

Yuan-Yuan Duan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4367345/publications.pdf>

Version: 2024-02-01

252
papers

6,565
citations

57758

44
h-index

102487

66
g-index

254
all docs

254
docs citations

254
times ranked

3754
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of condensation temperature glide on the performance of organic Rankine cycles with zeotropic mixture working fluids. <i>Applied Energy</i> , 2014, 115, 394-404.	10.1	176
2	Parametric optimization and performance analyses of geothermal organic Rankine cycles using R600a/R601a mixtures as working fluids. <i>Applied Energy</i> , 2015, 148, 410-420.	10.1	156
3	A Critical Review of Dynamic Wetting by Complex Fluids: From Newtonian Fluids to Non-Newtonian Fluids and Nanofluids. <i>Advances in Colloid and Interface Science</i> , 2016, 236, 43-62.	14.7	146
4	Effects of flow channel geometry on cell performance for PEM fuel cells with parallel and interdigitated flow fields. <i>Electrochimica Acta</i> , 2008, 53, 5334-5343.	5.2	131
5	Parametric optimization and thermodynamic performance comparison of single-pressure and dual-pressure evaporation organic Rankine cycles. <i>Applied Energy</i> , 2018, 217, 409-421.	10.1	128
6	Gradient theory modeling of surface tension for pure fluids and binary mixtures. <i>Fluid Phase Equilibria</i> , 2007, 254, 75-90.	2.5	127
7	Numerical study on channel size effect for proton exchange membrane fuel cell with serpentine flow field. <i>Energy Conversion and Management</i> , 2010, 51, 959-968.	9.2	125
8	Local transport phenomena and cell performance of PEM fuel cells with various serpentine flow field designs. <i>Journal of Power Sources</i> , 2008, 175, 397-407.	7.8	119
9	Performance analyses of geothermal organic Rankine cycles with selected hydrocarbon working fluids. <i>Energy</i> , 2013, 63, 123-132.	8.8	112
10	Novel serpentine-baffle flow field design for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2007, 173, 210-221.	7.8	110
11	Multi-parameters optimization for microchannel heat sink using inverse problem method. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 2811-2819.	4.8	110
12	Optical and radiative properties of infrared opacifier particles loaded in silica aerogels for high temperature thermal insulation. <i>International Journal of Thermal Sciences</i> , 2013, 70, 54-64.	4.9	109
13	Thermodynamic performance analyses and optimization of subcritical and transcritical organic Rankine cycles using R1234ze(E) for 100–200 °C heat sources. <i>Energy Conversion and Management</i> , 2017, 149, 140-154.	9.2	107
14	Internal flow in evaporating droplet on heated solid surface. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4437-4447.	4.8	98
15	Effects of evaporator pinch point temperature difference on thermo-economic performance of geothermal organic Rankine cycle systems. <i>Geothermics</i> , 2018, 75, 249-258.	3.4	86
16	Effects of solid–gas coupling and pore and particle microstructures on the effective gaseous thermal conductivity in aerogels. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	83
17	Effects of non-ideal structures and high temperatures on the insulation properties of aerogel-based composite materials. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3822-3829.	3.1	79
18	A 3-D numerical heat transfer model for silica aerogels based on the porous secondary nanoparticle aggregate structure. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1287-1297.	3.1	79

#	ARTICLE	IF	CITATIONS
19	Radiative properties and heat transfer characteristics of fiber-loaded silica aerogel composites for thermal insulation. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5196-5204.	4.8	77
20	Radiative characteristics of opacifier-loaded silica aerogel composites. <i>Journal of Non-Crystalline Solids</i> , 2013, 375, 31-39.	3.1	77
21	Molecular dynamics simulation on evaporation of water and aqueous droplets in the presence of electric field. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 533-541.	4.8	77
22	Off-design performance of a supercritical CO ₂ Brayton cycle integrated with a solar power tower system. <i>Energy</i> , 2020, 201, 117676.	8.8	77
23	Performance analysis of organic Rankine cycles using R600/R601a mixtures with liquid-separated condensation. <i>Applied Energy</i> , 2017, 190, 376-389.	10.1	73
24	Simulation of condensation flow in a rectangular microchannel. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 76, 60-69.	3.6	70
25	Surface tension, viscosity, and rheology of water-based nanofluids: a microscopic interpretation on the molecular level. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	69
26	Numerical study of cell performance and local transport phenomena in PEM fuel cells with various flow channel area ratios. <i>Journal of Power Sources</i> , 2007, 172, 265-277.	7.8	66
27	Part-load performance analysis and comparison of supercritical CO ₂ Brayton cycles. <i>Energy Conversion and Management</i> , 2020, 214, 112832.	9.2	66
28	An analytical model for combined radiative and conductive heat transfer in fiber-loaded silica aerogels. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1303-1312.	3.1	65
29	Correlations for second and third virial coefficients of pure fluids. <i>Fluid Phase Equilibria</i> , 2004, 226, 109-120.	2.5	63
30	Effect of humidity of reactants on the cell performance of PEM fuel cells with parallel and interdigitated flow field designs. <i>Journal of Power Sources</i> , 2008, 176, 247-258.	7.8	63
31	Thermodynamic analysis of dual-loop organic Rankine cycle using zeotropic mixtures for internal combustion engine waste heat recovery. <i>Energy Conversion and Management</i> , 2018, 166, 201-214.	9.2	61
32	Progress Toward Redetermining the Boltzmann Constant with a Fixed-Path-Length Cylindrical Resonator. <i>International Journal of Thermophysics</i> , 2011, 32, 1297-1329.	2.1	59
33	Empirical correction to the Peng-Robinson equation of state for the saturated region. <i>Fluid Phase Equilibria</i> , 2005, 233, 194-203.	2.5	58
34	Thermodynamic analysis and optimization of a solar organic Rankine cycle operating with stable output. <i>Energy Conversion and Management</i> , 2019, 187, 459-471.	9.2	58
35	Effect of nanofluids on thin film evaporation in microchannels. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5033-5047.	1.9	56
36	Experimental vapor pressure data and a vapor pressure equation for trifluoroiodomethane (CF ₃ I). <i>Fluid Phase Equilibria</i> , 1996, 121, 227-234.	2.5	54

