, 2014, 63, 439-446.	3.0	38
74	Critical review of thermochemical energy storage systems based on cobalt, manganese, and copper oxides. Renewable and Sustainable Energy Reviews, 2022, 158, 112076.	8.2	37
75	High purity hydrogen production from sorption enhanced chemical looping glycerol reforming: Application of NiO-based oxygen transfer materials and potassium promoted Li2ZrO3 as CO2 sorbent. Applied Thermal Engineering, 2017, 124, 454-465.	3.0	36
76	Hydrogen sorption and desorption behaviors of Mg-Ni-Cu doped carbon nanotubes at high temperature. Energy, 2019, 167, 1097-1106.	4.5	36
77	Designer patterned functional fibers via direct imprinting in thermal drawing. Nature Communications, 2020, 11, 3842.	5.8	36
78	Study on forced convective heat transfer of non-newtonian nanofluids. Journal of Thermal Science, 2009, 18, 20-26.	0.9	35
79	Off-design performance of CAES systems with low-temperature thermal storage under optimized operation strategy. Journal of Energy Storage, 2019, 24, 100787.	3.9	35
80	Combined cooling, heating, and power generation performance of pumped thermal electricity storage system based on Brayton cycle. Applied Energy, 2020, 278, 115607.	5.1	35
81	Dynamic characteristics and control of supercritical compressed air energy storage systems. Applied Energy, 2021, 283, 116294.	5.1	35
82	Pyrolysis characteristics of sucrose biomass in a tubular reactor and a thermogravimetric analysis. Fuel, 2012, 95, 425-430.	3.4	34
83	An integrated system for thermal power generation, electrical energy storage and CO2 capture. International Journal of Energy Research, 2011, 35, 1158-1167.	2.2	33
84	Experimental study on heat storage and transfer characteristics of supercritical air in a rock bed. International Journal of Heat and Mass Transfer, 2014, 77, 883-890.	2.5	33
85	Study on the performance and optimization of a scroll expander driven by compressed air. Applied Energy, 2017, 186, 347-358.	5.1	32
86	Removal of toxic mercury(II) from aquatic solutions by synthesized TiO2 nanoparticles. Desalination, 2011, 269, 260-265.	4.0	31
87	Experimental study on natural convective heat transfer of tube immersed in microencapsulated phase change material suspensions. Applied Thermal Engineering, 2016, 99, 583-590.	3.0	31
88	Compression performance optimization considering variable charge pressure in an adiabatic compressed air energy storage system. Energy, 2018, 165, 349-359.	4.5	31
89	Co-production of hydrogen and syngas from chemical looping water splitting coupled with decomposition of glycerol using Fe-Ce-Ni based oxygen carriers. Energy Conversion and Management, 2021, 238, 114166.	4.4	31
90	Progress in measurement of thermoelectric properties of micro/nano thermoelectric materials: A critical review. Nano Energy, 2022, 101, 107553.	8.2	31

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91	Kinetic Study on Non-isothermal Pyrolysis of Sucrose Biomass. Energy & Fuels, 2014, 28, 3793-3801.	2.5	30
92	Investigation of Ni/SiO2 catalysts prepared at different conditions for hydrogen production from ethanol steam reforming. Journal of the Energy Institute, 2017, 90, 276-284.	2.7	30
93	Economic analysis of using above ground gas storage devices for compressed air energy storage system. Journal of Thermal Science, 2014, 23, 535-543.	0.9	28
94	Value and economic estimation model for grid-scale energy storage in monopoly power markets. Applied Energy, 2019, 240, 986-1002.	5.1	27
95	Brayton-cycle-based pumped heat electricity storage with innovative operation mode of thermal energy storage array. Applied Energy, 2021, 291, 116821.	5.1	27
96	Progress in low temperature hydrogen production with simultaneous CO2 abatement. Chemical Engineering Research and Design, 2011, 89, 1774-1782.	2.7	26
97	Performance study of a packed bed in a closed loop thermal energy storage system. Energy, 2014, 77, 871-879.	4.5	26
98	Corresponding-point methodology for physical energy storage system analysis and application to compressed air energy storage system. Energy, 2018, 143, 772-784.	4.5	26
99	Relationship between the thermal conductivity and shear viscosity of nanofluids. Physica Scripta, 2010, 2010, 014078.	1.2	25
100	Performance analysis of biofuel fired trigeneration systems with energy storage for remote households. Applied Energy, 2017, 186, 530-538.	5.1	25
