

Kenneth R. Harris

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104
papers

4,575
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h-index

65
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116
ext. papers

4,941
ext. citations

3.6
avg, IF

6.02
L-index

#	Paper	IF	Citations
104	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquids 1-Hexyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1080-1085	2.8	282
103	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquid 1-Butyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1777-1782	2.8	266
102	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquids 1-Methyl-3-octylimidazolium Hexafluorophosphate and 1-Methyl-3-octylimidazolium Tetrafluoroborate. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1161-1167	2.8	210
101	Pressure and temperature dependence of the self diffusion coefficient of water and oxygen-18 water. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1980 , 76, 377		196
100	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate: Viscosity and Density Relationships in Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2425-2430	2.8	191
99	Relations between the fractional Stokes-Einstein and Nernst-Einstein equations and velocity correlation coefficients in ionic liquids and molten salts. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9572-9574	3.4	147
98	Effect of pressure on transport properties of the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 2062-9	3.4	122
97	Temperature and Volume Dependence of the Viscosity of Water and Heavy Water at Low Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 1064-1069	2.8	117
96	The fractional Stokes-Einstein equation: application to Lennard-Jones, molecular, and ionic liquids. <i>Journal of Chemical Physics</i> , 2009 , 131, 054503	3.9	116
95	The density dependence of the self-diffusion coefficient of liquid methane. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1980 , 104, 262-280	3.3	91
94	Density scaling of the transport properties of molecular and ionic liquids. <i>Journal of Chemical Physics</i> , 2011 , 134, 144507	3.9	85
93	Transport Properties of N-Butyl-N-methylpyrrolidinium Bis(trifluoromethylsulfonyl)amide. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4672-4685	2.8	82
92	Temperature and density dependence of the self-diffusion coefficient of n-hexane from 223 to 333 K and up to 400 MPa. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1982 , 78, 2265		80
91	Mutual and tracer diffusion coefficients and frictional coefficients for the systems benzene-chlorobenzene, benzene-n-hexane, and benzene-n-heptane at 25.deg.. <i>The Journal of Physical Chemistry</i> , 1970 , 74, 3518-3529		76
90	Reference Correlation for the Viscosity of Liquid Toluene from 213 to 373 K at Pressures to 250 MPa. <i>International Journal of Thermophysics</i> , 2001 , 22, 789-799	2.1	75
89	Alcohol tracer diffusion, density, NMR and FTIR studies of aqueous ethanol and 2,2,2-trifluoroethanol solutions at 25°C. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 1963-1970		74
88	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. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2729-2738	2.8	73

87	The effect of isotopic substitution on diffusion in liquids. <i>Chemical Society Reviews</i> , 1976 , 5, 215	58.5	73
86	Effect of pressure on the transport properties of ionic liquids: 1-alkyl-3-methylimidazolium salts. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 9830-40	3.4	72
85	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2399-2411	2.8	69
84	The density dependence of the self-diffusion coefficient of methane at 80°, 25° and 50°C. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1978 , 94, 448-464	3.3	69
83	Temperature and Density Dependence of the Viscosity of Octane and Toluene. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 1254-1260	2.8	61
82	An apparatus for degassing liquids by vacuum sublimation. <i>The Journal of Physical Chemistry</i> , 1968 , 72, 4693-4695		61
81	Temperature and pressure dependence of the electrical conductivity of the ionic liquids 1-methyl-3-octylimidazolium hexafluorophosphate and 1-methyl-3-octylimidazolium tetrafluoroborate. <i>Fluid Phase Equilibria</i> , 2007 , 261, 414-420	2.5	60
80	Temperature and Density Dependence of the Viscosity of Toluene. <i>Journal of Chemical & Engineering Data</i> , 2000 , 45, 893-897	2.8	60
79	Self-Diffusion of Water at Low Temperatures and High Pressure. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 346-348	2.8	59
78	Temperature and density dependence of the selfdiffusion coefficients of liquid n-octane and toluene. <i>Molecular Physics</i> , 1993 , 78, 235-248	1.7	58
77	Self-diffusion, velocity cross-correlation, distinct diffusion and resistance coefficients of the ionic liquid [BMIM][Tf2N] at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23977-93	3.6	57
76	Temperature and Pressure Dependence of the Viscosity of Diisodecyl Phthalate at Temperatures between (0 and 100) °C and at Pressures to 1 GPa. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 272-278	2.8	57
75	Excess second virial coefficients for some dilute binary gas mixtures. <i>Australian Journal of Chemistry</i> , 1982 , 35, 1525	1.2	57
74	High pressure studies of the transport properties of ionic liquids. <i>Faraday Discussions</i> , 2012 , 154, 425-38; discussion 439-64, 465-71	3.6	51
73	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. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 1408-1418	2.8	46
72	Can the Transport Properties of Molten Salts and Ionic Liquids Be Used To Determine Ion Association?. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12135-12147	3.4	46
71	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. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1985 , 131, 506-519	3.3	46
70	Viscosity measurements for squalane at high pressures to 350MPa from T=(293.15 to 363.15)K. <i>Journal of Chemical Thermodynamics</i> , 2014 , 69, 201-208	2.9	44

