

William E Acree

List of Publications by Year in descending order

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913
papers

20,715
citations

16451

64
h-index

34986

98
g-index

925
all docs

925
docs citations

925
times ranked

6127
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical representation of thermodynamic properties. <i>Thermochimica Acta</i> , 1992, 198, 71-79.	2.7	533
2	Enthalpies of Sublimation of Organic and Organometallic Compounds. 1910–2001. <i>Journal of Physical and Chemical Reference Data</i> , 2002, 31, 537-698.	4.2	505
3	Enthalpies of Vaporization of Organic and Organometallic Compounds, 1880–2002. <i>Journal of Physical and Chemical Reference Data</i> , 2003, 32, 519-878.	4.2	485
4	Mathematical derivation of the Jouyban-Acree model to represent solute solubility data in mixed solvents at various temperatures. <i>Journal of Molecular Liquids</i> , 2018, 256, 541-547.	4.9	269
5	Prediction of Solubility of Drugs and Other Compounds in Organic Solvents. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 1500-1515.	3.3	266
6	Improvement of Quality in Publication of Experimental Thermophysical Property Data: Challenges, Assessment Tools, Global Implementation, and Online Support. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 2699-2716.	1.9	236
7	Thermodynamic properties of non-electrolyte solutions. <i>Thermochimica Acta</i> , 1991, 178, 151-167.	2.7	234
8	Solubility of Carvedilol in Ethanol + Propylene Glycol Mixtures at Various Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16630-16636.	3.7	209
9	Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds. Sublimation, Vaporization and Fusion Enthalpies From 1880 to 2010. <i>Journal of Physical and Chemical Reference Data</i> , 2010, 39, .	4.2	207
10	Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds. Sublimation, Vaporization and Fusion Enthalpies From 1880 to 2015. Part 1. C ₁ –C ₁₀ . <i>Journal of Physical and Chemical Reference Data</i> , 2016, 45, 033101.	4.2	191
11	Some Novel Liquid Partitioning Systems: Water/Ionic Liquids and Aqueous Biphasic Systems. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 413-418.	3.7	186
12	Thermodynamic properties of organic compounds: enthalpy of fusion and melting point temperature compilation. <i>Thermochimica Acta</i> , 1991, 189, 37-56.	2.7	173
13	Mathematical Representation of Thermodynamic Properties. Carbazole Solubilities in Binary Alkane + Dibutyl Ether and Alkane + Tetrahydropyran Solvent Mixtures. <i>Physics and Chemistry of Liquids</i> , 1991, 23, 27-35.	1.2	168
14	Partition Coefficients of Organic Compounds in New Imidazolium and Tetralkylammonium Based Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 234-242.	1.9	148
15	Modeling the solubility and preferential solvation of gallic acid in cosolvent + water mixtures. <i>Journal of Molecular Liquids</i> , 2016, 224, 502-506.	4.9	138
16	A data base for partition of volatile organic compounds and drugs from blood/plasma/serum to brain, and an LFER analysis of the data. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 2091-2100.	3.3	131
17	Comparative analysis of solvation and selectivity in room temperature ionic liquids using the Abraham linear free energy relationship. <i>Green Chemistry</i> , 2006, 8, 906.	9.0	130
18	Estimating Solid–Liquid Phase Change Enthalpies and Entropies. <i>Journal of Physical and Chemical Reference Data</i> , 1999, 28, 1535-1673.	4.2	128