101	Heat transfer of gasâ€“solid two-phase mixtures flowing through a packed bed under constant wall heat flux conditions. Chemical Engineering Journal, 2007, 130, 1-10.	6.6	24
102	Heat transfer characteristics of a natural circulation separate heat pipe under various operating conditions. International Journal of Heat and Mass Transfer, 2018, 126, 191-200.	2.5	24
103	Numerical analysis of a closed loop two-phase thermosyphon under states of single-phase, two-phase and supercritical. International Journal of Heat and Mass Transfer, 2019, 135, 354-367.	2.5	24
104	Optimal hydraulic design of an ultra-low specific speed centrifugal pump based on the local entropy production theory. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 715-726.	0.8	24
105	Numerical investigations of optimal phase change material incorporated into ventilated walls. Energy, 2019, 172, 1187-1197.	4.5	24
106	Numerical investigation on heat transfer of the supercritical fluid upward in vertical tube with constant wall temperature. International Journal of Heat and Mass Transfer, 2019, 128, 875-884.	2.5	24
107	Transmission characteristics of exergy for novel compressed air energy storage systems-from compression and expansion sections to the whole system. Energy, 2020, 193, 116798.	4.5	24
108	Experimental investigation on off-design performance and adjustment strategies of the centrifugal compressor in compressed air energy storage system. Journal of Energy Storage, 2021, 38, 102515.	3.9	24

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109	Offâ€design performance and operation strategy of expansion process in compressed air energy systems. International Journal of Energy Research, 2019, 43, 475-490.	2.2	23
110	Process intensification and integration of solar heat generation in the Chinese condiment sector â€“ A case study of a medium sized Beijing based factory. Energy Conversion and Management, 2015, 106, 1295-1308.	4.4	21
111	Rheology of Nanofluids: A Review. Recent Patents on Nanotechnology, 2013, 7, 232-246.	0.7	21
112	Thermally drawn multifunctional fibers: Toward the next generation of information technology. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	21
113	Thermodynamic analysis on compressed air energy storage augmenting power / polygeneration for roundtrip efficiency enhancement. Energy, 2019, 180, 107-120.	4.5	20
114	Experimental Study on Thermal Conductivity and Rectification in Suspended Monolayer MoS₂. ACS Applied Materials & Interfaces, 2020, 12, 28306-28312.	4.0	20
115	Experimental study on thermal conductivity and rectification of monolayer and multilayer MoS2. International Journal of Heat and Mass Transfer, 2021, 170, 121013.	2.5	20
116	Heat transfer of gasâ€“solid two-phase mixtures flowing through a packed bed. Chemical Engineering Science, 2007, 62, 4241-4249.	1.9	17
117	Coupling properties of thermodynamics and economics of underwater compressed air energy storage systems with flexible heat exchanger model. Journal of Energy Storage, 2021, 43, 103198.	3.9	17
118	An investigation of an uninterruptible power supply (UPS) based on supercapacitor and liquid nitrogen hybridization system. Energy Conversion and Management, 2014, 85, 784-792.	4.4	16
119	Study of a single-valve reciprocating expander. Journal of the Energy Institute, 2016, 89, 400-413.	2.7	16
120	Experimental and Numerical Investigations of Closed Radial Inflow Turbine With Labyrinth Seals. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	16
121	Finite-time thermodynamics modeling and analysis on compressed air energy storage systems with thermal storage. Renewable and Sustainable Energy Reviews, 2021, 138, 110656.	8.2	16
122	Influences of Blade Bowing on Flowfields of Turbine Stator Cascades. AIAA Journal, 2003, 41, 1967-1972.	1.5	15
123	Hydrodynamics and heat transfer of gasâ€“solid two-phase mixtures flowing through packed beds â€“ a review. Progress in Natural Science: Materials International, 2008, 18, 1185-1196.	1.8	15
124	Aerothermal Investigation of Backface Clearance Flow in Deeply Scalloped Radial Turbines. Journal of Turbomachinery, 2013, 135, .	0.9	15
125	Thermodynamic analysis of the cascaded packed bed cryogenic storage based supercritical air energy storage system. Energy Procedia, 2019, 158, 5079-5085.	1.8	15
