Sergio Bobbo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1008712/publications.pdf

Version: 2024-02-01

67 papers	2,318 citations	201674 27 h-index	233421 45 g-index
67 all docs	67 docs citations	67 times ranked	1505 citing authors

#	Article	IF	Citations
1	Viscosity and thermal conductivity measurements of water-based nanofluids containing titanium oxide nanoparticles. International Journal of Refrigeration, 2012, 35, 1359-1366.	3.4	213
2	Experimental stability analysis of different water-based nanofluids. Nanoscale Research Letters, 2011, 6, 300.	5.7	179
3	Viscosity of water based SWCNH and TiO2 nanofluids. Experimental Thermal and Fluid Science, 2012, 36, 65-71.	2.7	164
4	Low GWP halocarbon refrigerants: A review of thermophysical properties. International Journal of Refrigeration, 2018, 90, 181-201.	3.4	138
5	Influence of nanoparticles dispersion in POE oils on lubricity and R134a solubility. International Journal of Refrigeration, 2010, 33, 1180-1186.	3.4	82
6	A recirculation apparatus for vaporâ€“liquid equilibrium measurements of refrigerants. Binary mixtures of R600a, R134a and R236fa. Fluid Phase Equilibria, 1998, 150-151, 343-352.	2.5	60
7	Water-Based Fe₂O₃ Nanofluid Characterization: Thermal Conductivity and Viscosity Measurements and Correlation. Advances in Mechanical Engineering, 2012, 4, 674947.	1.6	58
8	Saturated Pressure Measurements of 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf) for Reduced Temperatures Ranging from 0.67 to 0.93. Journal of Chemical & Engineering Data, 2011, 56, 2608-2612.	1.9	55
9	Saturated pressure measurements of 3,3,3-trifluoroprop-1-ene (R1243zf) for reduced temperatures ranging from 0.62 to 0.98. Fluid Phase Equilibria, 2013, 351, 48-52.	2.5	54
10	New Measurements of the Apparent Thermal Conductivity of Nanofluids and Investigation of Their Heat Transfer Capabilities. Journal of Chemical & Engineering Data, 2017, 62, 491-507.	1.9	52
11	R1234yf as a substitute of R134a in automotive air conditioning. Solubility measurements in two commercial PAG oils. International Journal of Refrigeration, 2014, 40, 302-308.	3.4	51
12	Saturated Pressure Measurements of trans-1,3,3,3-Tetrafluoroprop-1-ene (R1234ze(E)) for Reduced Temperatures Ranging from 0.58 to 0.92. Journal of Chemical & Engineering Data, 2012, 57, 2197-2202.	1.9	48
13	Subcooled liquid density measurements and PvT measurements in the vapor phase for 3,3,3-trifluoroprop-1-ene (R1243zf). International Journal of Refrigeration, 2013, 36, 2209-2215.	3.4	46
14	Development of paraffinic phase change material nanoemulsions for thermal energy storage and transport in low-temperature applications. Applied Thermal Engineering, 2019, 159, 113868.	6.0	46
15	(Vapour + liquid) equilibrium measurements and correlations of the refrigerant mixture {dimethyl ether (RE170) + 1,1,1,3,3,3-hexafluoropropane (R236fa)} at the temperatures (303.68 and 323.75) K. Journal of Chemical Thermodynamics, 1998, 30, 1041-1046.	2.0	43
16	Measurements and Correlations of cis-1,3,3,3-Tetrafluoroprop-1-ene (R1234ze(Z)) Saturation Pressure. International Journal of Thermophysics, 2014, 35, 1-12.	2.1	43
17	Compressed Liquid Density Measurements for 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf). Journal of Chemical & Engineering Data, 2012, 57, 482-489.	1.9	42
18	Isothermal vaporâ€“liquid equilibrium for the three binary systems 1,1,1,2,3,3-hexafluoropropane with dimethyl ether or propane, and 1,1,1,3,3,3-hexafluoropropane with dimethyl ether. Fluid Phase Equilibria, 2000, 174, 3-12.	2.5	39

