

Haisheng Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

206
papers

10,228
citations

45
h-index

98
g-index

217
ext. papers

11,913
ext. citations

6.2
avg, IF

6.29
L-index

#	Paper	IF	Citations
206	Experimental and Numerical Analysis of the Impeller Backside Cavity in a Centrifugal Compressor for CAES. <i>Energies</i> , 2022 , 15, 420	3.1	2
205	Applications of Additively Manufactured Adjustable Vaned Diffusers in Centrifugal Compressor. <i>Journal of Thermal Science</i> , 2022 , 31, 273	1.9	0
204	Storing energy in China—an overview 2022 , 771-791		0
203	Chemical looping steam reforming of ethanol without and with in-situ CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 6552-6568	6.7	1
202	Unsteady characteristics of compressed air energy storage systems with thermal storage from thermodynamic perspective. <i>Energy</i> , 2022 , 244, 122969	7.9	0
201	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
200	Hydrogen and syngas co-production by coupling of chemical looping water splitting and glycerol oxidation reforming using Ce _{0.1} modified Fe-based oxygen carriers. <i>Journal of Cleaner Production</i> , 2022 , 335, 130299	10.3	3
199	Thermal-mechanical coefficient analysis of adiabatic compressor and expander in compressed air energy storage systems. <i>Energy</i> , 2022 , 244, 122993	7.9	0
198	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
197	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
196	Asymptotic analysis of boundary thermal-wave process near the liquid-gas critical point. <i>Physics of Fluids</i> , 2022 , 34, 036102	4.4	2
195	Performance and Flow Characteristics of the Liquid Turbine for Supercritical Compressed Air Energy Storage System. <i>Applied Thermal Engineering</i> , 2022 , 118491	5.8	0
194	Flow characteristics of impeller backside cavity and its effects on the centrifugal compressor for compressed air energy storage. <i>Journal of Energy Storage</i> , 2022 , 49, 104024	7.8	0
193	Analysis of hybrid Adiabatic Compressed Air Energy Storage - Reverse Osmosis desalination system with different topological structures. <i>Desalination</i> , 2022 , 530, 115667	10.3	0
192	Heat transfer characteristics of mixed convection in packed beds. <i>Chemical Engineering Science</i> , 2022 , 117679	4.4	0
191	Experimental investigation of intake and leakage performance for a shrouded radial turbine in the compressed air energy storage system. <i>Journal of Energy Storage</i> , 2022 , 52, 104875	7.8	0
190	Temperature Regulation Model and Experimental Study of Compressed Air Energy Storage Cavern Heat Exchange System. <i>Sustainability</i> , 2022 , 14, 6788	3.6	

189	Characterization of dynamic fluctuations of CO ₂ fluid parameters at critical regions near the pseudo-critical line. <i>Physics of Fluids</i> , 2022 , 34, 062003	4.4	2
188	Off-design modeling and performance analysis of supercritical compressed air energy storage systems with packed bed cold storage. <i>Journal of Energy Storage</i> , 2022 , 52, 104890	7.8	1
187	Analytic optimization of JouleBrayton cycle-based pumped thermal electricity storage system. <i>Journal of Energy Storage</i> , 2021 , 47, 103663	7.8	0
186	Preliminary Design and Performance Analysis of the Liquid Turbine for Supercritical Compressed Air Energy Storage Systems. <i>Applied Thermal Engineering</i> , 2021 , 203, 117891	5.8	1
185	New Progress on Fiber-Based Thermoelectric Materials: Performance, Device Structures and Applications. <i>Materials</i> , 2021 , 14,	3.5	1
184	Progress and prospects of thermo-mechanical energy storage—critical review. <i>Progress in Energy</i> , 2021 , 3, 022001	7.7	19
183	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
182	Thermodynamic research on compressed air energy storage system with turbines under sliding pressure operation. <i>Energy</i> , 2021 , 222, 119978	7.9	3
181	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
180	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
179	Dynamic characteristics of the gear-rotor system in compressed air energy storage considering friction effects. <i>Mechanical Sciences</i> , 2021 , 12, 677-688	1.3	
178	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
177	Effect of chamber roughness and local smoothing on performance of a CAES axial turbine. <i>Renewable Energy</i> , 2021 , 170, 500-516	8.1	0
176	Investigation of unsteady flow in the unscalped radial turbine cavity. <i>Aerospace Science and Technology</i> , 2021 , 113, 106675	4.9	2
175	Pyrolysis characteristics and non-isothermal kinetics of waste wood biomass. <i>Energy</i> , 2021 , 226, 120358	7.9	16
174	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
173	Dynamic characteristics and control of supercritical compressed air energy storage systems. <i>Applied Energy</i> , 2021 , 283, 116294	10.7	11
172	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

