

# Shuai Deng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3527948/publications.pdf>

Version: 2024-02-01

195  
papers

5,644  
citations

93792

39  
h-index

124990

64  
g-index

196  
all docs

196  
docs citations

196  
times ranked

4817  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy recovery from wastewater in deep-sea mining: Feasibility study on an energy supply solution with cold wastewater. <i>Applied Energy</i> , 2022, 305, 117719.	5.1	7
2	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO <sub>2</sub> capture. <i>Green Chemistry</i> , 2022, 24, 1494-1504.	4.6	51
3	An improved method of intelligence construction for subcritical thermodynamic cycle. <i>Energy Conversion and Management</i> , 2022, 254, 115256.	4.4	2
4	Performance comparison of three adsorption cycles for CF <sub>4</sub> recovery from waste gas using 13X zeolite. <i>Journal of Cleaner Production</i> , 2022, 337, 130546.	4.6	4
5	Hydrate-based gas separation for working fluid mixtures: Application to composition-adjustable organic Rankine cycle. <i>Chemical Engineering Journal</i> , 2022, 434, 134626.	6.6	8
6	Preliminary experimental study on the performance of CO <sub>2</sub> capture prototype based on temperature swing adsorption (TSA). <i>Carbon Capture Science &amp; Technology</i> , 2022, 2, 100035.	4.9	12
7	Energy quality and energy grade: concepts, applications and prospects. , 2022, 1, .		1
8	Diamond in the rough: Polishing waste polyethylene terephthalate into activated carbon for CO <sub>2</sub> capture. <i>Science of the Total Environment</i> , 2022, 834, 155262.	3.9	4
9	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.	8.2	30
10	Feed-forward active operation optimization for CCHP system considering thermal load forecasting. <i>Energy</i> , 2022, 254, 124234.	4.5	12
11	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.	2.5	10
12	Feasibility of solar-assisted CO <sub>2</sub> capture power plant with flexible operation: A case study in China. <i>Applied Thermal Engineering</i> , 2021, 182, 116096.	3.0	9
13	Thermodynamic carbon pump 2.0: Elucidating energy efficiency through the thermodynamic cycle. <i>Energy</i> , 2021, 215, 119155.	4.5	4
14	Molecular dynamics investigation on the composition separation of binary organic mixture in a double-walled T-shaped carbon nanotube separator. <i>Journal of Molecular Liquids</i> , 2021, 321, 114498.	2.3	1
15	Quantitative analysis of information interaction in building energy systems based on mutual information. <i>Energy</i> , 2021, 214, 118867.	4.5	9
16	The Thermodynamics-Based Benchmarking Analysis on Energy Efficiency Performance of CO <sub>2</sub> Capture Technology: Temperature Swing Adsorption as Case Study. <i>Energy Technology</i> , 2021, 9, 2170013.	1.8	1
17	Performance analysis and comparison of cryogenic CO <sub>2</sub> capture system. <i>International Journal of Green Energy</i> , 2021, 18, 822-833.	2.1	8
18	Deep reinforcement learning framework for dynamic pricing demand response of regenerative electric heating. <i>Applied Energy</i> , 2021, 288, 116623.	5.1	37

