

Yizhak Marcus

List of Publications by Year in descending order

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papers

12,658
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81743

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162
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times ranked

11633
citing authors

#	ARTICLE	IF	CITATIONS
1	Preferential solvation in mixed solvents. 16. Mixtures of N,N-dimethylformamide or propylene carbonate with organic solvents. Journal of Chemical Thermodynamics, 2020, 140, 105903.	1.0	2
2	The structure of mixtures of water and acetone derived from their cohesive energy densities and internal pressures. Journal of Molecular Liquids, 2020, 320, 112801.	2.3	5
3	Preferential solvation in mixed solvents. 15. Mixtures of acetonitrile with organic solvents. Journal of Chemical Thermodynamics, 2019, 135, 55-59.	1.0	6
4	Some Advances in Supercritical Fluid Extraction for Fuels, Bio-Materials and Purification. Processes, 2019, 7, 156.	1.3	25
5	Deep Eutectic Solvents. , 2019, , .		70
6	Properties of Deep Eutectic Solvents. , 2019, , 45-110.		9
7	The Variety of Deep Eutectic Solvents. , 2019, , 13-44.		8
8	Deep Eutectic Solvents in Extraction and Sorption Technology. , 2019, , 153-183.		1
9	The Solubility Parameter of Carbon Dioxide and Its Solubility in Ionic Liquids. Journal of Solution Chemistry, 2019, 48, 1025-1034.	0.6	5
10	A relationship between the effect of uni-univalent electrolytes on the structure of water and on its volatility. Journal of Chemical Physics, 2018, 148, 222807.	1.2	4
11	Solubility Parameter of Carbon Dioxide—An Enigma. ACS Omega, 2018, 3, 524-528.	1.6	31
12	Gas solubilities in deep eutectic solvents. Monatshefte für Chemie, 2018, 149, 211-217.	0.9	33
13	Total and partial solubility parameters of sub- and supercritical ethanol. Journal of Chemical Thermodynamics, 2018, 126, 187-189.	1.0	8
14	The Entropy of Deep Eutectic Solvent Formation. Entropy, 2018, 20, 524.	1.1	10
15	Estimation of the Critical Temperatures of Some More Deep Eutectic Solvents from Their Surface Tensions. Advances in Materials Science and Engineering, 2018, 2018, 1-3.	1.0	17
16	Extraction by Subcritical and Supercritical Water, Methanol, Ethanol and Their Mixtures. Separations, 2018, 5, 4.	1.1	39
17	The isothermal compressibility and surface tension product of room temperature ionic liquids. Journal of Chemical Thermodynamics, 2018, 124, 149-152.	1.0	3
18	Standard absolute entropy, S_{298}^o , of salt hydrates from volumes and hydrate numbers and the thermodynamic difference rule. Chemical Physics Letters, 2018, 708, 106-108.	1.2	4

