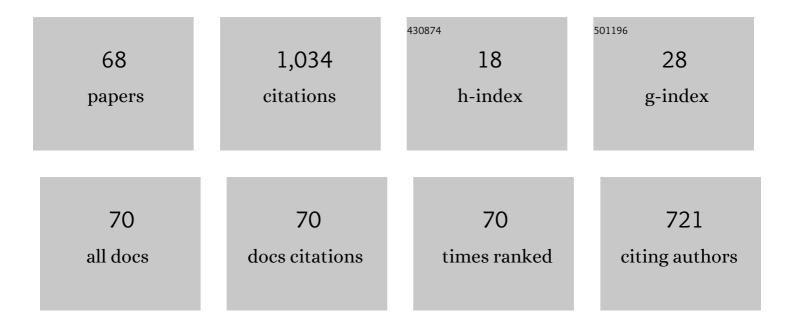
Igor A Sedov

List of Publications by Year in descending order

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ICOP A SEDON

#	Article	IF	CITATIONS
1	Development of Predictive Expressions for Infinite Dilution Activity Coefficients, Molar Solubilities and Partition Coefficients for Solutes Dissolved in 2-Pyrrolidone Based on the Abraham Solvation Parameter Model. Journal of Solution Chemistry, 2022, 51, 975-991.	1.2	1
2	Effect of ligands with different affinity on albumin fibril formation. International Journal of Biological Macromolecules, 2022, 204, 709-717.	7.5	4
3	Solvation properties of protic ionic liquids 2-methoxyethylammonium nitrate, propylammonium hydrogen sulfate, and butylammonium hydrogen sulfate. Journal of Chemical Thermodynamics, 2022, 170, 106779.	2.0	5
4	4â€{Dimethylamino)Pyridinium Azide in Protic Ionic Liquid Media as a Stable Equivalent of Hydrazoic Acid. Advanced Synthesis and Catalysis, 2022, 364, 2403-2415.	4.3	6
5	Interaction-induced structural transformation of lysozyme and kappa-carrageenan in binary complexes. Carbohydrate Polymers, 2021, 252, 117181.	10.2	13
6	Development of Abraham model correlations for enthalpies of solvation of solutes dissolved in N-methylformamide, 2-pyrrolidone and N-methylpyrrolidone. Journal of Molecular Liquids, 2021, 323, 114609.	4.9	10
7	Calorimetric observation of lysozyme degradation at elevated temperature in water and DMSO-water mixtures. Thermochimica Acta, 2021, 695, 178826.	2.7	4
8	Binding constants of drug-albumin complexes from DSC measurements. Thermochimica Acta, 2021, 699, 178930.	2.7	1
9	Response to "Comment on †The Gibbs free energy of cavity formation in a diverse set of solvents'―[J. Chem. Phys. 154, 187101 (2021)]. Journal of Chemical Physics, 2021, 154, 187102.	3.0	1
10	Thermodynamics of cavity formation in different solvents: Enthalpy, entropy, and the solvophobic effects. Journal of Molecular Liquids, 2021, 331, 115738.	4.9	6
11	Binding Constants of Clinical Drugs and Other Organic Ligands with Human and Mammalian Serum Albumins. Biophysica, 2021, 1, 344-358.	1.4	5
12	Crystal Nucleation and Growth in Cross-Linked Poly($\hat{l}\mu$ -caprolactone) (PCL). Polymers, 2021, 13, 3617.	4.5	4
13	The Gibbs free energy of cavity formation in a diverse set of solvents. Journal of Chemical Physics, 2020, 153, 134501.	3.0	15
14	Comparative study of the protein denaturing ability of different organic cosolvents. International Journal of Biological Macromolecules, 2020, 160, 880-888.	7.5	20
15	Binding Constants of Substituted Benzoic Acids with Bovine Serum Albumin. Pharmaceuticals, 2020, 13, 30.	3.8	10
16	Evaluation of the binding properties of drugs to albumin from DSC thermograms. International Journal of Pharmaceutics, 2020, 583, 119362.	5.2	16
17	Abraham model correlations for solute transfer into 2-methyl-2-butanol based on measured activity coefficient and solubility data at 298.15†K. Journal of Molecular Liquids, 2019, 293, 111454.	4.9	12
18	Contrasting the solvation properties of protic ionic liquids with different nanoscale structure. Journal of Molecular Liquids, 2019, 290, 111361.	4.9	6

