Joseph W Magee

List of Publications by Citations

63 papers	4,671 citations	25 h-index	65 g-index
65 ext. papers	4,981 ext. citations	3.7 avg, IF	5.1 L-index

#	Paper	IF	Citations
63	The distillation and volatility of ionic liquids. *Nature*, **2006**, 439, 831-4	50.4	1732
62	Electrolytic conductivity of four imidazolium-based room-temperature ionic liquids and the effect of a water impurity. *Journal of Chemical Thermodynamics*, **2005**, 37, 569-575	2.9	272
61	Volatility of Aprotic Ionic Liquids A Review. *Journal of Chemical & Engineering Data*, **2010**, 55, 3-12	2.8	259
60	The effect of dissolved water on the viscosities of hydrophobic room-temperature ionic liquids. *Chemical Communications*, **2005**, 1610-2	5.8	253
59	Density, Viscosity, Speed of Sound, and Electrolytic Conductivity for the Ionic Liquid 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide and Its Mixtures with Water. *Journal of Chemical & Engineering Data*, **2007**, 52, 2331-2338	2.8	201
58	Thermodynamic Properties of 1-Butyl-3-methylimidazolium Hexafluorophosphate in the Condensed State. *Journal of Chemical & Engineering Data*, **2004**, 49, 453-461	2.8	198
57	Thermodynamic Properties of 1-Butyl-3-methylimidazolium Hexafluorophosphate in the Ideal Gas State. *Journal of Chemical & Engineering Data*, **2003**, 48, 457-462	2.8	196
56	Improvement of Quality in Publication of Experimental Thermophysical Property Data: Challenges, Assessment Tools, Global Implementation, and Online Support. *Journal of Chemical & Engineering Data*, **2013**, 58, 2699-2716	2.8	187
55	ILThermo: A Free-Access Web Database for Thermodynamic Properties of Ionic Liquids *Journal of Chemical & Engineering Data*, **2007**, 52, 1151-1159	2.8	148
54	Thermodynamic and thermophysical properties of the reference ionic liquid: 1-Hexyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]amide (including mixtures). Part 1. Experimental methods and results (IUPAC Technical Report). *Pure and Applied Chemistry*, **2009**, 81, 781-790	2.1	104
53	Quality Assessment Algorithm for Vapor liquid Equilibrium Data. *Journal of Chemical & Engineering Data*, **2010**, 55, 3631-3640	2.8	102
52	Thermodynamic and thermophysical properties of the reference ionic liquid: 1-Hexyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]amide (including mixtures). Part 2. Critical evaluation and recommended property values (IUPAC Technical Report). *Pure and Applied Chemistry*, **2009**, 81, 791-828	2.1	101
51	Enthalpy of Solution of 1-Octyl-3-methylimidazolium Tetrafluoroborate in Water and in Aqueous Sodium Fluoride. *Journal of Chemical & Engineering Data*, **2005**, 50, 1484-1491	2.8	66
50	Relative volatilities of ionic liquids by vacuum distillation of mixtures. *Journal of Physical Chemistry B*, **2007**, 111, 8959-64	3.4	48
49	Isochoric (p, v, T) measurements on CO2 and (0.98 CO2+0.02 CH4) from 225 to 400 K and pressures to 35 MPa. *International Journal of Thermophysics*, **1988**, 9, 547-557	2.1	40
48	Isochoric heat capacity measurements for a CO2 + n-decane mixture in the near-critical and supercritical regions. *Journal of Supercritical Fluids*, **2005**, 33, 209-222	4.2	39
47	Isochoricp-?-T measurements on Difluoromethane (R32) from 142 to 396 K and pentafluoroethane (R125) from 178 to 398 K at pressures to 35 MPa. *International Journal of Thermophysics*, **1996**, 17, 803-822	2.1	39

