Michael H Abraham

List of Publications by Year
in descending order

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431	29,403	8732 75	7333 152
papers	citations	h-index	g-index

435	435	435	11552
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Linear solvation energy relationships. 23. A comprehensive collection of the solvatochromic parameters, .pi.*, .alpha., and .beta., and some methods for simplifying the generalized solvatochromic equation. Journal of Organic Chemistry, 1983, 48, 2877-2887.	1.7	3,340
2	Scales of solute hydrogen-bonding: their construction and application to physicochemical and biochemical processes. Chemical Society Reviews, 1993, 22, 73.	18.7	1,969
3	Determination of sets of solute descriptors from chromatographic measurements. Journal of Chromatography A, 2004, 1037, 29-47.	1.8	835
4	Hydrogen Bonding. 32. An Analysis of Water-Octanol and Water-Alkane Partitioning and the Î”log P Parameter of Seiler. Journal of Pharmaceutical Sciences, 1994, 83, 1085-1100.	1.6	694
5	Rate-limited steps of human oral absorption and QSAR studies. Pharmaceutical Research, 2002, 19, 1446-1457.	1.7	576
6	Linear solvation energy relations. Journal of Solution Chemistry, 1985, 14, 153-186.	0.6	515
7	Linear solvation energy relationship. 46. An improved equation for correlation and prediction of octanol/water partition coefficients of organic nonelectrolytes (including strong hydrogen bond) Tj ETQq1 1 0.784314 rgBT /Overlock	2.5	494
8	Evaluation of human intestinal absorption data and subsequent derivation of a quantitative structureâ€“activity relationship (QSAR) with the Abraham descriptors. Journal of Pharmaceutical Sciences, 2001, 90, 749-784.	1.6	436
9	Hydrogen bonding. Part 34. The factors that influence the solubility of gases and vapours in water at 298 K, and a new method for its determination. Journal of the Chemical Society Perkin Transactions II, 1994, , 1777.	0.9	425
10	Estimation of Molecular Linear Free Energy Relation Descriptors Using a Group Contribution Approach. Journal of Chemical Information and Computer Sciences, 1999, 39, 835-845.	2.8	410
11	Classification of stationary phases and other materials by gas chromatography. Journal of Chromatography A, 1999, 842, 79-114.	1.8	351
12	Hydrogen bonding. Part 10. A scale of solute hydrogen-bond basicity using log K values for complexation in tetrachloromethane. Journal of the Chemical Society Perkin Transactions II, 1990, , 521.	0.9	349
13	Hydrogen bonding. 31. Construction of a scale of solute effective or summation hydrogen-bond basicity. Journal of Physical Organic Chemistry, 1993, 6, 660-684.	0.9	338
14	Hydrogen bonding. Part 7. A scale of solute hydrogen-bond acidity based on log K values for complexation in tetrachloromethane. Journal of the Chemical Society Perkin Transactions II, 1989, , 699.	0.9	327
15	Solvent effects in organic chemistry â€” recent developments. Canadian Journal of Chemistry, 1988, 66, 2673-2686.	0.6	272
16	Hydrogen Bonding. 33. Factors That Influence the Distribution of Solutes between Blood and Brain. Journal of Pharmaceutical Sciences, 1994, 83, 1257-1268.	1.6	272
17	Hydrogen bonding. Journal of Chromatography A, 1991, 587, 213-228.	1.8	267
18	Prediction of Solubility of Drugs and Other Compounds in Organic Solvents. Journal of Pharmaceutical Sciences, 2010, 99, 1500-1515.	1.6	266

#	Article	IF	Citations
19	The correlation and prediction of the solubility of compounds in water using an amended solvation energy relationship. Journal of Pharmaceutical Sciences, 1999, 88, 868-880.	1.6	262
20	Hydrogen bonding. Part 13. A new method for the characterisation of GLC stationary phasesâ€"the laffort data set. Journal of the Chemical Society Perkin Transactions II, 1990, , 1451-1460.	0.9	244
21	Hydrogen Bond Structural Group Constants. Journal of Organic Chemistry, 2001, 66, 3484-3491.	1.7	230
22	Study of retention in reversed-phase liquid chromatography using linear solvation energy relationships I. The stationary phase. Journal of Chromatography A, 1996, 752, 1-18.	1.8	200