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19	Structure of Mixtures of Water and Methanol Derived from Their Cohesive Energy Densities and Internal Pressures from Subambient Temperatures to 473 K. <i>Journal of Physical Chemistry B</i> , 2017, 121, 863-866.	1.2	5
20	The Internal Pressure and Cohesive Energy Density of Liquid Metallic Elements. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	1.0	4
21	On the surface tension of room temperature ionic liquids. <i>Fluid Phase Equilibria</i> , 2017, 444, 56-60.	1.4	6
22	Solvation Numbers of Divalent Metal Salts and Ions in Some Non-aqueous Solvents. <i>Journal of Solution Chemistry</i> , 2017, 46, 225-233.	0.6	3
23	Room Temperature Ionic Liquids: Their Cohesive Energies, Solubility Parameters and Solubilities in Them. <i>Journal of Solution Chemistry</i> , 2017, 46, 1778-1791.	0.6	11
24	Unconventional Deep Eutectic Solvents: Aqueous Salt Hydrates. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11780-11787.	3.2	45
25	Effects of Solvent Properties on the Anion Binding of Neutral Water-Soluble Bis(cyclopeptides) in Water and Aqueous Solvent Mixtures. <i>ACS Omega</i> , 2017, 2, 3669-3680.	1.6	40
26	Salts Forming Low-Melting Eutectics with Water: BET Parameters. <i>Journal of Solution Chemistry</i> , 2017, 46, 1451-1455.	0.6	3
27	On the compressibility of liquid metals. <i>Journal of Chemical Thermodynamics</i> , 2017, 109, 11-15.	1.0	25
28	Some thermophysical properties of methanol and aqueous methanol mixtures at sub- and supercritical conditions. <i>Journal of Molecular Liquids</i> , 2017, 239, 10-13.	2.3	7
29	Relationships between the internal pressure, the cohesive energy, and the surface tension of liquids. <i>Physics and Chemistry of Liquids</i> , 2017, 55, 522-531.	0.4	10
30	Chapter 18. Internal Pressure of Liquids: A Review. , 2017, , 477-504.		2
31	Solubility Parameters of Permanent Gases. <i>Journal of Chemistry</i> , 2016, 2016, 1-18.	0.9	11
32	The internal pressure and cohesive energy density of two inorganic liquids: Bromine and carbon disulfide. <i>Journal of Chemical Thermodynamics</i> , 2016, 98, 317-318.	1.0	1
33	Ionic Liquid Properties. , 2016, , .		51
34	The Properties of Ions Constituting Ionic Liquids. , 2016, , 7-24.		0
35	Room Temperature Ionic Liquids. , 2016, , 123-220.		12
36	High-Melting Salts. , 2016, , 25-98.		0

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37	Specific ion effects on the surface tension and surface potential of aqueous electrolytes. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 23, 94-99.	3.4	19
38	Electrostriction of Several Nonaqueous Solvents under Ambient Conditions and Solvation Numbers of Ions in Them. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9755-9758.	1.2	4
39	The viscosity and electrical conductivity of single molten salts. <i>Chemical Physics Letters</i> , 2016, 659, 40-42.	1.2	0
40	Low-Melting Ionic Salts. , 2016, , 109-122.		2
41	Total and partial solubility parameters of supercritical methanol. <i>Journal of Supercritical Fluids</i> , 2016, 111, 43-46.	1.6	12
42	Are solubility parameters relevant for the solubility of liquid organic solutes in room temperature ionic liquids?. <i>Journal of Molecular Liquids</i> , 2016, 214, 32-36.	2.3	9
43	On the solubility of non-ionic organic solutes in seawater. <i>Pure and Applied Chemistry</i> , 2015, 87, 503-508.	0.9	0
44	Ionic and molar volumes of room temperature ionic liquids. <i>Journal of Molecular Liquids</i> , 2015, 209, 289-293.	2.3	41
45	The Effect of Complex Anions on the Structure of Water. <i>Journal of Solution Chemistry</i> , 2015, 44, 2258-2265.	0.6	5
46	Chapter 19. Volumetric Behaviour of Room Temperature Ionic Liquids. , 2014, , 512-525.		1
47	Reprint of: The enthalpy of formation of gaseous tetra-n-propylammonium cations. <i>Journal of Chemical Thermodynamics</i> , 2014, 73, 296-299.	1.0	1
48	The Molar Volumes of Ions in Solution, Part 7. Electrostriction and Hydration Numbers of Aqueous Polyatomic Anions at 25 Å°C. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2172-2175.	1.2	22
49	The enthalpy of formation of gaseous tetra-n-propylammonium cations. <i>Journal of Chemical Thermodynamics</i> , 2014, 71, 196-199.	1.0	3
50	Hydrogen Bonding in Supercritical Water. <i>Biofuels and Biorefineries</i> , 2014, , 3-39.	0.5	5
51	Concentration Dependence of Ionic Hydration Numbers. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10471-10476.	1.2	51
52	The fluidity of molten salts re-examined. <i>Fluid Phase Equilibria</i> , 2014, 366, 57-60.	1.4	3
53	The fluidity of room temperature ionic liquids. <i>Fluid Phase Equilibria</i> , 2014, 363, 66-69.	1.4	4
54	Volumetric behavior of molten salts. <i>Thermochimica Acta</i> , 2013, 559, 111-116.	1.2	13