69	The temperature and density dependence of the self-diffusion coefficient of n-hexadecane. <i>Molecular Physics</i> , 1992 , 75, 461-466	1.7	43
68	Vapour pressures and excess Gibbs energies of mixtures of benzene with chlorobenzene, n-hexane, and n-heptane at 25°C. <i>Journal of Chemical Thermodynamics</i> , 1970 , 2, 805-811	2.9	42
67	An Industrial Reference Fluid for Moderately High Viscosity. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2003-2011	2.8	41
66	Diffusion and Structure in Water/Alcohol Mixtures: Water + tert-Butyl Alcohol (2-Methyl-2-Propanol). <i>Journal of Physical Chemistry A</i> , 1999 , 103, 6508-6513	2.8	40
65	The density dependence of the self-diffusion coefficient of chlorotrifluoromethane near the critical temperature. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1978 , 93, 593-610	3.3	39
64	Diffusion and Structure in Dilute Aqueous Alcohol Solutions: Evidence for the Effects of Large Apolar Solutes on Water. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 8874-8879	3.4	38
63	The temperature and density dependences of the self-diffusion coefficient and the shear viscosity of liquid trichloromethane. <i>Molecular Physics</i> , 1990 , 71, 1205-1221	1.7	37
62	On the Use of the Angell-Walden Equation To Determine the "Ionicity" of Molten Salts and Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 7014-7023	3.4	36
61	Reference Correlation of the Viscosity of Squalane from 273 to 373 K at 0.1 MPa. <i>Journal of Physical and Chemical Reference Data</i> , 2013 , 42, 033101	4.3	34
60	Velocity correlation coefficients as an expression of particle-particle interactions in (electrolyte) solutions. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1978 , 74, 933		34
59	Densities and excess volumes of mixtures of benzene with chlorobenzene, cyclohexene, n-hexane, n-heptane, and n-octane at 25°C. <i>Journal of Chemical Thermodynamics</i> , 1970 , 2, 813-819	2.9	34
58	Mutual diffusion coefficients for the systems water/n-ethanol and water/propan-1-ol at 25 °C. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 1969-1974		33
57	Reference Correlations for the Density and Viscosity of Squalane from 273 to 473 K at Pressures to 200 MPa. <i>Journal of Physical and Chemical Reference Data</i> , 2014 , 43, 013104	4.3	32
56	Transport, electrochemical and thermophysical properties of two N-donor-functionalised ionic liquids. <i>Chemistry - A European Journal</i> , 2013 , 19, 17733-44	4.8	31
55	The self-diffusion coefficient and viscosity of the hard sphere fluid revisited: a comparison with experimental data for xenon, methane, ethene and trichloromethane. <i>Molecular Physics</i> , 1992 , 77, 1153-1167	1.7	31
54	Association of caffeine in aqueous solution. Effects on caffeine intradiffusion. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989 , 85, 3281		31
53	Revised and Extended Values for Self-Diffusion Coefficients of 1-Alkyl-3-methylimidazolium Tetrafluoroborates and Hexafluorophosphates: Relations between the Transport Properties. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12937-12949	3.4	31
52	Measurement of the Viscosity and Density of a Reference Fluid, with Nominal Viscosity at T= 298 K and p= 0.1 MPa of 29 mPa·s, at Temperatures between (273 and 423) K and Pressures below 275 MPa. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 2185-2196	2.8	30