23	Correlation and prediction of a large bloodâ€"brain distribution data setâ€"an LFER study. European Journal of Medicinal Chemistry, 2001, 36, 719-730.	2.6	200
24	Some Novel Liquid Partitioning Systems:Â Waterâ^'Ionic Liquids and Aqueous Biphasic Systems. Industrial & Engineering Chemistry Research, 2003, 42, 413-418.	1.8	186
25	Human Skin Permeation and Partition: General Linear Freeâ€Energy Relationship Analyses. Journal of Pharmaceutical Sciences, 2004, 93, 1508-1523.	1.6	182
26	Determination of olive oilâ€"gas and hexadecaneâ€"gas partition coefficients, and calculation of the corresponding olive oilâ€"water and hexadecaneâ€"water partition coefficients. Journal of the Chemical Society Perkin Transactions II, 1987, , 797-803.	0.9	181
27	HYDROGEN BONDING. 42. CHARACTERIZATION OF REVERSED-PHASE HIGH-PERFORMANCE LIQUID CHROMATOGRAPHIC C18 STATIONARY PHASES. Journal of Physical Organic Chemistry, 1997, 10, 358-368.	0.9	173
28	The Factors that Influence Skin Penetration of Solutes. Journal of Pharmacy and Pharmacology, 2011, 47, 8-16.	1.2	166
29	Application of hydrogen bonding calculations in property based drug design. Drug Discovery Today, 2002, 7, 1056-1063.	3.2	163
30	Estimation of Molecular Linear Free Energy Relationship Descriptors by a Group Contribution Approach. 2. Prediction of Partition Coefficients. Journal of Chemical Information and Computer Sciences, 2000, 40, 71-80.	2.8	151
31	Thermodynamics of solution of homologous series of solutes in water. Journal of the Chemical Society Faraday Transactions I, 1984, 80, 153.	1.0	146
32	The factors that influence permeation across the bloodâ€"brain barrier. European Journal of Medicinal Chemistry, 2004, 39, 235-240.	2.6	143
33	Calculations on ionic solvation. Part 1.â€"Free energies of solvation of gaseous univalent ions using a one-layer continuum model. Journal of the Chemical Society Faraday Transactions I, 1978, 74, 1604.	1.0	139
34	Hydrogen bonding. 38. Effect of solute structure and mobile phase composition on reversed-phase high-performance liquid chromatographic capacity factors. Journal of Physical Organic Chemistry, 1994, 7, 672-684.	0.9	136
35	A data base for partition of volatile organic compounds and drugs from blood/plasma/serum to brain, and an LFER analysis of the data. Journal of Pharmaceutical Sciences, 2006, 95, 2091-2100.	1.6	131
36	Comparative analysis of solvation and selectivity in room temperature ionic liquids using the Abraham linear free energy relationship. Green Chemistry, 2006, 8, 906.	4.6	130

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37	On the Partition of Ampholytes: Application to Bloodâ€“Brain Distribution. Journal of Pharmaceutical Sciences, 1997, 86, 310-315.	1.6	128
38	Rapid Gradient RP-HPLC Method for Lipophilicity Determination:â€‰ A Solvation Equation Based Comparison with Isocratic Methods. Analytical Chemistry, 1998, 70, 4228-4234.	3.2	126
39	A general treatment of hydrogen bond complexation constants in tetrachloromethane. Journal of the American Chemical Society, 1988, 110, 8534-8536.	6.6	125
40	Hydrogen bonding. Journal of Chromatography A, 1993, 644, 95-139.	1.8	125
41	A Comparison between the Two General Sets of Linear Free Energy Descriptors of Abraham and Klamt. Journal of Chemical Information and Computer Sciences, 2002, 42, 1320-1331.	2.8	122
42	Predicting Penetration Across the Blood-Brain Barrier from Simple Descriptors and Fragmentation Schemes. Journal of Chemical Information and Modeling, 2007, 47, 170-175.	2.5	122
43	Molecular Factors Influencing Drug Transfer across the Blood-Brain Barrier. Journal of Pharmacy and Pharmacology, 2011, 49, 1211-1216.	1.2	122
44	Equations for the Transfer of Neutral Molecules and Ionic Species from Water to Organic phases. Journal of Organic Chemistry, 2010, 75, 1006-1015.	1.7	121
45	Nasal pungency and odor of homologous aldehydes and carboxylic acids. Experimental Brain Research, 1998, 118, 180-188.	0.7	118
46	Calculation of Abraham descriptors from solventâ€“water partition coefficients in four different systems; evaluation of different methods of calculation. Perkin Transactions II RSC, 2002, , 470-477.	1.1	117
