

Haisheng Chen

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206
papers

10,228
citations

45
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98
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217
ext. papers

11,913
ext. citations

6.2
avg, IF

6.29
L-index

#	Paper	IF	Citations
206	Progress in electrical energy storage system: A critical review. <i>Progress in Natural Science: Materials International</i> , 2009 , 19, 291-312	3.6	2089
205	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , 2009 , 106, 094313	3.7	766
204	Heat transfer and flow behaviour of aqueous suspensions of TiO ₂ nanoparticles (nanofluids) flowing upward through a vertical pipe. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 2272-2281	4.9	707
203	Rheological behaviour of nanofluids. <i>New Journal of Physics</i> , 2007 , 9, 367-367	2.9	411
202	Rheological behaviour of ethylene glycol based titania nanofluids. <i>Chemical Physics Letters</i> , 2007 , 444, 333-337	2.5	359
201	Predicting thermal conductivity of liquid suspensions of nanoparticles (nanofluids) based on rheology. <i>Particuology</i> , 2009 , 7, 151-157	2.8	210
200	Heat transfer and flow behaviour of aqueous suspensions of titanate nanotubes (nanofluids). <i>Powder Technology</i> , 2008 , 183, 63-72	5.2	205
199	Heat Transfer Intensification Using Nanofluids. <i>KONA Powder and Particle Journal</i> , 2007 , 25, 23-38	3.4	171
198	Hydrogen production from catalytic steam reforming of biodiesel byproduct glycerol: Issues and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 30, 950-960	16.2	170
197	Hydrogen production by sorption-enhanced steam reforming of glycerol. <i>Bioresource Technology</i> , 2009 , 100, 3540-7	11	147
196	Hydrogen production from the thermochemical conversion of biomass: issues and challenges. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 314-342	5.8	142
195	Solid sorbents for in-situ CO ₂ removal during sorption-enhanced steam reforming process: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 536-546	16.2	141
194	Design of hydrophobic polyoxometalate hybrid assemblies beyond surfactant encapsulation. <i>Chemistry - A European Journal</i> , 2008 , 14, 2349-54	4.8	134
193	Dynamic simulation of Adiabatic Compressed Air Energy Storage (A-CAES) plant with integrated thermal storage Link between components performance and plant performance. <i>Applied Energy</i> , 2017 , 185, 16-28	10.7	133
192	Thermogravimetric kinetics of crude glycerol. <i>Bioresource Technology</i> , 2009 , 100, 2613-20	11	132
191	Modelling study, efficiency analysis and optimisation of large-scale Adiabatic Compressed Air Energy Storage systems with low-temperature thermal storage. <i>Applied Energy</i> , 2016 , 162, 589-600	10.7	127
190	Rheological behaviour of ethylene glycol-titanate nanotube nanofluids. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 1513-1520	2.3	120

189	Forced convective heat transfer of nanofluids. <i>Advanced Powder Technology</i> , 2007 , 18, 813-824	4.6	117
188	Thermodynamic characteristics of a novel supercritical compressed air energy storage system. <i>Energy Conversion and Management</i> , 2016 , 115, 167-177	10.6	115
187	Hydrogen production by sorption-enhanced chemical looping steam reforming of ethanol in an alternating fixed-bed reactor: Sorbent to catalyst ratio dependencies. <i>Energy Conversion and Management</i> , 2018 , 155, 243-252	10.6	114
186	Steam reforming of crude glycerol with in situ CO(2) sorption. <i>Bioresource Technology</i> , 2010 , 101, 2436-441	4.1	112
185	Hydrogen production and reduction of Ni-based oxygen carriers during chemical looping steam reforming of ethanol in a fixed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 26217-26230	6.7	108
184	Rheological behaviour of nanofluids containing tube / rod-like nanoparticles. <i>Powder Technology</i> , 2009 , 194, 132-141	5.2	107
183	Thermodynamic analyses of adsorption-enhanced steam reforming of glycerol for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7208-7222	6.7	98
182	Renewable hydrogen production from steam reforming of glycerol by NiCuAl, NiCuMg, NiMg catalysts. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 3562-3571	6.7	85
181	Renewable energy carriers: Hydrogen or liquid air/nitrogen?. <i>Applied Thermal Engineering</i> , 2010 , 30, 1985-1990	5.82	82
180	Hydrogen production from chemical looping steam reforming of glycerol by Ni-based oxygen carrier in a fixed-bed reactor. <i>Chemical Engineering Journal</i> , 2015 , 280, 459-467	14.7	77
179	Hydrogen production by enhanced-sorption chemical looping steam reforming of glycerol in moving-bed reactors. <i>Applied Energy</i> , 2014 , 130, 342-349	10.7	77
178	Experimental study on the melting and solidification behavior of erythritol in a vertical shell-and-tube latent heat thermal storage unit. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 770-781	4.9	77
177	A comparative study on hydrogen production from steam-glycerol reforming: thermodynamics and experimental. <i>Renewable Energy</i> , 2011 , 36, 779-788	8.1	74
176	Hydrogen production from steam reforming of glycerol by NiMgAl based catalysts in a fixed-bed reactor. <i>Chemical Engineering Journal</i> , 2013 , 220, 133-142	14.7	73
175	Research progress of hot gas filtration, desulphurization and HCl removal in coal-derived fuel gas: A review. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 1901-1917	5.5	69
174	Sorption-enhanced steam reforming of glycerol on Ni-based multifunctional catalysts. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 7037-7044	6.7	66
173	Rheological and heat transfer behaviour of the ionic liquid, [C4mim][NTf2]. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 149-155	2.4	65
172	Activity of NiCuAl based catalyst for renewable hydrogen production from steam reforming of glycerol. <i>Energy Conversion and Management</i> , 2014 , 78, 253-259	10.6	59