126	Chemical looping steam reforming of ethanol without and with in-situ CO2 capture. International Journal of Hydrogen Energy, 2022, 47, 6552-6568.	3.8	15

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127	Performance and economy of trigenerative adiabatic compressed air energy storage system based on multi-parameter analysis. Energy, 2022, 238, 121695.	4.5	14
128	Thermodynamic Analysis of Packed Bed Thermal Energy Storage System. Journal of Thermal Science, 2020, 29, 445-456.	0.9	13
129	Thermochemical characteristics and non-isothermal kinetics of camphor biomass waste. Journal of Environmental Chemical Engineering, 2021, 9, 105311.	3.3	13
130	Experimental and numerical investigation on off-design performance of a high-pressure centrifugal compressor in compressed air energy storage system. Journal of Energy Storage, 2022, 53, 105081.	3.9	13
131	Thermo-Economic Modeling and Evaluation of Physical Energy Storage in Power System. Journal of Thermal Science, 2021, 30, 1861-1874.	0.9	12
132	Effect of blade tip leakage flow on erosion of a radial inflow turbine for compressed air energy storage system. Energy, 2019, 178, 195-206.	4.5	11
133	Numerical study on wet compression in a supercritical air centrifugal compressor. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 384-397.	0.8	11
134	Influences of wear-ring clearance leakage on performance of a small-scale pump-turbine. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 454-469.	0.8	11
135	Performance analysis of a novel adiabatic compressed air energy system with ejectors enhanced charging process. Energy, 2020, 205, 118050.	4.5	11
136	New Progress on Fiber-Based Thermoelectric Materials: Performance, Device Structures and Applications. Materials, 2021, 14, 6306.	1.3	11
137	Hydrogen and syngas co-production by coupling of chemical looping water splitting and glycerol oxidation reforming using Ceâ€“Ni modified Fe-based oxygen carriers. Journal of Cleaner Production, 2022, 335, 130299.	4.6	11
138	Kinetics of nanoparticle synthesis by liquidâ€“liquid interfacial reaction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 343, 3-7.	2.3	10
139	Blade Bowing Effect on Aerodynamic Performance of a Highly Loaded Turbine Cascade. Journal of Propulsion and Power, 2010, 26, 604-608.	1.3	10
140	Investigation of clearance flows in deeply scalloped radial turbines. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2012, 226, 951-962.	0.8	10
141	Compressed air energy storage system with variable configuration for wind power generation. Energy Procedia, 2017, 142, 3356-3362.	1.8	10
142	Thermal-mechanical coefficient analysis of adiabatic compressor and expander in compressed air energy storage systems. Energy, 2022, 244, 122993.	4.5	10
143	Convective heat transfer characters of nanoparticle enhanced latent functionally thermal fluid. Science in China Series D: Earth Sciences, 2009, 52, 1744-1750.	0.9	9
144	Numerical Study of a Quasi-isothermal Expander by Spraying Water. Energy Procedia, 2017, 142, 3388-3393.	1.8	9

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145	The Effect of Wet Compression on a Centrifugal Compressor for a Compressed Air Energy Storage System. Energies, 2019, 12, 906.	1.6	9
146	Technical and economic analysis of Brayton-cycle-based pumped thermal electricity storage systems with direct and indirect thermal energy storage. Energy, 2022, 239, 121966.	4.5	9
147	Analytic optimization of Jouleâ€“Brayton cycle-based pumped thermal electricity storage system. Journal of Energy Storage, 2022, 47, 103663.	3.9	9
148	Synthesis and characterization of heterostructured nanohybrid of MgOâ€“TiO2â€“Al2O3/montmorillonite. Materials Chemistry and Physics, 2011, 130, 63-66.	2.0	8
149	Stability and Thermophysical Properties of Binary Propanolâ€“Water Mixtures-Based Microencapsulated Phase Change Material Suspensions. Journal of Heat Transfer, 2015, 137, .	1.2	8
150	Storing Energy in Chinaâ€”An Overview. , 2016, , 509-527.		8
151	Flow characteristic of a multistage radial turbine for supercritical compressed air energy storage system. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2018, 232, 622-640.	0.8	8
152	Flow analysis and performance improvement of a radial inflow turbine with back cavity under variable operation condition of compressed air energy storage. International Journal of Energy Research, 2019, 43, 6396-6408.	2.2	8
