

Shuai Deng

List of Publications by Year in descending order

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195
papers

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times ranked

4230
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryogenic-based CO ₂ capture technologies: State-of-the-art developments and current challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 265-278.	16.4	351
2	How to evaluate performance of net zero energy building – A literature research. <i>Energy</i> , 2014, 71, 1-16.	8.8	251
3	Alternative pathways for efficient CO ₂ capture by hybrid processes – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 215-231.	16.4	236
4	A review of modified Organic Rankine cycles (ORCs) for internal combustion engine waste heat recovery (ICE-WHR). <i>Renewable and Sustainable Energy Reviews</i> , 2018, 92, 95-110.	16.4	213
5	A critical review of the models used to estimate solar radiation. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 314-329.	16.4	192
6	Review of fundamental properties of CO ₂ hydrates and CO ₂ capture and separation using hydration method. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 1273-1302.	16.4	189
7	Effects of load following operational strategy on CCHP system with an auxiliary ground source heat pump considering carbon tax and electricity feed in tariff. <i>Applied Energy</i> , 2017, 194, 454-466.	10.1	102
8	Solving two environmental issues simultaneously: Waste polyethylene terephthalate plastic bottle-derived microporous carbons for capturing CO ₂ . <i>Chemical Engineering Journal</i> , 2020, 397, 125350.	12.7	98
9	Reducing the energy consumption of membrane-cryogenic hybrid CO ₂ capture by process optimization. <i>Energy</i> , 2017, 124, 29-39.	8.8	94
10	Configurations selection maps of CO ₂ -based transcritical Rankine cycle (CTRC) for thermal energy management of engine waste heat. <i>Applied Energy</i> , 2017, 186, 423-435.	10.1	85
11	Valorization of waste polyethylene terephthalate plastic into N-doped microporous carbon for CO ₂ capture through a one-pot synthesis. <i>Journal of Hazardous Materials</i> , 2020, 399, 123010.	12.4	85
12	Analysis of a novel combined power and ejector-refrigeration cycle. <i>Energy Conversion and Management</i> , 2016, 108, 266-274.	9.2	79
13	Carbon pump: Fundamental theory and applications. <i>Energy</i> , 2017, 119, 1131-1143.	8.8	73
14	A thermodynamic analysis of an auto-cascade heat pump cycle for heating application in cold regions. <i>Energy and Buildings</i> , 2014, 82, 621-631.	6.7	63
15	A comparative study on CO ₂ capture performance of vacuum-pressure swing adsorption and pressure-temperature swing adsorption based on carbon pump cycle. <i>Energy</i> , 2017, 137, 495-509.	8.8	63
16	Solar driven ORC-based CCHP: Comparative performance analysis between sequential and parallel system configurations. <i>Applied Thermal Engineering</i> , 2018, 131, 696-706.	6.0	59
17	A comprehensive performance evaluation of temperature swing adsorption for post-combustion carbon dioxide capture. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109285.	16.4	57
18	Waste polyethylene terephthalate (PET) plastics-derived activated carbon for CO ₂ capture: a route to a closed carbon loop. <i>Green Chemistry</i> , 2020, 22, 6836-6845.	9.0	57