171	Loss analysis of the shrouded radial-inflow turbine for compressed air energy storage. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2021 , 235, 406-420	1.6	2
170	Coupling optimization of casing groove and blade profile for a radial turbine. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2021 , 235, 1421-1434	1.6	
169	Numerical study on the influence of shroud cavity in the high-pressure centrifugal compressor for compressed air energy storage system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 804, 032018	0.3	0
168	Thermochemical characteristics and non-isothermal kinetics of camphor biomass waste. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105311	6.8	3
167	Technical and economic analysis of Brayton-cycle-based pumped thermal electricity storage systems with direct and indirect thermal energy storage. <i>Energy</i> , 2021 , 121966	7.9	2
166	Experimental Study on Effects of Adjustable Vaned Diffusers on Impeller Backside Cavity of Centrifugal Compressor in CAES. <i>Energies</i> , 2021 , 14, 6187	3.1	2
165	Coupling properties of thermodynamics and economics of underwater compressed air energy storage systems with flexible heat exchanger model. <i>Journal of Energy Storage</i> , 2021 , 43, 103198	7.8	1
164	Energy and exergy analysis of compressed air engine systems. <i>Energy Reports</i> , 2021 , 7, 2316-2323	4.6	1
163	Vibration characteristics of triple-gear-rotor system in compressed air energy storage under variable torque load. <i>Science Progress</i> , 2021 , 104, 36850420987058	1.1	
162	Experimental Study on Thermal Conductivity and Rectification in Suspended Monolayer MoS. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28306-28312	9.5	9
161	An improved inverse method for multirow blades of turbomachinery. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020 , 234, 4433-4443	1.3	
160	Performance analysis of a novel adiabatic compressed air energy system with ejectors enhanced charging process. <i>Energy</i> , 2020 , 205, 118050	7.9	4
159	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
158	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
157	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
156	Synergy Methodology for Internal Flow of Turbomachinery. <i>Journal of Thermal Science</i> , 2020 , 29, 730-742.	2.9	1
155	Thermodynamic Analysis of Packed Bed Thermal Energy Storage System. <i>Journal of Thermal Science</i> , 2020 , 29, 445-456	1.9	2
154	Design of a Centrifugal Compressor with Low Solidity Vaned Diffuser (LSVD) for Large-Scale Compressed Air Energy Storage (CAES). <i>Journal of Thermal Science</i> , 2020 , 29, 423-434	1.9	1

153	Tip leakage flow analysis of an axial turbine under the effect of separation at low Reynolds number. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2020 , 234, 751-765	1.6	1
152	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
151	Flow characteristics of an axial turbine with chamber and diffuser adopted in compressed air energy storage system. <i>Energy Reports</i> , 2020 , 6, 45-57	4.6	1
150	Designer patterned functional fibers via direct imprinting in thermal drawing. <i>Nature Communications</i> , 2020 , 11, 3842	17.4	19
149	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
148	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
147	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
146	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
145	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
144	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
143	Experimental investigation of the sloshing influence on FLNG liquefaction system. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-15	1.6	0
142	Hydrogen production from the thermochemical conversion of biomass: issues and challenges. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 314-342	5.8	142
141	Cyclic transient behavior of the JouleBrayton based pumped heat electricity storage: Modeling and analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 111, 523-534	16.2	27
140	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
139	Thermodynamic analysis on compressed air energy storage augmenting power / polygeneration for roundtrip efficiency enhancement. <i>Energy</i> , 2019 , 180, 107-120	7.9	13
138	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
137	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
136	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

135	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
134	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
133	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
132	Characteristic of a multistage reheating radial inflow in supercritical compressed air energy storage with variable operating parameters. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019 , 233, 397-412	1.6	
131	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
130	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
129	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
128	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
127	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
126	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
125	Numerical investigations of optimal phase change material incorporated into ventilated walls. <i>Energy</i> , 2019 , 172, 1187-1197	7.9	17
124	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
123	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
122	Cryogenic Energy Storage and Its Integration With Nuclear Power Generation for Load Shift 2019 , 249-273		4
121	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
120	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
119	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
118	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