171	Fundamentals and applications of cryogen as a thermal energy carrier: A critical assessment. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 941-949	4.1	59
170	Comparative study of the influences of different water tank shapes on thermal energy storage capacity and thermal stratification. <i>Renewable Energy</i> , 2016 , 85, 31-44	8.1	52
169	Continuous sorption-enhanced steam reforming of glycerol to high-purity hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 11902-11909	6.7	52
168	Effect of support on hydrogen production from chemical looping steam reforming of ethanol over Ni-based oxygen carriers. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 17334-17347	6.7	51
167	Fluidized-bed gasification combined continuous sorption-enhanced steam reforming system to continuous hydrogen production from waste plastic. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3803-3810	6.7	49
166	Air fuelled zero emission road transportation: A comparative study. <i>Applied Energy</i> , 2011 , 88, 337-342	10.7	49
165	Off-design performance and an optimal operation strategy for the multistage compression process in adiabatic compressed air energy storage systems. <i>Applied Thermal Engineering</i> , 2019 , 149, 262-274	5.8	49
164	Enhanced hydrogen production by sorption-enhanced steam reforming from glycerol with in-situ CO ₂ removal in a fixed-bed reactor. <i>Fuel</i> , 2016 , 166, 340-346	7.1	48
163	Hydrogen production by chemical looping steam reforming of ethanol using NiO/montmorillonite oxygen carriers in a fixed-bed reactor. <i>Chemical Engineering Journal</i> , 2016 , 298, 96-106	14.7	47
162	Compressed air energy storage system with variable configuration for accommodating large-amplitude wind power fluctuation. <i>Applied Energy</i> , 2019 , 239, 957-968	10.7	47
161	Sodium nitrate/Diatomite composite materials for thermal energy storage. <i>Solar Energy</i> , 2017 , 146, 494-502	6.8	45
160	Renewable hydrogen production from chemical looping steam reforming of ethanol using xCeNi/SBA-15 oxygen carriers in a fixed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 12899-12909	6.7	45
159	Techno-economic and social analysis of energy storage for commercial buildings. <i>Energy Conversion and Management</i> , 2014 , 78, 125-136	10.6	45
158	Comprehensive exergy analysis of the dynamic process of compressed air energy storage system with low-temperature thermal energy storage. <i>Applied Thermal Engineering</i> , 2019 , 147, 684-693	5.8	45
157	Potential of nanofluids to further intensify microreactors. <i>Green Chemistry</i> , 2008 , 10, 670	10	44
156	Studies on absorption and regeneration for CO ₂ capture by aqueous ammonia. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 6, 171-178	4.2	42
155	High Temperature CO ₂ Sorption on Li ₂ ZrO ₃ Based Sorbents. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12744-12752	3.9	41
154	Stability of nanofluids in quiescent and shear flow fields. <i>Nanoscale Research Letters</i> , 2011 , 6, 231	5	41