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19	Mathematical modeling and numerical investigation of carbon capture by adsorption: Literature review and case study. <i>Applied Energy</i> , 2018, 221, 437-449.	10.1	56
20	Energy supply concepts for zero energy residential buildings in humid and dry climate. <i>Energy Conversion and Management</i> , 2011, 52, 2455-2460.	9.2	54
21	Simultaneous working fluids design and cycle optimization for Organic Rankine cycle using group contribution model. <i>Applied Energy</i> , 2017, 202, 618-627.	10.1	54
22	Technical and economic analysis of integrating low-medium temperature solar energy into power plant. <i>Energy Conversion and Management</i> , 2016, 112, 459-469.	9.2	52
23	Complementary configuration and performance comparison of CCHP-ORC system with a ground source heat pump under three energy management modes. <i>Energy Conversion and Management</i> , 2017, 135, 244-255.	9.2	51
24	Advanced cryogenic CO ₂ capture process based on Stirling coolers by heat integration. <i>Applied Thermal Engineering</i> , 2017, 114, 887-895.	6.0	51
25	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO ₂ capture. <i>Green Chemistry</i> , 2022, 24, 1494-1504.	9.0	51
26	Thermodynamic research of adsorbent materials on energy efficiency of vacuum-pressure swing adsorption cycle for CO ₂ capture. <i>Applied Thermal Engineering</i> , 2018, 128, 818-829.	6.0	50
27	A comprehensive review on high-temperature fuel cells with carbon capture. <i>Applied Energy</i> , 2020, 275, 115342.	10.1	50
28	How to approach Carnot cycle via zeotropic working fluid: Research methodology and case study. <i>Energy</i> , 2018, 144, 576-586.	8.8	49
29	Thermodynamic performance comparison of Organic Rankine Cycle between zeotropic mixtures and pure fluids under open heat source. <i>Energy Conversion and Management</i> , 2018, 165, 720-737.	9.2	48
30	Application of machine learning into organic Rankine cycle for prediction and optimization of thermal and exergy efficiency. <i>Energy Conversion and Management</i> , 2020, 210, 112700.	9.2	47
31	A review on biomass-derived CO ₂ adsorption capture: Adsorbent, adsorber, adsorption, and advice. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111708.	16.4	47
32	Application potential of solar-assisted post-combustion carbon capture and storage (CCS) in China: A life cycle approach. <i>Journal of Cleaner Production</i> , 2017, 154, 541-552.	9.3	46
33	Thermodynamic exploration of temperature vacuum swing adsorption for direct air capture of carbon dioxide in buildings. <i>Energy Conversion and Management</i> , 2019, 183, 418-426.	9.2	44
34	Integrating solar Organic Rankine Cycle into a coal-fired power plant with amine-based chemical absorption for CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2014, 31, 77-86.	4.6	43
35	A neural network for predicting normal boiling point of pure refrigerants using molecular groups and a topological index. <i>International Journal of Refrigeration</i> , 2016, 63, 63-71.	3.4	42
36	Natural gas purification by heat pump assisted MEA absorption process. <i>Applied Energy</i> , 2017, 204, 353-361.	10.1	42

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37	Performance analysis of passive cooling for photovoltaic modules and estimation of energy-saving potential. <i>Solar Energy</i> , 2019, 181, 70-82.	6.1	42
38	Developing a performance evaluation model of Organic Rankine Cycle for working fluids based on the group contribution method. <i>Energy Conversion and Management</i> , 2017, 132, 307-315.	9.2	41
39	Techno-economic analysis of carbon capture from a coal-fired power plant integrating solar-assisted pressure-temperature swing adsorption (PTSA). <i>Journal of Cleaner Production</i> , 2019, 214, 440-451.	9.3	40
40	Towards novel low temperature thermodynamic cycle: A critical review originated from organic Rankine cycle. <i>Applied Energy</i> , 2020, 270, 115186.	10.1	40
41	Performance evaluation on solar box cooker with reflector tracking at optimal angle under Bahir Dar climate. <i>Solar Energy</i> , 2019, 180, 664-677.	6.1	39
42	Dynamic performance investigation of organic Rankine cycle driven by solar energy under cloudy condition. <i>Energy</i> , 2018, 147, 122-141.	8.8	38
43	How interlayer twist angles affect in-plane and cross-plane thermal conduction of multilayer graphene: A non-equilibrium molecular dynamics study. <i>International Journal of Heat and Mass Transfer</i> , 2019, 137, 161-173.	4.8	38
44	Evaluation of hydrolysis-esterification biodiesel production from wet microalgae. <i>Bioresource Technology</i> , 2016, 214, 747-754.	9.6	37
45	Overview on artificial intelligence in design of Organic Rankine Cycle. <i>Energy and AI</i> , 2020, 1, 100011.	10.6	37
46	Deep reinforcement learning framework for dynamic pricing demand response of regenerative electric heating. <i>Applied Energy</i> , 2021, 288, 116623.	10.1	37
47	Is zeotropic working fluid a promising option for organic Rankine cycle: A quantitative evaluation based on literature data. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 148, 111267.	16.4	37
48	Performance analysis of the ejector-expansion refrigeration cycle using zeotropic mixtures. <i>International Journal of Refrigeration</i> , 2015, 57, 197-207.	3.4	36
49	Water-energy-carbon nexus: A life cycle assessment of post-combustion carbon capture technology from power plant level. <i>Journal of Cleaner Production</i> , 2021, 312, 127727.	9.3	36
50	Novel experimental research on the compression process in organic Rankine cycle (ORC). <i>Energy Conversion and Management</i> , 2017, 137, 1-11.	9.2	35
51	Energy-saving pathway exploration of CCS integrated with solar energy: Literature research and comparative analysis. <i>Energy Conversion and Management</i> , 2015, 102, 66-80.	9.2	34
52	Effect of Nanobubble Evolution on Hydrate Process: A Review. <i>Journal of Thermal Science</i> , 2019, 28, 948-961.	1.9	34
53	Energy-saving pathway exploration of CCS integrated with solar energy: A review of innovative concepts. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 652-669.	16.4	33
54	Dynamic performance investigation for two types of ORC system driven by waste heat of automotive internal combustion engine. <i>Energy</i> , 2019, 169, 958-971.	8.8	33