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19	Equations for the Transfer of Neutral Molecules and Ionic Species from Water to Organic phases. <i>Journal of Organic Chemistry</i> , 2010, 75, 1006-1015.	3.2	121
20	Enthalpy of Solvation Correlations for Gaseous Solutes Dissolved in Water and in 1-Octanol Based on the Abraham Model. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 115-121.	5.4	107
21	Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds and Ionic Liquids. Sublimation, Vaporization, and Fusion Enthalpies from 1880 to 2015. Part 2. C11â€“C192. <i>Journal of Physical and Chemical Reference Data</i> , 2017, 46, .	4.2	103
22	Solubility predictions for crystalline polycyclic aromatic hydrocarbons (PAHs) dissolved in organic solvents based upon the Abraham general solvation model. <i>Fluid Phase Equilibria</i> , 2002, 201, 245-258.	2.5	99
23	Activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid 1-ethyl-3-methylimidazolium tetracyanoborate. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1050-1057.	2.0	99
24	The analysis of solvation in ionic liquids and organic solvents using the Abraham linear free energy relationship. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1441-1446.	3.2	98
25	A General Treatment of Solubility. 1. The QSPR Correlation of Solvation Free Energies of Single Solutes in Series of Solvents. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1794-1805.	2.8	97
26	Characterization of the sorption of gaseous and organic solutes onto polydimethyl siloxane solid-phase microextraction surfaces using the Abraham model. <i>Journal of Chromatography A</i> , 2007, 1175, 162-173.	3.7	97
27	Chemical Toxicity Correlations for Several Fish Species Based on the Abraham Solvation Parameter Model. <i>Chemical Research in Toxicology</i> , 2005, 18, 1497-1505.	3.3	94
28	Solubility of Chlordiazepoxide, Diazepam, and Lorazepam in Ethanol + Water Mixtures at 303.2 K. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 2142-2145.	1.9	94
29	Pharmaceuticals Solubility is Still Nowadays Widely Studied Everywhere. <i>Pharmaceutical Sciences</i> , 2017, 23, 1-2.	0.2	91
30	Study of Ether-, Alcohol-, or Cyano-Functionalized Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 2434-2443.	1.9	88
31	Solution thermodynamics and preferential solvation of sulfamethazine in (methanol + water) mixtures. <i>Journal of Chemical Thermodynamics</i> , 2016, 97, 264-276.	2.0	87
32	LFER correlations for room temperature ionic liquids: Separation of equation coefficients into individual cation-specific and anion-specific contributions. <i>Fluid Phase Equilibria</i> , 2008, 265, 104-111.	2.5	84
33	Title is missing!. <i>Journal of Solution Chemistry</i> , 2002, 31, 293-303.	1.2	83
34	Partition of solutes into wet and dry ethers; an LFER analysis Electronic supplementary information (ESI) available: tables of solute descriptors and log P values. Values of log Kw and L. See http://www.rsc.org/suppdata/nj/b3/b303016d/ . <i>New Journal of Chemistry</i> , 2003, 27, 1041.	2.8	83
35	Activity Coefficients at Infinite Dilution of Organic Compounds in Trihexyl(tetradecyl)phosphonium Bis(trifluoromethylsulfonyl)imide Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 977-985.	1.9	83
36	An NMR Method for the Quantitative Assessment of Intramolecular Hydrogen Bonding: Application to Physicochemical, Environmental, and Biochemical Properties. <i>Journal of Organic Chemistry</i> , 2014, 79, 11075-11083.	3.2	83