153	Sorption enhanced steam reforming of biodiesel by-product glycerol on Ni-CaO-MMT multifunctional catalysts. <i>Chemical Engineering Journal</i> , 2017 , 313, 207-216	14.7	40
152	Performance analysis of compressed air energy storage systems considering dynamic characteristics of compressed air storage. <i>Energy</i> , 2017 , 135, 876-888	7.9	39
151	A hybrid energy storage system with optimized operating strategy for mitigating wind power fluctuations. <i>Renewable Energy</i> , 2018 , 125, 121-132	8.1	38
150	A near-isothermal expander for isothermal compressed air energy storage system. <i>Applied Energy</i> , 2018 , 225, 955-964	10.7	37
149	Thermodynamic analytical solution and exergy analysis for supercritical compressed air energy storage system. <i>Applied Energy</i> , 2017 , 199, 96-106	10.7	36
148	Hydrogen production from chemical looping steam reforming of glycerol by Ni based Al-MCM-41 oxygen carriers in a fixed-bed reactor. <i>Fuel</i> , 2016 , 183, 170-176	7.1	36
147	Heat Transfer and Rheological Behaviour of Nanofluids [A Review]. <i>Advances in Transport Phenomena</i> , 2009 , 135-177		36
146	Highly dispersed Ni/montmorillonite catalyst for glycerol steam reforming: Effect of Ni loading and calcination temperature. <i>Applied Thermal Engineering</i> , 2016 , 109, 99-108	5.8	35
145	Distributed generation with energy storage systems: A case study. <i>Applied Energy</i> , 2017 , 204, 1251-1263	10.7	34
144	Co-production system of hydrogen and electricity based on coal partial gasification with CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 11805-11814	6.7	34
143	A solar energy storage and power generation system based on supercritical carbon dioxide. <i>Renewable Energy</i> , 2014 , 64, 43-51	8.1	33
142	Hybrid CCHP system combined with compressed air energy storage. <i>International Journal of Energy Research</i> , 2015 , 39, 1807-1818	4.5	32
141	Study on forced convective heat transfer of non-newtonian nanofluids. <i>Journal of Thermal Science</i> , 2009 , 18, 20-26	1.9	30
140	Removal of toxic mercury(II) from aquatic solutions by synthesized TiO ₂ nanoparticles. <i>Desalination</i> , 2011 , 269, 260-265	10.3	29
139	Cryogenic energy storage characteristics of a packed bed at different pressures. <i>Applied Thermal Engineering</i> , 2014 , 63, 439-446	5.8	28
138	Pyrolysis characteristics of sucrose biomass in a tubular reactor and a thermogravimetric analysis. <i>Fuel</i> , 2012 , 95, 425-430	7.1	28
137	An integrated system for thermal power generation, electrical energy storage and CO ₂ capture. <i>International Journal of Energy Research</i> , 2011 , 35, 1158-1167	4.5	28
136	Cyclic transient behavior of the Joule-Brayton based pumped heat electricity storage: Modeling and analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 111, 523-534	16.2	27

135	Study of cycle-to-cycle dynamic characteristics of adiabatic Compressed Air Energy Storage using packed bed Thermal Energy Storage. <i>Energy</i> , 2017 , 141, 2120-2134	7.9	27
134	Investigation of Ni/SiO ₂ catalysts prepared at different conditions for hydrogen production from ethanol steam reforming. <i>Journal of the Energy Institute</i> , 2017 , 90, 276-284	5.7	26
133	Hydrogen sorption and desorption behaviors of Mg-Ni-Cu doped carbon nanotubes at high temperature. <i>Energy</i> , 2019 , 167, 1097-1106	7.9	26
132	High purity hydrogen production from sorption enhanced chemical looping glycerol reforming: Application of NiO-based oxygen transfer materials and potassium promoted Li ₂ ZrO ₃ as CO ₂ sorbent. <i>Applied Thermal Engineering</i> , 2017 , 124, 454-465	5.8	25
131	Single-Crystal SnSe Thermoelectric Fibers via Laser-Induced Directional Crystallization: From 1D Fibers to Multidimensional Fabrics. <i>Advanced Materials</i> , 2020 , 32, e2002702	24	25
130	Experimental study on natural convective heat transfer of tube immersed in microencapsulated phase change material suspensions. <i>Applied Thermal Engineering</i> , 2016 , 99, 583-590	5.8	24
129	Experimental study on heat storage and transfer characteristics of supercritical air in a rock bed. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 77, 883-890	4.9	24
128	Study on the performance and optimization of a scroll expander driven by compressed air. <i>Applied Energy</i> , 2017 , 186, 347-358	10.7	23
127	Kinetic Study on Non-isothermal Pyrolysis of Sucrose Biomass. <i>Energy & Fuels</i> , 2014 , 28, 3793-3801	4.1	23
126	Relationship between the thermal conductivity and shear viscosity of nanofluids. <i>Physica Scripta</i> , 2010 , T139, 014078	2.6	23
125	Heat transfer of gas-solid two-phase mixtures flowing through a packed bed under constant wall heat flux conditions. <i>Chemical Engineering Journal</i> , 2007 , 130, 1-10	14.7	23
124	Unbalanced mass flow rate of packed bed thermal energy storage and its influence on the Joule-Brayton based Pumped Thermal Electricity Storage. <i>Energy Conversion and Management</i> , 2019 , 185, 593-602	10.6	23
123	Progress in low temperature hydrogen production with simultaneous CO ₂ abatement. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 1774-1782	5.5	22
122	Off-design performance of CAES systems with low-temperature thermal storage under optimized operation strategy. <i>Journal of Energy Storage</i> , 2019 , 24, 100787	7.8	20
121	Designer patterned functional fibers via direct imprinting in thermal drawing. <i>Nature Communications</i> , 2020 , 11, 3842	17.4	19
120	Progress and prospects of thermo-mechanical energy storage – critical review. <i>Progress in Energy</i> , 2021 , 3, 022001	7.7	19
119	Corresponding-point methodology for physical energy storage system analysis and application to compressed air energy storage system. <i>Energy</i> , 2018 , 143, 772-784	7.9	18
118	Performance study of a packed bed in a closed loop thermal energy storage system. <i>Energy</i> , 2014 , 77, 871-879	7.9	18