47	Solubility of electrolytes in 1,2-dichloroethane and 1,1-dichloroethane, and derived free energies of transfer. Journal of the Chemical Society Faraday Transactions I, 1976, 72, 955.	1.0	113
48	Enthalpy of Solvation Correlations for Gaseous Solutes Dissolved in Water and in 1-Octanol Based on the Abraham Model. Journal of Chemical Information and Modeling, 2007, 47, 115-121.	2.5	107
49	Algorithms for Skin Permeability Using Hydrogen Bond Descriptors: the Problem of Steroids. Journal of Pharmacy and Pharmacology, 2011, 49, 858-865.	1.2	104
50	Linear free energy relationship analysis of microemulsion electrokinetic chromatographic determination of lipophilicity. Journal of Chromatography A, 1996, 752, 243-249.	1.8	102
51	Solubility predictions for crystalline polycyclic aromatic hydrocarbons (PAHs) dissolved in organic solvents based upon the Abraham general solvation model. Fluid Phase Equilibria, 2002, 201, 245-258.	1.4	99
52	The analysis of solvation in ionic liquids and organic solvents using the Abraham linear free energy relationship. Journal of Chemical Technology and Biotechnology, 2006, 81, 1441-1446.	1.6	98
53	Characterization of the sorption of gaseous and organic solutes onto polydimethyl siloxane solid-phase microextraction surfaces using the Abraham model. Journal of Chromatography A, 2007, 1175, 162-173.	1.8	97
54	Single-ion gibbs energies, enthalpies and entropies of transfer from water to aqueous methanol based on the (Ph4P+, Ph4As+)= Ph4Bâ€“ assumption. Journal of the Chemical Society Faraday Transactions I, 1984, 80, 489.	1.0	94

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55	Correlation and estimation of gasâ€“chloroform and waterâ€“chloroform partition coefficients by a linear free energy relationship method. Journal of Pharmaceutical Sciences, 1999, 88, 670-679.	1.6	94
56	Calculation of Abraham descriptors from experimental data from seven HPLC systems; evaluation of five different methods of calculationElectronic supplementary information (ESI) available: Tables S1 to S5. See http://www.rsc.org/suppdata/p2/b2/b206927j/. Perkin Transactions II RSC, 2002, , 2001-2010.	1.1	94
57	Chemical Toxicity Correlations for Several Fish Species Based on the Abraham Solvation Parameter Model. Chemical Research in Toxicology, 2005, 18, 1497-1505.	1.7	94
58	Hydrogen bonding. Part 40. Factors that influence the distribution of solutes between water and sodium dodecylsulfate micelles. Journal of the Chemical Society Perkin Transactions II, 1995, , 887.	0.9	93
59	Chromatographic Estimation of Drug Disposition Properties by Means of Immobilized Artificial Membranes (IAM) and C18 Columns. Journal of Medicinal Chemistry, 2006, 49, 4861-4870.	2.9	92
60	An algorithm for nasal pungency thresholds in man. Archives of Toxicology, 1998, 72, 227-232.	1.9	89
61	Hydrogen bonding part 46: a review of the correlation and prediction of transport properties by an lfer method: physicochemical properties, brain penetration and skin permeability. Pest Management Science, 1999, 55, 78-88.	0.7	89
62	Evaluation of rat intestinal absorption data and correlation with human intestinal absorption. European Journal of Medicinal Chemistry, 2003, 38, 233-243.	2.6	89
63	The molecular properties governing solubilities of organic nonelectrolytes in water. Nature, 1985, 313, 384-386.	13.7	86
64	A quantitative measure of solvent solvophobic effect. Journal of the Chemical Society Perkin Transactions II, 1988, , 339.	0.9	86
65	Factors that influence tadpole narcosis. An LFER analysis. Journal of the Chemical Society Perkin Transactions II, 1995, , 1843.	0.9	86
66	Soluteâ€“solvent interactions in micellar electrokinetic chromatography. Journal of Chromatography A, 2002, 942, 237-248.	1.8	85
67	Title is missing!. Journal of Solution Chemistry, 2002, 31, 293-303.	0.6	83
68	Partition of solutes into wet and dry ethers; an LFER analysisElectronic 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/. New Journal of Chemistry, 2003, 27, 1041.	1.4	83