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37	Experimental artifacts and determination of accurate Py values. <i>Analyst, The</i> , 1986, 111, 1197.	3.5	82
38	Solvation descriptors for ferrocene, and the estimation of some physicochemical and biochemical properties. <i>New Journal of Chemistry</i> , 2000, 24, 825-829.	2.8	81
39	Activity Coefficients at Infinite Dilution of Organic Compounds in Four New Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3106-3114.	1.9	81
40	Correlation of blood-brain penetration using structural descriptors. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 4888-4917.	3.0	80
41	Preferential solvation of etoricoxib in some aqueous binary cosolvent mixtures at 298.15 K. <i>Physics and Chemistry of Liquids</i> , 2017, 55, 291-303.	1.2	80
42	Solvation descriptors for pesticides from the solubility of solids: diuron as an example. <i>Pest Management Science</i> , 2000, 56, 1043-1053.	3.4	79
43	Characterization of Room-Temperature Ionic Liquids by the Abraham Model with Cation-Specific and Anion-Specific Equation Coefficients. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 1123-1129.	5.4	79
44	Partition of solutes from the gas phase and from water to wet and dry di-n-butyl ether: a linear free energy relationship analysis. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3732-3736.	2.8	78
45	Descriptors for solutes from the solubility of solids: trans-stilbene as an example. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 2677-2682.	0.9	77
46	Thermodynamics and activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid 1-butyl-1-methylpyrrolidinium tetracyanoborate. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1810-1817.	2.0	77
47	The partition of compounds from water and from air into wet and dry ketones. <i>New Journal of Chemistry</i> , 2009, 33, 568-573.	2.8	74
48	The solubility of gases and vapours in dry octan-1-ol at 298 K. <i>Chemosphere</i> , 2001, 44, 855-863.	8.2	73
49	Air to Blood Distribution of Volatile Organic Compounds: A Linear Free Energy Analysis. <i>Chemical Research in Toxicology</i> , 2005, 18, 904-911.	3.3	73
50	Partition of compounds from gas to water and from gas to physiological saline at 310K: Linear free energy relationships. <i>Fluid Phase Equilibria</i> , 2007, 251, 93-109.	2.5	73
51	The transfer of neutral molecules, ions and ionic species from water to wet octanol. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13182.	2.8	73
52	Activity Coefficients at Infinite Dilution for Organic Compounds Dissolved in 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Having Six-, Eight-, and Ten-Carbon Alkyl Chains. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 3510-3518.	1.9	73
53	The transfer of neutral molecules, ions and ionic species from water to ethylene glycol and to propylene carbonate; descriptors for pyridinium cations. <i>New Journal of Chemistry</i> , 2010, 34, 2298.	2.8	72
54	Activity Coefficients at Infinite Dilution for Organic Solutes Dissolved in Three 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Bearing Short Linear Alkyl Side Chains of Three to Five Carbons. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 2210-2218.	1.9	72

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55	Thermochemical investigations of nearly ideal binary solvents. 3. Solubility in systems of nonspecific interactions. <i>The Journal of Physical Chemistry</i> , 1977, 81, 1170-1173.	2.9	70
56	Linear Free Energy Relationship Correlations for Room Temperature Ionic Liquids: Revised Cation-Specific and Anion-Specific Equation Coefficients for Predictive Applications Covering a Much Larger Area of Chemical Space. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 4145-4154.	3.7	69
57	Solubility and preferential solvation of some n-alkyl-parabens in methanol+water mixtures at 298.15K. <i>Journal of Chemical Thermodynamics</i> , 2017, 108, 26-37.	2.0	68
58	Solubility in Binary Solvent Systems III: Predictive Expressions Based on Molecular Surface Areas. <i>Journal of Pharmaceutical Sciences</i> , 1983, 72, 292-296.	3.3	67
59	Solubility of 9-fluorenone, thianthrene and xanthene in organic solvents. <i>Fluid Phase Equilibria</i> , 2005, 232, 113-121.	2.5	67
60	Solubility of phenobarbital in aqueous cosolvent mixtures revisited: IKBI preferential solvation analysis. <i>Physics and Chemistry of Liquids</i> , 2017, 55, 432-443.	1.2	66
61	Fluorescence Emission Properties of Polycyclic Aromatic Compounds in Review. <i>Polycyclic Aromatic Compounds</i> , 1991, 2, 75-105.	2.6	65
62	Solubility predictions for crystalline nonelectrolyte solutes dissolved in organic solvents based upon the Abraham general solvation model. <i>Canadian Journal of Chemistry</i> , 2001, 79, 1466-1476.	1.1	65
63	Air to liver partition coefficients for volatile organic compounds and blood to liver partition coefficients for volatile organic compounds and drugs. <i>European Journal of Medicinal Chemistry</i> , 2007, 42, 743-751.	5.5	65
64	The Solvation Properties of the Aliphatic Alcohols. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 1748-1760.	1.0	64
65	Correlation and prediction of the solubility of Buckminsterfullerene in organic solvents; estimation of some physicochemical properties. <i>Perkin Transactions II RSC</i> , 2000, , 281-286.	1.1	64
66	Solubility of crystalline nonelectrolyte solutes in organic solvents: mathematical correlation of 4-chloro-3-nitrobenzoic acid and 2-chloro-5-nitrobenzoic acid solubilities with the Abraham solvation parameter model. <i>Physics and Chemistry of Liquids</i> , 2005, 43, 351-360.	1.2	64
67	Correlation and prediction of partition coefficient between the gas phase and water, and the solvents dry methyl acetate, dry and wet ethyl acetate, and dry and wet butyl acetate. <i>Fluid Phase Equilibria</i> , 2008, 270, 30-44.	2.5	64
68	Solute Descriptors for Phenoxide Anions and Their Use To Establish Correlations of Rates of Reaction of Anions with Iodomethane. <i>Journal of Organic Chemistry</i> , 2010, 75, 3021-3026.	3.2	64
69	Py and BPe solvent polarity scales: effect of temperature on pyrene and benzo[ghi]perylene fluorescence spectra. <i>Analyst</i> , 1988, 113, 1465.	3.5	63
70	Air to Muscle and Blood/Plasma to Muscle Distribution of Volatile Organic Compounds and Drugs: Linear Free Energy Analyses. <i>Chemical Research in Toxicology</i> , 2006, 19, 801-808.	3.3	63
71	Partition of compounds from water and from air into amides. <i>New Journal of Chemistry</i> , 2009, 33, 2034.	2.8	60
72	Thermochemical excess properties of multicomponent systems: Representation and estimation from binary mixing data. <i>Journal of Solution Chemistry</i> , 1983, 12, 327-346.	1.2	59

