

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	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
2	Thermodynamic analysis of working fluids: What is the highest performance of the sub- and trans-critical organic Rankine cycles?. <i>Energy</i> , 2022, 241, 122512.	8.8	7
3	Thermodynamic analysis of double flash organic flash cycle using R600a/R601a mixtures. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 50, 101727.	2.7	0
4	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
5	The sliding mode and dissipative force of moving nanodroplets on smooth and striped hydrophobic surfaces. <i>Journal of Molecular Liquids</i> , 2022, 346, 118284.	4.9	4
6	A review on integrated design and off-design operation of solar power tower system with CO ₂ Brayton cycle. <i>Energy</i> , 2022, 246, 123348.	8.8	29
7	Optimal solar thermal retrofit for geothermal power systems considering the lifetime brine degradation. <i>Renewable Energy</i> , 2022, 186, 628-645.	8.9	3
8	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
9	Design, improvements and applications of dual-pressure evaporation organic Rankine cycles: A review. <i>Applied Energy</i> , 2022, 311, 118609.	10.1	27
10	Impact regimes of nanodroplets impacting nanopillared surfaces. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	13
11	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
12	Empirical correlations for the third virial coefficients of nonpolar, polar and quantum fluids in a wide temperature range. <i>Fluid Phase Equilibria</i> , 2022, 559, 113477.	2.5	4
13	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. <i>Journal of Chemical Thermodynamics</i> , 2022, 171, 106808.	2.0	9
14	Formation of Liquid Film in Heterogeneous Condensation of Water Vapor: Effects of Solid-Fluid Interaction and Sulfuric Acid Component. <i>Langmuir</i> , 2022, 38, 7085-7097.	3.5	3
15	Capacity optimization and feasibility assessment of solar-wind hybrid renewable energy systems in China. <i>Journal of Cleaner Production</i> , 2022, 368, 133139.	9.3	32
16	Molecular Dynamics Simulation of Spreading of Mixture Droplets on Chemically Heterogeneous Surfaces. <i>Langmuir</i> , 2022, 38, 8353-8365.	3.5	1
17	Influences of climatic environment on the geothermal power generation potential. <i>Energy Conversion and Management</i> , 2022, 268, 115980.	9.2	6
18	Vapor-liquid equilibrium measurements for binary mixtures of carbon dioxide (CO ₂) with 2,3,3,3-Tetrafluoroprop-1-ene (R-1234yf) and carbon dioxide (CO ₂) with 3,3,3-Trifluoropropene (R-1243zf). <i>Fluid Phase Equilibria</i> , 2022, 561, 113542.	2.5	12

#	ARTICLE	IF	CITATIONS
19	Molecular dynamics simulations of nanodroplet evaporation of refrigerants. <i>International Journal of Refrigeration</i> , 2021, 121, 243-252.	3.4	11
20	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
21	Thermo-economic optimization of supercritical CO ₂ Brayton cycle on the design point for application in solar power tower system. <i>E3S Web of Conferences</i> , 2021, 242, 01002.	0.5	1
22	Modeling, prediction and multi-objective optimization of the coal gasification system. <i>E3S Web of Conferences</i> , 2021, 242, 02001.	0.5	3
23	Viscosity of binary refrigerant mixtures of R32+R1234yf and R32+R1243zf. <i>International Journal of Refrigeration</i> , 2021, 128, 197-197.	3.4	17
24	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
25	Molecular dynamics simulation on spreading of mixture nanodroplets on a smooth and homogeneous surface. <i>AIP Advances</i> , 2021, 11, 045104.	1.3	1
26	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
27	Analysis of the thermodynamic performance limits of the organic Rankine cycle in low and medium temperature heat source applications. <i>Science China Technological Sciences</i> , 2021, 64, 1624-1640.	4.0	6
28	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
29	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
30	Measurements and correlation of vapor-liquid equilibrium for difluoromethane (R-32)+2,3,3,3-tetrafluoroprop-1-ene (R-1234yf) and pentafluoroethane (R-125)+Propane (R-290). <i>Fluid Phase Equilibria</i> , 2021, 538, 113010.	2.5	12
31	Novel design optimization of concentrated solar power plant with S-CO ₂ Brayton cycle based on annual off-design performance. <i>Applied Thermal Engineering</i> , 2021, 192, 116924.	6.0	39