69	Determination of Solvation Descriptors for Ionic Species:â€‰ Hydrogen Bond Acidity and Basicity. Journal of Organic Chemistry, 2004, 69, 4677-4685.	1.7	83
70	An NMR Method for the Quantitative Assessment of Intramolecular Hydrogen Bonding; Application to Physicochemical, Environmental, and Biochemical Properties. Journal of Organic Chemistry, 2014, 79, 11075-11083.	1.7	83
71	Solvation descriptors for ferrocene, and the estimation of some physicochemical and biochemical properties. New Journal of Chemistry, 2000, 24, 825-829.	1.4	81
72	Draize Rabbit Eye Test Compatibility with Eye Irritation Thresholds in Humans: A Quantitative Structure-Activity Relationship Analysis. Toxicological Sciences, 2003, 76, 384-391.	1.4	81

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73	NMR Method for the Determination of Solute Hydrogen Bond Acidity. Journal of Organic Chemistry, 2006, 71, 3389-3394.	1.7	81
74	Linear solvation energy relationships. Part 37. An analysis of contributions of dipolarityâ€“polarisability, nucleophilic assistance, electrophilic assistance, and cavity terms to solvent effects on t-butyl halide solvolysis rates. Journal of the Chemical Society Perkin Transactions II, 1987, , 913-920.	0.9	79
75	Solvation descriptors for pesticides from the solubility of solids: diuron as an example. Pest Management Science, 2000, 56, 1043-1053.	1.7	79
76	Characterization of Room-Temperature Ionic Liquids by the Abraham Model with Cation-Specific and Anion-Specific Equation Coefficients. Journal of Chemical Information and Modeling, 2007, 47, 1123-1129.	2.5	79
77	Hydrogen bonding. Journal of Chromatography A, 1992, 594, 229-241.	1.8	78
78	Partition of solutes from the gas phase and from water to wet and dry di-n-butyl ether: a linear free energy relationship analysis. Physical Chemistry Chemical Physics, 2001, 3, 3732-3736.	1.3	78
79	Calculations on ionic solvation. III. The electrostatic free energy of solvation of ions, using a multilayered continuum model. Journal of Chemical Physics, 1979, 70, 2491-2496.	1.2	77
80	Descriptors for solutes from the solubility of solids: trans-stilbene as an example. Journal of the Chemical Society Perkin Transactions II, 1998, , 2677-2682.	0.9	77
81	Human olfactory detection of homologous n-alcohols measured via concentrationâ€“response functions. Pharmacology Biochemistry and Behavior, 2008, 89, 279-291.	1.3	76
82	Partition of Volatile Organic Compounds from Air and from Water into Plant Cuticular Matrix:â€‰ An LFER Analysis. Environmental Science & Technology, 2000, 34, 318-323.	4.6	74
83	The partition of compounds from water and from air into wet and dry ketones. New Journal of Chemistry, 2009, 33, 568-573.	1.4	74
84	The solubility of gases and vapours in dry octan-1-ol at 298 K. Chemosphere, 2001, 44, 855-863.	4.2	73
85	Air to Blood Distribution of Volatile Organic Compounds:â€‰ A Linear Free Energy Analysis. Chemical Research in Toxicology, 2005, 18, 904-911.	1.7	73
86	Partition of compounds from gas to water and from gas to physiological saline at 310K: Linear free energy relationships. Fluid Phase Equilibria, 2007, 251, 93-109.	1.4	73
87	The transfer of neutral molecules, ions and ionic species from water to wet octanol. Physical Chemistry Chemical Physics, 2010, 12, 13182.	1.3	73
88	Method for Unknown Vapor Characterization and Classification Using a Multivariate Sorption Detector. Initial Derivation and Modeling Based on Polymer-Coated Acoustic Wave Sensor Arrays and Linear Solvation Energy Relationships. Analytical Chemistry, 1999, 71, 4544-4553.	3.2	72
89	The transfer of neutral molecules, ions and ionic species from water to ethylene glycol and to propylene carbonate; descriptors for pyridinium cations. New Journal of Chemistry, 2010, 34, 2298.	1.4	72
90	Linear solvation energy relationships. 29. Solution properties of some tetraalkylammonium halide ion pairs and dissociated ions. Journal of the American Chemical Society, 1985, 107, 3105-3110.	6.6	71

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91	On the mechanism of human intestinal absorption. European Journal of Medicinal Chemistry, 2002, 37, 595-605.	2.6	71