117	Process intensification and integration of solar heat generation in the Chinese condiment sector □ A case study of a medium sized Beijing based factory. <i>Energy Conversion and Management</i> , 2015 , 106, 1295-1308	10.6	18
116	Compression performance optimization considering variable charge pressure in an adiabatic compressed air energy storage system. <i>Energy</i> , 2018 , 165, 349-359	7.9	18
115	Performance analysis of biofuel fired trigeneration systems with energy storage for remote households. <i>Applied Energy</i> , 2017 , 186, 530-538	10.7	17
114	Heat transfer of gas-solid two-phase mixtures flowing through a packed bed. <i>Chemical Engineering Science</i> , 2007 , 62, 4241-4249	4.4	17
113	Combined cooling, heating, and power generation performance of pumped thermal electricity storage system based on Brayton cycle. <i>Applied Energy</i> , 2020 , 278, 115607	10.7	17
112	Numerical investigations of optimal phase change material incorporated into ventilated walls. <i>Energy</i> , 2019 , 172, 1187-1197	7.9	17
111	Heat transfer characteristics of a natural circulation separate heat pipe under various operating conditions. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 191-200	4.9	16
110	Economic analysis of using above ground gas storage devices for compressed air energy storage system. <i>Journal of Thermal Science</i> , 2014 , 23, 535-543	1.9	16
109	Pyrolysis characteristics and non-isothermal kinetics of waste wood biomass. <i>Energy</i> , 2021 , 226, 120358	7.9	16
108	Rheology of nanofluids: a review. <i>Recent Patents on Nanotechnology</i> , 2013 , 7, 232-46	1.2	15
107	Transmission characteristics of exergy for novel compressed air energy storage systems-from compression and expansion sections to the whole system. <i>Energy</i> , 2020 , 193, 116798	7.9	15
106	Numerical investigation on heat transfer of the supercritical fluid upward in vertical tube with constant wall temperature. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 128, 875-884	4.9	15
105	Aerothermal Investigation of Backface Clearance Flow in Deeply Scalloped Radial Turbines. <i>Journal of Turbomachinery</i> , 2013 , 135,	1.8	14
104	Influences of Blade Bowing on Flowfields of Turbine Stator Cascades. <i>AIAA Journal</i> , 2003 , 41, 1967-1972	2.1	14
103	Study of a single-valve reciprocating expander. <i>Journal of the Energy Institute</i> , 2016 , 89, 400-413	5.7	13
102	Thermodynamic analysis on compressed air energy storage augmenting power / polygeneration for roundtrip efficiency enhancement. <i>Energy</i> , 2019 , 180, 107-120	7.9	13
101	An investigation of an uninterruptible power supply (UPS) based on supercapacitor and liquid nitrogen hybridization system. <i>Energy Conversion and Management</i> , 2014 , 85, 784-792	10.6	13
100	Value and economic estimation model for grid-scale energy storage in monopoly power markets. <i>Applied Energy</i> , 2019 , 240, 986-1002	10.7	12