32	Empirical correlations for second virial coefficients of nonpolar and polar fluids covering a wide temperature range. <i>Fluid Phase Equilibria</i> , 2021, 539, 113032.	2.5	9
33	Thermal conductivity measurements and correlations of pure R1243zf and binary mixtures of R32+R1243zf and R32+R1234yf. <i>International Journal of Refrigeration</i> , 2021, 131, 990-999.	3.4	22
34	Multiparameter optimization and configuration comparison of supercritical CO ₂ Brayton cycles based on efficiency and cost tradeoff. <i>Science China Technological Sciences</i> , 2021, 64, 2084-2098.	4.0	6
35	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
36	Comparison between deep learning and fully connected neural network in performance prediction of power cycles: Taking supercritical CO ₂ Brayton cycle as an example. <i>International Journal of Intelligent Systems</i> , 2021, 36, 7682-7708.	5.7	6

#	ARTICLE	IF	CITATIONS
37	Molecular dynamics simulations on evaporation of a suspended binary mixture nanodroplet. <i>International Journal of Refrigeration</i> , 2021, 131, 197-205.	3.4	3
38	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
39	Optimal schemes and benefits of recovering waste heat from data center for district heating by CO ₂ transcritical heat pumps. <i>Energy Conversion and Management</i> , 2021, 245, 114591.	9.2	27
40	Empirical correlations for second virial coefficients of associated and quantum fluids covering a wide temperature range. <i>Fluid Phase Equilibria</i> , 2021, 547, 113133.	2.5	7
41	A Review of Multi-Objective Optimization in Organic Rankine Cycle (ORC) System Design. <i>Energies</i> , 2021, 14, 6492.	3.1	18
42	Economic and environmental analysis of coupling waste-to-power technology to integrated energy system (IES) using a two-layer optimization method. <i>Journal of Cleaner Production</i> , 2021, 325, 129240.	9.3	5
43	Numerical simulation of single bubble growth and heat transfer considering multi-parameter influence during nucleate pool boiling of water. <i>AIP Advances</i> , 2021, 11, 125207.	1.3	6
44	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
45	Effects of shell-and-tube heat exchanger arranged forms on the thermo-economic performance of organic Rankine cycle systems using hydrocarbons. <i>Energy Conversion and Management</i> , 2020, 203, 112248.	9.2	36
46	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
47	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
48	Speed of sound in the gaseous phase for HFO1234yf from 308ÅK to 370ÅK at pressures up to 1ÅMPa. <i>Journal of Chemical Thermodynamics</i> , 2020, 151, 106247.	2.0	8
49	How to design organic Rankine cycle system under fluctuating ambient temperature: A multi-objective approach. <i>Energy Conversion and Management</i> , 2020, 224, 113331.	9.2	26
50	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
51	Thermodynamic performance limits of the organic Rankine cycle: Working fluid parameterization based on corresponding states modeling. <i>Energy Conversion and Management</i> , 2020, 217, 113011.	9.2	22
52	Part-load performance analysis and comparison of supercritical CO ₂ Brayton cycles. <i>Energy Conversion and Management</i> , 2020, 214, 112832.	9.2	66
53	Multi-objective optimization of organic Rankine cycle using hydrofluorolefins (HFOs) based on different target preferences. <i>Energy</i> , 2020, 203, 117848.	8.8	46
54	Vapor Pressure Measurements and Correlation for cis-1,1,1,4,4,4-Hexafluoro-2-butene (HFO-1336mzz(Z)). <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4223-4229.	1.9	8

#	ARTICLE	IF	CITATIONS
55	Experimental pvT property for the liquid HFO1234ze(E) using the isochoric method. Journal of Chemical Thermodynamics, 2020, 149, 106160.	2.0	4
56	Off-design performance of a supercritical CO2 Brayton cycle integrated with a solar power tower system. Energy, 2020, 201, 117676.	8.8	77
57	Determination of $\langle i \rangle T \langle i \rangle^{\langle i \rangle} \langle i \rangle T \langle i \rangle^{\langle i \rangle} \langle i \rangle T \langle i \rangle^{\langle i \rangle}$ from 234 K to 303 K by acoustic thermometry with a cylindrical resonator. Metrologia, 2020, 57, 024004.	1.2	14