#	ARTICLE	IF	CITATIONS
37	Improved determination of the Boltzmann constant using a single, fixed-length cylindrical cavity. <i>Metrologia</i> , 2013, 50, 417-432.	1.2	53
38	Effects of heat source temperature and mixture composition on the combined superiority of dual-pressure evaporation organic Rankine cycle and zeotropic mixtures. <i>Energy</i> , 2019, 174, 436-449.	8.8	51
39	Techno-economic feasibility of solar power plants considering PV/CSP with electrical/thermal energy storage system. <i>Energy Conversion and Management</i> , 2022, 255, 115308.	9.2	50
40	Thermo-economic analysis of the pumped thermal energy storage with thermal integration in different application scenarios. <i>Energy Conversion and Management</i> , 2021, 236, 114072.	9.2	49
41	Numerical analysis on performances of polymer electrolyte membrane fuel cells with various cathode flow channel geometries. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15778-15786.	7.1	48
42	Experimental and analytical analyses of the thermal conductivities and high-temperature characteristics of silica aerogels based on microstructures. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 015304.	2.8	48
43	Theoretical model of radiative transfer in opacified aerogel based on realistic microstructures. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 478-485.	4.8	48
44	Channel aspect ratio effect for serpentine proton exchange membrane fuel cell: Role of sub-rib convection. <i>Journal of Power Sources</i> , 2009, 193, 684-690.	7.8	46
45	Effects of superheat and temperature-dependent thermophysical properties on evaporating thin liquid films in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1259-1267.	4.8	46
46	Multi-objective optimization of organic Rankine cycle using hydrofluorolefins (HFOs) based on different target preferences. <i>Energy</i> , 2020, 203, 117848.	8.8	46
47	Ultrathin planar broadband absorber through effective medium design. <i>Nano Research</i> , 2016, 9, 2354-2363.	10.4	45
48	Performance analyses of a hybrid geothermal-fossil power generation system using low-enthalpy geothermal resources. <i>Applied Energy</i> , 2016, 162, 149-162.	10.1	45
49	Design and performance analyses for a novel organic Rankine cycle with supercritical-subcritical heat absorption process coupling. <i>Applied Energy</i> , 2019, 235, 1400-1414.	10.1	43
50	Volumetric Property Improvement for the Soave-Redlich-Kwong Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 1829-1839.	3.7	42
51	Thermo-economic optimization of the hybrid geothermal-solar power system: A data-driven method based on lifetime off-design operation. <i>Energy Conversion and Management</i> , 2021, 229, 113738.	9.2	42
52	Thermo-economic performance analyses and comparison of two turbine layouts for organic Rankine cycles with dual-pressure evaporation. <i>Energy Conversion and Management</i> , 2018, 164, 603-614.	9.2	40
53	Optimal capacity and operation strategy of a solar-wind hybrid renewable energy system. <i>Energy Conversion and Management</i> , 2021, 244, 114519.	9.2	40
54	Load matching and techno-economic analysis of CSP plant with CO ₂ Brayton cycle in CSP-PV-wind hybrid system. <i>Energy</i> , 2021, 223, 120016.	8.8	39

#	ARTICLE	IF	CITATIONS
55	Novel design optimization of concentrated solar power plant with S-CO ₂ Brayton cycle based on annual off-design performance. Applied Thermal Engineering, 2021, 192, 116924.	6.0	39
56	Wetting kinetics of water nano-droplet containing non-surfactant nanoparticles: A molecular dynamics study. Applied Physics Letters, 2013, 103, .	3.3	38
57	Sphere Drag and Heat Transfer. Scientific Reports, 2015, 5, 12304.	3.3	37
58	Effects of shell-and-tube heat exchanger arranged forms on the thermo-economic performance of organic Rankine cycle systems using hydrocarbons. Energy Conversion and Management, 2020, 203, 112248.	9.2	36
59	Modeling the viscosity of hydrofluorocarbons, hydrofluoroolefins and their binary mixtures using residual entropy scaling and cubic-plus-association equation of state. Journal of Molecular Liquids, 2020, 308, 113027.	4.9	34
60	Energy-based model for capillary spreading of power-law liquids on a horizontal plane. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 403, 155-163.	4.7	33
61	Surface Tension Measurements of Propane (R-290) and Isobutane (R-600a) from (253 to 333) K. Journal of Chemical & Engineering Data, 2003, 48, 1360-1363.	1.9	32
62	Capacity optimization and feasibility assessment of solar-wind hybrid renewable energy systems in China. Journal of Cleaner Production, 2022, 368, 133139.	9.3	32
63	Thermodynamic Properties of Trifluoriodomethane (CF ₃ I)1. International Journal of Thermophysics, 2000, 21, 393-404.	2.1	31
64	Viscosity of Water under Electric Field: Anisotropy Induced by Redistribution of Hydrogen Bonds. Journal of Physical Chemistry B, 2016, 120, 4818-4827.	2.6	31
65	Exergy analysis of novel dual-pressure evaporation organic Rankine cycle using zeotropic mixtures. Energy Conversion and Management, 2019, 195, 760-769.	9.2	31
66	Thermodynamic analysis of serial dual-pressure organic Rankine cycle under off-design conditions. Energy Conversion and Management, 2020, 213, 112837.	9.2	30
67	Wettability of a nano-droplet in an electric field: A molecular dynamics study. Applied Thermal Engineering, 2017, 122, 71-79.	6.0	29
68	A review on integrated design and off-design operation of solar power tower system with S-CO ₂ Brayton cycle. Energy, 2022, 246, 123348.	8.8	29
69	Study on initial stage of capillary rise dynamics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 433, 95-103.	4.7	28
70	On the temperature dependence of the $\hat{\mu}$ function in the cubic equation of state. Chemical Engineering Science, 2018, 192, 565-575.	3.8	28
71	Dynamic Wetting of Non-Newtonian Fluids: Multicomponent Molecular-Kinetic Approach. Langmuir, 2010, 26, 14594-14599.	3.5	27
72	Optimal schemes and benefits of recovering waste heat from data center for district heating by CO ₂ transcritical heat pumps. Energy Conversion and Management, 2021, 245, 114591.	9.2	27

