Andrey Kustov

List of Publications by Year
in descending order

110	990	516710 16	580821 25
papers	citations	h-index	g-index

110	110	110	510
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Macroheterocyclic Compounds - a Key Building Block in New Functional Materials and Molecular Devices. Macroheterocycles, 2020, 13, 311-467.	0.5	91
2	Synthesis and investigation of water-soluble chlorophyll pigments for antimicrobial photodynamic therapy. Dyes and Pigments, 2018, 149, 553-559.	3.7	46
3	A calorimetric setup for measuring heat effects of processes in solutions. Russian Journal of Physical Chemistry A, 2006, 80, 1532-1536.	0.6	45
4	Synthesis and investigation of novel chlorin sensitizers containing the myristic acid residue for antimicrobial photodynamic therapy. Dyes and Pigments, 2020, 173, 107948.	3.7	35
5	Temperature and Length Scale Dependence of Tetraalkylammonium Ionâ^'Amide Interaction. Journal of Physical Chemistry B, 2008, 112, 2040-2044.	2.6	33
6	Selective binding of a bioactive porphyrin-based photosensitizer to the G-quadruplex from the KRAS oncogene promoter. International Journal of Biological Macromolecules, 2020, 145, 244-251.	7.5	33
7	Standard Enthalpies and Heat Capacities of Solution of Urea and Tetramethylurea in Water. Journal of Chemical & Engineering Data, 2010, 55, 3055-3058.	1.9	30
8	Title is missing!. Journal of Solution Chemistry, 2002, 31, 71-80.	1.2	23
9	Enthalpic pair-interaction coefficients of benzene, aniline and nitrobenzene with N,N-dimethylformamide and acetonitrile in water at 298.15 K. Thermochimica Acta, 2003, 398, 9-14.	2.7	22
10	Temperature and Length Scale Dependence of Tetraalkylammonium Ion Solvation in Water, Formamide, and Ethylene Glycol. Journal of Physical Chemistry B, 2011, 115, 14551-14555.	2.6	22
11	Temperature dependence of the interaction between two hydrophobic solutes: a calorimetric study. Thermochimica Acta, 2005, 427, 43-50.	2.7	21
12	Thermodynamics of solution of histidine. Thermochimica Acta, 2006, 447, 212-214.	2.7	21
13	The behavior of monocationic chlorin in water and aqueous solutions of non-ionic surfactant Tween 80 and potassium iodide. Journal of Molecular Liquids, 2019, 283, 532-536.	4.9	20
14	Amino Acid Solvation in Aqueous Kosmotrope Solutions: Temperature Dependence of the <scp>l</scp>-Histidineâ€“Glycerol Interaction. Journal of Physical Chemistry B, 2012, 116, 2325-2329.	2.6	19
15	Thermodynamics of Solution of Hemato- and Deuteroporphyrins in N,N-Dimethylformamide. Journal of Chemical & Engineering Data, 2013, 58, 2502-2505.	1.9	19
16	Title is missing!. Journal of Solution Chemistry, 2002, 31, 671-680.	1.2	17
17	Temperature dependence of the pair interaction between hydrophobic and hydrophilic solutes: A calorimetric study. Thermochimica Acta, 2005, 437, 190-195.	2.7	16
18	Aggregation of water soluble octaanionic phthalocyanines and their photoinactivation antimicrobial effect in vitro. Mendeleev Communications, 2020, 30, 621-623.	1.6	16