58	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
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	Thermodynamic analysis of serial dual-pressure organic Rankine cycle under off-design conditions. Energy Conversion and Management, 2020, 213, 112837.	9.2	30
61	Thermodynamic performance comparison between singlepressure 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
62	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
63	The cubic-plus-association equation of state for hydrofluorocarbons, hydrofluoroolefins, and their binary mixtures. Chemical Engineering Science, 2019, 209, 115182.	3.8	16
64	Evaporation of R32/R1234yf mixture nanodroplets on a smooth substrate: Molecular dynamics simulation. Chemical Physics Letters, 2019, 733, 136672.	2.6	10
65	Effects of reinjection temperature on thermodynamic performance of dual-pressure and single-pressure geothermal ORCs. Energy Procedia, 2019, 158, 6016-6023.	1.8	7
66	Exergy analysis of novel dual-pressure evaporation organic Rankine cycle using zeotropic mixtures. Energy Conversion and Management, 2019, 195, 760-769.	9.2	31
67	Vapor Pressure Measurements and Correlation for <i>trans</i> -1-Chloro-3,3,3-trifluoroprop-1-ene. Journal of Chemical & Engineering Data, 2019, 64, 2947-2954.	1.9	15
68	The Influence of Chemical Component Distribution on the Radiometric Properties of Particle Aggregates. Applied Sciences (Switzerland), 2019, 9, 1501.	2.5	1
69	Crossover multiparameter equation of state: General procedure and demonstration with carbon dioxide. Fluid Phase Equilibria, 2019, 494, 161-171.	2.5	18
70	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
71	Effects of heat source temperature and mixture composition on the combined superiority of dual-pressure evaporation organic Rankine cycle and zeotropic mixtures. Energy, 2019, 174, 436-449.	8.8	51
72	Thermodynamic analysis and optimization of a solar organic Rankine cycle operating with stable output. Energy Conversion and Management, 2019, 187, 459-471.	9.2	58

#	ARTICLE	IF	CITATIONS
73	Molecular dynamics simulation of nanosized water droplet spreading on chemically heterogeneous surfaces. <i>AIP Advances</i> , 2019, 9, 125105.	1.3	8
74	Performance analyses and improvement guidelines for organic Rankine cycles using R600a/R601a mixtures driven by heat sources of 100Å°C to 200Å°C. <i>International Journal of Energy Research</i> , 2019, 43, 905-920.	4.5	20
75	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
76	Experimental study on the flow/ heat transfer performance of micro-scale pin fin coating with super-hydrophobic surface adding Nano particle. <i>Heat and Mass Transfer</i> , 2018, 54, 2145-2152.	2.1	7
77	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
78	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
79	Selectively enhanced near-field radiative transfer between plasmonic emitter and GaSb with nanohole and nanowire periodic arrays for thermophotovoltaics. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 67-74.	4.8	23
80	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
81	Dynamic Spreading of Droplets on Lyophilic Micropillar-Arrayed Surfaces. <i>Langmuir</i> , 2018, 34, 4417-4425.	3.5	14
82	Effect of Moving Contact Line's Curvature on Dynamic Wetting of non-Newtonian Fluids. <i>Langmuir</i> , 2018, 34, 15612-15620.	3.5	11
83	<i>p</i>vT</i> Property of HFO-1234ze(E) in the Gaseous Phase. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2075-2080.	1.9	9
84	Thermodynamic Performance Comparison of Single-pressure and Dual-pressure Evaporation Organic Rankine Cycles Using R1234ze(E). , 2018, , .		0
85	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
86	Optimized Mass Velocity for Evaporator of Organic Rankine Cycle Using R1234ze(E) for 373.15â€“423.15 K Geothermal Water. , 2018, , .		0
87	On the temperature dependence of the $\hat{\mu}$ function in the cubic equation of state. <i>Chemical Engineering Science</i> , 2018, 192, 565-575.	3.8	28
88	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
89	SIMULATION OF HEAT TRANSFER IN THE CONTACT LINE REGION OF PURE PENTANE AND PENTANE/HEXANE MIXTURE IN A CLOSED MICROCAVITY. , 2018, , .		0
90	Surface structure for manipulating the near-field spectral radiative transfer of thermophotovoltaics. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 024209.	0.5	5

