

# Sergio Bobbo

## List of Publications by Year in descending order

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67  
papers

2,318  
citations

201385

27  
h-index

233125

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. <i>International Journal of Refrigeration</i> , 2012, 35, 1359-1366.	1.8	213
2	Experimental stability analysis of different water-based nanofluids. <i>Nanoscale Research Letters</i> , 2011, 6, 300.	3.1	179
3	Viscosity of water based SWCNH and TiO <sub>2</sub> nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2012, 36, 65-71.	1.5	164
4	Low GWP halocarbon refrigerants: A review of thermophysical properties. <i>International Journal of Refrigeration</i> , 2018, 90, 181-201.	1.8	138
5	Influence of nanoparticles dispersion in POE oils on lubricity and R134a solubility. <i>International Journal of Refrigeration</i> , 2010, 33, 1180-1186.	1.8	82
6	A recirculation apparatus for vapor-liquid equilibrium measurements of refrigerants. Binary mixtures of R600a, R134a and R236fa. <i>Fluid Phase Equilibria</i> , 1998, 150-151, 343-352.	1.4	60
7	Water-Based Fe <sub>2</sub> O <sub>3</sub> Nanofluid Characterization: Thermal Conductivity and Viscosity Measurements and Correlation. <i>Advances in Mechanical Engineering</i> , 2012, 4, 674947.	0.8	58
8	Saturated Pressure Measurements of 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf) for Reduced Temperatures Ranging from 0.67 to 0.93. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 2608-2612.	1.0	55
9	Saturated pressure measurements of 3,3,3-trifluoroprop-1-ene (R1243zf) for reduced temperatures ranging from 0.62 to 0.98. <i>Fluid Phase Equilibria</i> , 2013, 351, 48-52.	1.4	54
10	New Measurements of the Apparent Thermal Conductivity of Nanofluids and Investigation of Their Heat Transfer Capabilities. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 491-507.	1.0	52
11	R1234yf as a substitute of R134a in automotive air conditioning. Solubility measurements in two commercial PAG oils. <i>International Journal of Refrigeration</i> , 2014, 40, 302-308.	1.8	51
12	Saturated Pressure Measurements of <i>trans</i> -1,3,3,3-Tetrafluoroprop-1-ene (R1234ze(E)) for Reduced Temperatures Ranging from 0.58 to 0.92. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 2197-2202.	1.0	48
13	Subcooled liquid density measurements and PvT measurements in the vapor phase for 3,3,3-trifluoroprop-1-ene (R1243zf). <i>International Journal of Refrigeration</i> , 2013, 36, 2209-2215.	1.8	46
14	Development of paraffinic phase change material nanoemulsions for thermal energy storage and transport in low-temperature applications. <i>Applied Thermal Engineering</i> , 2019, 159, 113868.	3.0	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. <i>Journal of Chemical Thermodynamics</i> , 1998, 30, 1041-1046.	1.0	43
16	Measurements and Correlations of <i>cis</i> -1,3,3,3-Tetrafluoroprop-1-ene (R1234ze(Z)) Saturation Pressure. <i>International Journal of Thermophysics</i> , 2014, 35, 1-12.	1.0	43
17	Compressed Liquid Density Measurements for 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf). <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 482-489.	1.0	42
18	Isothermal vapor-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. <i>Fluid Phase Equilibria</i> , 2000, 174, 3-12.	1.4	39

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19	Isothermal VLE measurements for the binary mixtures HFC-134a + HFC-245fa and HC-600a + HFC-245fa. Fluid Phase Equilibria, 2001, 185, 255-264.	1.4	38
20	Solubility of carbon dioxide in 2-methylbutyric, 2-methylvaleric and 2-methylhexanoic ester oils. Fluid Phase Equilibria, 2007, 256, 81-85.	1.4	36
21	Hydrogen-bonding of HFCs with dimethyl ether: evaluation by isothermal VLE measurements. Fluid Phase Equilibria, 2002, 199, 153-160.	1.4	35
22	Isothermal Vapor-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.	1.0	31
23	VLE measurements and modeling for the strongly positive azeotropic R32+propane system. Fluid Phase Equilibria, 2002, 199, 175-183.	1.4	31
24	Subcooled Liquid Density Measurements and $PvT$ Measurements in the Vapor Phase for <i>trans</i> -1,3,3,3-Tetrafluoroprop-1-ene (R1234ze(E)). Journal of Chemical & Engineering Data, 2012, 57, 3710-3720.	1.0	31
25	Experimental Measurements and Data Correlation of Pentaerythritol Esters. Journal of Chemical & Engineering Data, 2007, 52, 108-115.	1.0	30
26	NePCM Based on Silver Dispersions in Poly(Ethylene Glycol) as a Stable Solution for Thermal Storage. Nanomaterials, 2020, 10, 19.	1.9	29
27	( Vapour + liquid ) equilibrium measurement and correlation of the refrigerant ( propane + ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 2000, 32, 1647-1656.	1.0	28
28	Solubility Measurements and Data Correlation of Carbon Dioxide in Pentaerythritol Tetrahexanoate (PEC6). Journal of Chemical & Engineering Data, 2008, 53, 2581-2585.	1.0	26
29	Saturated Pressure Measurements of <i>trans</i> -1-Chloro-3,3,3-trifluoroprop-1-ene (R1233zd(E)). Journal of Chemical & Engineering Data, 2017, 62, 2496-2500.	1.0	25
30	Dynamic Viscosity, Surface Tension and Wetting Behavior Studies of Paraffin-Water Nano-Emulsions. Energies, 2019, 12, 3334.	1.6	24
31	Solubility of carbon dioxide in pentaerythritol tetraoctanoate. Fluid Phase Equilibria, 2009, 277, 55-60.	1.4	23
32	Saturated pressure measurements of cis-pentafluoroprop-1-ene (R1225ye(Z)). International Journal of Refrigeration, 2016, 69, 243-250.	1.8	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.	5.0	23
34	Vapor-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.	1.0	22
35	Solubility of Carbon Dioxide in Pentaerythritol Tetrabutylate (PEC4) and Comparison with Other Linear Chained Pentaerythritol Tetraalkyl Esters. International Journal of Thermophysics, 2009, 30, 1144-1154.	1.0	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.	1.6	22

