Yukihiro Higashi

List of Publications by Citations

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 HFO-1234yf (2,3,3,3-tetrafluoropropene). *International Journal of Refrigeration*, **2010**, 33, 474-479	3.8	139
54	Thermodynamic property modeling for 2,3,3,3-tetrafluoropropene (HFO-1234yf). *International Journal of Refrigeration*, **2010**, 33, 52-60	3.8	86
53	Critical Parameters and Saturated Densities in the Critical Region for trans-1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)). *Journal of Chemical & Engineering Data*, **2010**, 55, 1594-1597	2.8	65
52	Surface tension of low GWP refrigerants R1243zf, R1234ze(Z), and R1233zd(E). *International Journal of Refrigeration*, **2015**, 53, 80-89	3.8	60
51	Measurements of the Isobaric Specific Heat Capacity and Density for HFO-1234yf in the Liquid State. *Journal of Chemical & Engineering Data*, **2010**, 55, 901-903	2.8	58
50	Measurements of the Vapor Pressures and p□T Properties for trans-1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)). *Journal of Chemical & Engineering Data*, **2010**, 55, 2169-2172	2.8	57
49	Critical parameters for HFC134a, HFC32 and HFC125. *International Journal of Refrigeration*, **1994**, 17, 524-531	3.8	54
48	A fundamental equation of state for cis-1,3,3,3-tetrafluoropropene (R-1234ze(Z)). *International Journal of Refrigeration*, **2014**, 44, 168-176	3.8	43
47	Measurements of the Isobaric Specific Heat Capacities for trans-1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)) in the Liquid Phase. *Journal of Chemical & Engineering Data*, **2010**, 55, 2267-2270	2.8	40
46	Measurements of vapor pressure, vapor-liquid coexistence curve and critical parameters of refrigerant 152a.. *JSME International Journal*, **1987**, 30, 1106-1112		37
45	Measurements of P□T properties, vapor pressures, saturated densities, and critical parameters for R 1234ze(Z) and R 245fa. *International Journal of Refrigeration*, **2015**, 52, 100-108	3.8	36
44	Measurements of the vapor-liquid coexistence curve for the binary R12 + R22 system in the critical region. *Journal of Chemical & Engineering Data*, **1984**, 29, 31-36	2.8	36
43	Experimental surface tensions for HFC-32, HCFC-124, HFC-125, HCFC-141b, HCFC-142b, and HFC-152a. *International Journal of Thermophysics*, **1995**, 16, 791-800	2.1	35
42	Measurements of Saturation Pressures for Trifluoroethene (R1123) and 3,3,3-Trifluoropropene (R1243zf). *Journal of Chemical & Engineering Data*, **2018**, 63, 417-421	2.8	32
41	Vapor□liquid Equilibrium, Coexistence Curve, and Critical Locus for Difluoromethane + Pentafluoroethane (R-32 + R-125). *Journal of Chemical & Engineering Data*, **1997**, 42, 1269-1273	2.8	32
40	Vapor-liquid equilibrium, coexistence curve, and critical locus for binary HFC-32/HFC-134a mixture. *International Journal of Thermophysics*, **1995**, 16, 1175-1184	2.1	32
39	Vapor□liquid Equilibrium (VLE) Properties for the Binary Systems Propane (1) + n-Butane (2) and Propane (1) + Isobutane (3). *Journal of Chemical & Engineering Data*, **2005**, 50, 579-582	2.8	30

38	Measurements of saturated densities and critical parameters for the binary mixture of 2,3,3,3-tetrafluoropropene (R-1234yf)+difluoromethane (R-32). *International Journal of Refrigeration*, **2013**, 36, 1341-1346	3.8	28
37	Measurements of the surface tension for R290, R600a and R290/R600a mixture. *International Journal of Refrigeration*, **2007**, 30, 1368-1373	3.8	27
36	P Property Measurements for trans-1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)) in the Gaseous Phase. *Journal of Chemical & Engineering Data*, **2010**, 55, 5164-5168	2.8	24
35	Procedures for determining the critical parameters of fluids. *Review of Scientific Instruments*, **1983**, 54, 21-25	1.7	23
34	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). *Journal of Chemical & Engineering Data*, **1997**, 42, 438-440	2.8	22
33	Surface Tensions of trans-1,3,3,3-Tetrafluoropropene and trans-1,3,3,3-Tetrafluoropropene+Difluoromethane Mixture. *Journal of Chemical Engineering of Japan*, **2013**, 46, 371-375	0.8	20
32	Measurements of PvT Properties, Saturated Densities, and Critical Parameters for 3,3,3-Trifluoropropene (HFO1243zf). *Journal of Chemical & Engineering Data*, **2018**, 63, 3818-3822	2.8	19
31	Thermodynamic properties of 1,1,1,2-tetrafluoroethane (R-134a) + 2,3,3,3-tetrafluoropropene (R-1234yf) mixtures: Measurements of the critical parameters and mixture model based on the multi-fluid approximation. *International Journal of Refrigeration*, **2015**, 58, 146-153	3.8	18
30	Vaporliquid Equilibrium, Coexistence Curve, and Critical Locus for Pentafluoroethane + 1,1,1-Trifluoroethane (R125/R143a). *Journal of Chemical & Engineering Data*, **1999**, 44, 333-337	2.8	18
29	Experimental determination of the critical locus for the difluoromethane (R32) and propane (R290) system. *Fluid Phase Equilibria*, **2004**, 219, 99-103	2.5	14
28	Critical parameters for 1,1,1-trifluoroethane (R-143a). *Fluid Phase Equilibria*, **1996**, 125, 139-147	2.5	14
27	Measurements of PvT Properties, Vapor Pressures, Saturated Densities, and Critical Parameters for cis-1-Chloro-2,3,3,3-tetrafluoropropene (R1224yd(Z)). *Journal of Chemical & Engineering Data*, **2019**, 64, 3983-3987	2.8	12
26	Vaporliquid equilibrium measurements and correlations for the binary mixture of difluoromethane+isobutane and the ternary mixture of propane+isobutane+difluoromethane. *Fluid Phase Equilibria*, **2007**, 261, 286-291	2.5	12
25	Measurements of the Vapor-liquid Coexistence Curve and Determination of the Critical Parameters for Refrigerant 13B1. *Bulletin of the JSME*, **1985**, 28, 2660-2666		12
24	Measurements of the Vapor-liquid Coexistence Curve and Determination of the Critical Parameters for Refrigerant 114. *Bulletin of the JSME*, **1985**, 28, 2968-2973		11
23	Measurements of PvT Properties, Vapor Pressures, Saturated Densities, and Critical Parameters for trans-1,1,1,4,4,4-Hexafluoro-2-butene (R1336mzz(E)). *Journal of Chemical & Engineering Data*, **2021**, 66, 734-739	2.8	11
22	Measurements of thermodynamic properties for the 50 mass% R1234yf + 50 mass% R1234ze(E) blend. *Science and Technology for the Built Environment*, **2016**, 22, 1185-1190	1.8	10
21	Measurements of the Isobaric Specific Heat Capacity and Density for Dimethyl Ether in the Liquid State. *Journal of Chemical & Engineering Data*, **2010**, 55, 2658-2661	2.8	10

