Kenneth R. Harris

List of Publications by Year in Descending Order

104 papers	4,575 citations	39 h-index	65 g-index
116 ext. papers	4,941 ext. citations	3.6 avg, IF	6.02 L-index

#	Paper	IF	Citations
104	Thermodynamic or density scaling of the electrical conductivity of molten salts.. *Journal of Chemical Physics*, **2022**, 156, 054501	3.9	
103	Effect of Pressure on the Transport Properties of 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide and 1-Hexyl-3-methylimidazolium Tetrafluoroborate. *Journal of Molecular Liquids*, **2022**, 119109	6	1
102	Electrolytes for Lithium (Sodium) Batteries Based on Ionic Liquids: Highlighting the Key Role Played by the Anion. *Batteries and Supercaps*, **2020**, 3, 793-827	5.6	23
101	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquid 1-Butyl-3-methylimidazolium Acetate. *Journal of Chemical & Engineering Data*, **2020**, 65, 804-813	2.8	10
100	Comments on "preparation and transport properties of novel lithium ionic liquids [electrochim. Acta 50 (2004) 15]" and "on transport properties of lithium ionic liquids and their ion gels. [Electrochim. acta 50 (2005) 3872–3877]". *Electrochimica Acta*, **2020**, 337, 135806	6.7	3
99	Thermodynamic or density scaling of the thermal conductivity of liquids. *Journal of Chemical Physics* , **2020**, 153, 104504	3.9	6
98	On the Use of the Angell-Walden Equation To Determine the "Ionicity" of Molten Salts and Ionic Liquids. *Journal of Physical Chemistry B*, **2019**, 123, 7014-7023	3.4	36
97	Possible Proton Conduction Mechanism in Pseudo-Protic Ionic Liquids: A Concept of Specific Proton Conduction. *Journal of Physical Chemistry B*, **2019**, 123, 6244-6252	3.4	24
96	H-Bonding in 2,2,2-Trifluoroethanol: Application of the Stokes–Einstein–Sutherland Equation to Self-Diffusion and Viscosity at High Pressures. *Journal of Chemical & Engineering Data*, **2018**, 63, 1443-1453	2.8	1
95	Temperature and Density Dependence of the Transport Properties of the Ionic Liquid Triethylpentylphosphonium Bis(trifluoromethanesulfonyl)amide, [P222,5][Tf2N]. *Journal of Chemical & Engineering Data*, **2018**, 63, 2015-2027	2.8	18
94	Comment on "Negative effective Li transference numbers in Li salt/ionic liquid mixtures: does Li drift in the "Wrong" direction?" by M. Gouverneur, F. Schmidt and M. Schönhoff, Phys. Chem. Chem. Phys., 2018, 20, 7470. *Physical Chemistry Chemical Physics*, **2018**, 20, 30041-30045	3.6	11
93	Comment on "Ionic Conductivity, Diffusion Coefficients, and Degree of Dissociation in Lithium Electrolytes, Ionic Liquids, and Hydrogel Polyelectrolytes". *Journal of Physical Chemistry B*, **2018**, 122, 10964-10967	3.4	9
92	The importance of transport property studies for battery electrolytes: revisiting the transport properties of lithium-N-methyl-N-propylpyrrolidinium bis(fluorosulfonyl)imide mixtures. *Physical Chemistry Chemical Physics*, **2017**, 19, 10527-10542	3.6	15
91	Can the Transport Properties of Molten Salts and Ionic Liquids Be Used To Determine Ion Association?. *Journal of Physical Chemistry B*, **2016**, 120, 12135-12147	3.4	46
90	Correction to "Temperature and Pressure Dependence of the Viscosities of Krytox GPL102 Oil and Di(pentaerythritol) Hexa(isononanoate)". *Journal of Chemical & Engineering Data*, **2016**, 61, 1682-1683	2.8	1
89	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids. *Journal of Chemical & Engineering Data*, **2016**, 61, 2399-2411	2.8	69
88	Revised and Extended Values for Self-Diffusion Coefficients of 1-Alkyl-3-methylimidazolium Tetrafluoroborates and Hexafluorophosphates: Relations between the Transport Properties. *Journal of Physical Chemistry B*, **2016**, 120, 12937-12949	3.4	31

87	Scaling the transport properties of molecular and ionic liquids. *Journal of Molecular Liquids*, **2016**, 222, 520-534	6	26