IGOR A SEDOV

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19	The Effect of Dimethyl Sulfoxide on the Lysozyme Unfolding Kinetics, Thermodynamics, and Mechanism. Biomolecules, 2019, 9, 547.	4.0	10
20	Pressure, temperature, and solvent effects on the rates of reactions of 3,4-dihydro-2H-pyran with tetracyanoethylene and 4-phenyl-1,2,4-triazoline-3,5-dione. Russian Chemical Bulletin, 2019, 68, 351-356.	1.5	0
21	Solvophobic Acceleration of a Diels–Alder Reaction in True Solutions in Organic Solvents. International Journal of Chemical Kinetics, 2018, 50, 319-324.	1.6	4
22	C-547, a 6-methyluracil derivative with long-lasting binding and rebinding on acetylcholinesterase: Pharmacokinetic and pharmacodynamic studies. Neuropharmacology, 2018, 131, 304-315.	4.1	11
23	Determination of Abraham Model Correlations for Solute Transfer into Propyl Acetate Based on Experimental Activity Coefficient and Solubility Data. Journal of Solution Chemistry, 2018, 47, 634-653.	1.2	22
24	Kinetics and thermochemistry of the unusual [2Ï€Â+Â2σÂ+Â2σ] ycloaddition of quadricyclane with some dienophiles. Journal of Physical Organic Chemistry, 2018, 31, e3737.	1.9	4
25	Influence of the Cross-Link Density on the Rate of Crystallization of Poly(ε-Caprolactone). Polymers, 2018, 10, 902.	4.5	20
26	Abraham model correlations for describing the thermodynamic properties of solute transfer into pentyl acetate based on headspace chromatographic and solubility measurements. Journal of Chemical Thermodynamics, 2018, 124, 133-140.	2.0	22
27	Fast scanning calorimetry of lysozyme unfolding at scanning rates from 5â€⁻K/min to 500,000â€⁻K/min. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2024-2030.	2.4	11
28	Abraham Model Expressions for Describing Water-to-Diethylene Glycol and Gas-to-Diethylene Glycol Solute Transfer Processes at 298.15ÂK. Journal of Solution Chemistry, 2017, 46, 331-351.	1.2	29
29	Solvent Influence on the Dielsâ€Alder Reaction Rates of 9â€(Hydroxymethyl)anthracene and 9,10â€Bis(hydroxymethyl)anthracene with Two Maleimides. International Journal of Chemical Kinetics, 2017, 49, 61-68.	1.6	11
30	Solvation of apolar compounds in protic ionic liquids: the non-synergistic effect of electrostatic interactions and hydrogen bonds. Physical Chemistry Chemical Physics, 2017, 19, 25352-25359.	2.8	20
31	Molecular dynamics study of unfolding of lysozyme in water and its mixtures with dimethyl sulfoxide. Journal of Molecular Graphics and Modelling, 2017, 76, 466-474.	2.4	8
32	Corrigendum for "Development of Abraham Model Correlations for Solute Transfer into Both 2-Propoxyethanol and 2-Isopropoxyethanol at 298.15 K―[J. Mol. Liq. 2015, 212, 833–840]. Journal of Molecular Liquids, 2017, 241, 730.	4.9	0
33	Abraham model linear free energy relationships for describing the partitioning and solubility behavior of nonelectrolyte organic solutes dissolved in pyridine at 298.15ÅK. Fluid Phase Equilibria, 2017, 431, 66-74.	2.5	24
34	[2Ï€ + 2Ï€]-Cycloaddition of biadamantylidene to 4-phenyl-3H-1,2,4-triazole-3,5(4H)-dione. Effects of temperature, high pressure, and solvent. Russian Journal of Organic Chemistry, 2017, 53, 1864-1869.	0.8	5
35	Abraham Model Correlations for Triethylene Glycol Solvent Derived from Infinite Dilution Activity Coefficient, Partition Coefficient and Solubility Data Measured at 298.15ÂK. Journal of Solution Chemistry, 2017, 46, 2249-2267.	1.2	13
36	New insights into the solubility of graphene oxide in water and alcohols. Physical Chemistry Chemical Physics, 2017, 19, 17000-17008.	2.8	111