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73	Air to brain, blood to brain and plasma to brain distribution of volatile organic compounds: linear free energy analyses. <i>European Journal of Medicinal Chemistry</i> , 2006, 41, 494-502.	5.5	58
74	Descriptors for ions and ion-pairs for use in linear free energy relationships. <i>Journal of Chromatography A</i> , 2016, 1430, 2-14.	3.7	58
75	Solubility of Acetaminophen and Ibuprofen in the Mixtures of Polyethylene Glycol 200 or 400 with Ethanol and Water and the Density of Solute-Free Mixed Solvents at 298.2 K. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 5252-5257.	1.9	57
76	Solubility of Crystalline Nonelectrolyte Solutes in Organic Solvents: Mathematical Correlation of Acetylsalicylic Acid Solubilities with the Abraham General Solvation Model. <i>Journal of Solution Chemistry</i> , 2003, 32, 1087-1102.	1.2	56
77	Solubility prediction of polycyclic aromatic hydrocarbons in non-aqueous solvent mixtures. <i>Fluid Phase Equilibria</i> , 2010, 293, 47-58.	2.5	56
78	Solubility of gases and vapours in propan-1-ol at 298 K. <i>Journal of Physical Organic Chemistry</i> , 1999, 12, 675-680.	1.9	55
79	Solubility of naproxen in ethyl acetate+ethanol mixtures at several temperatures and correlation with the Jouyban-Acree model. <i>Fluid Phase Equilibria</i> , 2012, 320, 49-55.	2.5	55
80	Partition Coefficients of Organic Compounds in Four New Tetraalkylammonium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3688-3697.	1.9	54
81	Solubility Prediction of Drugs in Mixed Solvents Using Partial Solubility Parameters. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 4368-4382.	3.3	53
82	Solubility in Binary Solvent Systems I: Specific versus Nonspecific Interactions. <i>Journal of Pharmaceutical Sciences</i> , 1982, 71, 201-205.	3.3	52
83	Air to lung partition coefficients for volatile organic compounds and blood to lung partition coefficients for volatile organic compounds and drugs. <i>European Journal of Medicinal Chemistry</i> , 2008, 43, 478-485.	5.5	51
84	Development of Abraham model correlations for solvation characteristics of linear alcohols. <i>Fluid Phase Equilibria</i> , 2009, 286, 170-174.	2.5	51
85	Thermochemical behavior of dissolved carboxylic acid solutes: Solubilities of 3-methylbenzoic acid and 4-chlorobenzoic acid in organic solvents. <i>Canadian Journal of Chemistry</i> , 2003, 81, 1492-1501.	1.1	49
86	Thermochemical behavior of dissolved carboxylic acid solutes: part 4 – mathematical correlation of 4-nitrobenzoic acid solubilities with the abraham solvation parameter model. <i>Physics and Chemistry of Liquids</i> , 2004, 42, 339-347.	1.2	49
87	Correlation and prediction of solute transfer to chloroalkanes from both water and the gas phase. <i>Fluid Phase Equilibria</i> , 2009, 281, 144-162.	2.5	49
88	Partition Coefficients and Solubilities of Compounds in the Water-Ethanol Solvent System. <i>Journal of Solution Chemistry</i> , 2011, 40, 1279-1290.	1.2	49
89	Abraham model correlations for describing solute transfer into diisopropyl ether. <i>Physics and Chemistry of Liquids</i> , 2015, 53, 25-37.	1.2	49
90	Solubility Prediction of Drugs in Binary Solvent Mixtures at Various Temperatures Using a Minimum Number of Experimental Data Points. <i>AAPS PharmSciTech</i> , 2019, 20, 10.	3.3	48