#	Article	IF	Citations
19	Isothermal VLE measurements for the binary mixtures HFC-134a + HFC-245fa and HC-600a + HFC-245fa. Fluid Phase Equilibria, 2001, 185, 255-264.	2.5	38
20	Solubility of carbon dioxide in 2-methylbutyric, 2-methylvaleric and 2-methylhexanoic ester oils. Fluid Phase Equilibria, 2007, 256, 81-85.	2.5	36
21	Hydrogen-bonding of HFCs with dimethyl ether: evaluation by isothermal VLE measurements. Fluid Phase Equilibria, 2002, 199, 153-160.	2.5	35
22	Isothermal Vaporâ"Liquid Equilibria for 1,1,1,2-Tetrafluoroethane + Propane and Propane + 1,1,1-Trifluoroethane at 283.18 K. Journal of Chemical & Engineering Data, 1998, 43, 241-244.	1.9	31
23	VLE measurements and modeling for the strongly positive azeotropic R32+propane system. Fluid Phase Equilibria, 2002, 199, 175-183.	2.5	31
24	Subcooled Liquid Density Measurements and PvT Measurements in the Vapor Phase for trans-1,3,3,3-Tetrafluoroprop-1-ene (R1234ze(E)). Journal of Chemical & Engineering Data, 2012, 57, 3710-3720.	1.9	31
25	PÏ‡Experimental Measurements and Data Correlation of Pentaerythritol Esters. Journal of Chemical & Engineering Data, 2007, 52, 108-115.	1.9	30
26	NePCM Based on Silver Dispersions in Poly(Ethylene Glycol) as a Stable Solution for Thermal Storage. Nanomaterials, 2020, 10, 19.	4.1	29
27	(Vapour + liquid) equilibrium measurement and correlation of the refrigerant (propane +) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 2000, 32, 1647-1656.	2.0	28
28	Solubility Measurements and Data Correlation of Carbon Dioxide in Pentaerythritol Tetrahexanoate (PEC6). Journal of Chemical & Engineering Data, 2008, 53, 2581-2585.	1.9	26
29	Saturated Pressure Measurements of trans-1-Chloro-3,3,3-trifluoroprop-1-ene (R1233zd(E)). Journal of Chemical & Engineering Data, 2017, 62, 2496-2500.	1.9	25
30	Dynamic Viscosity, Surface Tension and Wetting Behavior Studies of Paraffinâ€"inâ€"Water Nanoâ€"Emulsions. Energies, 2019, 12, 3334.	3.1	24
31	Solubility of carbon dioxide in pentaerythritol tetraoctanoate. Fluid Phase Equilibria, 2009, 277, 55-60.	2.5	23
32	Saturated pressure measurements of cis-pentafluoroprop-1-ene (R1225ye(Z)). International Journal of Refrigeration, 2016, 69, 243-250.	3.4	23
33	Surface oxidation of single wall carbon nanohorns for the production of surfactant free water-based colloids. Journal of Colloid and Interface Science, 2018, 514, 528-533.	9.4	23
34	Vaporâ"Liquid Equilibria for Difluoromethane (R32) + and Pentafluoroethane (R125) + 1,1,1,3,3,3-Hexafluoropropane (R236fa) at 303.2 and 323.3 K. Journal of Chemical & Engineering Data, 1999, 44, 349-352.	1.9	22
35	Solubility of Carbon Dioxide in Pentaerythritol Tetrabutyrate (PEC4) and Comparison with Other Linear Chained Pentaerythritol Tetraalkyl Esters. International Journal of Thermophysics, 2009, 30, 1144-1154.	2.1	22
36	Energetic and Exergetic Analysis of Low Global Warming Potential Refrigerants as Substitutes for R410A in Ground Source Heat Pumps. Energies, 2019, 12, 3538.	3.1	22