#	ARTICLE	IF	CITATIONS
91	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
92	Microwave measurements of the length and thermal expansion of a cylindrical resonator for primary acoustic gas thermometry. <i>Measurement Science and Technology</i> , 2017, 28, 015006.	2.6	5
93	Wettability of a nano-droplet in an electric field: A molecular dynamics study. <i>Applied Thermal Engineering</i> , 2017, 122, 71-79.	6.0	29
94	Simple Rectangular Gratings as a Near-Field "Anti-Reflection" Pattern for GaSb TPV Cells. <i>Scientific Reports</i> , 2017, 7, 1026.	3.3	20
95	Influence of head resistance force and viscous friction on dynamic contact angle measurement in Wilhelmy plate method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 527, 115-122.	4.7	20
96	Optimized liquid-separated thermodynamic states for working fluids of organic Rankine cycles with liquid-separated condensation. <i>Energy</i> , 2017, 141, 652-660.	8.8	19
97	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
98	Measurements and New Vapor Pressure Correlation for HFO-1234ze(E). <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 328-332.	1.9	16
99	Wetting kinetics of nanodroplets on lyophilic nanopillar-arrayed surfaces: A molecular dynamics study. <i>Chemical Physics Letters</i> , 2017, 685, 27-33.	2.6	18
100	Structure and flow calculation of cake layer on microfiltration membranes. <i>Journal of Environmental Sciences</i> , 2017, 56, 95-101.	6.1	12
101	Viscosity of Water under Electric Field: Anisotropy Induced by Redistribution of Hydrogen Bonds. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4818-4827.	2.6	31
102	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
103	Ultrathin planar broadband absorber through effective medium design. <i>Nano Research</i> , 2016, 9, 2354-2363.	10.4	45
104	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
105	p_vT Properties for R-227ea and HFE-7100 in the Liquid Phase. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 1462-1467.	1.9	9
106	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
107	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
108	Measurements of the Viscosity and Thermal Conductivity of a Gas at Definitive Thermodynamic States. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2016, 32, 1129-1133.	4.9	2

#	ARTICLE	IF	CITATIONS
109	Ultrathin planar hematite film for solar photoelectrochemical water splitting. Optics Express, 2015, 23, A1491.	3.4	6
110	Sphere Drag and Heat Transfer. Scientific Reports, 2015, 5, 12304.	3.3	37
111	<i>pVT</i> Property of HFE 7100 in the Gaseous Phase. Journal of Chemical & Engineering Data, 2015, 60, 3289-3295.	1.9	8
112	A 30°C to 80°C Stirred-Liquid-Bath-Based Blackbody Source. International Journal of Thermophysics, 2015, 36, 1766-1774.	2.1	7
113	Effects of Free Surface Evaporation on Water Nanodroplet Wetting Kinetics: A Molecular Dynamics Study. Journal of Heat Transfer, 2015, 137, .	2.1	18
114	Sludge components and their fouling properties in a submerged micro-membrane filtration system. Applied Thermal Engineering, 2015, 88, 211-216.	6.0	3
115	Vapor Pressure of HFE 7100. Journal of Chemical & Engineering Data, 2015, 60, 1206-1210.	1.9	16
116	Applicability of the effective medium theory for optimizing thermal radiative properties of systems containing wavelength-sized particles. International Journal of Heat and Mass Transfer, 2015, 87, 303-311.	4.8	10
117	Parametric optimization and performance analyses of geothermal organic Rankine cycles using R600a/R601a mixtures as working fluids. Applied Energy, 2015, 148, 410-420.	10.1	156
118	Influence of flow distribution on the thermal performance of dual-media thermocline energy storage systems. Applied Energy, 2015, 142, 283-292.	10.1	20
119	Experimental study on the dynamic wetting of dilute nanofluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 486, 6-13.	4.7	21
120	Theoretical Predictions of Spectral Emissivity for Coal Ash Deposits. Journal of Heat Transfer, 2014, 136, .	2.1	7
121	Calculation and experimental validation of spectral properties of microsize grains surrounded by nanoparticles. Optics Express, 2014, 22, 7925.	3.4	10