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91	Thermochemical Investigations of Associated Solutions. 3. Effect of the Inert Cosolvent on Solute-Solvent Association Constants Calculated from Solubility Measurements. <i>Physics and Chemistry of Liquids</i> , 1987, 17, 123-138.	1.2	47
92	Polycyclic Aromatic Hydrocarbon Solute Probes: Effect of Solvent Polarity on the Ovalene and Benzo[ghi]perylene Fluorescence Emission Fine Structures. <i>Applied Spectroscopy</i> , 1988, 42, 1525-1531.	2.2	47
93	Thermochemical behavior of dissolved Carboxylic Acid solutes: Part 3 – Mathematical Correlation of 2-Methylbenzoic acid solubilities with the Abraham Solvation Parameter Model. <i>Physics and Chemistry of Liquids</i> , 2004, 42, 313-322.	1.2	47
94	Correlation of the toxicity of organic compounds to tadpoles using the Abraham model. <i>Science of the Total Environment</i> , 2006, 371, 99-109.	8.0	47
95	Mathematical correlation of 1-chloroanthraquinone solubilities in organic solvents with the Abraham solvation parameter model. <i>Physics and Chemistry of Liquids</i> , 2006, 44, 377-386.	1.2	47
96	Thermochemical Investigations of Nearly Ideal Binary Solvents VII: Monomer and Dimer Models for Solubility of Benzoic Acid in Simple Binary and Ternary Solvents. <i>Journal of Pharmaceutical Sciences</i> , 1981, 70, 1033-1036.	3.3	46
97	Modeling acid dissociation constant of analytes in binary solvents at various temperatures using Jouyban-Acree model. <i>Thermochimica Acta</i> , 2005, 428, 119-123.	2.7	46
98	Development of Abraham model correlations for solvation characteristics of secondary and branched alcohols. <i>Fluid Phase Equilibria</i> , 2010, 288, 121-127.	2.5	46
99	Activity coefficients at infinite dilution for organic solutes dissolved in two 1-alkylquinuclidinium bis(trifluoromethylsulfonyl)imides bearing alkyl side chains of six and eight carbons. <i>Journal of Molecular Liquids</i> , 2016, 215, 176-184.	4.9	46
100	Correlation and prediction of partition coefficients between the gas phase and water, and the solvents dodecane and undecane. <i>New Journal of Chemistry</i> , 2004, 28, 1538.	2.8	45
101	Correlations for describing gas-to-ionic liquid partitioning at 323K based on ion-specific equation coefficient and group contribution versions of the Abraham model. <i>Fluid Phase Equilibria</i> , 2011, 301, 257-266.	2.5	45
102	Abraham model correlations for solute transfer into tributyl phosphate from both water and the gas phase. <i>Physics and Chemistry of Liquids</i> , 2015, 53, 10-24.	1.2	45
103	A General Treatment of Solubility. 2. QSPR Prediction of Free Energies of Solvation of Specified Solutes in Ranges of Solvents. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1806-1814.	2.8	44
104	Enthalpy of solvation correlations for gaseous solutes dissolved in dimethyl sulfoxide and propylene carbonate based on the Abraham model. <i>Thermochimica Acta</i> , 2007, 459, 17-25.	2.7	44
105	Correlation and Prediction of Partition Coefficients From the Gas Phase and from Water to Alkan-1-ols. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 3990-3995.	3.7	44
106	Equilibrium solubility, Hansen solubility parameter, dissolution thermodynamics, transfer property and preferential solvation of zonisamide in aqueous binary mixtures of ethanol, acetonitrile, isopropanol and N,N-dimethylformamide. <i>Journal of Molecular Liquids</i> , 2021, 326, 115219.	4.9	44
107	Further Numerical Analyses on the Solubility of Sulfapyridine in Ethanol + Water Mixtures. <i>Pharmaceutical Sciences</i> , 2016, 22, 143-152.	0.2	44
108	Polycyclic aromatic hydrocarbon solute probes. Part II. Effect of solvent polarity on the fluorescence emission fine structures of coronene derivatives. <i>Analyst</i> , 1989, 114, 195.	3.5	43