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55	The compressibility of molten salts. <i>Journal of Chemical Thermodynamics</i> , 2013, 61, 7-10.	1.0	25
56	The compressibility and surface tension product of molten salts. <i>Journal of Chemical Physics</i> , 2013, 139, 124509.	1.2	17
57	Surface tension and cohesive energy density of molten salts. <i>Thermochimica Acta</i> , 2013, 571, 77-81.	1.2	24
58	Evaluation of the Static Permittivity of Aqueous Electrolytes. <i>Journal of Solution Chemistry</i> , 2013, 42, 2354-2363.	0.6	13
59	Prediction of salting-out and salting-in constants. <i>Journal of Molecular Liquids</i> , 2013, 177, 7-10.	2.3	13
60	Reply to the letter "To curve-fit or not to curve-fit: Comments on "Water structure enhancement in water-rich binary solvent mixtures. Part II. The excess partial molar heat capacity of the water." by Yoshikata Koga. <i>Journal of Molecular Liquids</i> , 2013, 177, 436.	2.3	0
61	Individual Ionic Surface Tension Increments in Aqueous Solutions. <i>Langmuir</i> , 2013, 29, 2881-2888.	1.6	38
62	Internal Pressure of Liquids and Solutions. <i>Chemical Reviews</i> , 2013, 113, 6536-6551.	23.0	83
63	Volumetric Properties of Molten Salt Hydrates. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 488-491.	1.0	6
64	Ions in Water and Biophysical Implications. , 2012, , .		40
65	The structure of and interactions in binary acetonitrile + water mixtures. <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 1072-1085.	0.9	62
66	Are Ionic Stokes Radii of Any Use?. <i>Journal of Solution Chemistry</i> , 2012, 41, 2082-2090.	0.6	30
67	The Viscosity η -Coefficient of the Thiocyanate Anion. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 617-619.	1.0	14
68	The Standard Partial Molar Volumes of Ions in Solution. Part 5. Ionic Volumes in Water at 125–200 Å°C. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7232-7239.	1.2	17
69	Volumes of aqueous hydrogen and hydroxide ions at 0 to 200 Å°C. <i>Journal of Chemical Physics</i> , 2012, 137, 154501.	1.2	111
70	Ions. , 2012, , 49-98.		0
71	Water structure enhancement in water-rich binary solvent mixtures. Part II. The excess partial molar heat capacity of the water. <i>Journal of Molecular Liquids</i> , 2012, 166, 62-66.	2.3	41
72	Hansen solubility parameters for supercritical water. <i>Journal of Supercritical Fluids</i> , 2012, 62, 60-64.	1.6	39