122	Flow and heat transfer enhancement in condensing water drops in steam flows. Applied Physics Letters, 2014, 104, .	3.3	5
123	Crossover Equation of State for Selected Hydrocarbons (C ₄ –C ₇). Chinese Journal of Chemical Engineering, 2014, 22, 1291-1297.	3.5	9
124	Effect of condensation temperature glide on the performance of organic Rankine cycles with zeotropic mixture working fluids. Applied Energy, 2014, 115, 394-404.	10.1	176
125	Simulation of condensation flow in a rectangular microchannel. Chemical Engineering and Processing: Process Intensification, 2014, 76, 60-69.	3.6	70
126	Molecular dynamics simulation on evaporation of water and aqueous droplets in the presence of electric field. International Journal of Heat and Mass Transfer, 2014, 73, 533-541.	4.8	77

#	ARTICLE	IF	CITATIONS
127	Factors influencing the surface tension of binary hydrocarbon mixtures. <i>Fuel</i> , 2014, 116, 116-122.	6.4	8
128	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
129	Vapor pressure and gaseous speed of sound measurements for isobutane (R600a). <i>Fluid Phase Equilibria</i> , 2014, 382, 260-269.	2.5	18
130	Speed of Sound Measurements Using a Cylindrical Resonator for Gaseous Carbon Dioxide and Propene. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 2788-2798.	1.9	26
131	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
132	Efficient evaluation of thermodynamic properties of water and steam on a curved surface. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 372-379.	5.3	4
133	A New Route for Unburned Carbon Concentration Measurements Eliminating Mineral Content and Coal Rank Effects. <i>Scientific Reports</i> , 2014, 4, 4567.	3.3	7
134	pVT Properties of Alkanes Using Crossover VTSRK Equation of State. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2014, 30, 1426-1431.	4.9	2
135	Effect of wall adsorption on the nano-droplet evaporation in a nano-channel: A molecular dynamics investigation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 450-458.	4.7	1
136	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
137	Wetting kinetics of water nano-droplet containing non-surfactant nanoparticles: A molecular dynamics study. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	38
138	Radiative characteristics of opacifier-loaded silica aerogel composites. <i>Journal of Non-Crystalline Solids</i> , 2013, 375, 31-39.	3.1	77
139	Performance analyses of geothermal organic Rankine cycles with selected hydrocarbon working fluids. <i>Energy</i> , 2013, 63, 123-132.	8.8	112
140	Relaxation Dynamics of Non-Power-Law Fluids. <i>International Journal of Thermophysics</i> , 2013, 34, 2276-2285.	2.1	4
141	Forced Wetting Dynamics of Sodium Dodecyl Sulfate Glycerol Solution on Solid Substrates. <i>International Journal of Thermophysics</i> , 2013, 34, 2286-2296.	2.1	3
142	Effects of wake dynamics on infrared measurements of particle cloud temperatures in the superheater pendant region of utility boilers. <i>Applied Thermal Engineering</i> , 2013, 51, 1076-1081.	6.0	2
143	Study on initial stage of capillary rise dynamics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 433, 95-103.	4.7	28
144	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

#	ARTICLE	IF	CITATIONS
145	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
146	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
147	Comparison of the emissivity uniformity of several blackbody cavities. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	5
148	Effect of Nanostructured Roughness on Evaporating Thin Films in Microchannels for Wenzel and Cassie's States. <i>Journal of Heat Transfer</i> , 2013, 135, .	2.1	14
149	Calculations of the average normal effective emissivity for nonaxisymmetric cavities using the modified finite volume method. <i>Optical Engineering</i> , 2013, 52, 039702.	1.0	8
150	Evolution of Nanofluid Rayleigh-Bénard Flows Between Two Parallel Plates: A Mesoscopic Modeling Study. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013, 4, .	0.8	1
151	Improved determination of the Boltzmann constant using a single, fixed-length cylindrical cavity. <i>Metrologia</i> , 2013, 50, 417-432.	1.2	53
152	Theoretical Predictions of Spectral Emissivity for Coal Ash Deposits. , 2013, , .		1