#	ARTICLE	IF	CITATIONS
73	Design, improvements and applications of dual-pressure evaporation organic Rankine cycles: A review. Applied Energy, 2022, 311, 118609.	10.1	27
74	Dynamics of Spreading of Liquid on Solid Surface. Chinese Journal of Chemical Engineering, 2007, 15, 730-737.	3.5	26
75	Binary interaction parameter kij for calculating the second cross-virial coefficients of mixtures. Fluid Phase Equilibria, 2007, 260, 354-358.	2.5	26
76	Speed of Sound Measurements Using a Cylindrical Resonator for Gaseous Carbon Dioxide and Propene. Journal of Chemical & Engineering Data, 2014, 59, 2788-2798.	1.9	26
77	How to design organic Rankine cycle system under fluctuating ambient temperature: A multi-objective approach. Energy Conversion and Management, 2020, 224, 113331.	9.2	26
78	Prediction of the second cross virial coefficients of nonpolar binary mixtures. Fluid Phase Equilibria, 2005, 238, 229-238.	2.5	25
79	Vapor-Liquid Equilibria Predictions for New Refrigerant Mixtures Based on Group Contribution Theory. Industrial & Engineering Chemistry Research, 2007, 46, 9274-9284.	3.7	25
80	Vapor pressure of 1,1,1,2,3,3,3-heptafluoropropane. Fluid Phase Equilibria, 1999, 163, 109-117.	2.5	24
81	Surface Tension of 1,1,1-Trifluoroethane (HFC-143a), 1,1,1,2,3,3,3-Heptafluoropropane (HFC-227ea), and Their Binary Mixture HFC-143a/227ea. International Journal of Thermophysics, 2003, 24, 1495-1508.	2.1	24
82	Selectively enhanced near-field radiative transfer between plasmonic emitter and GaSb with nanohole and nanowire periodic arrays for thermophotovoltaics. International Journal of Heat and Mass Transfer, 2018, 123, 67-74.	4.8	23
83	Surface tension measurements of 1,1,1,3,3-pentafluoropropane (HFC-245fa) and 1,1,1,3,3,3-hexafluoropropane (HFC-236fa) from 254 to 333 K. Fluid Phase Equilibria, 2003, 214, 79-86.	2.5	22
84	Spreading of completely wetting, non-Newtonian fluids with non-power-law rheology. Journal of Colloid and Interface Science, 2010, 348, 250-254.	9.4	22
85	Visualization of Two-Phase Flows in Nanofluid Oscillating Heat Pipes. Journal of Heat Transfer, 2011, 133, .	2.1	22
86	Thermodynamic performance limits of the organic Rankine cycle: Working fluid parameterization based on corresponding states modeling. Energy Conversion and Management, 2020, 217, 113011.	9.2	22
87	Thermal conductivity measurements and correlations of pure R1243zf and binary mixtures of R32+R1243zf and R32+R1234yf. International Journal of Refrigeration, 2021, 131, 990-999.	3.4	22
88	Isothermal vapor-liquid equilibria for the pentafluoroethane+propane and pentafluoroethane+1,1,1,2,3,3,3-heptafluoropropane systems. Fluid Phase Equilibria, 2010, 290, 121-126.	2.5	21
89	Does macroscopic flow geometry influence wetting dynamic?. Journal of Colloid and Interface Science, 2011, 362, 221-227.	9.4	21
90	Experimental study on the dynamic wetting of dilute nanofluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 486, 6-13.	4.7	21