117	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
116	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
115	Stethoscope-type 3 independent detector for fast measurement of material thermal conductivity. <i>Review of Scientific Instruments</i> , 2018 , 89, 084904	1.7	2
114	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
113	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
112	A near-isothermal expander for isothermal compressed air energy storage system. <i>Applied Energy</i> , 2018 , 225, 955-964	10.7	37
111	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
110	Performance analysis of biofuel fired trigeneration systems with energy storage for remote households. <i>Applied Energy</i> , 2017 , 186, 530-538	10.7	17
109	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
108	Thermodynamic analytical solution and exergy analysis for supercritical compressed air energy storage system. <i>Applied Energy</i> , 2017 , 199, 96-106	10.7	36
107	Distributed generation with energy storage systems: A case study. <i>Applied Energy</i> , 2017 , 204, 1251-1263	10.7	34
106	Sodium nitrate/Diatomite composite materials for thermal energy storage. <i>Solar Energy</i> , 2017 , 146, 494-502	6.8	45
105	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
104	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
103	Thermal Storage Characteristics of the Vertical Cylindrical Water Tank. <i>Journal of Energy Engineering - ASCE</i> , 2017 , 143, 04017067	1.7	2
102	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
101	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
100	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

99	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
98	Simulation Study of an ORC System Driven by the Waste Heat Recovered from a Trigeration System. <i>Energy Procedia</i> , 2017 , 105, 5040-5047	2.3	5
97	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
96	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
95	Compressed air energy storage system with variable configuration for wind power generation. <i>Energy Procedia</i> , 2017 , 142, 3356-3362	2.3	7
94	Numerical Study of a Quasi-isothermal Expander by Spraying Water. <i>Energy Procedia</i> , 2017 , 142, 3388-3393	2.3	8
93	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
92	Study of a single-valve reciprocating expander. <i>Journal of the Energy Institute</i> , 2016 , 89, 400-413	5.7	13
91	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
90	Storing Energy in China An Overview 2016 , 509-527		3
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	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

81	Thermodynamic characteristics of a novel supercritical compressed air energy storage system. <i>Energy Conversion and Management</i> , 2016 , 115, 167-177	10.6	115
80	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
79	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
78	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
77	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
76	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
75	Hybrid CCHP system combined with compressed air energy storage. <i>International Journal of Energy Research</i> , 2015 , 39, 1807-1818	4.5	32
74	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
73	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
72	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
71	A solar energy storage and power generation system based on supercritical carbon dioxide. <i>Renewable Energy</i> , 2014 , 64, 43-51	8.1	33
70	Techno-economic and social analysis of energy storage for commercial buildings. <i>Energy Conversion and Management</i> , 2014 , 78, 125-136	10.6	45
69	Performance study of a packed bed in a closed loop thermal energy storage system. <i>Energy</i> , 2014 , 77, 871-879	7.9	18
68	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
67	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
66	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
65	Kinetic Study on Non-isothermal Pyrolysis of Sucrose Biomass. <i>Energy & Fuels</i> , 2014 , 28, 3793-3801	4.1	23
64	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

63	Cryogenic energy storage characteristics of a packed bed at different pressures. <i>Applied Thermal Engineering</i> , 2014 , 63, 439-446	5.8	28
62	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
61	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
60	Aerothermal Investigation of Backface Clearance Flow in Deeply Scalloped Radial Turbines. <i>Journal of Turbomachinery</i> , 2013 , 135,	1.8	14
59	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
58	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
57	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
56	Analysis of an Air Powered Engine System Using a Multi-Stage Radial Turbine. <i>Entropy</i> , 2013 , 15, 1186-1208		3
55	Rheology of nanofluids: a review. <i>Recent Patents on Nanotechnology</i> , 2013 , 7, 232-46	1.2	15
54	Recent advances in thermal conductivity of nanofluids. <i>Recent Patents on Nanotechnology</i> , 2013 , 7, 198-207		4
53	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
52	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
51	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
50	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
49	Pyrolysis characteristics of sucrose biomass in a tubular reactor and a thermogravimetric analysis. <i>Fuel</i> , 2012 , 95, 425-430	7.1	28
48	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
47	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
46	Numerical and experimental investigations for an air cannon optimization. <i>Science China Technological Sciences</i> , 2011 , 54, 345-351	3.5	4

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