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37	State of the Art, Perspective and Obstacles of Ground-Source Heat Pump Technology in the European Building Sector: A Review. <i>Energies</i> , 2022, 15, 2685.	1.6	22
38	Vapor-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. <i>Journal of Chemical &amp; Engineering Data</i> , 2002, 47, 839-842.	1.0	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. <i>Fluid Phase Equilibria</i> , 2004, 224, 119-123.	1.4	20
40	Isothermal VLE Measurements for Difluoromethane + Dimethyl Ether and an Evaluation of Hydrogen Bonding. <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 128-132.	1.0	19
41	Compressed Liquid Densities and Saturated Liquid Densities of Dimethyl Ether (RE170). <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 1667-1671.	1.0	18
42	Measurements and Correlations of cis-1,3,3,3-Tetrafluoroprop-1-ene (R1234ze(Z)) Subcooled Liquid Density and Vapor-Phase PvT. <i>International Journal of Thermophysics</i> , 2014, 35, 1415-1434.	1.0	17
43	Vapour-liquid equilibrium measurements and correlation for the pentafluoroethane (R125)+n-butane (R600) system. <i>Fluid Phase Equilibria</i> , 2005, 227, 275-281.	1.4	16
44	Title is missing!. <i>International Journal of Thermophysics</i> , 2000, 21, 781-791.	1.0	15
45	Compressed liquid densities and saturated liquid densities of HFC-365mfc. <i>Fluid Phase Equilibria</i> , 2004, 222-223, 291-296.	1.4	15
46	Vapor-Liquid Equilibrium for the Difluoromethane (R32) +n-Butane (R600) System. <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 44-48.	1.0	15
47	Nanofluids characterization and application as nanolubricants in heat pump systems. <i>Science and Technology for the Built Environment</i> , 2015, 21, 621-630.	0.8	15
48	High-pressure vapor-liquid equilibrium of binary systems with R236fa. <i>Fluid Phase Equilibria</i> , 1999, 161, 305-313.	1.4	14
49	Solubility measurements and correlation of carbon dioxide in pentaerythritol tetra-2-methylhexanoate. Comparison with other pentaerythritol esters. <i>Fluid Phase Equilibria</i> , 2010, 290, 115-120.	1.4	14
50	Compressed Liquid Density and Vapor Phase PvT Measurements of trans-1-Chloro-3,3,3-trifluoroprop-1-ene [R1233zd(E)]. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 225-232.	1.0	14
51	Compressed Liquid Densities, Saturated Liquid Densities, and Vapor Pressures of Hexafluoro-1,3-butadiene (C4F6). <i>Journal of Chemical &amp; Engineering Data</i> , 2002, 47, 179-182.	1.0	13
52	Compressed Liquid Density Measurements for 1,1,1,2,3,3,3-Heptafluoropropane (R227ea). <i>Journal of Chemical &amp; Engineering Data</i> , 2007, 52, 1955-1959.	1.0	13
53	Compressed Liquid Density and Vapor Phase PvT Measurements of cis-1,2,3,3,3-Pentafluoroprop-1-ene (R1225ye(Z)). <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 3333-3340.	1.0	13
54	Characterization and Simulation of the Heat Transfer Behaviour of Water-Based ZnO Nanofluids. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3599-3609.	0.9	13

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55	Isothermal Vapor-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.	1.0	12
56	Vapor-Liquid Equilibrium for Dimethyl Ether and 2-Methylpropane. Journal of Chemical & Engineering Data, 2000, 45, 829-832.	1.0	12
57	Mutual solubility and VLE correlation for the R32 + R290 system. Fluid Phase Equilibria, 2003, 212, 245-255.	1.4	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.	1.0	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.	1.0	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.	1.8	10
61	(P, $\rho$ , 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.	1.0	9
62	VLE measurements and their correlation for the R32 + R600 system. Fluid Phase Equilibria, 2003, 210, 45-56.	1.4	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.	1.4	8
64	Analysis of the Parameters Required to Properly Define Nanofluids for Heat Transfer Applications. Fluids, 2021, 6, 65.	0.8	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.	1.0	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.	1.0	7
67	Temperature and Pressure Dependence of Branched Pentaerythritol Ester Density. Journal of Chemical & Engineering Data, 2008, 53, 1779-1784.	1.0	5