153	Effects of Free Surface Evaporation on Water Nano-Droplet Wetting Kinetics: A Molecular Dynamics Study. , 2013, , .		1
154	Integrated effective emissivity computation for non-isothermal non-axisymmetric cavities. <i>Chinese Optics Letters</i> , 2013, 11, 022001-22003.	2.9	7
155	Viscosity measurements using a cylindrical resonator. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013, 62, 175101.	0.5	0
156	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
157	Efficient and accurate computation scheme of p - T thermodynamic properties of water and steam. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 845-851.	5.3	8
158	Crossover Volume Translation Soave-Redlich-Kwong Equation of State for Fluids. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6580-6585.	3.7	17
159	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
160	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
161	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
162	Effects of participating media on the time-resolved infrared measurements of wall temperature in a coal-fired combustor. <i>Experimental Thermal and Fluid Science</i> , 2012, 39, 90-97.	2.7	6

#	ARTICLE	IF	CITATIONS
163	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
164	Advective flow of non-homogeneous permeable sphere in an electrical field. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 402, 168-171.	4.7	1
165	Energy-based model for capillary spreading of power-law liquids on a horizontal plane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 403, 155-163.	4.7	33
166	Pore blockage of organic fouling layer with highly heterogeneous structure in membrane filtration: Role of minor organic foulants. <i>Journal of Membrane Science</i> , 2012, 411-412, 30-34.	8.2	20
167	Temperature and flow fluctuations in a quartz-glass oscillating heat pipe. , 2011, , .		0
168	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
169	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
170	Inner Phase Change Behavior of Small Liquid Droplet on Heated Solid Surface. , 2011, , .		1
171	Experimental Observation on Bubble Dynamics During Nucleate Boiling in Micro/Mini/Macro Tubes. , 2011, , .		0
172	Scale Effect on Boiling Inception and Bubble Dynamics in Micro/Mini/Macro Tubes. , 2011, , .		0
173	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
174	Visualization of Two-Phase Flows in Nanofluid Oscillating Heat Pipes. <i>Journal of Heat Transfer</i> , 2011, 133, .	2.1	22
175	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
176	On the Freezing and Melting Behavior of the Eutectic Ptâ€“C. <i>International Journal of Thermophysics</i> , 2011, 32, 2680-2695.	2.1	12
177	Spectral Radiation Drift of LEDs Under Step-Mode Operation and Its Effect on the Measurement of the Non-Linearity of Radiation Thermometers. <i>International Journal of Thermophysics</i> , 2011, 32, 2587-2599.	2.1	2
178	Effect of nanofluids on thin film evaporation in microchannels. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5033-5047.	1.9	56
179	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
180	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

#	ARTICLE	IF	CITATIONS
181	Internal flow in evaporating droplet on heated solid surface. International Journal of Heat and Mass Transfer, 2011, 54, 4437-4447.	4.8	98
182	Does macroscopic flow geometry influence wetting dynamic?. Journal of Colloid and Interface Science, 2011, 362, 221-227.	9.4	21
183	Bubble movements at boiling bubbly flow in a horizontal serpentine tube. , 2011, , .		0
184	Near-Wall Liquid Layering, Velocity Slip, and Solidâ€“Liquid Interfacial Thermal Resistance for Thin-Film Evaporation in Microchannels. Nanoscale and Microscale Thermophysical Engineering, 2011, 15, 105-122.	2.6	11
185	Numerical study on channel size effect for proton exchange membrane fuel cell with serpentine flow field. Energy Conversion and Management, 2010, 51, 959-968.	9.2	125
186	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
187	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
188	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. Fluid Phase Equilibria, 2010, 290, 127-136.	2.5	17
189	Crossover CPA equation of state for associating fluids. Fluid Phase Equilibria, 2010, 290, 148-152.	2.5	20
190	Isothermal vaporâ€“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
