Laura Fedele

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85 papers	2,276 citations	26 h-index	44 g-index
87 ext. papers	2,609 ext. citations	3.3 avg, IF	5.05 L-index

#	Paper	IF	Citations
85	Viscosity and thermal conductivity measurements of water-based nanofluids containing titanium oxide nanoparticles. *International Journal of Refrigeration*, **2012**, 35, 1359-1366	3.8	189
84	Viscosity of water based SWCNH and TiO2 nanofluids. *Experimental Thermal and Fluid Science*, **2012**, 36, 65-71	3	142
83	Experimental stability analysis of different water-based nanofluids. *Nanoscale Research Letters*, **2011**, 6, 300	5	138
82	Nano-PCMs for enhanced energy storage and passive cooling applications. *Applied Thermal Engineering*, **2017**, 110, 584-589	5.8	132
81	Adoption of nanofluids in low-enthalpy parabolic trough solar collectors: Numerical simulation of the yearly yield. *Energy Conversion and Management*, **2016**, 118, 306-319	10.6	82
80	Low GWP halocarbon refrigerants: A review of thermophysical properties. *International Journal of Refrigeration*, **2018**, 90, 181-201	3.8	74
79	Influence of nanoparticles dispersion in POE oils on lubricity and R134a solubility. *International Journal of Refrigeration*, **2010**, 33, 1180-1186	3.8	63
78	Heat Transfer Capability of (Ethylene Glycol + Water)-Based Nanofluids Containing Graphene Nanoplatelets: Design and Thermophysical Profile. *Nanoscale Research Letters*, **2017**, 12, 53	5	54
77	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	2.8	51
76	Investigation of a single wall carbon nanohorn-based nanofluid in a full-scale direct absorption parabolic trough solar collector. *Energy Conversion and Management*, **2017**, 150, 693-703	10.6	45
75	Water-Based Fe2O3 Nanofluid Characterization: Thermal Conductivity and Viscosity Measurements and Correlation. *Advances in Mechanical Engineering*, **2012**, 4, 674947	1.2	45
74	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	2.8	44
73	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	2.8	43
72	Effect of solvent on nanolime transport within limestone: How to improve in-depth deposition. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 497, 171-181	5.1	41
71	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	40
70	Compressed Liquid Density Measurements for 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf). *Journal of Chemical & Engineering Data*, **2012**, 57, 482-489	2.8	39
69	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. *Fluid Phase Equilibria*, **2000**, 174, 3-12	2.5	37

68	PEG 400-Based Phase Change Materials Nano-Enhanced with Functionalized Graphene Nanoplatelets. *Nanomaterials*, **2017**, 8,	5.4	36
67	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	3.8	36
66	Transport properties and heat transfer coefficients of ZnO/(ethylene glycol + water) nanofluids. *International Journal of Heat and Mass Transfer*, **2015**, 89, 433-443	4.9	34
65	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	34
64	Solubility of carbon dioxide in 2-methylbutyric, 2-methylvaleric and 2-methylhexanoic ester oils. *Fluid Phase Equilibria*, **2007**, 256, 81-85	2.5	33
63	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	32
62	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	3.8	32
61	Hydrogen-bonding of HFCs with dimethyl ether: evaluation by isothermal VLE measurements. *Fluid Phase Equilibria*, **2002**, 199, 153-160	2.5	32
60	Development of paraffinic phase change material nanoemulsions for thermal energy storage and transport in low-temperature applications. *Applied Thermal Engineering*, **2019**, 159, 113868	5.8	29
59	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	2.8	26
58	VLE measurements and modeling for the strongly positive azeotropic R32+propane system. *Fluid Phase Equilibria*, **2002**, 199, 175-183	2.5	26
57	Matrix-assisted laser desorption/ionization mass spectrometry for monitoring bacterial protein digestion in yogurt production. *Journal of Mass Spectrometry*, **1999**, 34, 1338-45	2.2	25
56	Laminar mixed convection of TiO 2 □water nanofluid in horizontal uniformly heated pipe flow. *International Journal of Thermal Sciences*, **2015**, 97, 26-40	4.1	24
55	A preliminary investigation on nanohorn toxicity in marine mussels and polychaetes. *Science of the Total Environment*, **2014**, 468-469, 111-9	10.2	23
54	Nano-encapsulated PCM emulsions prepared by a solvent-assisted method for solar applications. *Solar Energy Materials and Solar Cells*, **2019**, 194, 268-275	6.4	23
53	Solubility Measurements and Data Correlation of Carbon Dioxide in Pentaerythritol Tetrahexanoate (PEC6). *Journal of Chemical & Engineering Data*, **2008**, 53, 2581-2585	2.8	21
52	Nano-Phase Change Materials for Electronics Cooling Applications. *Journal of Heat Transfer*, **2017**, 139,	1.8	20
51	Saturated Pressure Measurements of trans-1-Chloro-3,3,3-trifluoroprop-1-ene (R1233zd(E)). *Journal of Chemical & Engineering Data*, **2017**, 62, 2496-2500	2.8	20