153	Efficiency improvement of a CAES low aspect ratio radial inflow turbine by NACA blade profile. Renewable Energy, 2019, 138, 1214-1231.	4.3	8
154	Estimating the Economics of Electrical Energy Storage Based on Different Policies in China. Journal of Thermal Science, 2020, 29, 352-364.	0.9	8
155	Reynolds-Averaged Navier-Stokes Equations Describing Turbulent Flow and Heat Transfer Behavior for Supercritical Fluid. Journal of Thermal Science, 2021, 30, 191-200.	0.9	8
156	Thermodynamic research on compressed air energy storage system with turbines under sliding pressure operation. Energy, 2021, 222, 119978.	4.5	8
157	Characterization of dynamic fluctuations of CO2 fluid parameters at critical regions near the pseudo-critical line. Physics of Fluids, 2022, 34, .	1.6	8
158	Concise analytical solution and optimization of compressed air energy storage systems with thermal storage. Energy, 2022, 258, 124773.	4.5	8
159	Influence of tip clearance on performance of a contra-rotating fan. Journal of Thermal Science, 2009, 18, 207-214.	0.9	7
160	Design of a Centrifugal Compressor with Low Solidity Vaned Diffuser (LSVD) for Large-Scale Compressed Air Energy Storage (CAES). Journal of Thermal Science, 2020, 29, 423-434.	0.9	7
161	Flow characteristics of an axial turbine with chamber and diffuser adopted in compressed air energy storage system. Energy Reports, 2020, 6, 45-57.	2.5	7
162	Analysis of Shroud Cavity Leakage in a Radial Turbine for Optimal Operation in Compressed Air Energy Storage System. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	0.5	7

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163	Preliminary design and performance analysis of the liquid turbine for supercritical compressed air energy storage systems. Applied Thermal Engineering, 2022, 203, 117891.	3.0	7
164	Thermal Rectifier and Thermal Transistor of 1T/2H MoS₂ for Heat Flow Management. ACS Applied Materials & Interfaces, 2022, 14, 4434-4442.	4.0	7
165	Asymptotic analysis of boundary thermal-wave process near the liquidâ€“gas critical point. Physics of Fluids, 2022, 34, .	1.6	7
166	Numerical study on thermal performance characteristics of a cascaded latent heat storage unit. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2016, 230, 126-137.	0.8	6
167	Experimental investigation of a liquid turbine in a full performance test rig. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 337-345.	0.8	6
168	Synergy Methodology for Internal Flow of Turbomachinery. Journal of Thermal Science, 2020, 29, 730-742.	0.9	6
169	Energy and exergy analysis of compressed air engine systems. Energy Reports, 2021, 7, 2316-2323.	2.5	6
170	Recent Advances in Thermal Conductivity of Nanofluids. Recent Patents on Nanotechnology, 2013, 7, 198-207.	0.7	6
171	Unsteady characteristics of compressed air energy storage systems with thermal storage from thermodynamic perspective. Energy, 2022, 244, 122969.	4.5	6
172	Performance and flow characteristics of the liquid turbine for supercritical compressed air energy storage system. Applied Thermal Engineering, 2022, 211, 118491.	3.0	6
173	Heat transfer characteristics of mixed convection in packed beds. Chemical Engineering Science, 2022, 255, 117679.	1.9	6
174	Flowfield and Aerodynamic Performance of a Turbine Stator Cascade with Bowed Blades. AIAA Journal, 2004, 42, 2170-2171.	1.5	5
175	Design and Performance Analysis of the Distributed Generation System Based on a Diesel Engine and Compressed Air Energy Storage. Energy Procedia, 2017, 105, 4492-4498.	1.8	5
176	Simulation Study of an ORC System Driven by the Waste Heat Recovered from a Trigeneration System. Energy Procedia, 2017, 105, 5040-5047.	1.8	5
177	Cryogenic Energy Storage and Its Integration With Nuclear Power Generation for Load Shift. , 2019, , 249-273.		5
178	The influence of charging process on trigenerative performance of compressed air energy storage system. International Journal of Energy Research, 2021, 45, 17133-17145.	2.2	5
179	Effect of chamber roughness and local smoothing on performance of a CAES axial turbine. Renewable Energy, 2021, 170, 500-516.	4.3	5
180	Flow characteristics of impeller backside cavity and its effects on the centrifugal compressor for compressed air energy storage. Journal of Energy Storage, 2022, 49, 104024.	3.9	5

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