Ivan Cibulka

List of Publications by Year
in descending order

93 papers	2,436 citations	279798 23 h-index	214800 47 g-index
95 all docs	95 docs citations	95 times ranked	993 citing authors

#	Article	IF	Citations
1	Estimation of excess volume and density of ternary liquid mixtures of non-electrolytes from binary data. Collection of Czechoslovak Chemical Communications, 1982, 47, 1414-1419.	1.0	346
2	High-Pressure Volumetric Properties of Imidazolium-Based Ionic Liquids:â€‰ Effect of the Anion. Journal of Chemical & Engineering Data, 2007, 52, 2204-2211.	1.9	221
3	Saturated liquid densities of 1-alkanols from C1 to c10 and n-alkanes from C5 to C16: A critical evaluation of experimental data. Fluid Phase Equilibria, 1993, 89, 1-18.	2.5	174
4	Liquid Densities at Elevated Pressures ofn-Alkanes from C5to C16:Â A Critical Evaluation of Experimental Data. Journal of Chemical & Engineering Data, 1996, 41, 657-668.	1.9	155
5	Liquid Densities at Elevated Pressures of 1-Alkanols from C1 to C10: A Critical Evaluation of Experimental Data. Journal of Chemical & Engineering Data, 1994, 39, 876-886.	1.9	107
6	A new design of a vibrating-tube densimeter and partial molar volumes of phenol(aq) at temperatures from 298 K to 573 K. Journal of Chemical Thermodynamics, 1997, 29, 1237-1252.	2.0	81
7	Pâˆ'Ïâˆ'T Data of Liquids:â€‰ Summarization and Evaluation. 5. Aromatic Hydrocarbons. Journal of Chemical & Engineering Data, 1999, 44, 411-429.	1.9	78
8	Speed of Sound and Ultrasound Absorption in Ionic Liquids. Chemical Reviews, 2017, 117, 3883-3929.	47.7	63
9	Partial molar volumes of organic solutes in water. XII. Methanol(aq), ethanol(aq), 1-propanol(aq), and 2-propanol(aq) at T=(298 to 573) K and at pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2004, 36, 1095-1103.	2.0	52
10	PVT properties of liquids and liquid mixtures: a review of the experimental methods and the literature data. Fluid Phase Equilibria, 1985, 19, 33-149.	2.5	48
11	Pâˆ'Ïâˆ'TData of Liquids:Â Summarization and Evaluation. 4. Higher 1-Alkanols (C11, C12, C14, C16), Secondary, Tertiary, and Branched Alkanols, Cycloalkanols, Alkanediols, Alkanetriols, Ether Alkanols, and Aromatic Hydroxy Derivatives. Journal of Chemical & Engineering Data, 1997, 42, 415-433.	1.9	47
12	Pâˆ'Ïâˆ'TData of Liquids:â€‰ Summarization and Evaluation. 8. Miscellaneous Compounds. Journal of Chemical & Engineering Data, 2002, 47, 1037-1070.	1.9	47
13	Partial molar volumes of organic solutes in water. XIV. Polyhydric alcohols derived from ethane and propane at temperatures T=298K to T=573K and at pressures up to 30MPa. Journal of Chemical Thermodynamics, 2006, 38, 801-809.	2.0	42
14	Pâˆ'Ïâˆ'T Data of Liquids:â€‰ Summarization and Evaluation. 7. Selected Halogenated Hydrocarbons. Journal of Chemical & Engineering Data, 2001, 46, 2-28.	1.9	34
15	An Automated Vibrating-Tube Densimeter for Measurements of Small Density Differences in Dilute Aqueous Solutions. International Journal of Thermophysics, 2004, 25, 1135-1142.	2.1	33
16	Partial molar volumes of organic solutes in water. XIII. Butanols (aq) at temperatures T=298K to 573K and at pressures up to 30MPa. Journal of Chemical Thermodynamics, 2006, 38, 418-426.	2.0	31
17	Partial molar volumes of organic solutes in water. XX. Glycine(aq) and l-alanine(aq) at temperatures (298 to 443) K and at pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2010, 42, 198-207.	2.0	31
18	P-Ï•TData of Liquids:Â Summarization and Evaluation. 6. Nonaromatic Hydrocarbons (Cn,nâ€¥ 5) exceptn-Alkanes C5to C16. Journal of Chemical & Engineering Data, 1999, 44, 1105-1128.	1.9	30

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19	Partial molar volumes of organic solutes in water. I.O-,m-, andp-cresol at temperatures 298 K to 573 K. Journal of Chemical Thermodynamics, 1998, 30, 557-569.	2.0	28