92	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. Industrial & Engineering Chemistry Research, 2009, 48, 4145-4154.	1.8	69
93	Free energies of solution of rare gases and alkanes in water and nonaqueous solvents. A quantitative assessment of the hydrophobic effect. Journal of the American Chemical Society, 1979, 101, 5477-5484.	6.6	68
94	Solubility properties in polymers and biological media. 2. The correlation and prediction of the solubilities of nonelectrolytes in biological tissues and fluids. Journal of Medicinal Chemistry, 1985, 28, 865-870.	2.9	67
95	Chemosensory Detectability of 1-Butanol and 2-Heptanone Singly and in Binary Mixtures. Physiology and Behavior, 1999, 67, 269-276.	1.0	67
96	Determination of McGowan Volumes for Ions and Correlation with van der Waals Volumes. Journal of Chemical Information and Computer Sciences, 2003, 43, 1848-1854.	2.8	67
97	Detection of single and mixed VOCs by smell and by sensory irritation. Indoor Air, 2004, 14, 108-117.	2.0	67
98	Solubility of 9-fluorenone, thianthrene and xanthene in organic solvents. Fluid Phase Equilibria, 2005, 232, 113-121.	1.4	67
99	Diffusion coefficients in ethanol and in water at 298K: Linear free energy relationships. Fluid Phase Equilibria, 2011, 303, 45-55.	1.4	67
100	Lipophilicity of the Nitrophenols. Journal of Organic Chemistry, 2000, 65, 7114-7118.	1.7	66
101	Hydrogen bonding. Part 45.â€ The solubility of gases and vapours in methanol at 298 K: an LFER analysis. Journal of the Chemical Society Perkin Transactions II, 1998, , 1385-1390.	0.9	65
102	Characterizing the Selectivity of Stationary Phases and Organic Modifiers in Reversed-Phase High-Performance Liquid Chromatographic Systems by a General Solvation Equation Using Gradient Elution. Journal of Chromatographic Science, 2000, 38, 503-511.	0.7	65
103	Solubility predictions for crystalline nonelectrolyte solutes dissolved in organic solvents based upon the Abraham general solvation model. Canadian Journal of Chemistry, 2001, 79, 1466-1476.	0.6	65
104	Air to liver partition coefficients for volatile organic compounds and blood to liver partition coefficients for volatile organic compounds and drugs. European Journal of Medicinal Chemistry, 2007, 42, 743-751.	2.6	65
105	The Solvation Properties of the Aliphatic Alcohols. Collection of Czechoslovak Chemical Communications, 1999, 64, 1748-1760.	1.0	64
106	Correlation and prediction of the solubility of Buckminsterfullerene in organic solvents; estimation of some physicochemical properties. Perkin Transactions II RSC, 2000, , 281-286.	1.1	64
107	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. Physics and Chemistry of Liquids, 2005, 43, 351-360.	0.4	64
108	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. Fluid Phase Equilibria, 2008, 270, 30-44.	1.4	64

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109	Solute Descriptors for Phenoxide Anions and Their Use To Establish Correlations of Rates of Reaction of Anions with Iodomethane. Journal of Organic Chemistry, 2010, 75, 3021-3026.	1.7	64
110	Soluteâ€“solvent interactions in micellar electrokinetic chromatography. Journal of Chromatography A, 1999, 845, 217-226.	1.8	63
111	Air to Muscle and Blood/Plasma to Muscle Distribution of Volatile Organic Compounds and Drugs:â€‰ Linear Free Energy Analyses. Chemical Research in Toxicology, 2006, 19, 801-808.	1.7	63
112	Hydrogen bonding. 39. The partition of solutes between water and various alcohols. Journal of Physical Organic Chemistry, 1994, 7, 712-716.	0.9	62
113	Solubility Properties in Biological Media. 12. Regarding the Mechanism of Nonspecific Toxicity or Narcosis by Organic Nonelectrolytes. QSAR and Combinatorial Science, 1988, 7, 71-78.	1.4	60
114	Partition of compounds from water and from air into amides. New Journal of Chemistry, 2009, 33, 2034.	1.4	60
115	An Algorithm for 353 Odor Detection Thresholds in Humans. Chemical Senses, 2012, 37, 207-218.	1.1	60