50	Effect of external magnetic field on tribological properties of goethite (a-FeOOH) based nanofluids. *Tribology International*, **2018**, 127, 341-350	4.9	20
49	P-T Experimental Measurements and Data Correlation of Pentaerythritol Esters. *Journal of Chemical & Engineering Data*, **2007**, 52, 108-115	2.8	20
48	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
47	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. *Journal of Chemical & Engineering Data*, **2002**, 47, 839-842	2.8	20
46	NePCM Based on Silver Dispersions in Poly(Ethylene Glycol) as a Stable Solution for Thermal Storage. *Nanomaterials*, **2019**, 10,	5.4	20
45	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	9.3	18
44	Solubility of carbon dioxide in pentaerythritol tetraoctanoate. *Fluid Phase Equilibria*, **2009**, 277, 55-60	2.5	18
43	Dynamic Viscosity, Surface Tension and Wetting Behavior Studies of Paraffin-in-Water Nano-Emulsions. *Energies*, **2019**, 12, 3334	3.1	17
42	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	17
41	Isothermal VLE Measurements for Difluoromethane + Dimethyl Ether and an Evaluation of Hydrogen Bonding. *Journal of Chemical & Engineering Data*, **2005**, 50, 128-132	2.8	17
40	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	16
39	Experimental and Numerical Investigation on Forced Convection in Circular Tubes With Nanofluids. *Heat Transfer Engineering*, **2016**, 37, 1201-1210	1.7	16
38	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	16
37	Compressed Liquid Densities and Saturated Liquid Densities of Dimethyl Ether (RE170). *Journal of Chemical & Engineering Data*, **2005**, 50, 1667-1671	2.8	15
36	Vapor+Liquid Equilibrium Measurements and Correlation of the Binary Refrigerant Mixtures Difluoromethane (HFC-32)+1,1,1,2,3,3-Hexafluoropropane (HFC-236ea) and Pentafluoroethane (HFC-125)+1,1,1,2,3,3-Hexafluoropropane (HFC-236ea) at 288.6, 303.2, and 318.2 K. *International Journal of Thermophysics*, **2000**, 21, 781-791	2.1	14
35	Saturated pressure measurements of cis-pentafluoroprop-1-ene (R1225ye(Z)). *International Journal of Refrigeration*, **2016**, 69, 243-250	3.8	14
34	Compressed Liquid Density Measurements for 1,1,1,2,3,3,3-Heptafluoropropane (R227ea). *Journal of Chemical & Engineering Data*, **2007**, 52, 1955-1959	2.8	13
33	Vapor-Liquid Equilibrium for the Difluoromethane (R32) +n-Butane (R600) System. *Journal of Chemical & Engineering Data*, **2005**, 50, 44-48	2.8	13

