

# Yukihiro Higashi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/326796/publications.pdf>

Version: 2024-02-01

62  
papers

1,681  
citations

257357

24  
h-index

302012

39  
g-index

62  
all docs

62  
docs citations

62  
times ranked

461  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic properties of HFO-1234yf (2,3,3,3-tetrafluoropropene). International Journal of Refrigeration, 2010, 33, 474-479.	1.8	167
2	Thermodynamic property modeling for 2,3,3,3-tetrafluoropropene (HFO-1234yf). International Journal of Refrigeration, 2010, 33, 52-60.	1.8	101
3	Surface tension of low GWP refrigerants R1243zf, R1234ze(Z), and R1233zd(E). International Journal of Refrigeration, 2015, 53, 80-89.	1.8	83
4	Critical Parameters and Saturated Densities in the Critical Region for <i>trans</i> -1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)). Journal of Chemical & Engineering Data, 2010, 55, 1594-1597.	1.0	72
5	Critical parameters for HFC134a, HFC32 and HFC125. International Journal of Refrigeration, 1994, 17, 524-531.	1.8	65
6	Measurements of the Vapor Pressures and $\rho$ - $T$ Properties for <i>trans</i> -1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)). Journal of Chemical & Engineering Data, 2010, 55, 2169-2172.	1.0	64
7	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.	1.0	62
8	A fundamental equation of state for <i>cis</i> -1,3,3,3-tetrafluoropropene (R-1234ze(Z)). International Journal of Refrigeration, 2014, 44, 168-176.	1.8	51
9	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.	1.8	50
10	Measurements of Saturation Pressures for Trifluoroethene (R1123) and 3,3,3-Trifluoropropene (R1243zf). Journal of Chemical & Engineering Data, 2018, 63, 417-421.	1.0	50
11	Measurements of the Isobaric Specific Heat Capacities for <i>trans</i> -1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)) in the Liquid Phase. Journal of Chemical & Engineering Data, 2010, 55, 2267-2270.	1.0	48
12	Measurements of vapor pressure, vapor-liquid coexistence curve and critical parameters of refrigerant 152a. JSME International Journal, 1987, 30, 1106-1112.	0.1	42
13	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.	1.0	41
14	Procedures for determining the critical parameters of fluids. Review of Scientific Instruments, 1983, 54, 21-25.	0.6	40
15	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.	1.0	40
16	Vapor-Liquid Equilibrium, Coexistence Curve, and Critical Locus for Difluoromethane + Pentafluoroethane (R-32 + R-125). Journal of Chemical & Engineering Data, 1997, 42, 1269-1273.	1.0	40
17	Vapor-liquid equilibrium, coexistence curve, and critical locus for binary HFC-32/HFC-134a mixture. International Journal of Thermophysics, 1995, 16, 1175-1184.	1.0	39
18	Achieving a Carbon Neutral Future through Advanced Functional Materials and Technologies. Bulletin of the Chemical Society of Japan, 2022, 95, 73-103.	2.0	39

#	ARTICLE	IF	CITATIONS
19	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.	1.8	34
20	Vapor-Liquid Equilibrium (VLE) Properties for the Binary Systems Propane (1) + n-Butane (2) and Propane (1) + Isobutane (3). <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 579-582.	1.0	33
21	Measurements of the surface tension for R290, R600a and R290/R600a mixture. <i>International Journal of Refrigeration</i> , 2007, 30, 1368-1373.	1.8	33
22	Measurements of <i>PvT</i> Properties, Saturated Densities, and Critical Parameters for 3,3,3-Trifluoropropene (HFO1243zf). <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 3818-3822.	1.0	33
23	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 &amp; Engineering Data</i> , 1997, 42, 438-440.	1.0	27
24	<i>P</i> Property Measurements for <i>trans</i> -1,3,3,3-Tetrafluoropropene (HFO-1234ze(E)) in the Gaseous Phase. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 5164-5168.	1.0	26
25	Surface Tensions of <i>trans</i> -1,3,3,3-Tetrafluoropropene and <i>trans</i> -1,3,3,3-Tetrafluoropropene+Difluoromethane Mixture. <i>Journal of Chemical Engineering of Japan</i> , 2013, 46, 371-375.	0.3	25
26	Measurements of <i>PvT</i> Properties, Vapor Pressures, Saturated Densities, and Critical Parameters for <i>trans</i> -1,1,1,4,4,4-Hexafluoro-2-butene (R1336mzz(E)). <i>Journal of Chemical &amp; Engineering Data</i> , 2021, 66, 734-739.	1.0	25
27	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. <i>International Journal of Refrigeration</i> , 2015, 58, 146-153.	1.8	24
28	Measurements of <i>PvT</i> Properties, Vapor Pressures, Saturated Densities, and Critical Parameters for <i>cis</i> -1-Chloro-2,3,3,3-tetrafluoropropene (R1224yd(Z)). <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 3983-3987.	1.0	23
29	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.	1.8	23
30	Vapor-Liquid Equilibrium, Coexistence Curve, and Critical Locus for Pentafluoroethane + 1,1,1-Trifluoroethane (R125/R143a). <i>Journal of Chemical &amp; Engineering Data</i> , 1999, 44, 333-337.	1.0	22
31	Thermodynamic properties of trifluoroethene (R1123): ( <i>p</i> , <i>T</i> ) behavior and fundamental equation of state. <i>International Journal of Refrigeration</i> , 2020, 119, 457-467.	1.8	21
32	Measurements of Vapor Pressures for <i>trans</i> -1-Chloro-3,3,3-trifluoropropene (R1233zd(E)) and <i>cis</i> -1,1,1,4,4,4-Hexafluoro-2-butene (R1336mzz(Z)). <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 4285-4289.	1.0	17
33	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.	1.4	16
34	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.	0.8	16
35	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.	0.1	15
36	Critical parameters for 1,1,1-trifluoroethane (R-143a). <i>Fluid Phase Equilibria</i> , 1996, 125, 139-147.	1.4	15