46	Specific Heat Capacity at Constant Volume for Water, Methanol, and Their Mixtures at Temperatures from 300 K to 400 K and Pressures to 20 MPa *Journal of Chemical & Engineering Data*, **2001**, 46, 1101-1106	2.8	34
45	Liquid Viscosity and Surface Tension of -Hexane, -Octane, -Decane, and -Hexadecane up to 573 K by Surface Light Scattering (SLS). *Journal of Chemical & Engineering Data*, **2020**, 64,	2.8	32
44	Isochoric Heat Capacity for Toluene near Phase Transitions and the Critical Point *Journal of Chemical & Engineering Data*, **2001**, 46, 1064-1071	2.8	32
43	Algorithmic Framework for Quality Assessment of Phase Equilibrium Data. *Journal of Chemical & Engineering Data*, **2014**, 59, 2283-2293	2.8	27
42	ThermoData Engine (TDE) software implementation of the dynamic data evaluation concept. 7. Ternary mixtures. *Journal of Chemical Information and Modeling*, **2012**, 52, 260-76	6.1	26
41	PVTx measurements for H2O+D2O mixtures in the near-critical and supercritical regions. *Journal of Supercritical Fluids*, **2003**, 26, 115-128	4.2	26
40	PVTx Measurements for Water + Toluene Mixtures in the Near-Critical and Supercritical Regions. *Journal of Chemical & Engineering Data*, **2001**, 46, 1610-1618	2.8	26
39	ThermoData Engine (TDE): software implementation of the dynamic data evaluation concept. 8. Properties of material streams and solvent design. *Journal of Chemical Information and Modeling*, **2013**, 53, 249-66	6.1	25
38	A new method for evaluation of UNIFAC interaction parameters. *Fluid Phase Equilibria*, **2011**, 309, 68-75	2.5	25
37	ThermoData Engine (TDE): software implementation of the dynamic data evaluation concept. 5. Experiment planning and product design. *Journal of Chemical Information and Modeling*, **2011**, 51, 181-94	6.1	25
36	New global communication process in thermodynamics: impact on quality of published experimental data. *Journal of Chemical Information and Modeling*, **2006**, 46, 2487-93	6.1	24
35	Saturated and compressed liquid heat capacity at constant volume for 1-hexyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]imide). *Physics and Chemistry of Liquids*, **2014**, 52, 657-679	1.5	23
34	ThermoData Engine (TDE): software implementation of the dynamic data evaluation concept. 9. Extensible thermodynamic constraints for pure compounds and new model developments. *Journal of Chemical Information and Modeling*, **2013**, 53, 3418-30	6.1	23
33	Measurements of molar heat capacity at constant volume: CV, m{xCH4 + (1 x)C2H6, T = 100 to 320 K, p ? 35 MPa}. *Journal of Chemical Thermodynamics*, **1989**, 21, 499-513	2.9	23
32	Measurements of molar heat capacity at constant volume (Cv) for 1,1,1,2-tetrafluoroethane (R134a). *International Journal of Refrigeration*, **1992**, 15, 372-380	3.8	21
31	PVT Measurements for Toluene in the Near-Critical and Supercritical Regions *Journal of Chemical & Engineering Data*, **2001**, 46, 1089-1094	2.8	18
30	Isochoric (p, T) Measurements for Liquid Toluene from 180 K to 400 K at Pressures to 35 MPa *Journal of Chemical & Engineering Data*, **1996**, 41, 900-905	2.8	18
29	Thermodynamic Properties at Saturation Derived from Experimental Two-Phase Isochoric Heat Capacity of 1-Hexyl-3-methylimidazolium Bis[(trifluoromethyl)sulfonyl]imide. *International Journal of Thermophysics*, **2016**, 37, 1	2.1	17