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19	Transurethral Resection of Non-Muscle Invasive Bladder Tumors Combined with Fluorescence Diagnosis and Photodynamic Therapy with Chlorin e6-Type Photosensitizers. Journal of Clinical Medicine, 2022, 11, 233.	2.4	16
20	The aromatic amino acid behaviour in aqueous amide solutions. Journal of Thermal Analysis and Calorimetry, 2007, 89, 841-846.	3.6	15
21	Partition of methylpheophorbide a , dioxidine and their conjugate in the 1-octanol/phosphate saline buffer biphasic system. Journal of Chemical Thermodynamics, 2017, 115, 302-306.	2.0	15
22	Aggregation of Cationic Chlorin e6 Derivatives in Water and Aqueous Solutions of Polyvinilpyrrolidone. Journal of Structural Chemistry, 2019, 60, 443-448.	1.0	13
23	Interaction of cationic chlorin photosensitizers with non-ionic surfactant Tween 80. Mendeleev Communications, 2021, 31, 65-67.	1.6	13
24	Solvation, Cancer Cell Photoinactivation and the Interaction of Chlorin Photosensitizers with a Potential Passive Carrier Non-Ionic Surfactant Tween 80. International Journal of Molecular Sciences, 2022, 23, 5294.	4.1	13
25	Volumetric properties of (water+hexamethylphosphoric triamide) from (288.15 to 308.15)K. Journal of Chemical Thermodynamics, 2010, 42, 1087-1093.	2.0	12
26	Thermal properties of tetraalkylammonium bromides in several solvents. Journal of Thermal Analysis and Calorimetry, 2011, 103, 401-407.	3.6	12
27	Standard enthalpies and heat capacities of ethyl acetate and deuteroporphyrin dimethylester solution in N,N-dimethylformamide at 298â€“318K. Thermochimica Acta, 2011, 521, 224-226.	2.7	12
28	Association of hydrophilic derivatives of chlorophyll a in ethanolâ€“water and ethanolâ€“waterâ€“solubilizer systems. Russian Chemical Bulletin, 2018, 67, 1273-1279.	1.5	12
29	Thermodynamics of solution of l-tryptophan in water. Journal of Thermal Analysis and Calorimetry, 2017, 129, 461-465.	3.6	12
30	Amino Acid Behavior in Aqueous Denaturant Solutions: Temperature Dependence of the <scp>l</scp>-Histidineâ^'Amide Interaction. Journal of Physical Chemistry B, 2010, 114, 10171-10175.	2.6	11
31	Blood porphyrins in binary mixtures of N,N-dimethylformamide with 1-octanol and chloroform: The energetics of solvation, (solute+cosolvent) interactions and model calculations. Journal of Chemical Thermodynamics, 2015, 83, 104-109.	2.0	11
32	The thermodynamic parameters of solution of L-phenylalanine in water. Russian Journal of Physical Chemistry A, 2007, 81, 193-195.	0.6	10
33	Amino acids in aqueous solution. Effect of molecular structure and temperature on thermodynamics of dissolution. Russian Chemical Bulletin, 2007, 56, 739-742.	1.5	10
34	Thermodynamics of glycine solution in aqueous urea. Rule $$sqrt m $$. Journal of Structural Chemistry, 2007, 48, 666-672.	1.0	10
35	The thermodynamic characteristics of solution of L-Î±-histidine and L-Î±-phenylalanine in water at 273â€“373 K. Russian Journal of Physical Chemistry A, 2008, 82, 1828-1832.	0.6	10
36	Thermodynamics of solution of proto- and mezoporphyrins in N,N-dimethylformamide. Journal of Chemical Thermodynamics, 2015, 89, 123-126.	2.0	10