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73	The guanidinium ion. <i>Journal of Chemical Thermodynamics</i> , 2012, 48, 70-74.	1.0	35
74	Effects of Ions on Water Structure and Vice Versa. , 2012, , 99-139.		2
75	Water Surfaces. , 2012, , 141-169.		0
76	Electrostriction in Electrolyte Solutions. <i>Chemical Reviews</i> , 2011, 111, 2761-2783.	23.0	113
77	Solution Thermodynamics and Preferential Solvation of Meloxicam in Propylene Glycol + Water Mixtures. <i>Journal of Solution Chemistry</i> , 2011, 40, 1987-1999.	0.6	110
78	Water structure enhancement in water-rich binary solvent mixtures. <i>Journal of Molecular Liquids</i> , 2011, 158, 23-26.	2.3	32
79	The cohesive energy of molten salts and its density. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 60-64.	1.0	30
80	On the Intrinsic Volumes of Ions in Aqueous Solutions. <i>Journal of Solution Chemistry</i> , 2010, 39, 1031-1038.	0.6	17
81	Effect of ions on the structure of water. <i>Pure and Applied Chemistry</i> , 2010, 82, 1889-1899.	0.9	96
82	Surface Tension of Aqueous Electrolytes and Ions. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3641-3644.	1.0	55
83	On Water Structure in Concentrated Salt Solutions. <i>Journal of Solution Chemistry</i> , 2009, 38, 513-516.	0.6	35
84	Thermodynamic properties of tetrabutylammonium iodide and tetrabutylammonium tetraphenylborate. <i>Thermochimica Acta</i> , 2009, 483, 15-20.	1.2	10
85	Heat capacities of molten salts with polyatomic anions. <i>Thermochimica Acta</i> , 2009, 495, 81-84.	1.2	15
86	Effect of Ions on the Structure of Water: Structure Making and Breaking. <i>Chemical Reviews</i> , 2009, 109, 1346-1370.	23.0	1,460
87	The Standard Partial Molar Volumes of Ions in Solution. Part 4. Ionic Volumes in Water at 0 \pm 100 $\text{\AA}^{\circ}\text{C}$. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10285-10291.	1.2	79
88	Tetraalkylammonium Ions in Aqueous and Non-aqueous Solutions. <i>Journal of Solution Chemistry</i> , 2008, 37, 1071-1098.	0.6	108
89	The standard partial molar entropy of the aqueous tetra-n-butylammonium cation. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 1314-1317.	1.0	2
90	On the preferential solvation of drugs and PAHs in binary solvent mixtures. <i>Journal of Molecular Liquids</i> , 2008, 140, 61-67.	2.3	232

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91	Gibbs Energies of Transfer of Anions from Water to Mixed Aqueous Organic Solvents. <i>Chemical Reviews</i> , 2007, 107, 3880-3897.	23.0	120
92	Preferential Solvation of Ions in Mixed Solvents. 5. The Alkali Metal, Silver, and Thallium(I) Cations in Aqueous Organic Solvents According to the Inverse Kirkwood-Buff Integral (IKBI) Approach. <i>Journal of Solution Chemistry</i> , 2007, 36, 1385-1399.	0.6	14
93	Preferential solvation of ions in mixed solvents. 6: Univalent anions in aqueous organic solvents according to the inverse Kirkwood-Buff integral (IKBI) approach. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1338-1345.	1.0	20
94	Ion Pairing. <i>Chemical Reviews</i> , 2006, 106, 4585-4621.	23.0	921
95	Ionic volumes in solution. <i>Biophysical Chemistry</i> , 2006, 124, 200-207.	1.5	25
96	On the activity coefficients of charge-symmetrical ion pairs. <i>Journal of Molecular Liquids</i> , 2006, 123, 8-13.	2.3	19
97	Preferential solvation in mixed solvents. 14. Mixtures of 1,4-dioxane with organic solvents: Kirkwood-Buff integrals and volume-corrected preferential solvation parameters. <i>Journal of Molecular Liquids</i> , 2006, 128, 115-126.	2.3	24
98	Are solubility parameters relevant to supercritical fluids?. <i>Journal of Supercritical Fluids</i> , 2006, 38, 7-12.	1.6	53
99	On the Molar Volumes and Viscosities of Electrolytes. <i>Journal of Solution Chemistry</i> , 2006, 35, 1271-1286.	0.6	8
100	Preferential Solvation in Mixed Solvents. <i>Journal of Solution Chemistry</i> , 2006, 35, 251-277.	0.6	19
101	The standard partial molar volumes of ions in solution. <i>Journal of Molecular Liquids</i> , 2005, 118, 3-8.	2.3	26
102	Solvatochromic probes in supercritical fluids. <i>Journal of Physical Organic Chemistry</i> , 2005, 18, 373-384.	0.9	37
103	Electrostriction, Ion Solvation, and Solvent Release on Ion Pairing. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18541-18549.	1.2	90
104	The Standard Partial Molar Volumes of Ions in Solution. Part 2. The Volumes in Two Binary Solvent Mixtures with No Preferential Solvation. <i>Journal of Solution Chemistry</i> , 2004, 33, 549-559.	0.6	16
105	Mixed magnesium and nickel nitrate hexahydrates: an unexpected restructuring. <i>Journal of Crystal Growth</i> , 2004, 270, 589-592.	0.7	2
106	Standard Partial Molar Volumes of Electrolytes and Ions in Nonaqueous Solvents. <i>Chemical Reviews</i> , 2004, 104, 3405-3452.	23.0	232
107	A new double salt: triacetatohexaaquodimagnesium nitrate. <i>Journal of Crystal Growth</i> , 2003, 254, 151-155.	0.7	6
108	Preferential solvation in mixed solvents. 12. Aqueous glycols. <i>Journal of Molecular Liquids</i> , 2003, 107, 109-126.	2.3	11