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55	Recent Trends in Load Forecasting Technology for the Operation Optimization of Distributed Energy System. <i>Energies</i> , 2017, 10, 1303.	3.1	32
56	Comparative life cycle assessment of geothermal power generation systems in China. <i>Resources, Conservation and Recycling</i> , 2020, 155, 104670.	10.8	32
57	Preliminary experimental study of post-combustion carbon capture integrated with solar thermal collectors. <i>Applied Energy</i> , 2017, 185, 1471-1480.	10.1	31
58	Group contribution methods in thermodynamic cycles: Physical properties estimation of pure working fluids. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 984-1001.	16.4	31
59	Solar-assisted pressure-temperature swing adsorption for CO ₂ capture: Effect of adsorbent materials. <i>Solar Energy Materials and Solar Cells</i> , 2018, 185, 494-504.	6.2	31
60	Experimental study and energy-efficiency evaluation of a 4-step pressure-vacuum swing adsorption (PVSA) for CO ₂ capture. <i>Energy Conversion and Management</i> , 2017, 151, 179-189.	9.2	30
61	Experimental investigation on separation and energy-efficiency performance of temperature swing adsorption system for CO ₂ capture. <i>Separation and Purification Technology</i> , 2019, 227, 115670.	7.9	30
62	Recent advancements in sustainable upcycling of solid waste into porous carbons for carbon dioxide capture. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 162, 112413.	16.4	30
63	Performance optimization and analysis of solar combi-system with carbon dioxide heat pump. <i>Solar Energy</i> , 2013, 98, 212-225.	6.1	29
64	Molecular dynamics study on transport properties of supercritical working fluids: Literature review and case study. <i>Applied Energy</i> , 2019, 250, 63-80.	10.1	29
65	Performance analysis of temperature swing adsorption for CO ₂ capture using thermodynamic properties of adsorbed phase. <i>Applied Thermal Engineering</i> , 2017, 123, 205-215.	6.0	28
66	Experimental study on thermal performance of U-type evacuated glass tubular solar collector with low inlet temperature. <i>Solar Energy</i> , 2017, 150, 192-201.	6.1	28
67	Integrating geothermal into coal-fired power plant with carbon capture: A comparative study with solar energy. <i>Energy Conversion and Management</i> , 2017, 148, 569-582.	9.2	28
68	Study on heat and power decoupling for CCHP system: Methodology and case study. <i>Applied Thermal Engineering</i> , 2018, 142, 597-609.	6.0	28
69	Thermodynamic analysis on carbon dioxide capture by Electric Swing Adsorption (ESA) technology. <i>Journal of CO₂ Utilization</i> , 2018, 26, 388-396.	6.8	27
70	A limiting efficiency of subcritical Organic Rankine cycle under the constraint of working fluids. <i>Energy</i> , 2018, 143, 458-466.	8.8	26
71	State-of-art of branching T-junction: Experiments, modeling, developing prospects and applications. <i>Experimental Thermal and Fluid Science</i> , 2019, 109, 109895.	2.7	26
72	Comparative analysis of calculation method of adsorption isosteric heat: Case study of CO ₂ capture using MOFs. <i>Microporous and Mesoporous Materials</i> , 2020, 298, 110053.	4.4	26

