Ryo Akasaka

List of Publications by Year
in descending order

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Version: 2024-02-01

44	1,055	361413	414414
papers	citations	20 h-index	32 g-index

44	44	44	488
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermodynamic property modeling for 2,3,3,3-tetrafluoropropene (HFO-1234yf). International Journal of Refrigeration, 2010, 33, 52-60.	3.4	101
2	Thermodynamic property models for the difluoromethane (R-32)+trans-1,3,3,3-tetrafluoropropene (R-1234ze(E)) and difluoromethane+2,3,3,3-tetrafluoropropene (R-1234yf) mixtures. Fluid Phase Equilibria, 2013, 358, 98-104.	2.5	81
3	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.	1.9	62
4	New Fundamental Equations of State with a Common Functional Form for 2,3,3,3-Tetrafluoropropene (R-1234yf) and trans-1,3,3,3-Tetrafluoropropene (R-1234ze(E)). International Journal of Thermophysics, 2011, 32, 1125-1147.	2.1	52
5	A fundamental equation of state for cis-1,3,3,3-tetrafluoropropene (R-1234ze(Z)). International Journal of Refrigeration, 2014, 44, 168-176.	3.4	51
6	Measurements of PÏT properties, vapor pressures, saturated densities, and critical parameters for R 1234ze(Z) and R 245fa. International Journal of Refrigeration, 2015, 52, 100-108.	3.4	50
7	Measurements of Saturation Pressures for Trifluoroethene (R1123) and 3,3,3-Trifluoropropene (R1243zf). Journal of Chemical & Engineering Data, 2018, 63, 417-421.	1.9	50
8	Fundamental Equations of State for cis-1,3,3,3-Tetrafluoropropene [R-1234ze(Z)] and 3,3,3-Trifluoropropene (R-1243zf). Journal of Chemical & Engineering Data, 2019, 64, 4679-4691.	1.9	46
9	Thermodynamic Properties of cis-1,1,1,4,4,4-Hexafluoro-2-butene (HFO-1336mzz(Z)): Measurements of the pÏT Property and Determinations of Vapor Pressures, Saturated Liquid and Vapor Densities, and Critical Parameters. Journal of Chemical & Engineering Data, 2016, 61, 2467-2473.	1.9	40
10	A Fundamental Equation of State for 1,1,1,3,3-Pentafluoropropane (R-245fa). Journal of Physical and Chemical Reference Data, 2015, 44, .	4.2	39
11	An application of the extended corresponding states model to thermodynamic property calculations for trans-1,3,3,3-tetrafluoropropene (HFO-1234ze(E)). International Journal of Refrigeration, 2010, 33, 907-914.	3.4	35
12	Measurements of saturated densities and critical parameters for the binary mixture of 2,3,3,3-tetrafluoropropene (R-1234yf)Â+Âdifluoromethane (R-32). International Journal of Refrigeration, 2013, 36, 1341-1346.	3.4	34
13	Development of New Low-GWP Refrigerantsâ€“Refrigerant Mixtures Including HFO-1123. Science and Technology for the Built Environment, 2019, 25, 776-783.	1.7	29
14	Thermodynamic Properties of cis-1,1,1,4,4,4-Hexafluorobutene [R-1336mzz(Z)]: Vapor Pressure, (p, Ï, T) Behavior, and Speed of Sound Measurements and Equation of State. Journal of Chemical & Engineering Data, 2020, 65, 4201-4214.	1.9	27
15	Applications of Artificial Neural Network for the Prediction of Flow Boiling Curves. Journal of Nuclear Science and Technology, 2002, 39, 1190-1198.	1.3	25
16	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.	1.9	25
17	Thermodynamic properties of 1,1,1,2-tetrafluoroethane (R-134a) + 2,3,3,3-tetrafluoropropene (R-1234yf) mixtures: Measurements of the critical parameters andÂaÂmixture model based on the multi-fluid approximation. International Journal of Refrigeration, 2015, 58, 146-153.	3.4	24
18	Measurements of the Critical Parameters for cis-1,1,1,4,4,4-Hexafluoro-2-butene. Journal of Chemical & Engineering Data, 2017, 62, 1135-1138.	1.9	23