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109	The sizes of molecules-revisited. <i>Journal of Physical Organic Chemistry</i> , 2003, 16, 398-408.	0.9	35
110	Densities and Excess and Partial Molar Volumes of Aqueous Pyrrolidine at 25 and 50 Å°C and Aqueous Morpholine at 25 and 60 Å°C. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 208-210.	1.0	6
111	Preferential solvation in mixed solvents.. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4462-4471.	1.3	34
112	Ion volumes: a comparison. <i>Dalton Transactions RSC</i> , 2002, , 3795-3798.	2.3	86
113	Enthalpies and Entropies of Transfer of Electrolytes and Ions from Water to Mixed Aqueous Organic Solvents. <i>Chemical Reviews</i> , 2002, 102, 2773-2836.	23.0	138
114	Preferential Solvation in Mixed Solvents X. Completely Miscible Aqueous Co-Solvent Binary Mixtures at 298.15 K. <i>Monatshfte FÅ¼r Chemie</i> , 2001, 132, 1387-1411.	0.9	118
115	Relationships Among Solvent Softness Scales. <i>Journal of Solution Chemistry</i> , 2000, 29, 201-216.	0.6	14
116	Gibbs Energies of Transfer of Cations from Water to Mixed Aqueous Organic Solvents. <i>Chemical Reviews</i> , 2000, 100, 819-852.	23.0	311
117	On the Pressure and Electric Field Dependencies of the Relative Permittivity of Liquids. <i>Journal of Solution Chemistry</i> , 1999, 28, 575-592.	0.6	67
118	Preferential solvation in mixed solvents Part 8. Aqueous methanol from sub-ambient to elevated temperatures. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2975-2983.	1.3	30
119	The Octahedral-Square-Planar Transition of Nickel Chelates. <i>Journal of Chemical Education</i> , 1998, 75, 1458.	1.1	2
120	A critical review of methods for obtaining ionic volumes in solution. <i>Journal of Solution Chemistry</i> , 1997, 26, 249-266.	0.6	58
121	The solubility and solvation of salts in mixed nonaqueous solvents. 2. Potassium halides in mixed protic solvents. <i>Journal of Solution Chemistry</i> , 1997, 26, 1-12.	0.6	6
122	Ionic partial molar heat capacities in non-aqueous solvents. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 757.	1.7	24
123	The structuredness of solvents. 2. Data for ambient conditions. <i>Journal of Solution Chemistry</i> , 1996, 25, 455-469.	0.6	23
124	Water binding by organic molecules. <i>Cell Biochemistry and Function</i> , 1995, 13, 157-163.	1.4	11
125	Titration calorimetric determination of the pairwise interaction parameters of glycerol, D-threitol, mannitol, and D-glucitol in dilute aqueous solutions. <i>Journal of Solution Chemistry</i> , 1995, 24, 201-209.	0.6	13
126	Viscosity B-Coefficients of Ions in Solution. <i>Chemical Reviews</i> , 1995, 95, 2695-2724.	23.0	623