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73	Comparison study on performance of a hybrid solar-assisted CO ₂ heat pump. <i>Applied Thermal Engineering</i> , 2011, 31, 3696-3705.	6.0	25
74	A technical and economic study on solar-assisted ammonia-based post-combustion CO ₂ capture of power plant. <i>Applied Thermal Engineering</i> , 2016, 102, 412-422.	6.0	25
75	Dynamic test and verification of model-guided ORC system. <i>Energy Conversion and Management</i> , 2019, 186, 349-367.	9.2	25
76	Case study of green energy system design for a multi-function building in campus. <i>Sustainable Cities and Society</i> , 2011, 1, 152-163.	10.4	24
77	Trends in patents for solar thermal utilization in China. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 852-862.	16.4	24
78	A literature research on feasible application of mixed working fluid in flexible distributed energy system. <i>Energy</i> , 2017, 137, 377-390.	8.8	24
79	Simulation of two-phase refrigerant separation in horizontal T-junction. <i>Applied Thermal Engineering</i> , 2018, 134, 333-340.	6.0	24
80	A new understanding on thermal efficiency of organic Rankine cycle: Cycle separation based on working fluids properties. <i>Energy Conversion and Management</i> , 2018, 157, 169-175.	9.2	24
81	How to quantitatively describe the role of the pure working fluids in subcritical organic Rankine cycle: A limitation on efficiency. <i>Energy Conversion and Management</i> , 2018, 172, 316-327.	9.2	24
82	Numerical analysis on CO ₂ capture process of temperature swing adsorption (TSA): Optimization of reactor geometry. <i>International Journal of Greenhouse Gas Control</i> , 2019, 85, 187-198.	4.6	24
83	A Literature Research on the Performance Evaluation of Hydrate-based CO ₂ Capture and Separation Process. <i>Energy Procedia</i> , 2017, 105, 4090-4097.	1.8	23
84	Performance and economic assessments of integrating geothermal energy into coal-fired power plant with CO ₂ capture. <i>Energy</i> , 2017, 119, 278-287.	8.8	23
85	Experimental study on phase separation of refrigerant at horizontal T-junction. <i>International Journal of Multiphase Flow</i> , 2018, 105, 217-233.	3.4	23
86	Experimental study on flow boiling characteristics of R-245fa in circular tube under non-uniform heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118570.	4.8	23
87	Performance analysis on novel thermodynamic cycle under the guidance of 3D construction method. <i>Applied Energy</i> , 2019, 250, 478-492.	10.1	22
88	Integrated assessment for solar-assisted carbon capture and storage power plant by adopting resilience thinking on energy system. <i>Journal of Cleaner Production</i> , 2019, 208, 1009-1021.	9.3	22
89	A graphic analysis method of electrochemical systems for low-grade heat harvesting from a perspective of thermodynamic cycles. <i>Energy</i> , 2020, 191, 116547.	8.8	22
90	Transcritical carbon dioxide power cycle for waste heat recovery: A roadmap analysis from ideal cycle to real cycle with case implementation. <i>Energy Conversion and Management</i> , 2020, 226, 113578.	9.2	22