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109	Spectroscopic Investigation of Fluorescence Quenching Agents. Part II: Effect of Nitromethane on the Fluorescence Emission Behavior of Thirty-Six Alternant Benzenoid Polycyclic Aromatic Hydrocarbons. <i>Applied Spectroscopy</i> , 1992, 46, 1260-1265.	2.2	43
110	Solubility of crystalline nonelectrolyte solutes in organic solvents \hat{A} — Mathematical correlation of 2-methoxybenzoic acid and 4-methoxybenzoic acid solubilities with the Abraham solvation parameter model. <i>Canadian Journal of Chemistry</i> , 2004, 82, 1353-1360.	1.1	43
111	Chemical toxicity correlations for several protozoas, bacteria, and water fleas based on the Abraham solvation parameter model. <i>Journal of Environmental Engineering and Science</i> , 2007, 6, 165-174.	0.8	43
112	Solubility of Lamotrigine, Diazepam, Clonazepam, and Phenobarbital in Propylene Glycol + Water Mixtures at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 1153-1157.	1.9	43
113	Solubility of Budesonide, Hydrocortisone, and Prednisolone in Ethanol + Water Mixtures at 298.2 K. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 578-582.	1.9	43
114	Polycyclic Aromatic Hydrocarbon Solute Probes. Part IV: Effect of Solvent Polarity on the Fluorescence Emission Fine Structures of Select Pyrene and Pentaphene Derivatives. <i>Applied Spectroscopy</i> , 1989, 43, 845-850.	2.2	42
115	Spectroscopic Properties of Polycyclic Aromatic Hydrocarbons: Effect of Solvent Polarity on the Fluorescence Emission Behavior of Select Fluoranthene, Fluorenchrysene, Indenochrysene, and Indenopyrene Derivatives. <i>Applied Spectroscopy</i> , 1991, 45, 1699-1705.	2.2	42
116	Enthalpy of Solvation Correlations for Gaseous Solutes Dissolved in Toluene and Carbon Tetrachloride Based on the Abraham Model. <i>Journal of Solution Chemistry</i> , 2007, 36, 947-966.	1.2	42
117	Solubility of Lamotrigine, Diazepam, and Clonazepam in Ethanol + Water Mixtures at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 1107-1109.	1.9	42
118	Thermochemical investigations of solute transfer into ionic liquid solvents: updated Abraham model equation coefficients for solute activity coefficient and partition coefficient predictions. <i>Physics and Chemistry of Liquids</i> , 2014, 52, 488-518.	1.2	42
119	Ion-specific equation coefficient version of the Abraham model for ionic liquid solvents: determination of coefficients for tributylethylphosphonium, 1-butyl-1-methylmorpholinium, 1-allyl-3-methylimidazolium and octyltriethylammonium cations. <i>Physics and Chemistry of Liquids</i> , 2017, 55, 358-385.	1.2	42
120	Calculation of Five Thermodynamic Molecular Descriptors by Means of a General Computer Algorithm Based on the Group-Additivity Method: Standard Enthalpies of Vaporization, Sublimation and Solvation, and Entropy of Fusion of Ordinary Organic Molecules and Total Phase-Change Entropy of Liquid Crystals. <i>Molecules</i> , 2017, 22, 1059.	3.8	42
121	Solubility of pyrene in binary solvent mixtures containing cyclohexane. <i>Journal of Chemical & Engineering Data</i> , 1987, 32, 60-62.	1.9	41
122	Solubility of trans-stilbene in organic nonelectrolyte solvents. Comparison of observed versus predicted values based upon mobile order theory. <i>Canadian Journal of Chemistry</i> , 1997, 75, 258-261.	1.1	41
123	Solubility Prediction of Anthracene in Mixed Solvents Using a Minimum Number of Experimental Data.. <i>Chemical and Pharmaceutical Bulletin</i> , 2002, 50, 21-25.	1.3	41
124	Generally trained models to predict solubility of drugs in carbitol + water mixtures at various temperatures. <i>Journal of Molecular Liquids</i> , 2016, 219, 435-438.	4.9	41
125	Thermochemical investigations of hydrogen-bonded solutions: development of a predictive equation for the solubility of anthracene in binary hydrocarbon. <i>Fluid Phase Equilibria</i> , 1994, 92, 233-253.	2.5	40
126	QSAR modeling of blood:air and tissue:air partition coefficients using theoretical descriptors. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 6450-6463.	3.0	40