#	ARTICLE	IF	CITATIONS
91	Thermodynamic Performance Analyses and Optimization of Dual-Loop Organic Rankine Cycles for Internal Combustion Engine Waste Heat Recovery. Applied Sciences (Switzerland), 2019, 9, 680.	2.5	21
92	Vapor Pressures of 1,1,1,3,3-Pentafluoropropane (HFC-245fa) and 1,1,1,2,3,3,3-Heptafluoropropane (HFC-227ea). Journal of Chemical & Engineering Data, 2004, 49, 1581-1585.	1.9	20
93	Crossover CPA equation of state for associating fluids. Fluid Phase Equilibria, 2010, 290, 148-152.	2.5	20
94	Gaseous $p_v T x$ Properties of Mixtures of Carbon Dioxide and Propane with the Burnett Isochoric Method. Journal of Chemical & Engineering Data, 2010, 55, 3400-3409.	1.9	20
95	Pore blockage of organic fouling layer with highly heterogeneous structure in membrane filtration: Role of minor organic foulants. Journal of Membrane Science, 2012, 411-412, 30-34.	8.2	20
96	Influence of flow distribution on the thermal performance of dual-media thermocline energy storage systems. Applied Energy, 2015, 142, 283-292.	10.1	20
97	Simple Rectangular Gratings as a Near-Field "Anti-Reflection" Pattern for GaSb TPV Cells. Scientific Reports, 2017, 7, 1026.	3.3	20
98	Influence of head resistance force and viscous friction on dynamic contact angle measurement in Wilhelmy plate method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 527, 115-122.	4.7	20
99	Performance analyses and improvement guidelines for organic Rankine cycles using R600a/R601a mixtures driven by heat sources of 100°C to 200°C. International Journal of Energy Research, 2019, 43, 905-920.	4.5	20
100	Experimental pressure-volume-temperature data and an equation of state for trifluoroiodomethane (CF ₃ I) in gaseous phase. Fluid Phase Equilibria, 1997, 131, 233-241.	2.5	19
101	Surface Tension Measurements of Difluoromethane (R-32) and the Binary Mixture Difluoromethane (R-32) + 1,1,1,2-Tetrafluoroethane (R-134a) from (253 to 333) K. Journal of Chemical & Engineering Data, 2003, 48, 1068-1072.	1.9	19
102	Optimized liquid-separated thermodynamic states for working fluids of organic Rankine cycles with liquid-separated condensation. Energy, 2017, 141, 652-660.	8.8	19
103	Surface tension of pentafluoroethane and 1,1,1,2,3,3,3-heptafluoropropane. Fluid Phase Equilibria, 2000, 172, 237-244.	2.5	18
104	An extended correlation for second virial coefficients of associated and quantum fluids. Fluid Phase Equilibria, 2007, 258, 29-33.	2.5	18
105	Vapor pressure and gaseous speed of sound measurements for isobutane (R600a). Fluid Phase Equilibria, 2014, 382, 260-269.	2.5	18
106	Effects of Free Surface Evaporation on Water Nanodroplet Wetting Kinetics: A Molecular Dynamics Study. Journal of Heat Transfer, 2015, 137, .	2.1	18
107	Wetting kinetics of nanodroplets on lyophilic nanopillar-arrayed surfaces: A molecular dynamics study. Chemical Physics Letters, 2017, 685, 27-33.	2.6	18
108	Thermo-economic performance evaluation of emerging liquid-separated condensation method in single-pressure and dual-pressure evaporation organic Rankine cycle systems. Applied Energy, 2019, 256, 113974.	10.1	18

#	ARTICLE	IF	CITATIONS
109	Crossover multiparameter equation of state: General procedure and demonstration with carbon dioxide. <i>Fluid Phase Equilibria</i> , 2019, 494, 161-171.	2.5	18
110	A Review of Multi-Objective Optimization in Organic Rankine Cycle (ORC) System Design. <i>Energies</i> , 2021, 14, 6492.	3.1	18
111	Critical Parameters and Saturated Density of Trifluoroiodomethane (CF ₃ I). <i>Journal of Chemical & Engineering Data</i> , 1999, 44, 501-504.	1.9	17
112	Gaseous Pressure~Volume~Temperature Properties of 1,1,1,2,3,3,3-Heptafluoropropane. <i>Journal of Chemical & Engineering Data</i> , 1999, 44, 1402-1408.	1.9	17
113	Vapor pressures of 1,1,1,2,3,3,3-heptafluoropropane, 1,1,1,3,3,3-hexafluoropropane and 1,1,1,3,3-pentafluoropropane. <i>Fluid Phase Equilibria</i> , 2010, 290, 127-136.	2.5	17
114	Channel Geometry Effect for Proton Exchange Membrane Fuel Cell With Serpentine Flow Field Using a Three-Dimensional Two-Phase Model. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	17
115	Crossover Volume Translation Soave~Redlich~Kwong Equation of State for Fluids. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6580-6585.	3.7	17
116	New Insight into the Angle Insensitivity of Ultrathin Planar Optical Absorbers for Broadband Solar Energy Harvesting. <i>Scientific Reports</i> , 2016, 6, 32515.	3.3	17
117	Viscosity of binary refrigerant mixtures of R32~+~R1234yf and R32~+~R1243zf. <i>International Journal of Refrigeration</i> , 2021, 128, 197-197.	3.4	17
118	Modeling the thermal conductivity of hydrofluorocarbons, hydrofluoroolefins and their binary mixtures using residual entropy scaling and cubic-plus-association equation of state. <i>Journal of Molecular Liquids</i> , 2021, 330, 115612.	4.9	17
119	Surface tension of trifluoroiodomethane (CF ₃ I). <i>Fluid Phase Equilibria</i> , 1999, 154, 71-77.	2.5	16
120	Saturated Liquid Viscosity of Cyclopentane and Isopentane. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 1418-1421.	1.9	16
121	Thermodynamic model for heterogeneous bubble nucleation in a temperature gradient. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	16
122	Vapor Pressure of HFE 7100. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 1206-1210.	1.9	16
123	Measurements and New Vapor Pressure Correlation for HFO-1234ze(E). <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 328-332.	1.9	16
124	The cubic-plus-association equation of state for hydrofluorocarbons, hydrofluoroolefins, and their binary mixtures. <i>Chemical Engineering Science</i> , 2019, 209, 115182.	3.8	16
125	Prediction of the critical properties of binary alkanol+alkane mixtures using a crossover CPA equation of state. <i>Fluid Phase Equilibria</i> , 2011, 309, 168-173.	2.5	15
126	Vapor Pressure Measurements and Correlation for <i>trans</i> -1-Chloro-3,3,3-trifluoroprop-1-ene. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 2947-2954.	1.9	15