28	NIST/TRC SOURCE Data Archival System: The Next-Generation Data Model for Storage of Thermophysical Properties. *International Journal of Thermophysics*, **2012**, 33, 22-33	2.1	17
27	Isochoric Heat Capacities of Alkanols and Their Aqueous Mixtures *Journal of Chemical & Engineering Data*, **2003**, 48, 1583-1586	2.8	17
26	High-Temperature Adiabatic Calorimeter for Constant-Volume Heat Capacity Measurements of Compressed Gases and Liquids. *Journal of Research of the National Institute of Standards and Technology*, **1998**, 103, 63-75	1.3	17
25	Specific Heat Capacity at Constant Volume for {xNH3 + (1 x)H2O} at Temperatures from 300 to 520 K and Pressures to 20 MPa. *Journal of Chemical & Engineering Data*, **1998**, 43, 1082-1090	2.8	16
24	Isochoric pT and Heat Capacity Cv Measurements on {xC3H8 + (1 x)i-C4H10, x 0.7, 0.3} from 200 to 400 K at Pressures to 35 MPa. *Journal of Chemical & Engineering Data*, **1999**, 44, 1048-1054	2.8	16
23	ThermoData Engine (TDE): software implementation of the dynamic data evaluation concept. 6. Dynamic web-based data dissemination through the NIST Web Thermo Tables. *Journal of Chemical Information and Modeling*, **2011**, 51, 1506-12	6.1	15
22	110th Anniversary: Properties of Imidazolium-Based Ionic Liquids Bearing Both Benzylic and n-Alkyl Substituents. *Industrial & Engineering Chemistry Research*, **2019**, 58, 17956-17964	3.9	12
21	Molar Heat Capacity at Constant Volume of Trifluoromethane (R23) from the Triple-Point Temperature to 342 K at Pressures to 33 MPa. *International Journal of Thermophysics*, **2000**, 21, 1351-1372	2.1	12
20	Thermodynamic Properties of Propane. II. Molar Heat Capacity at Constant Volume from (85 to 345) K with Pressures to 35 MPa. *Journal of Chemical & Engineering Data*, **2009**, 54, 3192-3201	2.8	11
19	Subatmospheric vapor pressures evaluated from internal-energy measurements. *International Journal of Thermophysics*, **1997**, 18, 173-193	2.1	11
18	Molar Heat Capacity at Constant Volume for Isobutane at Temperatures from (114 to 345) K and at Pressures to 35 MPa *Journal of Chemical & Engineering Data*, **2009**, 54, 2646-2655	2.8	10
17	Validation of thermophysical data for scientific and engineering applications. *Journal of Chemical Thermodynamics*, **2019**, 133, 208-222	2.9	9
16	Molar Heat Capacity at Constant Volume for [xCO2 + (1 - x)C2H6] from 220 to 340 K at Pressures to 35 MPa. *Journal of Chemical & Engineering Data*, **1995**, 40, 438-442	2.8	9
15	Establishing benchmarks for the first industrial fluids simulation challenge. *Fluid Phase Equilibria*, **2004**, 217, 11-15	2.5	7
14	Isochoric pT Measurements on {(x)CO2 + (1 x)C2H6, x 0.25, 0.49, 0.74} from (220 to 400) K at Pressures to 35 MPa *Journal of Chemical & Engineering Data*, **2001**, 46, 1095-1100	2.8	7
13	Isochoric p-T Measurements on 1,1-Difluoroethane (R152a) from 158 to 400 K and 1,1,1-Trifluoroethane (R143a) from 166 to 400 K at Pressures to 35 MPa. *International Journal of Thermophysics*, **1998**, 19, 1381-1395	2.1	6
12	Isochoric Heat Capacity Measurements for 2,2-Dichloro-1,1,1-Trifluoroethane (R123) at Temperatures from 167 to 341 K and 1-Chloro-1,2,2,2-Tetrafluoroethane (R124) from 94 to 341 K at Pressures to 35 MPa. *International Journal of Thermophysics*, **2000**, 21, 1303-1320	2.1	6
11	Subatmospheric Vapor Pressures for Fluoromethane (R41), 1,1-Difluoroethane (R152a), and 1,1,1-Trifluoroethane (R143a) Evaluated from Internal-Energy Measurements. *International Journal of Thermophysics*, **1999**, 20, 1467-1481	2.1	6

10	Influence of nanofluid instability on thermodynamic properties near the critical point. *Journal of Chemical Thermodynamics*, **2019**, 133, 46-59	2.9	6
9	Specific Heat Capacity at Constant Volume for R125 and R410A at Temperatures from (300 to 400) K and Pressures to 20 MPa. *Journal of Chemical & Engineering Data*, **2005**, 50, 1727-1731	2.8	5
8	Isochoric p□ Measurements for 2,2-Dichloro-1,1,1-Trifluoroethane (R123) at Temperatures from 176 to 380 K and 1-Chloro-1,2,2,2-Tetrafluoroethane (R124) from 104 to 400 K at Pressures to 35 MPa. *International Journal of Thermophysics*, **2000**, 21, 1291-1301	2.1	5
7	Forum 2000: Fluid Properties for New Technologies, Connecting Virtual Design with Physical Reality. *Journal of Chemical & Engineering Data*, **2001**, 46, 1002-1006	2.8	5
6	Heat Capacity of Saturated and Compressed Liquid Dimethyl Ether at Temperatures from (132 to 345) K and at Pressures to 35 MPa. *Journal of Chemical & Engineering Data*, **2018**, 63, 1713-1723	2.8	4
5	Isochoric heat capacity of near- and supercritical benzene and derived thermodynamic properties. *Journal of Molecular Liquids*, **2020**, 313, 113204	6	3
4	One- and two-phase isochoric heat capacities and saturated densities of 2-propanol in the critical and supercritical regions. *Journal of Chemical Thermodynamics*, **2019**, 135, 155-174	2.9	2
3	Reply to Comments by J. Wisniak on J. Chem. Eng. Data2010, 55, 3631□3640. *Journal of Chemical & Engineering Data*, **2010**, 55, 5395-5395	2.8	2
2	Papers Presented at the Workshop on Ionic Liquids, ICCT, Rostock, Germany, July 28 to August 2, 2002. *Journal of Chemical & Engineering Data*, **2003**, 48, 445-445	2.8	2
1	Physical Property Measurements and a Comprehensive Data Retrieval System for Ionic Liquids. *ACS Symposium Series*, **2005**, 160-174	0.4	2