32	Compressed liquid densities and saturated liquid densities of HFC-365mfc. *Fluid Phase Equilibria*, **2004**, 222-223, 291-296	2.5	13
31	Vapour–liquid equilibrium measurements and correlation for the pentafluoroethane (R125)+n-butane (R600) system. *Fluid Phase Equilibria*, **2005**, 227, 275-281	2.5	12
30	Characterization and Simulation of the Heat Transfer Behaviour of Water-Based ZnO Nanofluids. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 3599-609	1.3	11
29	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	11
28	Mutual solubility and VLLE correlation for the R32 + R290 system. *Fluid Phase Equilibria*, **2003**, 212, 245-255	2.5	11
27	Compressed Liquid Densities, Saturated Liquid Densities, and Vapor Pressures of Hexafluoro-1,3-butadiene (C4F6). *Journal of Chemical & Engineering Data*, **2002**, 47, 179-182	2.8	11
26	Tuning the thermal diffusivity of silver based nanofluids by controlling nanoparticle aggregation. *Nanotechnology*, **2013**, 24, 365601	3.4	10
25	Solubility Temperature Dependence and Data Correlation of Carbon Dioxide in Pentaerythritol Tetra-2-methylbutyrate. *Journal of Chemical & Engineering Data*, **2009**, 54, 3104-3107	2.8	10
24	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	2.8	9
23	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	2.8	9
22	Air velocity distribution analysis in the air duct of a display cabinet by PIV technique. *International Journal of Refrigeration*, **2012**, 35, 2321-2331	3.8	9
21	Nanofluids characterization and application as nanolubricants in heat pump systems. *Science and Technology for the Built Environment*, **2015**, 21, 621-630	1.8	8
20	A comparison of nanofluid thermal conductivity measurements by flash and hot disk techniques. *Journal of Physics: Conference Series*, **2014**, 547, 012046	0.3	8
19	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
18	Qualitative characterization of bacterial strains employed in the production of yogurt by matrix-assisted laser desorption/ionization mass spectrometry. *Journal of Mass Spectrometry*, **1999**, 34, 1385-8	2.2	8
17	Nano-PCMs for passive electronic cooling applications. *Journal of Physics: Conference Series*, **2015**, 655, 012030	0.3	7
16	VLLE measurements and correlation for the pentafluoroethane (R125) + n-butane (R600) system. *Fluid Phase Equilibria*, **2004**, 222-223, 283-289	2.5	7
15	VLLE measurements and their correlation for the R32 + R600 system. *Fluid Phase Equilibria*, **2003**, 210, 45-56	2.5	7

14	Experimental measurement of equilibrium vapour pressure of H2O/KCOOH (potassium formate) solution at high concentration. *International Journal of Refrigeration*, **2018**, 93, 176-183	3.8	6
13	Solubility Measurements and Data Correlation of Carbon Dioxide in Pentaerythritol Tetra(2-ethylbutanoate) (PEBE6). *Journal of Chemical & Engineering Data*, **2011**, 56, 62-64	2.8	6
12	Correction to New Measurements of the Apparent Thermal Conductivity of Nanofluids and Investigation of Their Heat Transfer Capabilities *Journal of Chemical & Engineering Data*, **2018**, 63, 4277-4279	2.8	4
11	Review on phase change material emulsions for advanced thermal management: Design, characterization and thermal performance. *Renewable and Sustainable Energy Reviews*, **2022**, 159, 112238	16.2	4
10	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	3.8	3
9	Temperature and Pressure Dependence of Branched Pentaerythritol Ester Density. *Journal of Chemical & Engineering Data*, **2008**, 53, 1779-1784	2.8	3
8	Analysis of the Parameters Required to Properly Define Nanofluids for Heat Transfer Applications. *Fluids*, **2021**, 6, 65	1.6	3
7	Nano-PCMs for Electronics Cooling Applications **2016**,		2
6	Investigation of Nanofluids Circulating in a Volumetric Solar Receiver. *Journal of Thermal Science and Engineering Applications*, **2021**, 13,	1.9	2
5	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	2.8	1
4	Numerical analyses and tests for optimized and enhanced heat transfer solutions in DEMO. *Fusion Engineering and Design*, **2019**, 146, 2692-2697	1.7	1
3	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	1
2	Development and Thermophysical Profile of Cetyl Alcohol-in-Water Nanoemulsions for Thermal Management. *Fluids*, **2022**, 7, 11	1.6	1
1	Effect of Refrigerant Properties Estimation on the Prediction Capabilities of Well-Established Two-Phase Heat Transfer and Pressure Drop Models for New Refrigerants. *Journal of Physics: Conference Series*, **2020**, 1599, 012054	0.3	