#	ARTICLE	IF	CITATIONS
19	Comparative study on energy efficiency of moving-bed adsorption for carbon dioxide capture by two evaluation methods. Sustainable Energy Technologies and Assessments, 2021, 44, 101042.	1.7	1
20	A cycle research methodology for thermo-chemical engines: From ideal cycle to case study. Energy, 2021, 228, 120599.	4.5	9
21	Water-energy-carbon nexus: A life cycle assessment of post-combustion carbon capture technology from power plant level. Journal of Cleaner Production, 2021, 312, 127727.	4.6	36
22	Is zeotropic working fluid a promising option for organic Rankine cycle: A quantitative evaluation based on literature data. Renewable and Sustainable Energy Reviews, 2021, 148, 111267.	8.2	37
23	The flexible programming of thermodynamic cycles: Application of supercritical carbon dioxide Brayton cycles. Energy Conversion and Management, 2021, 245, 114624.	4.4	4
24	Synergistic and competitive effect of H <sub>2</sub> O on CO <sub>2</sub> adsorption capture: Mechanism explanations based on molecular dynamic simulation. Journal of CO <sub>2</sub> Utilization, 2021, 52, 101662.	3.3	16
25	Supercritical CO <sub>2</sub> Brayton cycle: Intelligent construction method and case study. Energy Conversion and Management, 2021, 246, 114662.	4.4	15
26	Temperature swing adsorption for CO <sub>2</sub> capture: Thermal design and management on adsorption bed with single-tube/three-tube internal heat exchanger. Applied Thermal Engineering, 2021, 199, 117538.	3.0	21
27	A review on biomass-derived CO <sub>2</sub> adsorption capture: Adsorbent, adsorber, adsorption, and advice. Renewable and Sustainable Energy Reviews, 2021, 152, 111708.	8.2	47
28	A rapid multi-objective optimization of pressure and temperature swing adsorption for CO <sub>2</sub> capture based on simplified equilibrium model. Separation and Purification Technology, 2021, 279, 119663.	3.9	14
29	A high-throughput computational screening of potential adsorbents for a thermal compression CO <sub>2</sub> Brayton cycle. Sustainable Energy and Fuels, 2021, 5, 1415-1428.	2.5	3
30	The Thermodynamics-Based Benchmarking Analysis on Energy Efficiency Performance of CO <sub>2</sub> Capture Technology: Temperature Swing Adsorption as Case Study. Energy Technology, 2021, 9, .	1.8	7
31	Carbon dioxide capture. Advances in Chemical Engineering, 2021, 58, 297-348.	0.5	7
32	Scenarios Analysis on Electric Power Planning Based on Multi-Scale Forecast: A Case Study of Taoussa, Mali from 2020 to 2035. Energies, 2021, 14, 8515.	1.6	2
33	A graphic analysis method of electrochemical systems for low-grade heat harvesting from a perspective of thermodynamic cycles. Energy, 2020, 191, 116547.	4.5	22
34	How to express the adsorbed CO <sub>2</sub> with the Gibbs™ thermodynamic graphical method: A preliminary study. Energy, 2020, 193, 116753.	4.5	4
35	Ledinegg instability analysis on direct vapor generation inside solar collectors. Solar Energy, 2020, 196, 530-539.	2.9	5
36	State-of-art of impacting T-junction : Phase separation, constituent separation and applications. International Journal of Heat and Mass Transfer, 2020, 148, 119067.	2.5	17

#	ARTICLE	IF	CITATIONS
37	Understanding the 3D construction method of thermodynamic cycle: Insights from limiting performance of pure working fluid. <i>Energy Conversion and Management</i> , 2020, 224, 113364.	4.4	9
38	Understanding the effect of H <sub>2</sub> O on CO <sub>2</sub> adsorption capture: mechanism explanation, quantitative approach and application. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5970-5986.	2.5	20
39	Performance analysis of solar-assisted CO <sub>2</sub> adsorption capture system based on dynamic simulation. <i>Solar Energy</i> , 2020, 209, 628-645.	2.9	13
40	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.	2.5	5
41	An experimental study on operation characteristics of the organic Rankine cycle system under the single- and multiple-variables regulation. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 41, 100785.	1.7	3
42	Exploring a potential application of hydrate separation for composition adjustable combined cooling and power system. <i>Applied Energy</i> , 2020, 268, 115064.	5.1	13
43	Non-equilibrium thermodynamic analysis of adsorption carbon capture: Contributors, mechanisms and verification of entropy generation. <i>Energy</i> , 2020, 208, 118348.	4.5	8
44	From 1 to N: A computer-aided case study of thermodynamic cycle construction based on thermodynamic process combination. <i>Energy</i> , 2020, 210, 118553.	4.5	5
45	Decoupled thermal-driven absorption-based CO <sub>2</sub> capture into heat engine plus carbon pump: A new understanding with the case study. <i>Energy</i> , 2020, 210, 118556.	4.5	4
46	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.	4.4	22
47	Experimental investigation on phase separation comparison between single and double T-junctions. <i>Experimental Thermal and Fluid Science</i> , 2020, 118, 110171.	1.5	6
48	Valorization of waste polyethylene terephthalate plastic into N-doped microporous carbon for CO <sub>2</sub> capture through a one-pot synthesis. <i>Journal of Hazardous Materials</i> , 2020, 399, 123010.	6.5	85
49	Separation of binary organic mixture in T-shaped carbon nanotube separator: Insights from molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2020, 312, 113371.	2.3	7
50	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.	2.5	12
51	A comprehensive review on high-temperature fuel cells with carbon capture. <i>Applied Energy</i> , 2020, 275, 115342.	5.1	50
52	Solving two environmental issues simultaneously: Waste polyethylene terephthalate plastic bottle-derived microporous carbons for capturing CO <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2020, 397, 125350.	6.6	98
53	Overview on artificial intelligence in design of Organic Rankine Cycle. <i>Energy and AI</i> , 2020, 1, 100011.	5.8	37
54	Numerical simulation on constituents separation of R134a/R600a in a horizontal T-junction. <i>International Journal of Refrigeration</i> , 2020, 115, 148-157.	1.8	9