86	Viscous Calibration Liquids for Self-Diffusion Measurements. *Journal of Chemical & Engineering Data*, **2015**, 60, 3506-3517	2.8	17
85	Nucleation in complex multi-component and multi-phase systems: general discussion. *Faraday Discussions*, **2015**, 179, 503-42	3.6	1
84	Density of 1-Butyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)amide and 1-Hexyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)amide over an Extended Pressure Range up to 250 MPa. *Journal of Chemical & Engineering Data*, **2015**, 60, 1408-1418	2.8	46
83	Temperature and Pressure Dependence of the Electrical Conductivity of 1-Butyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)amide. *Journal of Chemical & Engineering Data*, **2015**, 60, 1495-1503	2.8	25
82	Temperature and Pressure Dependence of the Viscosities of Krytox GPL102 Oil and Di(pentaerythritol) Hexa(isononanoate). *Journal of Chemical & Engineering Data*, **2015**, 60, 1510-1519	2.8	18
81	Self-diffusion, velocity cross-correlation, distinct diffusion and resistance coefficients of the ionic liquid [BMIM][Tf2N] at high pressure. *Physical Chemistry Chemical Physics*, **2015**, 17, 23977-93	3.6	57
80	Viscosity measurements for squalane at high pressures to 350MPa from T=(293.15 to 363.15)K. *Journal of Chemical Thermodynamics*, **2014**, 69, 201-208	2.9	44
79	Reference Correlations for the Density and Viscosity of Squalane from 273 to 473 K at Pressures to 200 MPa. *Journal of Physical and Chemical Reference Data*, **2014**, 43, 013104	4.3	32
78	Viscosity scaling of the self-diffusion and velocity cross-correlation coefficients of two functionalised ionic liquids and of their non-functionalized analogues. *Physical Chemistry Chemical Physics*, **2014**, 16, 9161-70	3.6	25
77	Reference Correlation of the Viscosity of Squalane from 273 to 373 K at 0.1 MPa. *Journal of Physical and Chemical Reference Data*, **2013**, 42, 033101	4.3	34
76	Transport, electrochemical and thermophysical properties of two N-donor-functionalised ionic liquids. *Chemistry - A European Journal*, **2013**, 19, 17733-44	4.8	31
75	On the density scaling of pVT data and transport properties for molecular and ionic liquids. *Journal of Chemical Physics*, **2012**, 136, 214502	3.9	15
74	High pressure studies of the transport properties of ionic liquids. *Faraday Discussions*, **2012**, 154, 425-38; discussion 439-64, 465-71	3.6	51
73	Density scaling of the transport properties of molecular and ionic liquids. *Journal of Chemical Physics*, **2011**, 134, 144507	3.9	85
72	Transport Properties of N-Butyl-N-methylpyrrolidinium Bis(trifluoromethylsulfonyl)amide. *Journal of Chemical & Engineering Data*, **2011**, 56, 4672-4685	2.8	82
71	Communications: The fractional Stokes-Einstein equation: application to water. *Journal of Chemical Physics*, **2010**, 132, 231103	3.9	19
70	Relations between the fractional Stokes-Einstein and Nernst-Einstein equations and velocity correlation coefficients in ionic liquids and molten salts. *Journal of Physical Chemistry B*, **2010**, 114, 9572-7	3.4	147

69	A lattice-hole theory for conductivity in ionic liquid mixtures: application to ionic liquid + water mixtures. *Physical Chemistry Chemical Physics*, **2010**, 12, 1172-6	3.6	22
68	Temperature and Pressure Dependence of the Viscosities of 2-Ethylhexyl Benzoate, Bis(2-ethylhexyl) Phthalate, 2,6,10,15,19,23-Hexamethyltetracosane (Squalane), and Diisodecyl Phthalate. *Journal of Chemical & Engineering Data*, **2009**, 54, 2729-2738	2.8	73
67	Viscosity of Water + tert-Butyl Alcohol (2-Methyl-2-propanol) Mixtures at Low Temperatures and High Pressure *Journal of Chemical & Engineering Data*, **2009**, 54, 581-588	2.8	11
66	The fractional Stokes-Einstein equation: application to Lennard-Jones, molecular, and ionic liquids. *Journal of Chemical Physics*, **2009**, 131, 054503	3.9	116