51	Velocity Correlations in Aqueous Electrolyte Solutions from Diffusion, Conductance, and Transference Data. Part 2, Applications to Concentrated Solutions of 11 Electrolytes. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1977 , 81, 664-670		29
50	Scaling the transport properties of molecular and ionic liquids. <i>Journal of Molecular Liquids</i> , 2016 , 222, 520-534	6	26
49	Temperature and Pressure Dependence of the Electrical Conductivity of 1-Butyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)amide. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 1495-1503	2.8	25
48	Viscosity scaling of the self-diffusion and velocity cross-correlation coefficients of two functionalised ionic liquids and of their non-functionalized analogues. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9161-70	3.6	25
47	Possible Proton Conduction Mechanism in Pseudo-Protic Ionic Liquids: A Concept of Specific Proton Conduction. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6244-6252	3.4	24
46	Electrolytes for Lithium (Sodium) Batteries Based on Ionic Liquids: Highlighting the Key Role Played by the Anion. <i>Batteries and Supercaps</i> , 2020 , 3, 793-827	5.6	23
45	A lattice-hole theory for conductivity in ionic liquid mixtures: application to ionic liquid + water mixtures. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1172-6	3.6	22
44	Excess and Interaction Second Virial Coefficients for Ten Binary Gaseous Systems Containing SF ₆ . <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1982 , 86, 626-627		22
43	Temperature and Density Dependence of the Viscosity of Cyclopentane. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 138-142	2.8	21
42	Communications: The fractional Stokes-Einstein equation: application to water. <i>Journal of Chemical Physics</i> , 2010 , 132, 231103	3.9	19
41	Diffusion and Structure in Aqueous Amphiphile Mixtures: Water/Acetonitrile. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 7015-7018	3.4	19
40	Temperature and Pressure Dependence of the Viscosities of Krytox GPL102 Oil and Di(pentaerythritol) Hexa(isononanoate). <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 1510-1519 ⁸	2.8	18
39	Temperature and Density Dependence of the Transport Properties of the Ionic Liquid Triethylpentylphosphonium Bis(trifluoromethanesulfonyl)amide, [P222,5][Tf2N]. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 2015-2027	2.8	18
38	Viscous Calibration Liquids for Self-Diffusion Measurements. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 3506-3517	2.8	17
37	The importance of transport property studies for battery electrolytes: revisiting the transport properties of lithium-N-methyl-N-propylpyrrolidinium bis(fluorosulfonyl)imide mixtures. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10527-10542	3.6	15
36	On the density scaling of pVT data and transport properties for molecular and ionic liquids. <i>Journal of Chemical Physics</i> , 2012 , 136, 214502	3.9	15
35	The Concentration Dependences of the Binary Diffusion Coefficients of the Systems H ₂ Ne, D ₂ Ne, H ₂ N ₂ , D ₂ N ₂ , H ₂ Ar, and D ₂ Ar at 1 Atm Pressure and 300 K. <i>Canadian Journal of Physics</i> , 1972 , 50, 1644-1647	1.1	14
34	Isotope effects and the thermal offset effect for diffusion and viscosity coefficients of liquid water. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 5841-5845	3.6	13