#	ARTICLE	IF	CITATIONS
55	Intelligent collaborative attainment of structure configuration and fluid selection for the Organic Rankine cycle. <i>Applied Energy</i> , 2020, 264, 114743.	5.1	19
56	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.	4.4	47
57	Comparative life cycle assessment of geothermal power generation systems in China. <i>Resources, Conservation and Recycling</i> , 2020, 155, 104670.	5.3	32
58	Comparative analysis of calculation method of adsorption isosteric heat: Case study of CO <sub>2</sub> capture using MOFs. <i>Microporous and Mesoporous Materials</i> , 2020, 298, 110053.	2.2	26
59	Molecular dynamics study on viscosity coefficient of working fluid in supercritical CO <sub>2</sub> Brayton cycle: Effect of trace gas. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 38, 177-186.	3.3	10
60	Towards novel low temperature thermodynamic cycle: A critical review originated from organic Rankine cycle. <i>Applied Energy</i> , 2020, 270, 115186.	5.1	40
61	Waste polyethylene terephthalate (PET) plastics-derived activated carbon for CO <sub>2</sub> capture: a route to a closed carbon loop. <i>Green Chemistry</i> , 2020, 22, 6836-6845.	4.6	57
62	State-of-art of branching T-junction: Experiments, modeling, developing prospects and applications. <i>Experimental Thermal and Fluid Science</i> , 2019, 109, 109895.	1.5	26
63	Consumers' Attitudes to Support Green Energy: A Case Study in Shanghai. <i>Energies</i> , 2019, 12, 2379.	1.6	21
64	Application of the Thermodynamic Cycle to Assess the Energy Efficiency of Amine-Based Absorption of Carbon Capture. <i>Energies</i> , 2019, 12, 2504.	1.6	10
65	Effect of Nanobubble Evolution on Hydrate Process: A Review. <i>Journal of Thermal Science</i> , 2019, 28, 948-961.	0.9	34
66	A comprehensive performance evaluation of temperature swing adsorption for post-combustion carbon dioxide capture. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109285.	8.2	57
67	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.	2.5	23
68	Performance Analysis on a Power and Ejector-Refrigeration System and the Involved Ejector. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	3
69	Molecular Simulation Studies on Vapor-Liquid Equilibria and Thermal Decomposition of Working Fluids – A Review. <i>Energy Procedia</i> , 2019, 158, 5263-5268.	1.8	1
70	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.	4.4	15
71	Estimation of horizontal direct solar radiation considering air quality index in China. <i>Energy Procedia</i> , 2019, 158, 424-430.	1.8	5
72	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