65	An Industrial Reference Fluid for Moderately High Viscosity. *Journal of Chemical & Engineering Data*, **2008**, 53, 2003-2011	2.8	41
64	Effect of pressure on the transport properties of ionic liquids: 1-alkyl-3-methylimidazolium salts. *Journal of Physical Chemistry B*, **2008**, 112, 9830-40	3.4	72
63	Effect of pressure on transport properties of the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. *Journal of Physical Chemistry B*, **2007**, 111, 2062-9	3.4	122
62	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) °C and at Pressures to 1 GPa. *Journal of Chemical & Engineering Data*, **2007**, 52, 272-278	2.8	57
61	Temperature and pressure dependence of the electrical conductivity of the ionic liquids 1-methyl-3-octylimidazolium hexafluorophosphate and 1-methyl-3-octylimidazolium tetrafluoroborate. *Fluid Phase Equilibria*, **2007**, 261, 414-420	2.5	60
60	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquids 1-Hexyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. *Journal of Chemical & Engineering Data*, **2007**, 52, 1080-1085	2.8	282
59	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate: Viscosity and Density Relationships in Ionic Liquids. *Journal of Chemical & Engineering Data*, **2007**, 52, 2425-2430	2.8	191
58	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquids 1-Methyl-3-octylimidazolium Hexafluorophosphate and 1-Methyl-3-octylimidazolium Tetrafluoroborate. *Journal of Chemical & Engineering Data*, **2006**, 51, 1161-1167	2.8	210
57	Measurement of the Viscosity and Density of a Reference Fluid, with Nominal Viscosity atT= 298 K andp= 0.1 MPa of 29 mPa s, at Temperatures between (273 and 423) K and Pressures below 275 MPa. *Journal of Chemical & Engineering Data*, **2006**, 51, 2185-2196	2.8	30
56	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquid 1-Butyl-3-methylimidazolium Hexafluorophosphate. *Journal of Chemical & Engineering Data*, **2005**, 50, 1777-1782	2.8	266
55	Reference Correlation for the Viscosity of Liquid Cyclopentane from 220 to 310 K at Pressures to 25 MPa. *International Journal of Thermophysics*, **2004**, 25, 13-20	2.1	10
54	Temperature and Volume Dependence of the Viscosity of Water and Heavy Water at Low Temperatures. *Journal of Chemical & Engineering Data*, **2004**, 49, 1064-1069	2.8	117
53	Temperature and Density Dependence of the Viscosity of Cyclopentane. *Journal of Chemical & Engineering Data*, **2004**, 49, 138-142	2.8	21
52	Comment on Self-diffusion near the liquid–vapor critical point [J. Chem. Phys. 114, 4912 (2001)]. *Journal of Chemical Physics*, **2002**, 116, 6379-6380	3.9	9

51	Isotope effects and the thermal offset effect for diffusion and viscosity coefficients of liquid water. *Physical Chemistry Chemical Physics*, **2002**, 4, 5841-5845	3.6	13
50	Reference Correlation for the Viscosity of Liquid Toluene from 213 to 373 K at Pressures to 250 MPa. *International Journal of Thermophysics*, **2001**, 22, 789-799	2.1	75
49	Temperature and Density Dependence of the Viscosity of Toluene. *Journal of Chemical & Engineering Data*, **2000**, 45, 893-897	2.8	60
48	Diffusion and Structure in Aqueous Amphiphile Mixtures: Water–Acetonitrile. *Journal of Physical Chemistry B*, **1999**, 103, 7015-7018	3.4	19
47	Diffusion and Structure in Water–Alcohol Mixtures: Water + tert-Butyl Alcohol (2-Methyl-2-Propanol). *Journal of Physical Chemistry A*, **1999**, 103, 6508-6513	2.8	40
46	Diffusion and Structure in Dilute Aqueous Alcohol Solutions: Evidence for the Effects of Large Apolar Solutes on Water. *Journal of Physical Chemistry B*, **1998**, 102, 8874-8879	3.4	38
45	Alcohol tracer diffusion, density, NMR and FTIR studies of aqueous ethanol and 2,2,2-trifluoroethanol solutions at 25°C. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 1963-1970		74