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91	Experimental study on the distribution of constituents of binary zeotropic mixtures in vertical impacting T-junction. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 242-252.	4.8	21
92	Consumers' Attitudes to Support Green Energy: A Case Study in Shanghai. <i>Energies</i> , 2019, 12, 2379.	3.1	21
93	Temperature swing adsorption for CO ₂ capture: Thermal design and management on adsorption bed with single-tube/three-tube internal heat exchanger. <i>Applied Thermal Engineering</i> , 2021, 199, 117538.	6.0	21
94	Understanding the effect of H ₂ O on CO ₂ adsorption capture: mechanism explanation, quantitative approach and application. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5970-5986.	4.9	20
95	Thermodynamic considerations on MEA absorption: Whether thermodynamic cycle could be used as a tool for energy efficiency analysis. <i>Energy</i> , 2019, 168, 380-392.	8.8	19
96	Intelligent collaborative attainment of structure configuration and fluid selection for the Organic Rankine cycle. <i>Applied Energy</i> , 2020, 264, 114743.	10.1	19
97	Optimization and multi-time scale modeling of pilot solar driven polygeneration system based on organic Rankine cycle. <i>Applied Energy</i> , 2018, 222, 396-409.	10.1	18
98	Entropy analysis on energy-consumption process and improvement method of temperature/vacuum swing adsorption (TVSA) cycle. <i>Energy</i> , 2019, 179, 876-889.	8.8	18
99	Evolution of bubbles in decomposition and replacement process of methane hydrate. <i>Molecular Simulation</i> , 2017, 43, 1061-1073.	2.0	17
100	Recent advances in modeling the vapor-liquid equilibrium of mixed working fluids. <i>Fluid Phase Equilibria</i> , 2017, 432, 28-44.	2.5	17
101	A review of molecular simulation applied in vapor-liquid equilibria (VLE) estimation of thermodynamic cycles. <i>Journal of Molecular Liquids</i> , 2018, 264, 652-674.	4.9	17
102	State-of-art of impacting T-junction : Phase separation, constituent separation and applications. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119067.	4.8	17
103	Intensification of microalgae drying and oil extraction process by vapor recompression and heat integration. <i>Bioresource Technology</i> , 2016, 207, 67-75.	9.6	16
104	How to rapidly predict the performance of ORC: Optimal empirical correlation based on cycle separation. <i>Energy Conversion and Management</i> , 2019, 188, 86-93.	9.2	16
105	Synergistic and competitive effect of H ₂ O on CO ₂ adsorption capture: Mechanism explanations based on molecular dynamic simulation. <i>Journal of CO₂ Utilization</i> , 2021, 52, 101662.	6.8	16
106	Experimental study on the constituent separation performance of binary zeotropic mixtures in horizontal branch T-junctions. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 76-87.	4.8	15
107	Identification of key affecting parameters of zeotropic working fluid on subcritical organic Rankine cycle according limiting thermodynamic cycle. <i>Energy Conversion and Management</i> , 2019, 197, 111884.	9.2	15
108	Supercritical CO ₂ Brayton cycle: Intelligent construction method and case study. <i>Energy Conversion and Management</i> , 2021, 246, 114662.	9.2	15