#	ARTICLE	IF	CITATIONS
73	A Case Study of Operation Optimization on A Renewable Energy Building by E-CPS Method: From Both Sides of Supply and Demand. Energy Procedia, 2019, 158, 6145-6151.	1.8	4
74	A new energy analysis model of seawater desalination based on thermodynamics. Energy Procedia, 2019, 158, 5472-5478.	1.8	6
75	A Numerical Study on Heat Transfer of R410A during Flow Boiling. Energy Procedia, 2019, 158, 5414-5420.	1.8	5
76	Thermodynamic and cycle model for MEA-based chemical CO <sub>2</sub> absorption. Energy Procedia, 2019, 158, 4941-4946.	1.8	6
77	Molecular Dynamics Simulation on Carbon Dioxide Hydrate Formation. Energy Procedia, 2019, 158, 4648-4654.	1.8	4
78	Thermodynamic exploration of temperature vacuum swing adsorption for direct air capture of carbon dioxide in buildings. Energy Conversion and Management, 2019, 183, 418-426.	4.4	44
79	Performance evaluation on solar box cooker with reflector tracking at optimal angle under Bahir Dar climate. Solar Energy, 2019, 180, 664-677.	2.9	39
80	Performance analysis of passive cooling for photovoltaic modules and estimation of energy-saving potential. Solar Energy, 2019, 181, 70-82.	2.9	42
81	Experimental investigation on separation and energy-efficiency performance of temperature swing adsorption system for CO <sub>2</sub> capture. Separation and Purification Technology, 2019, 227, 115670.	3.9	30
82	Molecular dynamics study on transport properties of supercritical working fluids: Literature review and case study. Applied Energy, 2019, 250, 63-80.	5.1	29
83	Performance analysis on novel thermodynamic cycle under the guidance of 3D construction method. Applied Energy, 2019, 250, 478-492.	5.1	22
84	Entropy analysis on energy-consumption process and improvement method of temperature/vacuum swing adsorption (TVSA) cycle. Energy, 2019, 179, 876-889.	4.5	18
85	Numerical analysis on CO <sub>2</sub> capture process of temperature swing adsorption (TSA): Optimization of reactor geometry. International Journal of Greenhouse Gas Control, 2019, 85, 187-198.	2.3	24
86	Dynamic test and verification of model-guided ORC system. Energy Conversion and Management, 2019, 186, 349-367.	4.4	25
87	Entropy Analysis of Temperature Swing Adsorption for CO <sub>2</sub> Capture Using the Computational Fluid Dynamics (CFD) Method. Entropy, 2019, 21, 285.	1.1	5
88	How interlayer twist angles affect in-plane and cross-plane thermal conduction of multilayer graphene: A non-equilibrium molecular dynamics study. International Journal of Heat and Mass Transfer, 2019, 137, 161-173.	2.5	38
89	How to rapidly predict the performance of ORC: Optimal empirical correlation based on cycle separation. Energy Conversion and Management, 2019, 188, 86-93.	4.4	16
90	Comparative analysis of thermodynamic theoretical models for energy consumption of CO <sub>2</sub> capture. Journal of Zhejiang University: Science A, 2019, 20, 882-892.	1.3	4

#	ARTICLE	IF	CITATIONS
91	Energy dissipation evaluation of temperature swing adsorption (TSA) cycle based on thermodynamic entropy insights. <i>Scientific Reports</i> , 2019, 9, 16599.	1.6	2
92	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.	4.5	19
93	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.	4.5	33
94	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.	4.6	40
95	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.	4.5	6
96	Cryogenic-based CO <sub>2</sub> capture technologies: State-of-the-art developments and current challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 265-278.	8.2	351
97	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.	4.6	22
98	A preliminary approach to the 3D construction of thermodynamic cycle based on zeotropic working fluids. <i>Chinese Science Bulletin</i> , 2019, 64, 206-214.	0.4	1
99	A quantitative evaluation method for uniformity of heat flux distribution in the parabolic trough collector. <i>Chinese Science Bulletin</i> , 2019, 64, 485-492.	0.4	6
100	Molecular Dynamics Study on Effect of Interface Between Silicon and Silicon Carbide Crystals on Phonon Heat Conduction on Nanoscale. , 2019, , .		0
101	Dynamic Behavior and Off-Design Performance Analysis of Solar Driven ORC Using Scroll Expanders. , 2019, , .		1
102	Mathematical modeling and numerical investigation of carbon capture by adsorption: Literature review and case study. <i>Applied Energy</i> , 2018, 221, 437-449.	5.1	56
103	Experimental study on phase separation of refrigerant at horizontal T-junction. <i>International Journal of Multiphase Flow</i> , 2018, 105, 217-233.	1.6	23
104	Dynamic performance investigation of organic Rankine cycle driven by solar energy under cloudy condition. <i>Energy</i> , 2018, 147, 122-141.	4.5	38
105	Simulation of two-phase refrigerant separation in horizontal T-junction. <i>Applied Thermal Engineering</i> , 2018, 134, 333-340.	3.0	24
106	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.	4.4	24
107	How to approach Carnot cycle via zeotropic working fluid: Research methodology and case study. <i>Energy</i> , 2018, 144, 576-586.	4.5	49
108	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.	5.1	18