#	ARTICLE	IF	CITATIONS
127	Influences of fluid corrosivity and heat exchanger materials on design and thermo-economic performance of organic Rankine cycle systems. <i>Energy</i> , 2021, 228, 120589.	8.8	15
128	Simplified Gradient Theory Modeling of the Surface Tension for Binary Mixtures. <i>International Journal of Thermophysics</i> , 2008, 29, 423-433.	2.1	14
129	Effect of Nanostructured Roughness on Evaporating Thin Films in Microchannels for Wenzel and Cassie-Baxter States. <i>Journal of Heat Transfer</i> , 2013, 135, .	2.1	14
130	Crossover VTSRK equation of state for selected alkane-alkane and CO ₂ -alkane binary mixtures. <i>Fluid Phase Equilibria</i> , 2016, 408, 180-189.	2.5	14
131	Dynamic Spreading of Droplets on Lyophilic Micropillar-Arrayed Surfaces. <i>Langmuir</i> , 2018, 34, 4417-4425.	3.5	14
132	Thermo-economic analyses and evaluations of small-scale dual-pressure evaporation organic Rankine cycle system using pure fluids. <i>Energy</i> , 2020, 206, 118217.	8.8	14
133	Determination of T_{90} from 234 K to 303 K by acoustic thermometry with a cylindrical resonator. <i>Metrologia</i> , 2020, 57, 024004.	1.2	14
134	Vapor-liquid equilibrium measurements for the binary mixtures of pentafluoroethane (R125) with 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf) and 3,3,3-Trifluoropropene (R1243zf). <i>International Journal of Refrigeration</i> , 2022, 134, 115-125.	3.4	14
135	Speed of Sound and Ideal-Gas Heat Capacity at Constant Pressure of Gaseous Difluoromethane. <i>Journal of Chemical & Engineering Data</i> , 1997, 42, 795-799.	1.9	13
136	Speed of sound, ideal-gas heat capacity at constant pressure, and second virial coefficients of HFC-227ea. <i>Fluid Phase Equilibria</i> , 2001, 178, 73-85.	2.5	13
137	Boiling flow of R141b in vertical and inclined Serpentine Tubes. <i>International Journal of Heat and Mass Transfer</i> , 2013, 57, 312-320.	4.8	13
138	Four-layer metallodielectric emitter for spectrally selective near-field radiative transfer in nano-gap thermophotovoltaics. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 235-242.	2.3	13
139	Impact regimes of nanodroplets impacting nanopillared surfaces. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	13
140	Surface tension of the binary refrigerant mixture HFC-32 + HFC-125. <i>Fluid Phase Equilibria</i> , 2003, 213, 89-98.	2.5	12
141	Bubble growth for boiling bubbly flow for R141b in a serpentine tube. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2011, 42, 727-734.	5.3	12
142	On the Freezing and Melting Behavior of the Eutectic Pt-C. <i>International Journal of Thermophysics</i> , 2011, 32, 2680-2695.	2.1	12
143	Internal flow and heat transfer of a condensing water droplet in steam flow. <i>Chemical Engineering Science</i> , 2013, 94, 54-59.	3.8	12
144	Structure and flow calculation of cake layer on microfiltration membranes. <i>Journal of Environmental Sciences</i> , 2017, 56, 95-101.	6.1	12

#	ARTICLE	IF	CITATIONS
145	Molecular Dynamics Analysis on the Wetting Properties of R32, R1234yf, and Their Mixture on Pillar-Type Nanostructured Substrates. <i>Langmuir</i> , 2020, 36, 55-63.	3.5	12
146	Molecular dynamics simulation on evaporation of a suspending difluoromethane nanodroplet. <i>International Journal of Heat and Mass Transfer</i> , 2020, 158, 120024.	4.8	12
147	Experimental Speed of Sound for 3,3,3-Trifluoropropene (R-1243zf) in Gaseous Phase Measured with Cylindrical Resonator. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 2256-2263.	1.9	12
148	Measurements and correlation of vapor-liquid equilibrium for difluoromethane (R-32)+3,3,3-tetrafluoroprop-1-ene (R-1234yf) and pentafluoroethane (R-125)+propane (R-290). <i>Fluid Phase Equilibria</i> , 2021, 538, 113010.	2.5	12
149	Molecular dynamics simulations of R32/R1234yf nanoscale boiling on a smooth substrate. <i>International Journal of Heat and Mass Transfer</i> , 2022, 182, 121944.	4.8	12
150	Vapor-liquid equilibrium measurements for binary mixtures of carbon dioxide (CO ₂)+2,3,3,3-Tetrafluoroprop-1-ene (R-1234yf) and carbon dioxide (CO ₂)+3,3,3-Trifluoropropene (R-1243zf). <i>Fluid Phase Equilibria</i> , 2022, 561, 113542.	2.5	12
151	Site-site potential function and second virial coefficients for linear molecules. <i>Molecular Physics</i> , 2006, 104, 2891-2899.	1.7	11
152	Bubble dynamical behavior and thermal non-equilibrium during flow boiling in U-turn bends of hairpin tubes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 1177-1186.	3.6	11
153	Near-Wall Liquid Layering, Velocity Slip, and Solid-Liquid Interfacial Thermal Resistance for Thin-Film Evaporation in Microchannels. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2011, 15, 105-122.	2.6	11
154	Effect of Moving Contact Line's Curvature on Dynamic Wetting of non-Newtonian Fluids. <i>Langmuir</i> , 2018, 34, 15612-15620.	3.5	11
155	Thermo-economic performance improvement of butane/isopentane mixtures in organic Rankine cycles by liquid-separated condensation method. <i>Applied Thermal Engineering</i> , 2020, 181, 115941.	6.0	11
156	Molecular dynamics simulations of nanodroplet evaporation of refrigerants. <i>International Journal of Refrigeration</i> , 2021, 121, 243-252.	3.4	11
157	Vapor-liquid equilibrium measurements for the binary mixtures of 1,1-difluoroethane (R152a) with trans-1,3,3,3-tetrafluoropropene (R1234ze(E)) and 3,3,3-trifluoropropene (R1243zf). <i>Fluid Phase Equilibria</i> , 2022, 558, 113470.	2.5	11
158	EXPERIMENTAL STUDY ON BEHAVIOR OF FROST CRYSTAL FORMATION. <i>International Communications in Heat and Mass Transfer</i> , 2003, 30, 323-332.	5.6	10
159	Surface Tension for the 1,1,1-Trifluoroethane (R-143a) + 1,1,1,2-Tetrafluoroethane (R-134a) System. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 372-375.	1.9	10
160	Surface Tension of Difluoromethane (R-32) + 1,1,1,2,3,3,3-Heptafluoropropane (R-227ea) from (253 to 333) K. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 182-186.	1.9	10
161	Calculation and experimental validation of spectral properties of microsize grains surrounded by nanoparticles. <i>Optics Express</i> , 2014, 22, 7925.	3.4	10
162	Applicability of the effective medium theory for optimizing thermal radiative properties of systems containing wavelength-sized particles. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 303-311.	4.8	10