116	Linear solvation energy relationships. 15. Heterolytic decomposition of the tert-butyl halides. Journal of Organic Chemistry, 1981, 46, 3053-3056.	1.7	59
117	Hydrogen-bonding 8. Possible equivalence of solute and solvent scales of hydrogen-bond basicity of non-associated compounds. Journal of Physical Organic Chemistry, 1989, 2, 540-552.	0.9	59
118	Group Contribution and Machine Learning Approaches to Predict Abraham Solute Parameters, Solvation Free Energy, and Solvation Enthalpy. Journal of Chemical Information and Modeling, 2022, 62, 433-446.	2.5	59
119	Hydrogen bonding. 47. Characterization of the ethylene glycolâ€“heptane partition system: Hydrogen bond acidity and basicity of peptides. Journal of Pharmaceutical Sciences, 1999, 88, 241-247.	1.6	58
120	Air toÂbrain, blood toÂbrain andÂplasma toÂbrain distribution ofÂvolatile organic compounds: linear free energy analyses. European Journal of Medicinal Chemistry, 2006, 41, 494-502.	2.6	58
121	Descriptors for ions and ion-pairs for use in linear free energy relationships. Journal of Chromatography A, 2016, 1430, 2-14.	1.8	58
122	Air to fat and blood to fat distribution of volatile organic compounds and drugs: Linear free energy analyses. European Journal of Medicinal Chemistry, 2006, 41, 1430-1438.	2.6	57
123	Retention properties of a spacer-bonded propanediol sorbent for reversed-phase liquid chromatography and solid-phase extraction. Analyst, The, 1996, 121, 511.	1.7	56
124	Solubility of Crystalline Nonelectrolyte Solutes in Organic Solvents: Mathematical Correlation of Acetylsalicylic Acid Solubilities with the Abraham General Solvation Model. Journal of Solution Chemistry, 2003, 32, 1087-1102.	0.6	56
125	Octanol/Water Partition of Ionic Species, Including 544 Cations. Journal of Organic Chemistry, 2005, 70, 2633-2640.	1.7	56
126	Solubility of gases and vapours in propan-1-ol at 298 K. Journal of Physical Organic Chemistry, 1999, 12, 675-680.	0.9	55

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127	A Model for Odour Thresholds. Chemical Senses, 2002, 27, 95-104.	1.1	54
128	A Quantitative Structure Activity Analysis on the Relative Sensitivity of the Olfactory and the Nasal Trigeminal Chemosensory Systems. Chemical Senses, 2007, 32, 711-719.	1.1	54
129	The solubility of gases and vapours in ethanol - the connection between gaseous solubility and water-solvent partition. Canadian Journal of Chemistry, 1998, 76, 703-709.	0.6	53
130	Human Skin Permeation of Neutral Species and Ionic Species: Extended Linear Free Energy Relationship Analyses. Journal of Pharmaceutical Sciences, 2012, 101, 2034-2044.	1.6	53
131	Determinants for Nasal Trigeminal Detection of Volatile Organic Compounds. Chemical Senses, 2005, 30, 627-642.	1.1	52
132	Odor Detection by Humans of Lineal Aliphatic Aldehydes and Helional as Gauged by Doseâ€“Response Functions. Chemical Senses, 2010, 35, 289-299.	1.1	52
133	Air to lung partition coefficients for volatile organic compounds and blood to lung partition coefficients for volatile organic compounds and drugs. European Journal of Medicinal Chemistry, 2008, 43, 478-485.	2.6	51
134	Development of Abraham model correlations for solvation characteristics of linear alcohols. Fluid Phase Equilibria, 2009, 286, 170-174.	1.4	51
135	Hydrogen Bonding 12. A New QSAR for Upper Respiratory Tract Irritation by Airborne Chemicals in Mice. QSAR and Combinatorial Science, 1990, 9, 6-10.	1.4	49
136	Thermochemical behavior of dissolved carboxylic acid solutes: Solubilities of 3-methylbenzoic acid and 4-chlorobenzoic acid in organic solvents. Canadian Journal of Chemistry, 2003, 81, 1492-1501.	0.6	49
137	Thermochemical behavior of dissolved carboxylic acid solutes: part 4 â€“ mathematical correlation of 4-nitrobenzoic acid solubilities with the abraham solvation parameter model. Physics and Chemistry of Liquids, 2004, 42, 339-347.	0.4	49
138	Correlation and prediction of solute transfer to chloroalkanes from both water and the gas phase. Fluid Phase Equilibria, 2009, 281, 144-162.	1.4	49
139	Partition Coefficients and Solubilities of Compounds in the Waterâ€“Ethanol Solvent System. Journal of Solution Chemistry, 2011, 40, 1279-1290.	0.6	49