20	Partial molar volumes of organic solutes in water. II. Dihydroxybenzenes at temperaturesT=(298 to) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	26
21	P⁻ˇĨ⁻ˇTData of Liquids: Summarization and Evaluation. 3. Ethers, Ketones, Aldehydes, Carboxylic Acids, and Esters. Journal of Chemical & Engineering Data, 1997, 42, 2-26.	1.9	24
22	Partial Molar Volumes of l-Serine and l-Threonine in Aqueous Ammonium Sulfate Solutions at (278.15,) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	24
23	Partial molar volumes of air-component gases in binary liquid mixtures with n-alkanes and 1-alkanols at 298.15 K. Fluid Phase Equilibria, 1995, 107, 235-255.	2.5	23
24	Partial molar volumes of organic solutes in water. VI.o-Chlorophenol andp-chlorophenol at temperatures from 298 K to 573 K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2001, 33, 1049-1057.	2.0	23
25	Partial molar volumes of organic solutes in water. XXI: Cyclic ethers at temperatures T=(278 to 373)K and at low pressure. Journal of Chemical Thermodynamics, 2010, 42, 274-285.	2.0	23
26	Partial Molar Isentropic Compressions and Partial Molar Volumes of Selected Branched Aliphatic Alcohols at Infinite Dilution in Water at Temperatures from T = (278 to 318) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2012, 57, 1570-1580.	1.9	23
27	Partial molar volumes of organic solutes in water. IV. Benzoic and hydroxybenzoic acids at temperatures fromT= 298 K toT= 498 K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2000, 32, 1299-1310.	2.0	22
28	Partial molar volumes of organic solutes in water. X. Benzene and toluene at temperatures from (298) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	22
29	Partial Molar Volumes and Partial Molar Isentropic Compressions of Three Polyhydric Alcohols Derived from Propane at Infinite Dilution in Water at Temperatures T = (278 to 318) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2012, 57, 1152-1159.	1.9	22
30	Partial molar volumes of organic solutes in water. III. Aniline at temperaturesT= 298 K toT= 573 K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2000, 32, 1221-1227.	2.0	21
31	Partial molar volumes of organic solutes in water. XXII. Cyclic ethers at temperatures (298 to 573) K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2010, 42, 502-512.	2.0	21
32	Measurements of the excess volume of benzene-methanol, benzene-acetonitrile and methanol-acetonitrile mixtures by a vibrating-tube densimeter. Collection of Czechoslovak Chemical Communications, 1979, 44, 295-306.	1.0	21
33	Standard partial molar volumes in water of mono- and polyhydric aliphatic alcohols in wide ranges of temperature and pressure. Journal of Molecular Liquids, 2007, 131-132, 206-215.	4.9	20
34	Thermodynamics of associating component + saturated hydrocarbon mixtures at low pressuresâ€"IV. Correlation of vapour pressures and volumetric properties of some aliphatic amines and their mixtures with n-alkanes in terms of association. Fluid Phase Equilibria, 1988, 39, 39-51.	2.5	19
35	Partial molar volumes of organic solutes in water. XV. Butanediols(aq) at temperatures from (298K to) Tj ETQq1 1 0.784314 rgBT /Over	2.0	18
36	Partial Molar Volumes and Partial Molar Isentropic Compressions of Selected Alkane-α,ω-diols at Infinite Dilution in Water at Temperatures <i>T</i> = (278 to 318) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2013, 58, 1724-1734.	1.9	18

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37	Group contribution method for standard molar volumes of aqueous aliphatic alcohols, ethers and ketones over extended ranges of temperature and pressure. Journal of Chemical Thermodynamics, 2011, 43, 1215-1223.	2.0	17
38	Partial molar volumes of organic solutes in water. V.o-,m-, andp-toluidine at temperatures from 298 K to 573 K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2000, 32, 1657-1668.	2.0	16