#	ARTICLE	IF	CITATIONS
163	Evaporation of R32/R1234yf mixture nanodroplets on a smooth substrate: Molecular dynamics simulation. Chemical Physics Letters, 2019, 733, 136672.	2.6	10
164	Thermodynamic Properties of 1,1,1,2,3,3,3-Heptafluoropropane. International Journal of Thermophysics, 2001, 22, 1463-1474.	2.1	9
165	Vapor-Liquid Equilibria Predictions for Alternative Working Fluids at Low and Moderate Pressures. Industrial & Engineering Chemistry Research, 2008, 47, 7501-7508.	3.7	9
166	Crossover Equation of State for Selected Hydrocarbons (C4-C7). Chinese Journal of Chemical Engineering, 2014, 22, 1291-1297.	3.5	9
167	<i>p</i> <i>v</i> <i>T</i> Properties for R-227ea and HFE-7100 in the Liquid Phase. Journal of Chemical & Engineering Data, 2016, 61, 1462-1467.	1.9	9
168	<i>p</i> <i>v</i> <i>T</i> Property of HFO-1234ze(E) in the Gaseous Phase. Journal of Chemical & Engineering Data, 2018, 63, 2075-2080.	1.9	9
169	Empirical correlations for second virial coefficients of nonpolar and polar fluids covering a wide temperature range. Fluid Phase Equilibria, 2021, 539, 113032.	2.5	9
170	Experimental speed of sound for trans-1-Chloro-3,3,3-trifluoroprop-1-ene (R1233zd(E)) and trans-1,1,1,4,4,4-Hexafluorobut-2-ene (R1336mzz(E)) in gaseous phase. Journal of Chemical Thermodynamics, 2022, 171, 106808.	2.0	9
171	Gaseous PVT properties of 1,1,1,3,3,3-hexafluoropropane (HFC-236fa). Fluid Phase Equilibria, 2004, 226, 313-320.	2.5	8
172	PVTxProperties in the Gas Phase for Difluoromethane (HFC-32) + Pentafluoroethane (HFC-125). Journal of Chemical & Engineering Data, 2004, 49, 1821-1826.	1.9	8
173	Measurement of Vapor-Liquid Equilibria for the Pentafluoroethane + Propene Binary System from (263.15 to 323.15) K. Journal of Chemical & Engineering Data, 2010, 55, 3184-3188.	1.9	8
174	Efficient and accurate computation scheme of <i>p</i> <i>v</i> <i>T</i> thermodynamic properties of water and steam. Journal of the Taiwan Institute of Chemical Engineers, 2012, 43, 845-851.	5.3	8
175	Calculations of the average normal effective emissivity for nonaxisymmetric cavities using the modified finite volume method. Optical Engineering, 2013, 52, 039702.	1.0	8
176	Factors influencing the surface tension of binary hydrocarbon mixtures. Fuel, 2014, 116, 116-122.	6.4	8
177	<i>p</i> <i>v</i> <i>T</i> Property of HFE 7100 in the Gaseous Phase. Journal of Chemical & Engineering Data, 2015, 60, 3289-3295.	1.9	8
178	Molecular dynamics simulation of nanosized water droplet spreading on chemically heterogeneous surfaces. AIP Advances, 2019, 9, 125105.	1.3	8
179	Speed of sound in the gaseous phase for HFO1234yf from 308 K to 370 K at pressures up to 1 MPa. Journal of Chemical Thermodynamics, 2020, 151, 106247.	2.0	8
180	Vapor Pressure Measurements and Correlation for cis-1,1,1,4,4,4-Hexafluoro-2-butene (HFO-1336mzz(Z)). Journal of Chemical & Engineering Data, 2020, 65, 4223-4229.	1.9	8