99	Optimal hydraulic design of an ultra-low specific speed centrifugal pump based on the local entropy production theory. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019 , 233, 715-726	1.6	12
98	Aqueous phase reforming of biodiesel byproduct glycerol over mesoporous Ni-Cu/CeO ₂ for renewable hydrogen production. <i>Fuel</i> , 2022 , 308, 122014	7.1	12
97	Hydrodynamics and heat transfer of gas-solid two-phase mixtures flowing through packed beds – a review. <i>Progress in Natural Science: Materials International</i> , 2008 , 18, 1185-1196	3.6	11
96	Co-production of hydrogen and syngas from chemical looping water splitting coupled with decomposition of glycerol using Fe-Ce-Ni based oxygen carriers. <i>Energy Conversion and Management</i> , 2021 , 238, 114166	10.6	11
95	Dynamic characteristics and control of supercritical compressed air energy storage systems. <i>Applied Energy</i> , 2021 , 283, 116294	10.7	11
94	Numerical analysis of a closed loop two-phase thermosyphon under states of single-phase, two-phase and supercritical. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 354-367	4.9	10
93	Experimental and Numerical Investigations of Closed Radial Inflow Turbine With Labyrinth Seals. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018 , 140,	1.7	10
92	Investigation of clearance flows in deeply scalloped radial turbines. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2012 , 226, 951-962	1.6	10
91	Experimental Study on Thermal Conductivity and Rectification in Suspended Monolayer MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28306-28312	9.5	9
90	Kinetics of nanoparticle synthesis by liquid-liquid interfacial reaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 343, 3-7	5.1	9
89	Numerical Study of a Quasi-isothermal Expander by Spraying Water. <i>Energy Procedia</i> , 2017 , 142, 3388-3393	3.3	8
88	Synthesis and characterization of heterostructured nanohybrid of MgO@TiO ₂ @Al ₂ O ₃ /montmorillonite. <i>Materials Chemistry and Physics</i> , 2011 , 130, 63-66	4.4	8
87	Convective heat transfer characters of nanoparticle enhanced latent functionally thermal fluid. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 1744-1750		8
86	Numerical study on wet compression in a supercritical air centrifugal compressor. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2020 , 234, 384-397	1.6	8
85	Thermodynamic analysis of the cascaded packed bed cryogenic storage based supercritical air energy storage system. <i>Energy Procedia</i> , 2019 , 158, 5079-5085	2.3	7
84	Flow characteristic of a multistage radial turbine for supercritical compressed air energy storage system. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2018 , 232, 622-640	1.6	7
83	Compressed air energy storage system with variable configuration for wind power generation. <i>Energy Procedia</i> , 2017 , 142, 3356-3362	2.3	7
82	Stability and Thermophysical Properties of Binary Propanol-Water Mixtures-Based Microencapsulated Phase Change Material Suspensions. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	7

81	Blade Bowing Effect on Aerodynamic Performance of a Highly Loaded Turbine Cascade. <i>Journal of Propulsion and Power</i> , 2010 , 26, 604-608	1.8	7
80	Off-design performance and operation strategy of expansion process in compressed air energy systems. <i>International Journal of Energy Research</i> , 2019 , 43, 475-490	4.5	7
79	Finite-time thermodynamics modeling and analysis on compressed air energy storage systems with thermal storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 138, 110656	16.2	7
78	Brayton-cycle-based pumped heat electricity storage with innovative operation mode of thermal energy storage array. <i>Applied Energy</i> , 2021 , 291, 116821	10.7	6
77	Experimental investigation on off-design performance and adjustment strategies of the centrifugal compressor in compressed air energy storage system. <i>Journal of Energy Storage</i> , 2021 , 38, 102515	7.8	6
76	The Effect of Wet Compression on a Centrifugal Compressor for a Compressed Air Energy Storage System. <i>Energies</i> , 2019 , 12, 906	3.1	5
75	Design and Performance Analysis of the Distributed Generation System Based on a Diesel Engine and Compressed Air Energy Storage. <i>Energy Procedia</i> , 2017 , 105, 4492-4498	2.3	5
74	Simulation Study of an ORC System Driven by the Waste Heat Recovered from a Trigenation System. <i>Energy Procedia</i> , 2017 , 105, 5040-5047	2.3	5
73	Influence of tip clearance on performance of a contra-rotating fan. <i>Journal of Thermal Science</i> , 2009 , 18, 207-214	1.9	5
72	Flowfield and Aerodynamic Performance of a Turbine Stator Cascade with Bowed Blades. <i>AIAA Journal</i> , 2004 , 42, 2170-2171	2.1	5
71	Experimental study on thermal conductivity and rectification of monolayer and multilayer MoS ₂ . <i>International Journal of Heat and Mass Transfer</i> , 2021 , 170, 121013	4.9	5
70	Influences of wear-ring clearance leakage on performance of a small-scale pump-turbine. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2020 , 234, 454-469	1.6	5
69	Design method of a two-phase annular nozzle in cryogenic liquid expander. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019 , 233, 762-772	1.6	4
68	Effect of blade tip leakage flow on erosion of a radial inflow turbine for compressed air energy storage system. <i>Energy</i> , 2019 , 178, 195-206	7.9	4
67	Performance analysis of a novel adiabatic compressed air energy system with ejectors enhanced charging process. <i>Energy</i> , 2020 , 205, 118050	7.9	4
66	Experimental investigation of a liquid turbine in a full performance test rig. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019 , 233, 337-345	1.6	4
65	Numerical and experimental investigations for an air cannon optimization. <i>Science China Technological Sciences</i> , 2011 , 54, 345-351	3.5	4
64	Flow separation control by using bowed blade in highly loaded turbine cascades. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 1471-1477		4