20	Vapor–liquid Equilibrium, Coexistence Curve, and Critical Locus for Pentafluoroethane + 1,1,1,2-Tetrafluoroethane (R125/R134a). *Journal of Chemical & Engineering Data*, **1999**, 44, 328-332	2.8	10
19	Measurements of the Vapor–Liquid Equilibrium for the CO2 + R290 Mixture. *Journal of Chemical & Engineering Data*, **2009**, 54, 1029-1033	2.8	9
18	Thermodynamic properties of trifluoroethene (R1123): (p, ρT) behavior and fundamental equation of state. *International Journal of Refrigeration*, **2020**, 119, 457-467	3.8	9
17	Measurements of the Surface Tension for the R290 + R32 Mixture. *Journal of Chemical & Engineering Data*, **2009**, 54, 1656-1659	2.8	8
16	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)). *Journal of Chemical & Engineering Data*, **2020**, 65, 4285-4289	2.8	8
15	Drop-in experiments and exergy assessment of HFC-32/HFO-1234yf/R744 mixture with GWP below 150 for domestic heat pumps. *International Journal of Refrigeration*, **2021**, 121, 289-301	3.8	8
14	Critical Parameters for 2-Methylpropane (R600a). *Journal of Chemical & Engineering Data*, **2006**, 51, 406-408	2.8	7
13	Gaseous PVT Property Measurements of cis-1,3,3,3-Tetrafluoropropene. *Journal of Chemical & Engineering Data*, **2017**, 62, 2178-2182	2.8	6
12	Measurements of the Isobaric Specific Heat Capacity for 1,1,1-Trifluoroethane (R143a), Pentafluoroethane (R125), and Difluoromethane (R32) in the Liquid Phase. *Journal of Chemical & Engineering Data*, **2010**, 55, 1516-1518	2.8	5
11	Heat Pump Cycle Using Refrigerant Mixtures of HFC32 and HFO1234yf. *Heat Transfer Engineering*, **2021**, 42, 1097-1106	1.7	5
10	Measurement of the vapor–liquid equilibrium properties of the binary low GWP refrigerant R32/R1123. *International Journal of Refrigeration*, **2020**, 119, 340-348	3.8	4
9	Surface Tension and Parachor Measurement of Low-Global Warming Potential Working Fluid cis-1-Chloro-2,3,3,3-tetrafluoropropene (R1224yd(Z)). *Journal of Chemical & Engineering Data*, **2019**, 64, 5462-5468	2.8	4
8	Two-Phase and Vapor-Phase Thermophysical Property (pvTz) Measurements of the Difluoromethane + trans-1,3,3,3-Tetrafluoroprop-1-ene Binary System. *Journal of Chemical & Engineering Data*, **2020**, 65, 1554-1564	2.8	3
7	Achieving a Carbon Neutral Future through Advanced Functional Materials and Technologies. *Bulletin of the Chemical Society of Japan*, **2022**, 95, 73-103	5.1	3
6	Surface Tension of 1,1,1,2,2,3,3,4,4-Nonafluorohexane and 1,1,2,2-Tetrafluoroethyl-2,2,2-Trifluoroethyl Ether. *Kagaku Kogaku Ronbunshu*, **2007**, 33, 1-5	0.4	2
5	Thermoelectric Properties of FeSi2 Thermoelectric Conversion Modules Sintered with Ag Joint Plates by Spark Plasma Sintering Method. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2015**, 62, 313-317	0.2	1
4	Thermoelectric Properties of layered FeSi2 Thermoelectric Conversion Module Produced by Spark Plasma Sintering Method. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2015**, 62, 457-461	0.2	1
3	Exergy Investigation of R410A as a "Drop In" Refrigerant in a Water-Cooled Mechanical Vapor Compression Cycle. *Heat Transfer Engineering*, **2021**, 42, 1069-1086	1.7	1

2	Thermodynamic Properties of 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf) and Propane (R290) Mixtures: (p, T) Behavior, Saturated Liquid and Vapor Densities, Critical Parameters, and a Mixture Model. *Journal of Chemical & Engineering Data*, **2022**, 67, 346-357	2.8	0
1	Measurements of saturation pressures for the novel refrigerant R1132(E). *International Journal of Refrigeration*, **2022**, 135, 148-153	3.8	0