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109	A numerical analysis on energy-efficiency performance of temperature swing adsorption for CO ₂ capture. <i>Energy Procedia</i> , 2017, 142, 3200-3207.	1.8	14
110	A rapid multi-objective optimization of pressure and temperature swing adsorption for CO ₂ capture based on simplified equilibrium model. <i>Separation and Purification Technology</i> , 2021, 279, 119663.	7.9	14
111	Performance study on hybrid solar-assisted CO ₂ heat pump system based on the energy balance of net zero energy apartment. <i>Energy and Buildings</i> , 2012, 54, 337-349.	6.7	13
112	Performance analysis of solar-assisted CO ₂ adsorption capture system based on dynamic simulation. <i>Solar Energy</i> , 2020, 209, 628-645.	6.1	13
113	Exploring a potential application of hydrate separation for composition adjustable combined cooling and power system. <i>Applied Energy</i> , 2020, 268, 115064.	10.1	13
114	New knowledge on the temperature-entropy saturation boundary slope of working fluids. <i>Energy</i> , 2017, 119, 211-217.	8.8	12
115	Analysis of pressure drop in T-junction and its effect on thermodynamic cycle efficiency. <i>Applied Energy</i> , 2018, 231, 468-480.	10.1	12
116	Understanding transport and separation of organic mixed working fluids in T-junction from multi-scale insights: Literature review and case study. <i>International Journal of Heat and Mass Transfer</i> , 2020, 154, 119702.	4.8	12
117	Preliminary experimental study on the performance of CO ₂ capture prototype based on temperature swing adsorption (TSA). <i>Carbon Capture Science & Technology</i> , 2022, 2, 100035.	10.4	12
118	Feed-forward active operation optimization for CCHP system considering thermal load forecasting. <i>Energy</i> , 2022, 254, 124234.	8.8	12
119	Simulation and optimization of parabolic trough receiver with non-uniform heat flux distribution: A review. <i>Energy Procedia</i> , 2017, 142, 700-707.	1.8	11
120	How to give a full play to the advantages of zeotropic working fluids in organic Rankine cycle (ORC). <i>Energy Procedia</i> , 2019, 158, 1591-1597.	1.8	11
121	An Overview of 200 kW Solar Power Plant Based on Organic Rankine Cycle. <i>Energy Procedia</i> , 2016, 88, 356-362.	1.8	10
122	Application of the Thermodynamic Cycle to Assess the Energy Efficiency of Amine-Based Absorption of Carbon Capture. <i>Energies</i> , 2019, 12, 2504.	3.1	10
123	Molecular dynamics study on viscosity coefficient of working fluid in supercritical CO ₂ Brayton cycle: Effect of trace gas. <i>Journal of CO₂ Utilization</i> , 2020, 38, 177-186.	6.8	10
124	Tuning lattice thermal conductivity of bilayer and trilayer molybdenum disulfide thermoelectric materials through twist angles. <i>International Journal of Heat and Mass Transfer</i> , 2022, 194, 123005.	4.8	10
125	Energy, Economical, Environmental Evaluation of a CCHP-Gshp System Based on Carbon Tax and Electric Feed in Tariff. <i>Energy Procedia</i> , 2016, 88, 510-517.	1.8	9
126	2D numerical study on flow boiling of zeotropic mixture isobutane/pentane in internal countercurrent flow system. <i>Applied Thermal Engineering</i> , 2017, 114, 1247-1255.	6.0	9

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127	How to predict the vapor slope of temperature-entropy saturation boundary of working fluids from molecular groups?. Energy, 2017, 135, 14-22.	8.8	9
128	A novel ammonia-based CO ₂ capture process hybrid ammonia absorption refrigeration. Energy Procedia, 2017, 142, 3734-3740.	1.8	9
129	Understanding the 3D construction method of thermodynamic cycle: Insights from limiting performance of pure working fluid. Energy Conversion and Management, 2020, 224, 113364.	9.2	9
130	Numerical simulation on constituents separation of R134a/R600a in a horizontal T-junction. International Journal of Refrigeration, 2020, 115, 148-157.	3.4	9
131	Feasibility of solar-assisted CO ₂ capture power plant with flexible operation: A case study in China. Applied Thermal Engineering, 2021, 182, 116096.	6.0	9
132	Quantitative analysis of information interaction in building energy systems based on mutual information. Energy, 2021, 214, 118867.	8.8	9
133	A cycle research methodology for thermo-chemical engines: From ideal cycle to case study. Energy, 2021, 228, 120599.	8.8	9
134	Non-equilibrium thermodynamic analysis of adsorption carbon capture: Contributors, mechanisms and verification of entropy generation. Energy, 2020, 208, 118348.	8.8	8
135	Performance analysis and comparison of cryogenic CO ₂ capture system. International Journal of Green Energy, 2021, 18, 822-833.	3.8	8
136	Hydrate-based gas separation for working fluid mixtures: Application to composition-adjustable organic Rankine cycle. Chemical Engineering Journal, 2022, 434, 134626.	12.7	8
137	Analysis of System Optimization for CCHP System with Different Feed-in Tariff Policies. Energy Procedia, 2017, 105, 2484-2491.	1.8	7
138	Separation of binary organic mixture in T-shaped carbon nanotube separator: Insights from molecular dynamics simulation. Journal of Molecular Liquids, 2020, 312, 113371.	4.9	7
139	Energy recovery from wastewater in deep-sea mining: Feasibility study on an energy supply solution with cold wastewater. Applied Energy, 2022, 305, 117719.	10.1	7
140	The Thermodynamics-Based Benchmarking Analysis on Energy Efficiency Performance of CO ₂ Capture Technology: Temperature Swing Adsorption as Case Study. Energy Technology, 2021, 9, .	3.8	7
141	Carbon dioxide capture. Advances in Chemical Engineering, 2021, 58, 297-348.	0.9	7
142	A new energy analysis model of seawater desalination based on thermodynamics. Energy Procedia, 2019, 158, 5472-5478.	1.8	6
143	Thermodynamic and cycle model for MEA-based chemical CO ₂ absorption. Energy Procedia, 2019, 158, 4941-4946.	1.8	6
144	A Review of Load Forecasting of the Distributed Energy System. IOP Conference Series: Earth and Environmental Science, 0, 237, 042019.	0.3	6