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37	Solutions of Urea and Tetramethylurea in Formamide and Water: A Comparative Analysis of Volume Characteristics and Soluteâ€“Solute Interaction Parameters at Temperatures from 288.15 to 328.15 K and Ambient Pressure. Journal of Chemical & Engineering Data, 2019, 64, 5886-5899.	1.9	10
38	Enthalpies and heat capacities of solution of urea and tetramethylurea in water, ethylene glycol and formamide. Journal of Chemical Thermodynamics, 2019, 130, 114-118.	2.0	10
39	Solvation of Aniline in Mixtures of Water with N,N-Dimethylformamide and Acetonitrile. Russian Journal of General Chemistry, 2002, 72, 918-923.	0.8	9
40	Volume-related solvation and pair interaction parameters for dilute solutions of urea and tetramethylurea in ethylene glycol between 288.15â€¯K and 328.15â€¯K: A comparative analysis. Journal of Chemical Thermodynamics, 2019, 135, 336-344.	2.0	9
41	Chemolysis of calcium oxalate stones: study in vitro and possible clinical application. Urological Research, 2012, 40, 205-209.	1.5	8
42	Thermochemistry of ethyl acetate solvation in the 1-octanol-N,N-dimethylformamide system. Russian Journal of Physical Chemistry A, 2011, 85, 1903-1907.	0.6	7
43	Enthalpies of solution of two Meisenheimer Ïƒ-adducts and tetrabutylammonium bromide in DMSO. Thermochimica Acta, 2003, 406, 185-190.	2.7	6
44	Enthalpies and heat capacities of hematoporphyrin solutions in N,N-dimethylformamide and octanol-1. Russian Journal of Physical Chemistry A, 2012, 86, 895-897.	0.6	6
45	Amino acid behavior in aqueous amide solutions: Temperature dependence of the l-phenylalanineâ€“N,N-dimethylformamide interaction. Thermochimica Acta, 2013, 566, 19-23.	2.7	6
46	Solvation of benzene and its simple mono derivatives in water-tertiary butanol mixtures. Thermochimica Acta, 2013, 565, 159-162.	2.7	6
47	Thermal stability of chlorophyll a derivatives containing hydrophilic groups. Russian Journal of General Chemistry, 2017, 87, 1557-1561.	0.8	6
48	Quantitative Mineralogical Composition of Calculi and Urine Abnormalities for Calcium Oxalate Stone Formers: A Single-Center Results. Urology Journal, 2018, 15, 87-91.	0.4	6
49	Thermochemistry of dissolution of aniline in mixtures of water with methanol andtert-butyl alcohol. Russian Chemical Bulletin, 1998, 47, 2391-2398.	1.5	5
50	The enthalpies and heat capacities of hydration of ammonium and tetraalkylammonium bromides. Russian Journal of Physical Chemistry A, 2006, 80, 56-62.	0.6	5
51	Enthalpies and heat capacities of dissolution for calcium chloride and sodium oxalate. Russian Journal of Inorganic Chemistry, 2007, 52, 129-130.	1.3	5
52	Thermodynamics of interaction of L-Î±-phenylalanine with urea and dimethylformamide in aqueous solution. Russian Journal of General Chemistry, 2007, 77, 1232-1237.	0.8	5
53	The Complexonâ^'Renal Stone Interaction: Solubility and Electronic Microscopy Studies. Journal of Physical Chemistry B, 2009, 113, 9547-9550.	2.6	5
54	Hydrophobic hydration and hydrophobic interaction in tetraalkylammonium salt solutions: The cation size effect. Russian Journal of Inorganic Chemistry, 2011, 56, 824-829.	1.3	5

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55	Enthalpies of dissolution of n-alkanes in a mixture of methanol-formamide. Russian Journal of Physical Chemistry A, 2015, 89, 993-997.	0.6	5
56	Thermodynamics of solution and partition of dioxidine in water and the water/1-octanol biphasic system. Journal of Molecular Liquids, 2017, 248, 842-846.	4.9	5
57	The Synthesis and Singlet Oxygen Generation Study of 13(1)-N-Piperazinyl Chlorin e6-15(2),17(3)-Dimethyl Ester. Macroheterocycles, 2015, 8, 384-388.	0.5	5
58	The effect of molecular structure of chlorin photosensitizers on photo-bleaching of 1,3-diphenylisobenzofuranâ€"the possible evidence of iodine reactive species formation. Comptes Rendus Chimie, 2022, 25, 97-102.	0.5	5
59	Thermochemistry of Bu4NBr solutions in binary solvents containing formamide. Journal of Thermal Analysis and Calorimetry, 2009, 96, 903-910.	3.6	4
60	Solvation of benzene, aniline and nitrobenzene in the mixtures of water with oxygen-containing H-bond acceptors â€" a calorimetric study. Journal of Molecular Liquids, 2013, 183, 89-93.	4.9	4
61	Solvation of the photodynamic therapy agent in the model lipidâ€"protein system: The evidence of porphyrin preferential solvation by apolar environment. Thermochimica Acta, 2013, 553, 27-30.	2.7	4
62	synthesis and properties of Î²-brominated metal complexes of meso-triphenylcorrole. Russian Journal of General Chemistry, 2014, 84, 737-744.	0.8	4
63	Solvation of decane and benzene in mixtures of 1-octanol and N,N-dimethylformamide. Russian Journal of Physical Chemistry A, 2016, 90, 1778-1781.	0.6	4
64	Enthalpies and heat capacities of solution of methylpheophorbide, dioxidine and their conjugate in DMF at 298-318 K. Thermochimica Acta, 2018, 669, 169-172.	2.7	4
65	Solubility and Thermodynamics of Dissolution of 13,17-Di-N-(2-aminoethyl)amide of Deuteroporphyrin-IX in Aqueous HCl and Tetraoxalate Buffer at 288-328 K. Macroheterocycles, 2016, 9, 373-377.	0.5	4
66	Solid State Physicochemical Study of Chlorophyll a Derivatives and Their Glycol Conjugates. Macroheterocycles, 2017, 10, 72-76.	0.5	4
67	Thermodynamic and structural aspects of the interaction of l-histidine with urea and dimethylformamide in water. Russian Journal of General Chemistry, 2008, 78, 101-105.	0.8	3
68	Heat properties of Bu4NBr solutions in binary mixtures based on formamide. Russian Journal of General Chemistry, 2008, 78, 2013-2018.	0.8	3
69	Interaction of a complexing agent with urolith as the basis for efficient little-invasive therapy of phosphaturia. Doklady Physical Chemistry, 2009, 428, 175-177.	0.9	3
70	Blood group porphyrins in lipid-protein model systems: Preferential solvation of hematoporphyrin in 1-octanol-N,N-dimethylformamide mixtures. Doklady Physical Chemistry, 2012, 445, 109-111.	0.9	3
71	Enthalpies and Heat Capacities of Ethyl Acetate Solutions in Water and in Several Organic Solvents at 298â€"318 K. Journal of Solution Chemistry, 2012, 41, 1008-1012.	1.2	3
72	Preferable solvatation of decane and benzene in 1-octanol-N,N-dimethylformamide mixed solvent. Russian Journal of Physical Chemistry A, 2014, 88, 57-61.	0.6	3