44	Thermodynamic property measurements for 2-methyl-2-propanol + water from the freezing surface to 75 °C. *High Temperatures - High Pressures*, **1998**, 30, 51-62	1.3	8
43	Temperature and Density Dependence of the Viscosity of Octane and Toluene. *Journal of Chemical & Engineering Data*, **1997**, 42, 1254-1260	2.8	61
42	Self-Diffusion of Water at Low Temperatures and High Pressure. *Journal of Chemical & Engineering Data*, **1997**, 42, 346-348	2.8	59
41	On the Correlation of Tracer Diffusion Coefficients. *Journal of Chemical & Engineering Data*, **1996**, 41, 891-894	2.8	2
40	Correlation of dense fluid self-diffusion, shear viscosity, and thermal conductivity coefficients. *International Journal of Thermophysics*, **1995**, 16-16, 155-165	2.1	2
39	Mutual-diffusion coefficients and viscosities for the water–2-methylpropan-2-ol system at 15 and 25 °C. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 4071-4077		13
38	Mutual diffusion coefficients for the system benzene-cyclohexene at 25 °C. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1994**, 98, 560-562		2
37	Temperature and density dependence of the selfdiffusion coefficients of liquid n-octane and toluene. *Molecular Physics*, **1993**, 78, 235-248	1.7	58
36	Mutual diffusion coefficients for the systems water–ethanol and water–propan-1-ol at 25 °C. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 1969-1974		33
35	Determination of Potential Functions for Unlike Interactions from Transport Properties of Dilute Gases. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1993**, 97, 1061-1068		1
34	The temperature and density dependence of the self-diffusion coefficient of n-hexadecane. *Molecular Physics*, **1992**, 75, 461-466	1.7	43

33	The selfdiffusion coefficient and viscosity of the hard sphere fluid revisited: a comparison with experimental data for xenon, methane, ethene and trichloromethane. *Molecular Physics*, **1992**, 77, 1153-1167	1.7	31
32	On the use of the Edgeworth-Cram series to obtain diffusion coefficients from taylor dispersion peaks. *Journal of Solution Chemistry*, **1991**, 20, 595-606	1.8	13
31	Intradiffusion coefficients for zinc and water and shear viscosities in aqueous zinc(II) perchlorate solutions at 25.degree.. *The Journal of Physical Chemistry*, **1990**, 94, 5109-5114		13
30	The temperature and density dependences of the self-diffusion coefficient and the shear viscosity of liquid trichloromethane. *Molecular Physics*, **1990**, 71, 1205-1221	1.7	37
29	Association of caffeine in aqueous solution. Effects on caffeine intradiffusion. *Journal of the Chemical Society Faraday Transactions I*, **1989**, 85, 3281		31
28	Diffusion and thermal diffusion in some dilute binary gaseous systems between 195 and 400 K: Tests of several asymmetric potentials using the infinite order sudden approximation. *Physica A: Statistical Mechanics and Its Applications*, **1985**, 131, 506-519	3.3	46
27	Excess second virial coefficients for some dilute binary gas mixtures. *Australian Journal of Chemistry* , **1982**, 35, 1525	1.2	57
26	Excess and Interaction Second Virial Coefficients for Ten Binary Gaseous Systems Containing SF6. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1982**, 86, 626-627		22
25	Temperature and density dependence of the self-diffusion coefficient of n-hexane from 223 to 333 K and up to 400 MPa. *Journal of the Chemical Society Faraday Transactions I*, **1982**, 78, 2265		80
24	HartleyCrank equation and standard velocity correlation coefficients. *Journal of the Chemical Society Faraday Transactions I*, **1982**, 78, 957		5
23	The self-diffusion coefficient of sulphuric acid. *Journal of the Chemical Society Faraday Transactions I*, **1982**, 78, 1629		5