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127	Abraham model correlations for solute transfer into 2-methoxyethanol from water and from the gas phase. <i>Journal of Molecular Liquids</i> , 2015, 209, 738-744.	4.9	40
128	Predicting Abraham model solvent coefficients. <i>Chemistry Central Journal</i> , 2015, 9, 12.	2.6	40
129	Gas-solvent and water-solvent partition of trans -stilbene at 298 K. <i>Journal of Molecular Liquids</i> , 2017, 238, 58-61.	4.9	40
130	Dissolution thermodynamics and preferential solvation of ketoconazole in some {ethanol (1) + water (2)} mixtures. <i>Journal of Molecular Liquids</i> , 2020, 313, 113579.	4.9	40
131	Thermochemical Investigations of Associated Solutions: Calculation of Solute-Solvent Equilibrium Constants from Solubility Measurements. <i>Journal of Pharmaceutical Sciences</i> , 1983, 72, 929-934.	3.3	39
132	Thermochemical Investigations of Associated Solutions: 4. Calculation of Carbazole-Dibutyl Ether Association Constants from Measured Solubility in Binary Solvent Mixtures. <i>Journal of Pharmaceutical Sciences</i> , 1987, 76, 572-574.	3.3	39
133	Mathematical correlation of salicylamide solubilities in organic solvents with the Abraham solvation parameter model. <i>Physics and Chemistry of Liquids</i> , 2007, 45, 389-398.	1.2	39
134	Abraham Model Correlations for Transfer of Neutral Molecules to Tetrahydrofuran and to 1,4-Dioxane, and for Transfer of Ions to Tetrahydrofuran. <i>Journal of Solution Chemistry</i> , 2011, 40, 2082-2094.	1.2	39
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