39	(Vapour + liquid) equilibria, limiting activity coefficients, and excess molar volumes of {1-bromo-1-chloro-2,2,2-trifluoroethane (halothane) + tetrachloromethane or trichloromethane or 1,1,1-trichloroethane}. Journal of Chemical Thermodynamics, 1987, 19, 1145-1154.	2.0	14
40	Partial molar volumes of organic solutes in water. VII. o- and p-Aminobenzoic acids at T= 298 K to 498 K and o-diaminobenzene atT= 298 K to 573 K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2002, 34, 861-873.	2.0	14
41	Partial molar volumes of organic solutes in water. XVI. Selected aliphatic hydroxyderivatives(aq) at T=(298 to 573)K and at pressures up to 30MPa. Journal of Chemical Thermodynamics, 2007, 39, 833-840.	2.0	14
42	Partial molar volumes of organic solutes in water. XVIII: Selected polyethers(aq) and 3,6-dioxa-1-heptanol(aq) at T=(298 to 573)K and at pressures up to 30MPa. Journal of Chemical Thermodynamics, 2007, 39, 1292-1299.	2.0	14
43	Partial Molar Volumes of Selected Aliphatic Alcohols at Infinite Dilution in Water at Temperatures <i>T</i> = (278 to 573) K and Pressures up to 30 MPa. Journal of Chemical & Engineering Data, 2011, 56, 4564-4576.	1.9	14
44	Partial Molar Volumes of Glycine and dl-Alanine in Aqueous Ammonium Sulfate Solutions at 278.15, 288.15, 298.15 and 308.15ÂK. Journal of Solution Chemistry, 2014, 43, 972-988.	1.2	14
45	Partial Molar Volumes and Partial Molar Isentropic Compressions of Four Poly(ethylene glycols) at Infinite Dilution in Water at Temperatures T = (278 to 343) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2016, 61, 748-759.	1.9	14
46	Thermodynamics of associating component + saturated hydrocarbon mixtures at low pressures. I. Description of saturated vapour pressures and liquid molar volumes of pure n-alcohols in terms of association. Fluid Phase Equilibria, 1987, 35, 19-42.	2.5	12
47	Partial molar volumes of organic solutes in water. VIII. Nitrobenzene and nitrophenols at T=298 K to T=573 K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2003, 35, 1185-1197.	2.0	12
48	Partial molar volumes of organic solutes in water. XI. Phenylmethanol and 2-phenylethanol at T=(298) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	12
49	Excess volume of the benzene-methanol-acetonitrile ternary mixture at temperatures of 25 and 40 Â°C and correlation of its concentration dependence. Collection of Czechoslovak Chemical Communications, 1980, 45, 3241-3248.	1.0	12
50	Excess molar volumes of binary mixtures of acetic acid and propionic acid with some members of homologous series of alkanes. Collection of Czechoslovak Chemical Communications, 1991, 56, 736-744.	1.0	12
51	Thermodynamics of associating component + saturated hydrocarbon mixtures at low pressures. II. Extension of the model to correlate isothermal vapourliquid equilibria and volumetric properties of n-alcohol + n-alkane mixtures. Fluid Phase Equilibria, 1987, 35, 43-63.	2.5	11
52	Partial molar volumes of organic solutes in water. IX. m-Aminophenol and benzonitrile at temperatures from 298 K to 573 K and o-cyanophenol at temperatures from 298 K to 498 K and at pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2003, 35, 1199-1212.	2.0	11
53	Speed of sound in liquid tetrachloromethane and benzene at temperatures from 283.15 K to 333.15 K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2004, 36, 659-664.	2.0	11
54	Group Contributions for an Estimation of Partial Molar Volumes at Infinite Dilution for Aqueous Organic Solutes at Extended Ranges of Temperature and Pressure. International Journal of Thermophysics, 2004, 25, 387-395.	2.1	10

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55	Partial molar volumes of organic solutes in water. XIX. Cyclic alcohols(aq) at T= (298 to 573) K and at pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2009, 41, 489-498.	2.0	10
