

Yukihiro Higashi

List of Publications by Year in Descending Order

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

55
papers

1,275
citations

22
h-index

34
g-index

62
ext. papers

1,469
ext. citations

2.7
avg, IF

4.91
L-index

#	Paper	IF	Citations
55	Thermodynamic Properties of 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf) and Propane (R290) Mixtures: (p, ρ T) Behavior, Saturated Liquid and Vapor Densities, Critical Parameters, and a Mixture Model. <i>Journal of Chemical & Engineering Data</i> , 2022 , 67, 346-357	2.8	0
54	Achieving a Carbon Neutral Future through Advanced Functional Materials and Technologies. <i>Bulletin of the Chemical Society of Japan</i> , 2022 , 95, 73-103	5.1	3
53	Measurements of saturation pressures for the novel refrigerant R1132(E). <i>International Journal of Refrigeration</i> , 2022 , 135, 148-153	3.8	0
52	Measurements of PVT Properties, Vapor Pressures, Saturated Densities, and Critical Parameters for trans-1,1,1,4,4,4-Hexafluoro-2-butene (R1336mzz(E)). <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 734-739	2.8	11
51	Heat Pump Cycle Using Refrigerant Mixtures of HFC32 and HFO1234yf. <i>Heat Transfer Engineering</i> , 2021 , 42, 1097-1106	1.7	5
50	Exergy Investigation of R410A as a Drop In Refrigerant in a Water-Cooled Mechanical Vapor Compression Cycle. <i>Heat Transfer Engineering</i> , 2021 , 42, 1069-1086	1.7	1
49	Drop-in experiments and exergy assessment of HFC-32/HFO-1234yf/R744 mixture with GWP below 150 for domestic heat pumps. <i>International Journal of Refrigeration</i> , 2021 , 121, 289-301	3.8	8
48	Two-Phase and Vapor-Phase Thermophysical Property (pvTz) Measurements of the Difluoromethane + trans-1,3,3,3-Tetrafluoroprop-1-ene Binary System. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 1554-1564	2.8	3
47	Measurement of the vapor-liquid equilibrium properties of the binary low GWP refrigerant R32/R1123. <i>International Journal of Refrigeration</i> , 2020 , 119, 340-348	3.8	4
46	Measurements of Vapor Pressures for trans-1-Chloro-3,3,3-trifluoropropene (R1233zd(E)) and cis-1,1,1,4,4,4-Hexafluoro-2-butene (R1336mzz(Z)). <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 4285-4289	2.8	8
45	Thermodynamic properties of trifluoroethene (R1123): (p, ρ T) behavior and fundamental equation of state. <i>International Journal of Refrigeration</i> , 2020 , 119, 457-467	3.8	9
44	Measurements of PVT Properties, Vapor Pressures, Saturated Densities, and Critical Parameters for cis-1-Chloro-2,3,3,3-tetrafluoropropene (R1224yd(Z)). <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 3983-3987	2.8	12
43	Surface Tension and Parachor Measurement of Low-Global Warming Potential Working Fluid cis-1-Chloro-2,3,3,3-tetrafluoropropene (R1224yd(Z)). <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 5462-5468	2.8	4
42	Measurements of Saturation Pressures for Trifluoroethene (R1123) and 3,3,3-Trifluoropropene (R1243zf). <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 417-421	2.8	32
41	Measurements of PVT Properties, Saturated Densities, and Critical Parameters for 3,3,3-Trifluoropropene (HFO1243zf). <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 3818-3822	2.8	19
40	Gaseous PVT Property Measurements of cis-1,3,3,3-Tetrafluoropropene. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 2178-2182	2.8	6
39	Measurements of thermodynamic properties for the 50 mass% R1234yf + 50 mass% R1234ze(E) blend. <i>Science and Technology for the Built Environment</i> , 2016 , 22, 1185-1190	1.8	10

38	Thermodynamic properties of 1,1,1,2-tetrafluoroethane (R-134a) + 2,3,3,3-tetrafluoropropene (R-1234yf) mixtures: Measurements of the critical parameters and a mixture model based on the multi-fluid approximation. <i>International Journal of Refrigeration</i> , 2015 , 58, 146-153	3.8	18
37	Surface tension of low GWP refrigerants R1243zf, R1234ze(Z), and R1233zd(E). <i>International Journal of Refrigeration</i> , 2015 , 53, 80-89	3.8	60
36	Measurements of P ρ T properties, vapor pressures, saturated densities, and critical parameters for R 1234ze(Z) and R 245fa. <i>International Journal of Refrigeration</i> , 2015 , 52, 100-108	3.8	36
35	Thermoelectric Properties of FeSi ₂ Thermoelectric Conversion Modules Sintered with Ag Joint Plates by Spark Plasma Sintering Method. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2015 , 62, 313-317	0.2	1
34	Thermoelectric Properties of layered FeSi ₂ Thermoelectric Conversion Module Produced by Spark Plasma Sintering Method. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2015 , 62, 457-461	0.2	1
33	A fundamental equation of state for cis-1,3,3,3-tetrafluoropropene (R-1234ze(Z)). <i>International Journal of Refrigeration</i> , 2014 , 44, 168-176	3.8	43
32	Measurements of saturated densities and critical parameters for the binary mixture of 2,3,3,3-tetrafluoropropene (R-1234yf) + Difluoromethane (R-32). <i>International Journal of Refrigeration</i> , 2013 , 36, 1341-1346	3.8	28
31	Surface Tensions of trans-1,3,3,3-Tetrafluoropropene and trans-1,3,3,3-Tetrafluoropropene+Difluoromethane Mixture. <i>Journal of Chemical Engineering of Japan</i> , 2013 , 46, 371-375	0.8	20
30	Critical Parameters and Saturated Densities in the Critical Region for trans-1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)). <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1594-1597	2.8	65
29	Measurements of the Isobaric Specific Heat Capacity and Density for HFO-1234yf in the Liquid State. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 901-903	2.8	58
28	Measurements of the Isobaric Specific Heat Capacities for trans-1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)) in the Liquid Phase. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2267-2270	2.8	40
27	Measurements of the Isobaric Specific Heat Capacity for 1,1,1-Trifluoroethane (R143a), Pentafluoroethane (R125), and Difluoromethane (R32) in the Liquid Phase. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1516-1518	2.8	5
26	P ρ T Property Measurements for trans-1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)) in the Gaseous Phase. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5164-5168	2.8	24
25	Measurements of the Vapor Pressures and p ρ T Properties for trans-1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)). <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2169-2172	2.8	57
24	Measurements of the Isobaric Specific Heat Capacity and Density for Dimethyl Ether in the Liquid State. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2658-2661	2.8	10
23	Thermodynamic property modeling for 2,3,3,3-tetrafluoropropene (HFO-1234yf). <i>International Journal of Refrigeration</i> , 2010 , 33, 52-60	3.8	86
22	Thermodynamic properties of HFO-1234yf (2,3,3,3-tetrafluoropropene). <i>International Journal of Refrigeration</i> , 2010 , 33, 474-479	3.8	139
21	Measurements of the Vapor-Liquid Equilibrium for the CO ₂ + R290 Mixture. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1029-1033	2.8	9