#	ARTICLE	IF	CITATIONS
109	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.	4.4	48
110	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.	8.2	213
111	Alternative pathways for efficient CO <sub>2</sub> capture by hybrid processes—A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 215-231.	8.2	236
112	Thermodynamic research of adsorbent materials on energy efficiency of vacuum-pressure swing adsorption cycle for CO <sub>2</sub> capture. <i>Applied Thermal Engineering</i> , 2018, 128, 818-829.	3.0	50
113	Solar driven ORC-based CCHP: Comparative performance analysis between sequential and parallel system configurations. <i>Applied Thermal Engineering</i> , 2018, 131, 696-706.	3.0	59
114	A limiting efficiency of subcritical Organic Rankine cycle under the constraint of working fluids. <i>Energy</i> , 2018, 143, 458-466.	4.5	26
115	Feasibility Study on Application of Integrated Energy System in Cold Regions: A Case Study in Tianjin. , 2018, , .		1
116	Analysis of pressure drop in T-junction and its effect on thermodynamic cycle efficiency. <i>Applied Energy</i> , 2018, 231, 468-480.	5.1	12
117	Methodology for determining the design radiation for a PTC heating system based on non-guaranteed days. <i>Solar Energy</i> , 2018, 174, 97-107.	2.9	4
118	Molecular dynamic study on crossover of equilibrium time of conduction for silicon/silicon and silicon/silicon carbide pairs on nanoscale. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 85-95.	2.9	3
119	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.	2.3	17
120	Solar-assisted pressure-temperature swing adsorption for CO <sub>2</sub> capture: Effect of adsorbent materials. <i>Solar Energy Materials and Solar Cells</i> , 2018, 185, 494-504.	3.0	31
121	Study on heat and power decoupling for CCHP system: Methodology and case study. <i>Applied Thermal Engineering</i> , 2018, 142, 597-609.	3.0	28
122	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.	4.4	24
123	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.	2.5	15
124	Thermodynamic analysis on carbon dioxide capture by Electric Swing Adsorption (ESA) technology. <i>Journal of CO<sub>2</sub> Utilization</i> , 2018, 26, 388-396.	3.3	27
125	Case of Energy System in a Green Building in Tianjin. , 2018, , 1701-1740.		0
126	Preliminary experimental study of post-combustion carbon capture integrated with solar thermal collectors. <i>Applied Energy</i> , 2017, 185, 1471-1480.	5.1	31



#	ARTICLE	IF	CITATIONS
127	Configurations selection maps of CO <sub>2</sub> -based transcritical Rankine cycle (CTRC) for thermal energy management of engine waste heat. <i>Applied Energy</i> , 2017, 186, 423-435.	5.1	85
128	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.	3.0	9
129	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.	4.4	51
130	Novel experimental research on the compression process in organic Rankine cycle (ORC). <i>Energy Conversion and Management</i> , 2017, 137, 1-11.	4.4	35
131	Reducing the energy consumption of membrane-cryogenic hybrid CO <sub>2</sub> capture by process optimization. <i>Energy</i> , 2017, 124, 29-39.	4.5	94
132	A comparative study on CO <sub>2</sub> capture performance of vacuum-pressure swing adsorption and pressure-temperature swing adsorption based on carbon pump cycle. <i>Energy</i> , 2017, 137, 495-509.	4.5	63
133	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.	4.6	46
134	Performance analysis of temperature swing adsorption for CO <sub>2</sub> capture using thermodynamic properties of adsorbed phase. <i>Applied Thermal Engineering</i> , 2017, 123, 205-215.	3.0	28
135	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.	8.2	33
136	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.	2.9	28
137	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.	4.4	28
138	A Literature Research on the Performance Evaluation of Hydrate-based CO <sub>2</sub> Capture and Separation Process. <i>Energy Procedia</i> , 2017, 105, 4090-4097.	1.8	23
139	Analysis of System Optimization for CCHP System with Different Feed-in Tariff Policies. <i>Energy Procedia</i> , 2017, 105, 2484-2491.	1.8	7
140	Group contribution methods in thermodynamic cycles: Physical properties estimation of pure working fluids. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 984-1001.	8.2	31
141	A literature research on feasible application of mixed working fluid in flexible distributed energy system. <i>Energy</i> , 2017, 137, 377-390.	4.5	24
142	Performance and economic assessments of integrating geothermal energy into coal-fired power plant with CO <sub>2</sub> capture. <i>Energy</i> , 2017, 119, 278-287.	4.5	23
143	Advanced cryogenic CO <sub>2</sub> capture process based on Stirling coolers by heat integration. <i>Applied Thermal Engineering</i> , 2017, 114, 887-895.	3.0	51
144	New knowledge on the temperature-entropy saturation boundary slope of working fluids. <i>Energy</i> , 2017, 119, 211-217.	4.5	12