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73	Thermodynamics of solution of L-valine in water. Thermochimica Acta, 2017, 658, 68-71.	2.7	3
74	The energetics of solvation and ion-ion interactions in prospidium chloride aqueous solutions. Journal of Molecular Liquids, 2018, 263, 49-52.	4.9	3
75	Enthalpies and heat capacities of solution of 3,5-diamino-1,2,4-triazole and 3,5-diamino-1-phenyl-1,2,4-triazole in water. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3997-4001.	3.6	3
76	Thermodynamics of tetramethylurea solutions in ethylene glycol: The evidence of pairwise solvophobic interaction. Journal of Molecular Liquids, 2020, 317, 113994.	4.9	3
77	Interaction of Macrocyclic Dicationic Photosensitizers with Tween 80. Russian Journal of Physical Chemistry A, 2022, 96, 793-799.	0.6	3
78	Enthalpy and heat capacity parameters of ammonium bromide interaction with hexamethylphosphotriamide in water. Journal of Structural Chemistry, 2005, 46, 862-868.	1.0	2
79	Energy of interaction of Ca2+ and C2O2â^' 4 Ions in multicomponent liquid systems: The inhibition of urolith formation. Doklady Chemistry, 2006, 410, 150-153.	0.9	2
80	Enthalpies and heat capacities of reaction between calcium chloride and sodium oxalate in water. Russian Journal of Inorganic Chemistry, 2007, 52, 131-133.	1.3	2
81	Water-DMF-L-Î±-alanine and water-carbamide-L-Î±-alanine systems. Thermodynamic properties, solvation, and interspecies interactions at 273â€“333 K. Russian Journal of General Chemistry, 2008, 78, 2293-2298.	0.8	2
82	The thermodynamic characteristics of dissolution of tetraethylammonium bromide and interparticle interactions in the water-formamide-Et4NBr and methanol-formamide-Et4NBr systems. Russian Journal of Physical Chemistry A, 2008, 82, 1549-1554.	0.6	2
83	Thermodynamic properties of aqueous solutions of tetraalkylammonium salts: Dependence of the hydrophobic hydration effect on the cation size. Russian Journal of Inorganic Chemistry, 2009, 54, 323-328.	1.3	2
84	A triple system water-urea-L-Î±-alanine. Thermodynamic properties and intermolecular interactions. Biophysics (Russian Federation), 2010, 55, 176-181.	0.7	2
85	Thermal properties of n-R4NBr solutions in binary solvents containing formamide. Journal of Thermal Analysis and Calorimetry, 2011, 103, 347-354.	3.6	2
86	Enthalpies and heat capacities of interaction of tetraalkylammonium bromides with hexamethylphosphoric triamide in water, methanol and ethylene glycol: The comparative analysis of aqueous and non-aqueous systems. Thermochimica Acta, 2012, 544, 84-88.	2.7	2
87	Heat capacities of crystalline tetraalkylammonium salts. Russian Journal of Physical Chemistry A, 2012, 86, 878-880.	0.6	2
88	Enthalpies of mixing and intermolecular interactions in the 1-octanol-dimethylformamide system at 298â€“318 K. Russian Journal of Physical Chemistry A, 2013, 87, 760-762.	0.6	2
89	Enthalpies of mixing and intermolecular interactions in N,N-dimethylformamide-chloroform systems at temperatures ranging between 288 and 308 K. Russian Journal of Physical Chemistry A, 2014, 88, 348-350.	0.6	2
90	Thermodynamics of the ethylene glycol pair interaction with some amino acids and benzene. Thermochimica Acta, 2014, 585, 1-4.	2.7	2