191	Vaporâ€“liquid equilibrium measurement and modeling for the difluoromethane+pentafluoroethane+propane ternary mixture. Fluid Phase Equilibria, 2010, 298, 106-112.	2.5	3
192	Thermodynamic model for heterogeneous bubble nucleation in a temperature gradient. Applied Physics Letters, 2010, 97, .	3.3	16
193	Channel Geometry Effect for Proton Exchange Membrane Fuel Cell With Serpentine Flow Field Using a Three-Dimensional Two-Phase Model. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	17
194	Dynamic Wetting of Non-Newtonian Fluids: Multicomponent Molecular-Kinetic Approach. Langmuir, 2010, 26, 14594-14599.	3.5	27
195	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
196	Measurement of Vaporâ€“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
197	Channel aspect ratio effect for serpentine proton exchange membrane fuel cell: Role of sub-rib convection. Journal of Power Sources, 2009, 193, 684-690.	7.8	46
198	Bubble dynamical behavior and thermal non-equilibrium during flow boiling in U-turn bends of hairpin tubes. Chemical Engineering and Processing: Process Intensification, 2009, 48, 1177-1186.	3.6	11

#	ARTICLE	IF	CITATIONS
199	Scale Effects and Slip Microflow Characteristics of Evaporating Thin Films in a Microchannel. , 2009, ,		2
200	Effect of humidity of reactants on the cell performance of PEM fuel cells with parallel and interdigitated flow field designs. Journal of Power Sources, 2008, 176, 247-258.	7.8	63
201	Simplified Gradient Theory Modeling of the Surface Tension for Binary Mixtures. International Journal of Thermophysics, 2008, 29, 423-433.	2.1	14
202	Local transport phenomena and cell performance of PEM fuel cells with various serpentine flow field designs. Journal of Power Sources, 2008, 175, 397-407.	7.8	119
203	Effects of flow channel geometry on cell performance for PEM fuel cells with parallel and interdigitated flow fields. Electrochimica Acta, 2008, 53, 5334-5343.	5.2	131
204	Vapor-Liquid Equilibria Predictions for Alternative Working Fluids at Low and Moderate Pressures. Industrial & Engineering Chemistry Research, 2008, 47, 7501-7508.	3.7	9
205	Froth Flotation of Mineral Particles: Mechanism. Drying Technology, 2008, 26, 985-995.	3.1	7
206	Gradient theory modeling of surface tension for pure fluids and binary mixtures. Fluid Phase Equilibria, 2007, 254, 75-90.	2.5	127
207	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
208	Vapor-Liquid Equilibria Predictions for New Refrigerant Mixtures Based on Group Contribution Theory. Industrial & Engineering Chemistry Research, 2007, 46, 9274-9284.	3.7	25
209	An extended correlation for second virial coefficients of associated and quantum fluids. Fluid Phase Equilibria, 2007, 258, 29-33.	2.5	18
210	Numerical study of cell performance and local transport phenomena in PEM fuel cells with various flow channel area ratios. Journal of Power Sources, 2007, 172, 265-277.	7.8	66
211	Novel serpentine-baffle flow field design for proton exchange membrane fuel cells. Journal of Power Sources, 2007, 173, 210-221.	7.8	110
212	Dynamics of Spreading of Liquid on Solid Surface. Chinese Journal of Chemical Engineering, 2007, 15, 730-737.	3.5	26
213	Modeling of ion conductivity in Nafion membranes. Frontiers of Energy and Power Engineering in China, 2007, 1, 58-66.	0.4	2
214	Binary interaction parameter kij for calculating the second cross-virial coefficients of mixtures. Fluid Phase Equilibria, 2007, 260, 354-358.	2.5	26
215	Volumetric Property Improvement for the Soave-Redlich-Kwong Equation of State. Industrial & Engineering Chemistry Research, 2006, 45, 1829-1839.	3.7	42
216	Site-site potential function and second virial coefficients for linear molecules. Molecular Physics, 2006, 104, 2891-2899.	1.7	11

#	ARTICLE	IF	CITATIONS
217	Prediction of the second cross virial coefficients of nonpolar binary mixtures. <i>Fluid Phase Equilibria</i> , 2005, 238, 229-238.	2.5	25
218	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
219	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
220	Vapor Pressures of 1,1,1,3,3-Pentafluoropropane (HFC-245fa) and 1,1,1,2,3,3,3-Heptafluoropropane (HFC-227ea). <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 1581-1585.	1.9	20