#	ARTICLE	IF	CITATIONS
181	Thermal Conductivity of Gaseous 1,1,1,2,3,3,3-Heptafluoropropane (HFC-227ea). Journal of Chemical & Engineering Data, 1999, 44, 882-886.	1.9	7
182	Froth Flotation of Mineral Particles: Mechanism. Drying Technology, 2008, 26, 985-995.	3.1	7
183	Theoretical Predictions of Spectral Emissivity for Coal Ash Deposits. Journal of Heat Transfer, 2014, 136, .	2.1	7
184	A New Route for Unburned Carbon Concentration Measurements Eliminating Mineral Content and Coal Rank Effects. Scientific Reports, 2014, 4, 4567.	3.3	7
185	A 30°C to 80°C Stirred-Liquid-Bath-Based Blackbody Source. International Journal of Thermophysics, 2015, 36, 1766-1774.	2.1	7
186	Experimental study on the flow/ heat transfer performance of micro-scale pin fin coating with super-hydrophobic surface adding Nano particle. Heat and Mass Transfer, 2018, 54, 2145-2152.	2.1	7
187	Effects of reinjection temperature on thermodynamic performance of dual-pressure and single-pressure geothermal ORCs. Energy Procedia, 2019, 158, 6016-6023.	1.8	7
188	Empirical correlations for second virial coefficients of associated and quantum fluids covering a wide temperature range. Fluid Phase Equilibria, 2021, 547, 113133.	2.5	7
189	Integrated effective emissivity computation for non-isothermal non-axisymmetric cavities. Chinese Optics Letters, 2013, 11, 022001-22003.	2.9	7
190	Thermodynamic analysis of working fluids: What is the highest performance of the sub- and trans-critical organic Rankine cycles?. Energy, 2022, 241, 122512.	8.8	7
191	Viscosity of saturated liquid trifluoroiodomethane from 253 to 338 K. Fluid Phase Equilibria, 1999, 162, 303-312.	2.5	6
192	Vapor pressure measurements of 1,1,1-trifluoroethane (HFC-143a) and 1,1,1,3,3,3-hexafluoropropane (HFC-236fa). Fluid Phase Equilibria, 2004, 225, 101-106.	2.5	6
193	Effects of participating media on the time-resolved infrared measurements of wall temperature in a coal-fired combustor. Experimental Thermal and Fluid Science, 2012, 39, 90-97.	2.7	6
194	Ultrathin planar hematite film for solar photoelectrochemical water splitting. Optics Express, 2015, 23, A1491.	3.4	6
195	Analysis of the thermodynamic performance limits of the organic Rankine cycle in low and medium temperature heat source applications. Science China Technological Sciences, 2021, 64, 1624-1640.	4.0	6
196	Multiparameter optimization and configuration comparison of supercritical CO ₂ Brayton cycles based on efficiency and cost tradeoff. Science China Technological Sciences, 2021, 64, 2084-2098.	4.0	6
197	Comparison between deep learning and fully connected neural network in performance prediction of power cycles: Taking supercritical CO ₂ Brayton cycle as an example. International Journal of Intelligent Systems, 2021, 36, 7682-7708.	5.7	6
198	Numerical simulation of single bubble growth and heat transfer considering multi-parameter influence during nucleate pool boiling of water. AIP Advances, 2021, 11, 125207.	1.3	6

#	ARTICLE	IF	CITATIONS
199	Influences of climatic environment on the geothermal power generation potential. Energy Conversion and Management, 2022, 268, 115980.	9.2	6
200	PVTx Properties of Gaseous Mixtures of Difluoromethane and 1,1,1,2,3,3,3-Heptafluoropropane. Journal of Chemical & Engineering Data, 2007, 52, 1354-1359.	1.9	5
201	Comparison of the emissivity uniformity of several blackbody cavities. AIP Conference Proceedings, 2013, , .	0.4	5
202	Flow and heat transfer enhancement in condensing water drops in steam flows. Applied Physics Letters, 2014, 104, .	3.3	5
203	Microwave measurements of the length and thermal expansion of a cylindrical resonator for primary acoustic gas thermometry. Measurement Science and Technology, 2017, 28, 015006.	2.6	5
204	Economic and environmental analysis of coupling waste-to-power technology to integrated energy system (IES) using a two-layer optimization method. Journal of Cleaner Production, 2021, 325, 129240.	9.3	5
205	Surface structure for manipulating the near-field spectral radiative transfer of thermophotovoltaics. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 024209.	0.5	5
206	Thermophysical properties of a new environment friendly alternative “ Trifluoroiodomethane. Journal of Thermal Science, 1999, 8, 73-78.	1.9	4
207	Relaxation Dynamics of Non-Power-Law Fluids. International Journal of Thermophysics, 2013, 34, 2276-2285.	2.1	4
208	Efficient evaluation of thermodynamic properties of water and steam on a h surface. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 372-379.	5.3	4
209	Experimental pvT property for the liquid HFO1234ze(E) using the isochoric method. Journal of Chemical Thermodynamics, 2020, 149, 106160.	2.0	4
210	Speed of Sound of Gaseous Xenon in the Temperature Range from 308 to 370 K Measured with a Cylindrical Resonator. Journal of Chemical & Engineering Data, 2020, 65, 737-745.	1.9	4
211	The sliding mode and dissipative force of moving nanodroplets on smooth and striped hydrophobic surfaces. Journal of Molecular Liquids, 2022, 346, 118284.	4.9	4
212	Empirical correlations for the third virial coefficients of nonpolar, polar and quantum fluids in a wide temperature range. Fluid Phase Equilibria, 2022, 559, 113477.	2.5	4
213	Vapor-liquid equilibrium measurement and modeling for the difluoromethane+pentafluoroethane+propane ternary mixture. Fluid Phase Equilibria, 2010, 298, 106-112.	2.5	3
214	Forced Wetting Dynamics of Sodium Dodecyl Sulfate Glycerol Solution on Solid Substrates. International Journal of Thermophysics, 2013, 34, 2286-2296.	2.1	3
215	Sludge components and their fouling properties in a submerged micro-membrane filtration system. Applied Thermal Engineering, 2015, 88, 211-216.	6.0	3
216	Modeling, prediction and multi-objective optimization of the coal gasification system. E3S Web of Conferences, 2021, 242, 02001.	0.5	3