#	Article	IF	Citations
37	State of the Art, Perspective and Obstacles of Ground-Source Heat Pump Technology in the European Building Sector: A Review. Energies, 2022, 15, 2685.	3.1	22
38	Vaporâ˜Liquid Equilibrium Measurements and Correlation of the Binary Refrigerant Mixture Propane (HC-290) + 1,1,1,2,3,3,3-Heptafluoropropane (HFC-227ea) at 278.15, 293.15, and 308.15 K. Journal of Chemical & Engineering Data, 2002, 47, 839-842.	1.9	21
39	Isothermal vapour + liquid equilibrium measurements and correlation for the dimethyl ether + 1,1,1,2,3,3,3-heptafluoropropane and the propane + 1,1,1,2,3,3,3-heptafluoropropane systems. Fluid Phase Equilibria, 2004, 224, 119-123.	2.5	20
40	Isothermal VLE Measurements for Difluoromethane + Dimethyl Ether and an Evaluation of Hydrogen Bonding. Journal of Chemical & Engineering Data, 2005, 50, 128-132.	1.9	19
41	Compressed Liquid Densities and Saturated Liquid Densities of Dimethyl Ether (RE170). Journal of Chemical & Engineering Data, 2005, 50, 1667-1671.	1.9	18
42	Measurements and Correlations of cis-1,3,3,3-Tetrafluoroprop-1-ene (R1234ze(Z)) Subcooled Liquid Density and Vapor-Phase PvT. International Journal of Thermophysics, 2014, 35, 1415-1434.	2.1	17
43	Vapourâ€“liquid equilibrium measurements and correlation for the pentafluoroethane (R125)+n-butane (R600) system. Fluid Phase Equilibria, 2005, 227, 275-281.	2.5	16
44	Title is missing!. International Journal of Thermophysics, 2000, 21, 781-791.	2.1	15
45	Compressed liquid densities and saturated liquid densities of HFC-365mfc. Fluid Phase Equilibria, 2004, 222-223, 291-296.	2.5	15
46	Vaporâ˜Liquid Equilibrium for the Difluoromethane (R32) +n-Butane (R600) System. Journal of Chemical & Engineering Data, 2005, 50, 44-48.	1.9	15
47	Nanofluids characterization and application as nanolubricants in heat pump systems. Science and Technology for the Built Environment, 2015, 21, 621-630.	1.7	15
48	High-pressure vaporâ€“liquid equilibrium of binary systems with R236fa. Fluid Phase Equilibria, 1999, 161, 305-313.	2.5	14
49	Solubility measurements and correlation of carbon dioxide in pentaerythritol tetra-2-methylhexanoate. Comparison with other pentaerythritol esters. Fluid Phase Equilibria, 2010, 290, 115-120.	2.5	14
50	Compressed Liquid Density and Vapor Phase PvT Measurements of trans-1-Chloro-3,3,3-trifluoroprop-1-ene [R1233zd(E)]. Journal of Chemical & Engineering Data, 2018, 63, 225-232.	1.9	14
51	Compressed Liquid Densities, Saturated Liquid Densities, and Vapor Pressures of Hexafluoro-1,3-butadiene (C4F6). Journal of Chemical & Engineering Data, 2002, 47, 179-182.	1.9	13
52	Compressed Liquid Density Measurements for 1,1,1,2,3,3,3-Heptafluoropropane (R227ea). Journal of Chemical & Engineering Data, 2007, 52, 1955-1959.	1.9	13
53	Compressed Liquid Density and Vapor Phase PvT Measurements of cis-1,2,3,3,3-Pentafluoroprop-1-ene (R1225ye(Z)). Journal of Chemical & Engineering Data, 2015, 60, 3333-3340.	1.9	13
54	Characterization and Simulation of the Heat Transfer Behaviour of Water-Based ZnO Nanofluids. Journal of Nanoscience and Nanotechnology, 2015, 15, 3599-3609.	0.9	13

#	Article	IF	Citations
55	Isothermal Vaporâ"Liquid Equilibria for the Binary System 1,1,1-Trifluoroethane (R143a) + 1,1,1,3,3,3-Hexafluoropropane (R236fa) at 283.11, 298.16, and 313.21 K. Journal of Chemical & Engineering Data, 2000, 45, 276-279.	1.9	12
56	Vaporâ"Liquid Equilibrium for Dimethyl Ether and 2-Methylpropane. Journal of Chemical & Engineering Data, 2000, 45, 829-832.	1.9	12
57	Mutual solubility and VLLE correlation for the R32 + R290 system. Fluid Phase Equilibria, 2003, 212, 245-255.	2.5	12
58	Solubility Temperature Dependence and Data Correlation of Carbon Dioxide in Pentaerythritol Tetra-2-methylbutyrate. Journal of Chemical & Engineering Data, 2009, 54, 3104-3107.	1.9	11
59	Solubility Measurements and Data Correlation of Carbon Dioxide in Pentaerythritol Tetra(2-ethylbutanoate) (PEBE6). Journal of Chemical & Engineering Data, 2011, 56, 62-64.	1.9	10
60	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
61	(P,Ï¡T) Behavior of 1,1,1,2,3,3,3-Heptafluoropropane (HFC-227ea) at Temperatures between 253 K and 403 K and Pressures up to 20 MPa. Journal of Chemical & Engineering Data, 2002, 47, 258-261.	1.9	9
62	VLLE measurements and their correlation for the R32 + R600 system. Fluid Phase Equilibria, 2003, 210, 45-56.	2.5	8
63	Isothermal vapour+liquid equilibrium measurements and correlation for the pentafluoroethane+cyclopropane and the cyclopropane+1,1,1,2-tetrafluoroethane binary systems. Fluid Phase Equilibria, 2007, 251, 41-46.	2.5	8
64	Analysis of the Parameters Required to Properly Define Nanofluids for Heat Transfer Applications. Fluids, 2021, 6, 65.	1.7	8
65	Gas Chromatographic Measurements of Activity Coefficients at Infinite Dilution for Refrigerants with a Polyol Ester Oil as a Stationary Phase. Journal of Chemical & Engineering Data, 1999, 44, 568-573.	1.9	7
66	Saturated Pressure Measurements of cis-1-Chloro-2,3,3,3- tetrafluoropropene (R1224yd (Z)) Saturation Pressure. Journal of Chemical & Engineering Data, 2020, 65, 4263-4267.	1.9	7
67	Temperature and Pressure Dependence of Branched Pentaerythritol Ester Density. Journal of Chemical & Engineering Data, 2008, 53, 1779-1784.	1.9	5