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127	A simple empirical model describing the thermodynamics of hydration of ions of widely varying charges, sizes, and shapes. <i>Biophysical Chemistry</i> , 1994, 51, 111-127.	1.5	712
128	The use of chemical probes for the characterization of solvent mixtures. Part 2. Aqueous mixtures. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1994, , 1751.	0.9	145
129	Ionic partial molar volumes in non-aqueous solvents. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 1899.	1.7	58
130	Thermodynamics of solvation of ions. Part 6. "The standard partial molar volumes of aqueous ions at 298.15 K. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 713-718.	1.7	144
131	CORRELATION OF THE DISTRIBUTION OF ORGANIC SOLUTES BETWEEN WATER AND "WET" ORGANIC SOLVENTS WITH THE PROPERTIES OF THE SOLUTES AND THE SOLVENTS. <i>Solvent Extraction and Ion Exchange</i> , 1992, 10, 527-538.	0.8	19
132	The structuredness of solvents. <i>Journal of Solution Chemistry</i> , 1992, 21, 1217-1230.	0.6	69
133	Polarity, hydrogen bonding, and structure of mixtures of water and cyanomethane. <i>The Journal of Physical Chemistry</i> , 1991, 95, 400-406.	2.9	250
134	Thermodynamics of solvation of ions. Part 5. "Gibbs free energy of hydration at 298.15 K. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 2995-2999.	1.7	1,703
135	Preferential solvation of silver(I), copper(I) and copper(II) ions in aqueous acetonitrile. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 2265.	1.1	17
136	Preferential solvation in mixed solvents. Part 5. "Binary mixtures of water and organic solvents. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 2215-2224.	1.7	84
137	Preferential solvation. Part 3. "Binary solvent mixtures. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 381.	1.0	76
138	Preferential solvation of ions in mixed solvents. Part 4. "Comparison of the Kirkwood "Buff and quasi-lattice quasi-chemical approaches. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 3019.	1.0	26
139	Role of hydrophobicity in protein structure is overestimated. <i>International Journal of Peptide and Protein Research</i> , 1989, 34, 405-408.	0.1	12
140	Molar refractivities of tetra-n-alkylammonium salts and ions. <i>Journal of Chemical & Engineering Data</i> , 1988, 33, 43-46.	1.0	23
141	Linear solvation energy relationship. 46. An improved equation for correlation and prediction of octanol/water partition coefficients of organic nonelectrolytes (including strong hydrogen bond) <i>J. Polym. Sci. Part B: Polym. Phys.</i> 1988, 26, 1071-1081.	1.0	26
142	Ionic radii in aqueous solutions. <i>Chemical Reviews</i> , 1988, 88, 1475-1498.	23.0	1,380
143	The thermodynamics of solvation of ions. Part 2. "The enthalpy of hydration at 298.15 K. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1987, 83, 339.	1.0	217
144	A random contact point model for second virial coefficients in dilute solutions. <i>AIChE Journal</i> , 1987, 33, 1800-1807.	1.8	5

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145	The thermodynamics of solvation of ions. Part 1. The heat capacity of hydration at 298.15 K. Journal of the Chemical Society Faraday Transactions I, 1986, 82, 3255.	1.0	72
146	Entropies of tetrahedral M ²⁺ phenyl species. Journal of the Chemical Society Faraday Transactions I, 1986, 82, 993.	1.0	11
147	Activity Coefficients of Sodium Bromide at High Concentrations.. Journal of Chemical & Engineering Data, 1965, 10, 105-106.	1.0	11
148	Substituted Anilines as Solvatochromic Probes. , 0, , 373-406.		3