33	Mutual-diffusion coefficients and viscosities for the water-methylpropan-2-ol system at 15 and 25 °C. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995 , 91, 4071-4077		13
32	On the use of the Edgeworth-Cramér series to obtain diffusion coefficients from Taylor dispersion peaks. <i>Journal of Solution Chemistry</i> , 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.. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 5109-5114		13
30	Viscosity of Water + tert-Butyl Alcohol (2-Methyl-2-propanol) Mixtures at Low Temperatures and High Pressure. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 581-588	2.8	11
29	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. Schöhoff, <i>Phys. Chem. Chem. Phys.</i> , 2018, 20, 7470. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 30041-30045	3.6	11
28	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquid 1-Butyl-3-methylimidazolium Acetate. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 804-813	2.8	10
27	Reference Correlation for the Viscosity of Liquid Cyclopentane from 220 to 310 K at Pressures to 25 MPa. <i>International Journal of Thermophysics</i> , 2004 , 25, 13-20	2.1	10
26	An improved NMR spin-echo apparatus for the measurement of self-diffusion coefficients: The diffusion of water in aqueous electrolyte solutions. <i>Journal of Magnetic Resonance</i> , 1978 , 29, 473-482		10
25	Comment on "Self-diffusion near the liquid-vapor critical point" [<i>J. Chem. Phys.</i> 114, 4912 (2001)]. <i>Journal of Chemical Physics</i> , 2002 , 116, 6379-6380	3.9	9
24	Rough hard spheres treatment of tracer diffusion of each component in two-component liquid systems. <i>Chemical Physics</i> , 1978 , 32, 349-352	2.3	9
23	Osmotic coefficient data for the system benzene-benzoic acid at 25.degree.. <i>The Journal of Physical Chemistry</i> , 1967 , 71, 483-486		9
22	Comment on "Ionic Conductivity, Diffusion Coefficients, and Degree of Dissociation in Lithium Electrolytes, Ionic Liquids, and Hydrogel Polyelectrolytes". <i>Journal of Physical Chemistry B</i> , 2018 , 122, 10964-10967	3.4	9
21	The pressure and composition dependence of mutual diffusion in the system helium-nitrogen at 300 K. <i>Chemical Physics Letters</i> , 1975 , 32, 561-565	2.5	8
20	Isotopic mass effects in the diffusion of small light solutes in a solvent of larger and heavier molecules. <i>The Journal of Physical Chemistry</i> , 1977 , 81, 2191-2192		8
19	Thermodynamic property measurements for 2-methyl-2-propanol + water from the freezing surface to 75 °C. <i>High Temperatures - High Pressures</i> , 1998 , 30, 51-62	1.3	8
18	Mutual Diffusion Coefficients for the Systems HD ₂ and HD ₃ Ar at 1 atm Pressure and 300 K. <i>Canadian Journal of Physics</i> , 1973 , 51, 2101-2107	1.1	7
17	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. <i>Canadian Journal of Chemistry</i> , 1972 , 50, 1874-1876	0.9	6
16	Thermodynamic or density scaling of the thermal conductivity of liquids. <i>Journal of Chemical Physics</i> , 2020 , 153, 104504	3.9	6

15	Hartley Frank equation and standard velocity correlation coefficients. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1982 , 78, 957		5
14	The self-diffusion coefficient of sulphuric acid. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1982 , 78, 1629		5
13	Comments on Preparation and transport properties of novel lithium ionic liquids [electrochim. Acta 50 (2004) 18] and on transport properties of lithium ionic liquids and their ion gels. [Electrochim. acta 50 (2005) 3872-3877] <i>Electrochimica Acta</i> , 2020 , 337, 135806	6.7	3
12	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. <i>Journal of Chemical & Engineering Data</i> ,	2.8	3
11	CHAPTER 5: Thermal Conductivity and Diffusivity 132-172		2
10	Correlation of dense fluid self-diffusion, shear viscosity, and thermal conductivity coefficients. <i>International Journal of Thermophysics</i> , 1995 , 16-16, 155-165	2.1	2
9	On the Correlation of Tracer Diffusion Coefficients. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 891-894	2.8	2
8	Mutual diffusion coefficients for the system benzene-cyclohexene at 25 °C. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1994 , 98, 560-562		2
7	Nucleation in complex multi-component and multi-phase systems: general discussion. <i>Faraday Discussions</i> , 2015 , 179, 503-42	3.6	1
6	H-Bonding in 2,2,2-Trifluoroethanol: Application of the Stokes-Einstein-Sutherland Equation to Self-Diffusion and Viscosity at High Pressures. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1443-1453	2.8	1
5	Correction to Temperature and Pressure Dependence of the Viscosities of Krytox GPL102 Oil and Di(pentaerythritol) Hexa(isononanoate) <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1682-1683	2.8	1
4	Determination of Potential Functions for Unlike Interactions from Transport Properties of Dilute Gases. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1993 , 97, 1061-1068		1
3	Effect of Pressure on the Transport Properties of 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide and 1-Hexyl-3-methylimidazolium Tetrafluoroborate. <i>Journal of Molecular Liquids</i> , 2022 , 119109	6	1
2	A minimal volume gas sampling valve. <i>Journal of Physics E: Scientific Instruments</i> , 1973 , 6, 1177-1178		
1	Thermodynamic or density scaling of the electrical conductivity of molten salts.. <i>Journal of Chemical Physics</i> , 2022 , 156, 054501	3.9	