140	Abraham model correlations for describing solute transfer into diisopropyl ether. Physics and Chemistry of Liquids, 2015, 53, 25-37.	0.4	49
141	Hydrogen bonding. Part 25. The solvation properties of methylene iodide. Journal of the Chemical Society Perkin Transactions II, 1993, , 299-304.	0.9	48
142	Inverse Least-Squares Modeling of Vapor Descriptors Using Polymer-Coated Surface Acoustic Wave Sensor Array Responses. Analytical Chemistry, 2001, 73, 5247-5259.	3.2	48
143	The Permeation of Neutral Molecules, Ions, and Ionic Species Through Membranes: Brain Permeation as an Example. Journal of Pharmaceutical Sciences, 2011, 100, 1690-1701.	1.6	48
144	Substitution at saturated carbon. Part 26. A complete analysis of solvent effects on initial states and transition states for the solvolysis of the t-butyl halides in terms of G, H, and S using the unified method. Journal of the Chemical Society Perkin Transactions II, 1988, , 1717.	0.9	47

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145	Hydrogen-bonding. Part 6. A thermodynamically-based scale of solute hydrogen-bond basicity. Tetrahedron Letters, 1989, 30, 2571-2574.	0.7	47
146	Thermochemical behavior of dissolved Carboxylic Acid solutes: Part 3 â€“ Mathematical Correlation of 2-Methylbenzoic acid solubilities with the Abraham Solvation Parameter Model. Physics and Chemistry of Liquids, 2004, 42, 313-322.	0.4	47
147	Correlation of the toxicity of organic compounds to tadpoles using the Abraham model. Science of the Total Environment, 2006, 371, 99-109.	3.9	47
148	Mathematical correlation of 1-chloroanthraquinone solubilities in organic solvents with the Abraham solvation parameter model. Physics and Chemistry of Liquids, 2006, 44, 377-386.	0.4	47
149	Odor detection of single chemicals and binary mixtures. Behavioural Brain Research, 2005, 156, 115-123.	1.2	46
150	Development of Abraham model correlations for solvation characteristics of secondary and branched alcohols. Fluid Phase Equilibria, 2010, 288, 121-127.	1.4	46
151	Correlation and prediction of partition coefficients between the gas phase and water, and the solvents dodecane and undecane. New Journal of Chemistry, 2004, 28, 1538.	1.4	45
152	Correlations for describing gas-to-ionic liquid partitioning at 323K based on ion-specific equation coefficient and group contribution versions of the Abraham model. Fluid Phase Equilibria, 2011, 301, 257-266.	1.4	45
153	Abraham model correlations for solute transfer into tributyl phosphate from both water and the gas phase. Physics and Chemistry of Liquids, 2015, 53, 10-24.	0.4	45
154	Hydrogen bonding. Journal of Chromatography A, 1992, 627, 294-299.	1.8	44
155	Determination of solute descriptors of tripeptide derivatives based on high-throughput gradient high-performance liquid chromatography retention data. Journal of Chromatography A, 1998, 803, 51-60.	1.8	44
156	Solvation parameters for the 209 PCBs: calculation of physicochemical properties. Journal of Environmental Monitoring, 2005, 7, 295.	2.1	44
157	Enthalpy of solvation correlations for gaseous solutes dissolved in dimethyl sulfoxide and propylene carbonate based on the Abraham model. Thermochimica Acta, 2007, 459, 17-25.	1.2	44
158	Correlation and Prediction of Partition Coefficients From the Gas Phase and from Water to Alkan-1-ols. Industrial & Engineering Chemistry Research, 2008, 47, 3990-3995.	1.8	44
159	Solubility of crystalline nonelectrolyte solutes in organic solvents Â— Mathematical correlation of 2-methoxybenzoic acid and 4-methoxybenzoic acid solubilities with the Abraham solvation parameter model. Canadian Journal of Chemistry, 2004, 82, 1353-1360.	0.6	43
160	Chemical toxicity correlations for several protozoas, bacteria, and water fleas based on the Abraham solvation parameter model. Journal of Environmental Engineering and Science, 2007, 6, 165-174.	0.3	43
161	The effect of ionized species on microsomal binding. European Journal of Medicinal Chemistry, 2012, 47, 202-205.	2.6	43
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