56	Partial Molar Volumes and Partial Molar Isentropic Compressions of Four Aliphatic Linear Polyethers at Infinite Dilution in Water at Temperatures T = (278 to 343) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2014, 59, 4205-4216.	1.9	10
57	Partial Molar Volumes and Partial Molar Isentropic Compressions of 15-Crown-5 and 18-Crown-6 Ethers at Infinite Dilution in Water at Temperatures T = (278 to 343) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2014, 59, 2075-2086.	1.9	10
58	Partial Molar Volumes and Partial Molar Isentropic Compressions of Four 2-Alkoxyethanols at Infinite Dilution in Water at Temperatures T = 278–343 K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2017, 62, 2649-2658.	1.9	10
59	Densities of NaOH(aq) at Temperatures from (323 to 573) K and 10 MPa Pressure. Journal of Chemical & Engineering Data, 2007, 52, 2237-2244.	1.9	9
60	A dilution dilatomer for measuring excess volumes. Collection of Czechoslovak Chemical Communications, 1981, 46, 2774-2781.	1.0	9
61	Speeds of Sound in Dense Liquid and Vapor Pressures for 1,1-Difluoroethane. Journal of Chemical & Engineering Data, 2004, 49, 1652-1656.	1.9	8
62	Densities of Concentrated Alkaline Aluminate Solutions at Temperatures from (323 to 573) K and 10 MPa Pressure. Journal of Chemical & Engineering Data, 2010, 55, 1173-1178.	1.9	8
63	Partial Molar Isentropic Compressions and Partial Molar Volumes of Isomeric Butanediols at Infinite Dilution in Water at Temperatures T = (278 to 318) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2013, 58, 388-397.	1.9	8
64	On a temperature dependence of the van der Waals volume parameter in cubic equations of state. Fluid Phase Equilibria, 1990, 60, 327-332.	2.5	7
65	Partial molar volumes of air-component gases in several liquid n-alkanes and 1-alkanols at 313.15 K. Fluid Phase Equilibria, 1995, 109, 227-234.	2.5	7
66	Partial molar volumes of organic solutes in water. XVII: 3-Pentanone(aq) and 2,4-pentanedione(aq) at T=(298 to 573)K and at pressures up to 30MPa. Journal of Chemical Thermodynamics, 2007, 39, 1286-1291.	2.0	7
67	Partial Molar Volumes of Cyclic Alcohols at Infinite Dilution in Water at Temperatures T = (298 to 373) K and Pressure of 0.5 MPa. Journal of Chemical & Engineering Data, 2009, 54, 459-463.	1.9	7
68	Partial molar volumes of organic solutes in water. XXIII. Cyclic ketones at T= (298 to 573) K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2011, 43, 1028-1035.	2.0	7
69	Speed of Sound in Binary Mixtures of Pentafluoroethane and 1,1-Difluoroethane from 243.15 K to 333.15 K and Pressures up to 30 MPa. Journal of Chemical & Engineering Data, 2004, 49, 1657-1660.	1.9	5
70	Partial Molar Volumes of Cyclic Ketones at Infinite Dilution in Water at Temperatures T = (278) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.9	5
71	Partial molar volumes of organic solutes in water. XXIV. Selected alkane-α,ω-diols at temperatures T=298K to 573K and pressures up to 30MPa. Journal of Chemical Thermodynamics, 2013, 64, 231-238.	2.0	5
72	Partial Molar Isentropic Compressions of Selected Cyclic Ethers at Infinite Dilution in Water at Temperatures T = (278 to 318) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2013, 58, 1249-1254.	1.9	5

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73	Partial molar volumes of organic solutes in water. XXVII. Two aliphatic polyethers (triglyme,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Thermodynamics, 2016, 101, 78-83.	2.0	5
74	Partial molar volumes of organic solutes in water. XXVIII. Three aliphatic poly(ethylene glycols) at temperatures T= 298 Kâ€"573 K and pressures up to 30 MPa. Journal of Chemical Thermodynamics, 2017, 109, 2-10.	2.0	5