#	ARTICLE	IF	CITATIONS
145	Intelligent Control Methods of Demand Side Management in Integrated Energy System: Literature Review and Case Study. <i>Communications in Computer and Information Science</i> , 2017, , 556-565.	0.4	1
146	Experimental study and energy-efficiency evaluation of a 4-step pressure-vacuum swing adsorption (PVSA) for CO <sub>2</sub> capture. <i>Energy Conversion and Management</i> , 2017, 151, 179-189.	4.4	30
147	Natural gas purification by heat pump assisted MEA absorption process. <i>Applied Energy</i> , 2017, 204, 353-361.	5.1	42
148	A Critical Analysis on Performance of ORC through a Modified Thermodynamic Model Based on Fluid Property. <i>Energy Procedia</i> , 2017, 105, 385-390.	1.8	2
149	Evolution of bubbles in decomposition and replacement process of methane hydrate. <i>Molecular Simulation</i> , 2017, 43, 1061-1073.	0.9	17
150	Simultaneous working fluids design and cycle optimization for Organic Rankine cycle using group contribution model. <i>Applied Energy</i> , 2017, 202, 618-627.	5.1	54
151	How to predict the vapor slope of temperature-entropy saturation boundary of working fluids from molecular groups?. <i>Energy</i> , 2017, 135, 14-22.	4.5	9
152	Recent advances in modeling the vapor-liquid equilibrium of mixed working fluids. <i>Fluid Phase Equilibria</i> , 2017, 432, 28-44.	1.4	17
153	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.	5.1	102
154	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.	4.4	41
155	A critical review of the models used to estimate solar radiation. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 314-329.	8.2	192
156	Carbon pump: Fundamental theory and applications. <i>Energy</i> , 2017, 119, 1131-1143.	4.5	73
157	Numerical investigations and mathematical models of carbon capture by adsorption-A review. <i>Energy Procedia</i> , 2017, 142, 3244-3251.	1.8	2
158	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
159	A 3D Numerical Analysis on Local Pressure Drop of R134a in a Horizontal T-junction. <i>Energy Procedia</i> , 2017, 142, 3844-3850.	1.8	3
160	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
161	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
162	A novel ammonia-based CO <sub>2</sub> capture process hybrid ammonia absorption refrigeration. <i>Energy Procedia</i> , 2017, 142, 3734-3740.	1.8	9