#	ARTICLE	IF	CITATIONS
217	Molecular dynamics simulations on evaporation of a suspended binary mixture nanodroplet. International Journal of Refrigeration, 2021, 131, 197-205.	3.4	3
218	Optimal solar thermal retrofit for geothermal power systems considering the lifetime brine degradation. Renewable Energy, 2022, 186, 628-645.	8.9	3
219	Formation of Liquid Film in Heterogeneous Condensation of Water Vapor: Effects of Solid-Fluid Interaction and Sulfuric Acid Component. Langmuir, 2022, 38, 7085-7097.	3.5	3
220	Thermophysical properties of difluoromethane (HFC-32). Science in China Series D: Earth Sciences, 1998, 41, 435-442.	0.9	2
221	Vapor pressure of pentafluoroethane and trifluoroiodomethane. Journal of Thermal Science, 2001, 10, 193-197.	1.9	2
222	CO2 mitigation in coal gasification cogeneration systems with integration of the shift reaction, CO2 absorption and methanol production. Journal of Thermal Science, 2004, 13, 193-198.	1.9	2
223	Modeling of ion conductivity in Nafion membranes. Frontiers of Energy and Power Engineering in China, 2007, 1, 58-66.	0.4	2
224	Scale Effects and Slip Microflow Characteristics of Evaporating Thin Films in a Microchannel. , 2009, , .		2
225	Slip and micro flow characteristics near a wall of evaporating thin films in a micro channel. Heat Transfer - Asian Research, 2010, 39, 460-474.	2.8	2
226	Spectral Radiation Drift of LEDs Under Step-Mode Operation and Its Effect on the Measurement of the Non-Linearity of Radiation Thermometers. International Journal of Thermophysics, 2011, 32, 2587-2599.	2.1	2
227	Effects of wake dynamics on infrared measurements of particle cloud temperatures in the superheater pendant region of utility boilers. Applied Thermal Engineering, 2013, 51, 1076-1081.	6.0	2
228	Thermodynamic performance comparison between single-pressure and dual-pressure evaporation organic Rankine cycles for heat sources with outlet temperature limit. IOP Conference Series: Earth and Environmental Science, 2019, 291, 012037.	0.3	2
229	pVT Properties of Alkanes Using Crossover VTSRK Equation of State. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2014, 30, 1426-1431.	4.9	2
230	Measurements of the Viscosity and Thermal Conductivity of a Gas at Definitive Thermodynamic States. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016, 32, 1129-1133.	4.9	2
231	Inner Phase Change Behavior of Small Liquid Droplet on Heated Solid Surface. , 2011, , .		1
232	Advective flow of non-homogeneous permeable sphere in an electrical field. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 402, 168-171.	4.7	1
233	Effect of wall adsorption on the nano-droplet evaporation in a nano-channel: A molecular dynamics investigation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 450-458.	4.7	1
234	Evolution of Nanofluid Rayleigh-Bénard Flows Between Two Parallel Plates: A Mesoscopic Modeling Study. Journal of Nanotechnology in Engineering and Medicine, 2013, 4, .	0.8	1

#	ARTICLE	IF	CITATIONS
235	Theoretical Predictions of Spectral Emissivity for Coal Ash Deposits. , 2013, , .		1
236	The Influence of Chemical Component Distribution on the Radiometric Properties of Particle Aggregates. Applied Sciences (Switzerland), 2019, 9, 1501.	2.5	1
237	Thermo-economic optimization of supercritical CO2 Brayton cycle on the design point for application in solar power tower system. E3S Web of Conferences, 2021, 242, 01002.	0.5	1
238	Molecular dynamics simulation on spreading of mixture nanodroplets on a smooth and homogeneous surface. AIP Advances, 2021, 11, 045104.	1.3	1
239	Effects of Free Surface Evaporation on Water Nano-Droplet Wetting Kinetics: A Molecular Dynamics Study. , 2013, , .		1
240	Design and operation of organic Rankine cycles for varied power load. International Journal of Green Energy, 0, , 1-11.	3.8	1
241	Molecular Dynamics Simulation of Spreading of Mixture Droplets on Chemically Heterogeneous Surfaces. Langmuir, 2022, 38, 8353-8365.	3.5	1
242	Research on transport properties of HFC-227ea. Journal of Thermal Science, 2001, 10, 289-292.	1.9	0
243	Temperature and flow fluctuations in a quartz-glass oscillating heat pipe. , 2011, , .		0
244	Experimental Observation on Bubble Dynamics During Nucleate Boiling in Micro/Mini/Macro Tubes. , 2011, , .		0
245	Scale Effect on Boiling Inception and Bubble Dynamics in Micro/Mini/Macro Tubes. , 2011, , .		0
246	Bubble movements at boiling bubbly flow in a horizontal serpentine tube. , 2011, , .		0
247	Thermodynamic Performance Comparison of Single-pressure and Dual-pressure Evaporation Organic Rankine Cycles Using R1234ze(E). , 2018, , .		0
248	Optimized Mass Velocity for Evaporator of Organic Rankine Cycle Using R1234ze(E) for 373.15~423.15 K Geothermal Water. , 2018, , .		0
249	Viscosity measurements using a cylindrical resonator. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 175101.	0.5	0
250	Experimental pressure, volume, and temperature data in gaseous phase for trifluoroiodomethane (CF3I). High Temperatures - High Pressures, 1997, 29, 5-10.	0.3	0
251	SIMULATION OF HEAT TRANSFER IN THE CONTACT LINE REGION OF PURE PENTANE AND PENTANE/HEXANE MIXTURE IN A CLOSED MICROCAVITY. , 2018, , .		0
252	Thermodynamic analysis of double flash organic flash cycle using R600a/R601a mixtures. Sustainable Energy Technologies and Assessments, 2022, 50, 101727.	2.7	0