75	Computation and volumetric insight into (p,T) effect on aqueous guanidinium chloride. Journal of Chemical Thermodynamics, 2021, 158, 106450.	2.0	5
76	Evaluation of the dependence of excess volume of the benzene-cyclohexane mixture on composition at 298.15 K from literature data. Collection of Czechoslovak Chemical Communications, 1983, 48, 199-202.	1.0	4
77	A relation between excess volume and the form of the dependence of density on composition for binary liquid mixtures. Collection of Czechoslovak Chemical Communications, 1990, 55, 1653-1659.	1.0	4
78	Excess Volumes of 1,4-Dioxane + Ethane-1,2-diol at 298.15 K. Journal of Chemical & Engineering Data, 1995, 40, 974-975.	1.9	3
79	A simple method for evaluation of parameters of the Bender equation of state from experimental data. Fluid Phase Equilibria, 2001, 180, 27-40.	2.5	3
80	Partial Molar Volumes and Partial Molar Isentropic Compressions of Î³-Butyrolactone and Îµ-Caprolactone at Infinite Dilution in Water at Temperatures (278.15 to 318.15) K and at Atmospheric Pressure. Journal of Solution Chemistry, 2011, 40, 751-763.	1.2	3
81	Thermodynamics of associating component + saturated hydrocarbon mixtures at low pressures. III. Vapourliquid equilibria and volumetric properties of n-alcohol + cyclohexane mixtures. Fluid Phase Equilibria, 1987, 35, 65-75.	2.5	2
82	Partial molar volumes of organic solutes in water. XXVI. 15-Crown-5 and 18-crown-6 ethers at temperatures (298 to 573)K and pressures up to 30MPa. Journal of Chemical Thermodynamics, 2015, 80, 41-48.	2.0	2
83	Partial molar volumes of organic solutes in water. XXIX. Four 2-alkoxyethanols at temperatures Tâ€=â€(298â€K to 573)â€K and pressures up to 30â€MPa. Journal of Chemical Thermodynamics, 2018, 125, 240-249.	2.0	2
84	Calculation of Orthobaric Densities from Equations of State. Collection of Czechoslovak Chemical Communications, 1999, 64, 1087-1092.	1.0	2
85	Parameters of the Bender Equation of State for Chloro Derivatives of Methane and Chlorobenzene. Collection of Czechoslovak Chemical Communications, 2001, 66, 833-854.	1.0	1
86	State Behavior Database for Pure Liquids and Data Correlation. International Journal of Thermophysics, 2004, 25, 361-369.	2.1	1
87	Partial Molar Volumes and Partial Molar Isentropic Compressions of Selected Branched Diols at Infinite Dilution in Water at Temperatures <i>T</i> = (278 to 318) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2013, 58, 2487-2495.	1.9	1
88	Partial molar volumes of organic solutes in water. XXV. Branched aliphatic diols at temperatures (298) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.0	1
89	Partial molar volumes of organic solutes in water. XXX. Two poly(ethylene glycol) monoalkyl ethers, C4E2 and C1E3, at temperatures Tâ€=â€298â€K to 573â€K and pressures up to 30â€MPa. Journal of Chemical Thermodynamics, 2019, 139, 105874.	2.0	1
90	Excess volumes and excess enthalpies of the mixtures tetrachloromethane + cycloalkane and trichloromethane + cycloalkane: Calculation in terms of equations of state of the van der Waals type. Collection of Czechoslovak Chemical Communications, 1984, 49, 2446-2457.	1.0	0

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91	Partial Molar Volumes of Phenylacetic Acid and Several Polysubstituted Benzenes at Infinite Dilution in Water at Temperatures T = 298 to 373 K and at Pressures up to 30 MPa. Journal of Solution Chemistry, 2006, 35, 1029-1036.	1.2	0
92	Partial Molar Volumes and Partial Molar Isentropic Compressions of Two Poly(ethylene glycol) Monoalkyl Ethers, C4E2 and C1E3, at Infinite Dilution in Water at Temperatures T = 278â€"343 K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2020, 65, 3037-3043.	1.9	0
93	Evaluation of Liquid PVT Data. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2003, 13, 173-175.	0.0	0