#	ARTICLE	IF	CITATIONS
37	Experimental determination of the critical locus for the difluoromethane (R32) and propane (R290) system. <i>Fluid Phase Equilibria</i> , 2004, 219, 99-103.	1.4	14
38	Measurements of the Isobaric Specific Heat Capacity and Density for Dimethyl Ether in the Liquid State. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 2658-2661.	1.0	13
39	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.	0.1	11
40	Vapor-Liquid Equilibrium, Coexistence Curve, and Critical Locus for Pentafluoroethane + 1,1,1,2-Tetrafluoroethane (R125/R134a). <i>Journal of Chemical &amp; Engineering Data</i> , 1999, 44, 328-332.	1.0	11
41	Measurements of the Vapor-Liquid Equilibrium for the CO <sub>2</sub> + R290 Mixture. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 1029-1033.	1.0	11
42	Gaseous PVT Property Measurements of cis-1,3,3,3-Tetrafluoropropene. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 2178-2182.	1.0	11
43	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.	1.8	11
44	Measurements of saturation pressures for the novel refrigerant R1132(E). <i>International Journal of Refrigeration</i> , 2022, 135, 148-153.	1.8	10
45	Measurements of the Surface Tension for the R290 + R32 Mixture. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 1656-1659.	1.0	9
46	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 &amp; Engineering Data</i> , 2019, 64, 5462-5468.	1.0	8
47	<i>p</i> - <i>T</i> Properties, Saturation Pressures, Saturated Densities, and Critical Parameters of Trifluoroiodomethane (CF <sub>3</sub> I; R-1311). <i>Journal of Chemical &amp; Engineering Data</i> , 2022, 67, 2182-2192.	1.0	8
48	Critical Parameters for 2-Methylpropane (R600a). <i>Journal of Chemical &amp; Engineering Data</i> , 2006, 51, 406-408.	1.0	7
49	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 &amp; Engineering Data</i> , 2010, 55, 1516-1518.	1.0	6
50	Heat Pump Cycle Using Refrigerant Mixtures of HFC32 and HFO1234yf. <i>Heat Transfer Engineering</i> , 2021, 42, 1097-1106.	1.2	6
51	Two-Phase and Vapor-Phase Thermophysical Property ( <i>p</i> - <i>T</i> ) Measurements of the Difluoromethane + <i>trans</i> -1,3,3,3-Tetrafluoroprop-1-ene Binary System. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 1554-1564.	1.0	5
52	Thermodynamic Properties of 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf) and Propane (R290) Mixtures: ( <i>p</i> , <i>T</i> ) Behavior, Saturated Liquid and Vapor Densities, Critical Parameters, and a Mixture Model. <i>Journal of Chemical &amp; Engineering Data</i> , 2022, 67, 346-357.	1.0	4
53	Low-GWP refrigerants. <i>Science and Technology for the Built Environment</i> , 2016, 22, 1075-1076.	0.8	3
54	Measurements of <i>p</i> - <i>T</i> properties, saturated densities, and critical parameters of R1132(E). <i>International Journal of Refrigeration</i> , 2022, 140, 166-171.	1.8	3

#	ARTICLE	IF	CITATIONS
55	Measurements of vapor pressure, vapor-liquid coexistence curve and critical parameters of Refrigerant 152a.. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1987, 53, 1379-1385.	0.2	2
56	Exergy Investigation of R410A as a "Drop In" Refrigerant in a Water-Cooled Mechanical Vapor Compression Cycle. Heat Transfer Engineering, 2021, 42, 1069-1086.	1.2	2
57	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.	0.1	2
58	Thermoelectric Properties of FeSi <sub>2</sub> Thermoelectric Conversion Modules Sintered with Ag Joint Plates by Spark Plasma Sintering Method. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2015, 62, 313-317.	0.1	1
59	Thermoelectric Properties of layered FeSi <sub>2</sub> Thermoelectric Conversion Module Produced by Spark Plasma Sintering Method. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2015, 62, 457-461.	0.1	1
60	Measurements of the vapor-liquid coexistence curve and determination of the critical parameters for R114.. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1985, 51, 1327-1333.	0.2	0
61	Surface Tension Measurements of Fluids under High Pressure.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1994, 3, 324-331.	0.1	0
62	Development of temperature-change sensor by thermoelectric elements and its response evaluation on dropping into water. Heat Transfer - Asian Research, 2009, 38, n/a-n/a.	2.8	0