63	Analysis of Shroud Cavity Leakage in a Radial Turbine for Optimal Operation in Compressed Air Energy Storage System. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020 , 142,	1.7	4
62	Recent advances in thermal conductivity of nanofluids. <i>Recent Patents on Nanotechnology</i> , 2013 , 7, 198-207		4
61	Efficiency improvement of a CAES low aspect ratio radial inflow turbine by NACA blade profile. <i>Renewable Energy</i> , 2019 , 138, 1214-1231	8.1	4
60	Cryogenic Energy Storage and Its Integration With Nuclear Power Generation for Load Shift 2019 , 249-273		4
59	Reynolds-Averaged Navier-Stokes Equations Describing Turbulent Flow and Heat Transfer Behavior for Supercritical Fluid. <i>Journal of Thermal Science</i> , 2021 , 30, 191-200	1.9	4
58	Performance and economy of trigenerative adiabatic compressed air energy storage system based on multi-parameter analysis. <i>Energy</i> , 2022 , 238, 121695	7.9	4
57	Flow analysis and performance improvement of a radial inflow turbine with back cavity under variable operation condition of compressed air energy storage. <i>International Journal of Energy Research</i> , 2019 , 43, 6396-6408	4.5	3
56	Estimating the Economics of Electrical Energy Storage Based on Different Policies in China. <i>Journal of Thermal Science</i> , 2020 , 29, 352-364	1.9	3
55	Storing Energy in China: An Overview 2016 , 509-527		3
54	Numerical study on thermal performance characteristics of a cascaded latent heat storage unit. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2016 , 230, 126-137	1.6	3
53	Experimental Investigation on the Thermal-Energy Storage Characteristics of the Subcritical Water. <i>Journal of Energy Engineering - ASCE</i> , 2017 , 143, 04017061	1.7	3
52	Analysis of an Air Powered Engine System Using a Multi-Stage Radial Turbine. <i>Entropy</i> , 2013 , 15, 1186-1208		3
51	Critical review of thermochemical energy storage systems based on cobalt, manganese, and copper oxides. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 158, 112076	16.2	3
50	Hydrogen and syngas co-production by coupling of chemical looping water splitting and glycerol oxidation reforming using CeNi modified Fe-based oxygen carriers. <i>Journal of Cleaner Production</i> , 2022 , 335, 130299	10.3	3
49	Thermo-Economic Modeling and Evaluation of Physical Energy Storage in Power System. <i>Journal of Thermal Science</i> , 1	1.9	3
48	Thermodynamic research on compressed air energy storage system with turbines under sliding pressure operation. <i>Energy</i> , 2021 , 222, 119978	7.9	3
47	Thermochemical characteristics and non-isothermal kinetics of camphor biomass waste. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105311	6.8	3
46	Thermal Storage Characteristics of the Vertical Cylindrical Water Tank. <i>Journal of Energy Engineering - ASCE</i> , 2017 , 143, 04017067	1.7	2

45	The influence of charging process on trigenerative performance of compressed air energy storage system. <i>International Journal of Energy Research</i> , 2020 , 45, 17133	4.5	2
44	Stethoscope-type 3 independent detector for fast measurement of material thermal conductivity. <i>Review of Scientific Instruments</i> , 2018 , 89, 084904	1.7	2
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