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19	Development of multicomponent vaporization/condensation model for a reactor safety analysis code SIMMER-III. Nuclear Engineering and Design, 2003, 220, 224-239.	1.7	22
20	Thermodynamic properties of trifluoroethene (R1123): (p, Ï, T) behavior and fundamental equation of state. International Journal of Refrigeration, 2020, 119, 457-467.	3.4	21
21	A Reliable and Useful Method to Determine the Saturation State from Helmholtz Energy Equations of State. Journal of Thermal Science and Technology, 2008, 3, 442-451.	1.1	19
22	Recent trends in the development of Helmholtz energy equations of state and their application to 3,3,3-trifluoroprop-1-ene (R-1243zf). Science and Technology for the Built Environment, 2016, 22, 1136-1144.	1.7	19
23	R1233zd(E) flow boiling inside a 4.3â€¯mm ID microfin tube. International Journal of Refrigeration, 2018, 91, 69-79.	3.4	18
24	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.	1.9	17
25	Vaporâ€“liquid 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	16
26	Calculation of the critical point for mixtures using mixture models based on Helmholtz energy equations of state. Fluid Phase Equilibria, 2008, 263, 102-108.	2.5	15
27	An International Standard Formulation for 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf) Covering Temperatures from the Triple Point Temperature to 410ÂK and Pressures Up to 100ÂMPa. International Journal of Thermophysics, 2022, 43, .	2.1	15
28	VAPORâ€“LIQUID EQUILIBRIUM MODELING FOR MIXTURES OF HFC-32 + ISOBUTANE AND HFC-32 + HFO-1234ze(E). International Journal of Air-Conditioning and Refrigeration, 2011, 19, 93-97.	0.7	12
29	Measurements of the Vaporâ^'Liquid Equilibrium for the CO₂ + R290 Mixture. Journal of Chemical & Engineering Data, 2009, 54, 1029-1033.	1.9	11
30	HCFO refrigerant cis-1-chloro-2,3,3,3 tetrafluoropropene [R1224yd(Z)]: Experimental assessment and correlation of the liquid density. International Journal of Refrigeration, 2020, 118, 139-145.	3.4	10
31	A fundamental equation of state for trifluoromethyl methyl ether (HFE-143m) and its application to refrigeration cycle analysis. International Journal of Refrigeration, 2012, 35, 1003-1013.	3.4	9
32	Development of multicomponent vaporization/condensation model for a reactor safety analysis code SIMMER-III. Nuclear Engineering and Design, 2003, 220, 240-254.	1.7	8
33	Practical and direct expressions of the heat of vaporization for mixtures. Chemical Engineering Science, 2005, 60, 4369-4376.	3.8	6
34	An International Standard Formulation for trans-1-Chloro-3,3,3-trifluoroprop-1-ene [R1233zd(E)] Covering Temperatures from the Triple-Point Temperature to 450ÂK and Pressures up to 100 MPa. Journal of Physical and Chemical Reference Data, 2022, 51, .	4.2	6
35	Viscosity Correlation for 2,3,3,3-Tetrafluoropropene (HFO-1234yf) Based on the Extended Corresponding States Model. Journal of Thermal Science and Technology, 2010, 5, 200-205.	1.1	5
36	Application of the extended corresponding states model for prediction of the viscosity and thermal conductivity of cis-1,3,3,3-tetrafluoropropene (R1234ze(Z)). Science and Technology for the Built Environment, 2016, 22, 1167-1174.	1.7	5

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37	Vapor Pressure, $$(p, ho , T)$$ Behavior, Saturated Densities, and Surface Tension of trans-1,2-Dichloroethene [R1130(E)]. International Journal of Thermophysics, 2022, 43, 1.	2.1	5
38	A rigorous calculation of the critical point from the fundamental equation of state for the water+ammonia mixture. International Journal of Refrigeration, 2009, 32, 95-101.	3.4	4
39	Universal parameters of the extended corresponding states (ECS) model for hydrofluoroolefin refrigerants. International Journal of Refrigeration, 2021, 131, 33-40.	3.4	4
40	Thermodynamic Properties of 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf) and Propane (R290) Mixtures: (p, Ï, T) Behavior, Saturated Liquid and Vapor Densities, Critical Parameters, and a Mixture Model. Journal of Chemical & Engineering Data, 2022, 67, 346-357.	1.9	4
41	An Assessment of Thermodynamic Models for HFC Refrigerant Mixtures Through the Critical-Point Calculation. International Journal of Thermophysics, 2008, 29, 1328-1341.	2.1	3
42	Low-GWP refrigerants. Science and Technology for the Built Environment, 2016, 22, 1075-1076.	1.7	3
43	Experimental determination of the critical parameters for trans-1-chloro-3,3,3-trifluoroprop-1-ene [R1233zd(E)] and cis-1-chloro-2,3,3,3-tetrafluoroprop-1-ene [R1224yd(Z)]. International Journal of Refrigeration, 2021, 131, 61-67.	3.4	3
44	Applications of the Simple Multi-Fluid Model to Correlations of the Vapor-Liquid Equilibrium of Refrigerant Mixtures Containing Carbon Dioxide. Journal of Thermal Science and Technology, 2009, 4, 159-168.	1.1	1