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145	Error analysis of ORC performance calculation based on the Helmholtz equation with different binary interaction parameters of mixture. <i>Energy</i> , 2019, 166, 414-425.	8.8	6
146	Experimental investigation on phase separation comparison between single and double T-junctions. <i>Experimental Thermal and Fluid Science</i> , 2020, 118, 110171.	2.7	6
147	A quantitative evaluation method for uniformity of heat flux distribution in the parabolic trough collector. <i>Chinese Science Bulletin</i> , 2019, 64, 485-492.	0.7	6
148	Clarifying the bifurcation point on Design: A Comparative Analysis between Solar-ORC and ORC-based Solar-CCHP. <i>Energy Procedia</i> , 2017, 142, 1119-1126.	1.8	5
149	Estimation of horizontal direct solar radiation considering air quality index in China. <i>Energy Procedia</i> , 2019, 158, 424-430.	1.8	5
150	A Numerical Study on Heat Transfer of R410A during Flow Boiling. <i>Energy Procedia</i> , 2019, 158, 5414-5420.	1.8	5
151	Entropy Analysis of Temperature Swing Adsorption for CO ₂ Capture Using the Computational Fluid Dynamics (CFD) Method. <i>Entropy</i> , 2019, 21, 285.	2.2	5
152	Ledinegg instability analysis on direct vapor generation inside solar collectors. <i>Solar Energy</i> , 2020, 196, 530-539.	6.1	5
153	How interlayer twist angles affect thermal conduction of double-walled nanotubes: A non-equilibrium molecular dynamics study. <i>International Journal of Heat and Mass Transfer</i> , 2020, 160, 120234.	4.8	5
154	From 1 to N: A computer-aided case study of thermodynamic cycle construction based on thermodynamic process combination. <i>Energy</i> , 2020, 210, 118553.	8.8	5
155	A resilience analysis on energy system: a preliminary case study for solar-assisted CCS. <i>Energy Procedia</i> , 2017, 142, 3220-3225.	1.8	4
156	Methodology for determining the design radiation for a PTC heating system based on non-guaranteed days. <i>Solar Energy</i> , 2018, 174, 97-107.	6.1	4
157	A Case Study of Operation Optimization on A Renewable Energy Building by E-CPS Method: From Both Sides of Supply and Demand. <i>Energy Procedia</i> , 2019, 158, 6145-6151.	1.8	4
158	Molecular Dynamics Simulation on Carbon Dioxide Hydrate Formation. <i>Energy Procedia</i> , 2019, 158, 4648-4654.	1.8	4
159	Comparative analysis of thermodynamic theoretical models for energy consumption of CO ₂ capture. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 882-892.	2.4	4
160	How to express the adsorbed CO ₂ with the Gibbs's thermodynamic graphical method: A preliminary study. <i>Energy</i> , 2020, 193, 116753.	8.8	4
161	Decoupled thermal-driven absorption-based CO ₂ capture into heat engine plus carbon pump: A new understanding with the case study. <i>Energy</i> , 2020, 210, 118556.	8.8	4
162	Thermodynamic carbon pump 2.0: Elucidating energy efficiency through the thermodynamic cycle. <i>Energy</i> , 2021, 215, 119155.	8.8	4

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