IGOR A SEDOV

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37	Thermodynamic functions of solvation of benzene in various binary aqueous-organic solvents. Journal of Molecular Liquids, 2016, 224, 1205-1209.	4.9	4
38	Thermodynamic description of the solvophobic effect in ionic liquids. Fluid Phase Equilibria, 2016, 425, 9-14.	2.5	21
39	A procedure for calibration of differential scanning calorimeters. Thermochimica Acta, 2016, 639, 10-13.	2.7	5
40	Solvation of hydrocarbons in aqueous-organic mixtures. Journal of Chemical Thermodynamics, 2016, 96, 153-160.	2.0	13
41	Standard molar Gibbs free energy and enthalpy of solvation of low polar solutes in formamide derivatives at 298 K. Thermochimica Acta, 2016, 623, 9-14.	2.7	19
42	Abraham model correlations for describing solute transfer into 2-butoxyethanol from both water and the gas phase at 298K. Journal of Molecular Liquids, 2015, 209, 196-202.	4.9	37
43	Abraham model correlations for solute transfer into 2-methoxyethanol from water and from the gas phase. Journal of Molecular Liquids, 2015, 209, 738-744.	4.9	40
44	Thermodynamic Functions of Solvation of Hydrocarbons, Noble Gases, and Hard Spheres in Tetrahydrofuran–Water Mixtures. Journal of Physical Chemistry B, 2015, 119, 8773-8780.	2.6	7
45	Abraham model correlations for solute transfer into 2-ethoxyethanol from water and from the gas phase. Journal of Molecular Liquids, 2015, 208, 63-70.	4.9	37
46	Atmospheric and high pressure ene reaction of norbornene with 4-phenyl-3H-1,2,4-triazole-3,5(4H)-dione. Russian Journal of Organic Chemistry, 2015, 51, 387-391.	0.8	8
47	Development of Abraham model correlations for solute transfer into both 2-propoxyethanol and 2-isopropoxyethanol at 298.15 K. Journal of Molecular Liquids, 2015, 212, 833-840.	4.9	39
48	Thermodynamics of solvation in propylene glycol and methyl cellosolve. Journal of Chemical Thermodynamics, 2014, 78, 32-36.	2.0	18
49	tert-Butyl chloride as a probe of the solvophobic effects. Fluid Phase Equilibria, 2014, 382, 164-168.	2.5	15
50	Calorimetric study of solvation of low polar solutes in propylene glycol and methyl cellosolve at 298 K. Thermochimica Acta, 2014, 589, 247-251.	2.7	6
51	Enthalpies and Gibbs free energies of solvation in ethylene glycol at 298K: Influence of the solvophobic effect. Fluid Phase Equilibria, 2013, 354, 95-101.	2.5	29
52	Thermodynamics of solvation and solvophobic effect in formamide. Journal of Chemical Thermodynamics, 2013, 64, 120-125.	2.0	26
53	Solvophobic effects: Qualitative determination and quantitative description. Journal of Structural Chemistry, 2013, 54, 262-270.	1.0	25
54	Distinctive thermodynamic properties of solute–solvent hydrogen bonds in selfâ€associated solvents. Journal of Physical Organic Chemistry, 2012, 25, 1144-1152.	1.9	9

IGOR A SEDOV

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55	Gibbs free energy of hydrogen bonding of aliphatic alcohols with liquid water at 298K. Fluid Phase Equilibria, 2012, 315, 16-20.	2.5	16
56	Hydrogen bonding in neat aliphatic alcohols: The Gibbs free energy of self-association and molar fraction of monomer. Journal of Molecular Liquids, 2012, 167, 47-51.	4.9	19
57	Determining the Gibbs Energies of Hydrogen-Bonding Interactions of Proton-Accepting Solutes in Aqueous Solutions from Thermodynamic Data at 298 K with Regard to the Hydrophobic Effect. Journal of Chemical & Engineering Data, 2011, 56, 1438-1442.	1.9	14
58	Evaluating the contribution of solvophobic effects to the Gibbs energy of solvation in methanol. Russian Journal of Physical Chemistry A, 2011, 85, 621-626.	0.6	4
59	Calculating the Gibbs energy of hydrogen bonding for proton acceptors with a solvent in methanol solutions. Russian Journal of Physical Chemistry A, 2011, 85, 811-815.	0.6	1
60	Solvophobic effects and relationships between the Gibbs energy and enthalpy for the solvation process. Journal of Physical Organic Chemistry, 2011, 24, 1088-1094.	1.9	43
61	Relation between the characteristic molecular volume and hydrophobicity of nonpolar molecules. Journal of Chemical Thermodynamics, 2010, 42, 1126-1130.	2.0	14
62	A method to determine the Gibbs energy of specific interactions in solutions. Hydrogen bonding of proton donating solutes in basic solvents. Fluid Phase Equilibria, 2009, 276, 108-115.	2.5	11
63	Gibbs energy of cooperative hydrogenâ€bonding interactions in aqueous solutions of amines and pyridines. Journal of Physical Organic Chemistry, 2009, 22, 1142-1147.	1.9	7
64	The hydrophobic effect Gibbs energy. Journal of Molecular Liquids, 2008, 139, 89-97.	4.9	19
65	A method for calculating the Gibbs energy of nonspecific solvation. Russian Journal of Physical Chemistry A, 2008, 82, 704-708.	0.6	12
66	A method for calculating the Gibbs energies of hydrophobic effects and specific interactions of nonelectrolytes in aqueous solutions. Russian Journal of Physical Chemistry A, 2008, 82, 1110-1114.	0.6	2
67	Quantitative Description of the Hydrophobic Effect:Â the Enthalpic Contribution. Journal of Physical Chemistry B, 2006, 110, 9298-9303.	2.6	38
68	A method for calculating the enthalpy of hydrophobic effect. Russian Journal of Physical Chemistry A, 2006, 80, 659-662.	0.6	9