221	CO ₂ mitigation in coal gasification cogeneration systems with integration of the shift reaction, CO ₂ absorption and methanol production. <i>Journal of Thermal Science</i> , 2004, 13, 193-198.	1.9	2
222	Vapor pressure measurements of 1,1,1-trifluoroethane (HFC-143a) and 1,1,1,3,3,3-hexafluoropropane (HFC-236fa). <i>Fluid Phase Equilibria</i> , 2004, 225, 101-106.	2.5	6
223	Correlations for second and third virial coefficients of pure fluids. <i>Fluid Phase Equilibria</i> , 2004, 226, 109-120.	2.5	63
224	Gaseous PVT properties of 1,1,1,3,3,3-hexafluoropropane (HFC-236fa). <i>Fluid Phase Equilibria</i> , 2004, 226, 313-320.	2.5	8
225	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
226	PVTx Properties in the Gas Phase for Difluoromethane (HFC-32) + Pentafluoroethane (HFC-125). <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 1821-1826.	1.9	8
227	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. <i>International Journal of Thermophysics</i> , 2003, 24, 1495-1508.	2.1	24
228	Surface tension of the binary refrigerant mixture HFC-32 + HFC-125. <i>Fluid Phase Equilibria</i> , 2003, 213, 89-98.	2.5	12
229	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. <i>Fluid Phase Equilibria</i> , 2003, 214, 79-86.	2.5	22
230	EXPERIMENTAL STUDY ON BEHAVIOR OF FROST CRYSTAL FORMATION. <i>International Communications in Heat and Mass Transfer</i> , 2003, 30, 323-332.	5.6	10
231	Saturated Liquid Viscosity of Cyclopentane and Isopentane. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 1418-1421.	1.9	16
232	Surface Tension Measurements of Propane (R-290) and Isobutane (R-600a) from (253 to 333) K. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 1360-1363.	1.9	32
233	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. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 1068-1072.	1.9	19
234	Vapor pressure of pentafluoroethane and trifluoroiodomethane. <i>Journal of Thermal Science</i> , 2001, 10, 193-197.	1.9	2

#	ARTICLE	IF	CITATIONS
235	Research on transport properties of HFC-227ea. Journal of Thermal Science, 2001, 10, 289-292.	1.9	0
236	Speed of sound, ideal-gas heat capacity at constant pressure, and second virial coefficients of HFC-227ea. Fluid Phase Equilibria, 2001, 178, 73-85.	2.5	13
237	Thermodynamic Properties of 1,1,1,2,3,3,3-Heptafluoropropane. International Journal of Thermophysics, 2001, 22, 1463-1474.	2.1	9
238	Surface tension of pentafluoroethane and 1,1,1,2,3,3,3-heptafluoropropane. Fluid Phase Equilibria, 2000, 172, 237-244.	2.5	18
239	Thermodynamic Properties of Trifluoroiodomethane (CF ₃ I)1. International Journal of Thermophysics, 2000, 21, 393-404.	2.1	31
240	Vapor pressure of 1,1,1,2,3,3,3-heptafluoropropane. Fluid Phase Equilibria, 1999, 163, 109-117.	2.5	24
241	Viscosity of saturated liquid trifluoroiodomethane from 253 to 338 K. Fluid Phase Equilibria, 1999, 162, 303-312.	2.5	6
242	Surface tension of trifluoroiodomethane (CF ₃ I). Fluid Phase Equilibria, 1999, 154, 71-77.	2.5	16
243	Thermophysical properties of a new environment friendly alternative " Trifluoroiodomethane. Journal of Thermal Science, 1999, 8, 73-78.	1.9	4
244	Critical Parameters and Saturated Density of Trifluoroiodomethane (CF ₃ I). Journal of Chemical & Engineering Data, 1999, 44, 501-504.	1.9	17
245	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
246	Gaseous Pressure~Volume~Temperature Properties of 1,1,1,2,3,3,3-Heptafluoropropane. Journal of Chemical & Engineering Data, 1999, 44, 1402-1408.	1.9	17
247	Thermophysical properties of difluoromethane (HFC-32). Science in China Series D: Earth Sciences, 1998, 41, 435-442.	0.9	2
248	Speed of Sound and Ideal-Gas Heat Capacity at Constant Pressure of Gaseous Difluoromethane. Journal of Chemical & Engineering Data, 1997, 42, 795-799.	1.9	13
249	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
250	Experimental pressure, volume, and temperature data in gaseous phase for trifluoroiodomethane (CF ₃ I). High Temperatures - High Pressures, 1997, 29, 5-10.	0.3	0
251	Experimental vapor pressure data and a vapor pressure equation for trifluoroiodomethane (CF ₃ I). Fluid Phase Equilibria, 1996, 121, 227-234.	2.5	54
252	Design and operation of organic Rankine cycles for varied power load. International Journal of Green Energy, 0, , 1-11.	3.8	1