22	The density dependence of the self-diffusion coefficient of liquid methane. *Physica A: Statistical Mechanics and Its Applications*, **1980**, 104, 262-280	3.3	91
21	Pressure and temperature dependence of the self diffusion coefficient of water and oxygen-18 water. *Journal of the Chemical Society Faraday Transactions I*, **1980**, 76, 377		196
20	Rough hard spheres treatment of tracer diffusion of each component in two-component liquid systems. *Chemical Physics*, **1978**, 32, 349-352	2.3	9
19	An improved NMR spin-echo apparatus for the measurement of self-diffusion coefficients: The diffusion of water in aqueous electrolyte solutions. *Journal of Magnetic Resonance*, **1978**, 29, 473-482		10
18	The density dependence of the self-diffusion coefficient of methane at 0°, 25° and 50°C. *Physica A: Statistical Mechanics and Its Applications*, **1978**, 94, 448-464	3.3	69
17	The density dependence of the self-diffusion coefficient of chlorotrifluoromethane near the critical temperature. *Physica A: Statistical Mechanics and Its Applications*, **1978**, 93, 593-610	3.3	39
16	Velocity correlation coefficients as an expression of particleparticle interactions in (electrolyte) solutions. *Journal of the Chemical Society Faraday Transactions I*, **1978**, 74, 933		34

15	Isotopic mass effects in the diffusion of small light solutes in a solvent of larger and heavier molecules. *The Journal of Physical Chemistry*, **1977**, 81, 2191-2192		8
14	Velocity Correlations in Aqueous Electrolyte Solutions from Diffusion, Conductance, and Transference Data. Part 2, Applications to Concentrated Solutions of 1□1 Electrolytes. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1977**, 81, 664-670		29
13	The effect of isotopic substitution on diffusion in liquids. *Chemical Society Reviews*, **1976**, 5, 215	58.5	73
12	The pressure and composition dependence of mutual diffusion in the system helium-nitrogen at 300 K. *Chemical Physics Letters*, **1975**, 32, 561-565	2.5	8
11	A minimal volume gas sampling valve. *Journal of Physics E: Scientific Instruments*, **1973**, 6, 1177-1178		
10	Mutual Diffusion Coefficients for the Systems HD□N2 and HD□Ar at 1 atm Pressure and 300 K. *Canadian Journal of Physics*, **1973**, 51, 2101-2107	1.1	7
9	The Concentration Dependence at 1 atm Pressure and 300 °K of the Binary Diffusion Coefficients of the Systems Helium □Carbon Dioxide, Helium □Nitrous Oxide, and Helium □Sulfur Hexafluoride. *Canadian Journal of Chemistry*, **1972**, 50, 1874-1876	0.9	6
8	The Concentration Dependences of the Binary Diffusion Coefficients of the Systems H2□Ne, D2□Ne, H2□N2, D2□N2, H2□Ar, and D2□Ar at 1 Atm Pressure and 300 K. *Canadian Journal of Physics*, **1972**, 50, 1644-1647	1.1	14
7	Vapour pressures and excess Gibbs energies of mixtures of benzene with chlorobenzene, n-hexane, and n-heptane at 25°C. *Journal of Chemical Thermodynamics*, **1970**, 2, 805-811	2.9	42
6	Densities and excess volumes of mixtures of benzene with chlorobenzene, cyclohexene, n-hexane, n-heptane, and n-octane at 25°C. *Journal of Chemical Thermodynamics*, **1970**, 2, 813-819	2.9	34
5	Mutual and tracer diffusion coefficients and frictional coefficients for the systems benzene-chlorobenzene, benzene-n-hexane, and benzene-n-heptane at 25.deg.. *The Journal of Physical Chemistry*, **1970**, 74, 3518-3529		76
4	An apparatus for degassing liquids by vacuum sublimation. *The Journal of Physical Chemistry*, **1968**, 72, 4693-4695		61
3	Osmotic coefficient data for the system benzene-benzoic acid at 25.degree.. *The Journal of Physical Chemistry*, **1967**, 71, 483-486		9
2	CHAPTER 5:Thermal Conductivity and Diffusivity132-172		2
1	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquids 1-Hexyl-3-methylimidazolium Tetrafluoroborate and 1-Ethyl- and 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amides. *Journal of Chemical & Engineering Data*,	2.8	3