#	ARTICLE	IF	CITATIONS
163	A numerical analysis on energy-efficiency performance of temperature swing adsorption for CO <sub>2</sub> capture. <i>Energy Procedia</i> , 2017, 142, 3200-3207.	1.8	14
164	Recent Trends in Load Forecasting Technology for the Operation Optimization of Distributed Energy System. <i>Energies</i> , 2017, 10, 1303.	1.6	32
165	The Role of Intelligent Computing in Load Forecasting for Distributed Energy System. <i>Communications in Computer and Information Science</i> , 2017, , 547-555.	0.4	0
166	Case of Energy System in a Green Building in Tianjin. , 2017, , 1-40.		0
167	A technical and economic study on solar-assisted ammonia-based post-combustion CO <sub>2</sub> capture of power plant. <i>Applied Thermal Engineering</i> , 2016, 102, 412-422.	3.0	25
168	Evaluation of hydrolysis-esterification biodiesel production from wet microalgae. <i>Bioresource Technology</i> , 2016, 214, 747-754.	4.8	37
169	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
170	Match Performance Analysis for a Solar-driven Energy System in Net Zero Energy Building. <i>Energy Procedia</i> , 2016, 88, 394-400.	1.8	3
171	Dynamic match optimization: Emerging control concept of sustainable distributed energy system. , 2016, , .		0
172	An Overview of 200 kW Solar Power Plant Based on Organic Rankine Cycle. <i>Energy Procedia</i> , 2016, 88, 356-362.	1.8	10
173	Review of fundamental properties of CO <sub>2</sub> hydrates and CO <sub>2</sub> capture and separation using hydration method. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 1273-1302.	8.2	189
174	Intensification of microalgae drying and oil extraction process by vapor recompression and heat integration. <i>Bioresource Technology</i> , 2016, 207, 67-75.	4.8	16
175	Technical and economic analysis of integrating low-medium temperature solar energy into power plant. <i>Energy Conversion and Management</i> , 2016, 112, 459-469.	4.4	52
176	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.	1.8	42
177	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.	2.5	21
178	Analysis of a novel combined power and ejector-refrigeration cycle. <i>Energy Conversion and Management</i> , 2016, 108, 266-274.	4.4	79
179	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.	4.4	34
180	Performance analysis of the ejector-expansion refrigeration cycle using zeotropic mixtures. <i>International Journal of Refrigeration</i> , 2015, 57, 197-207.	1.8	36

#	ARTICLE	IF	CITATIONS
181	Trends in patents for solar thermal utilization in China. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 852-862.	8.2	24
182	Techno-economic Study of Solar-assisted Post-combustion Carbon Capture System Integrated with Desalination. <i>Energy Procedia</i> , 2014, 61, 1614-1617.	1.8	1
183	Energy Efficient Considerations on Carbon Dioxide Capture: Solar Thermal Engineering (Part I). <i>Energy Procedia</i> , 2014, 61, 2670-2673.	1.8	2
184	A comparative analysis on experimental performance of CO <sub>2</sub> trans-critical cycle. <i>HVAC and R Research</i> , 2014, 20, 532-544.	0.9	3
185	Energy Efficient Considerations on Carbon Dioxide Capture: Solar Thermal Engineering (Part II). <i>Energy Procedia</i> , 2014, 61, 2674-2677.	1.8	1
186	Integrating solar Organic Rankine Cycle into a coal-fired power plant with amine-based chemical absorption for CO <sub>2</sub> capture. <i>International Journal of Greenhouse Gas Control</i> , 2014, 31, 77-86.	2.3	43
187	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.	3.1	63
188	How to evaluate performance of net zero energy building “A literature research. <i>Energy</i> , 2014, 71, 1-16.	4.5	251
189	Techno-economic Study of Carbon Capture from Coal-fired Power Plant Using MEA Assisted by Solar Organic Rankine Cycle for Power Generation. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2014, 50, 151.	0.7	2
190	Performance optimization and analysis of solar combi-system with carbon dioxide heat pump. <i>Solar Energy</i> , 2013, 98, 212-225.	2.9	29
191	Performance study on hybrid solar-assisted CO <sub>2</sub> heat pump system based on the energy balance of net zero energy apartment. <i>Energy and Buildings</i> , 2012, 54, 337-349.	3.1	13
192	Case study of green energy system design for a multi-function building in campus. <i>Sustainable Cities and Society</i> , 2011, 1, 152-163.	5.1	24
193	Comparison study on performance of a hybrid solar-assisted CO <sub>2</sub> heat pump. <i>Applied Thermal Engineering</i> , 2011, 31, 3696-3705.	3.0	25
194	Energy supply concepts for zero energy residential buildings in humid and dry climate. <i>Energy Conversion and Management</i> , 2011, 52, 2455-2460.	4.4	54
195	A Review of Load Forecasting of the Distributed Energy System. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 237, 042019.	0.2	6