20	Measurements of the Surface Tension for the R290 + R32 Mixture□ <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1656-1659	2.8	8
19	Measurements of the surface tension for R290, R600a and R290/R600a mixture. <i>International Journal of Refrigeration</i> , 2007 , 30, 1368-1373	3.8	27
18	Vapor□liquid equilibrium measurements and correlations for the binary mixture of difluoromethane+isobutane and the ternary mixture of propane+isobutane+difluoromethane. <i>Fluid Phase Equilibria</i> , 2007 , 261, 286-291	2.5	12
17	Surface Tension of 1,1,1,2,2,3,3,4,4-Nonafluorohexane and 1,1,2,2-Tetrafluoroethyl-2,2,2-Trifluoroethyl Ether. <i>Kagaku Kogaku Ronbunshu</i> , 2007 , 33, 1-5	0.4	2
16	Critical Parameters for 2-Methylpropane (R600a). <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 406-408	2.8	7
15	Vapor□liquid Equilibrium (VLE) Properties for the Binary Systems Propane (1) + n-Butane (2) and Propane (1) + Isobutane (3). <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 579-582	2.8	30
14	Experimental determination of the critical locus for the difluoromethane (R32) and propane (R290) system. <i>Fluid Phase Equilibria</i> , 2004 , 219, 99-103	2.5	14
13	Vapor□liquid Equilibrium, Coexistence Curve, and Critical Locus for Pentafluoroethane + 1,1,1-Trifluoroethane (R125/R143a). <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 333-337	2.8	18
12	Vapor□liquid Equilibrium, Coexistence Curve, and Critical Locus for Pentafluoroethane + 1,1,1,2-Tetrafluoroethane (R125/R134a). <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 328-332	2.8	10
11	Surface Tension for 1,1,1-Trifluoroethane (R-143a), 1,1,1,2-Tetrafluoroethane (R-134a), 1,1-Dichloro-2,2,3,3,3-pentafluoropropane (R-225ca), and 1,3-Dichloro-1,2,2,3,3-pentafluoropropane (R-225cb). <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 438-440	2.8	22
10	Vapor□liquid Equilibrium, Coexistence Curve, and Critical Locus for Difluoromethane + Pentafluoroethane (R-32 + R-125). <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 1269-1273	2.8	32
9	Critical parameters for 1,1,1-trifluoroethane (R-143a). <i>Fluid Phase Equilibria</i> , 1996 , 125, 139-147	2.5	14
8	Experimental surface tensions for HFC-32, HCFC-124, HFC-125, HCFC-141b, HCFC-142b, and HFC-152a. <i>International Journal of Thermophysics</i> , 1995 , 16, 791-800	2.1	35
7	Vapor-liquid equilibrium, coexistence curve, and critical locus for binary HFC-32/HFC-134a mixture. <i>International Journal of Thermophysics</i> , 1995 , 16, 1175-1184	2.1	32
6	Critical parameters for HFC134a, HFC32 and HFC125. <i>International Journal of Refrigeration</i> , 1994 , 17, 524-531	3.8	54
5	Measurements of vapor pressure, vapor-liquid coexistence curve and critical parameters of refrigerant 152a.. <i>JSME International Journal</i> , 1987 , 30, 1106-1112		37
4	Measurements of the Vapor-liquid Coexistence Curve and Determination of the Critical Parameters for Refrigerant 13B1. <i>Bulletin of the JSME</i> , 1985 , 28, 2660-2666		12
3	Measurements of the Vapor-liquid Coexistence Curve and Determination of the Critical Parameters for Refrigerant 114. <i>Bulletin of the JSME</i> , 1985 , 28, 2968-2973		11

2	Measurements of the vapor-liquid coexistence curve for the binary R12 + R22 system in the critical region. <i>Journal of Chemical & Engineering Data</i> , 1984 , 29, 31-36	2.8	36
1	Procedures for determining the critical parameters of fluids. <i>Review of Scientific Instruments</i> , 1983 , 54, 21-25	1.7	23