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91	Solvation of biomolecules in aqueous kosmotrope solutions - The energetics of the glycerol interaction with amino acids in water. Journal of Molecular Liquids, 2017, 232, 214-218.	4.9	2
92	Thermodynamics of TMU-TMU interaction in water, ethylene glycol and formamide â€“ From pair solvophobic interaction to cluster formation. Journal of Molecular Liquids, 2022, 358, 119185.	4.9	2
93	Energetics of Solvation of Mono- and Polyhydric Alcohols with Mixtures of Water with Acetone. Russian Journal of General Chemistry, 2004, 74, 663-666.	0.8	1
94	Enthalpies of reaction of calcium chloride and sodium oxalate in an aqueous NaCl solution. Russian Journal of Inorganic Chemistry, 2009, 54, 2027-2030.	1.3	1
95	The enthalpies of interactions of Ca2+(aq) and C2O 4 2â˜ (aq) ions in complexon solutions: Competition between complexation and precipitation. Russian Journal of Physical Chemistry A, 2010, 84, 588-592.	0.6	1
96	Enthalpies of reaction of calcium chloride and sodium oxalate in aqueous solution of Tween 80. Russian Journal of Inorganic Chemistry, 2011, 56, 139-140.	1.3	1
97	The enthalpy and heat capacity characteristics of the water-N,N-dimethylpropyleneurea system. Russian Journal of Physical Chemistry A, 2011, 85, 31-34.	0.6	1
98	Synthesis and properties of FeIII complexes with deuteroporphyrin and hematoporphyrin. Russian Journal of General Chemistry, 2013, 83, 106-109.	0.8	1
99	Relationship of the solvation enthalpies of n-alkanes in a methanolâ€“hexamethylphosphortriamide mixture to its thermal and bulk properties. Russian Journal of Physical Chemistry A, 2016, 90, 579-583.	0.6	1
100	Thermal and volumetric properties of methanolâ€“hexamethylphosphortriamide mixtures under standard conditions. Russian Journal of Physical Chemistry A, 2017, 91, 323-329.	0.6	1
101	Solvation thermodynamics of benzene, nitrobenzene, and aniline in waterâ€“acetonitrile mixtures. Russian Journal of Physical Chemistry A, 2017, 91, 1685-1691.	0.6	1
102	Heat capacity effects associated with urea and tetramethylurea hydration: insight from computer simulation. Mendeleev Communications, 2020, 30, 522-524.	1.6	1
103	Enthalpies of squalane dissolution in mixtures of acetone with isomeric butyl alcohols. Russian Chemical Bulletin, 1999, 48, 2263-2266.	1.5	0
104	Thermochemical study of the temperature effect on the l-Î±-alanine-l-Î±-alanine interactions in aqueous solutions of urea and ethylene glycol. Russian Chemical Bulletin, 2008, 57, 1390-1394.	1.5	0
105	Thermodynamic properties, intermolecular interaction parameters, and structure of aqueous amide solutions of ammonium and tetraalakylammonium bromides. Journal of Structural Chemistry, 2008, 49, 278-284.	1.0	0
106	Interaction of benzene, L-histidine and L-proline with urea, N,N-dimethylpropyleneurea, and N,N-dimethylformamide in water. Russian Journal of General Chemistry, 2017, 87, 624-631.	0.8	0
107	Solvation and ionâ€“ion interactions in aqueous and non-aqueous solutions of cationic cytostatic agent prospidium chloride. Mendeleev Communications, 2019, 29, 441-443.	1.6	0
108	Thermodynamics of transfer and partition of 3,5-diamino-1-phenyl-1,2,4-triazole in the 1-octanol/water biphasic system. Journal of Thermal Analysis and Calorimetry, 2022, 147, 1513-1517.	3.6	0

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109	Thermochemistry of solution of methylpheophorbide a, dioxidine and their conjugate in chloroform from 298.15ÂK to 318.15ÂK. Journal of Chemical Thermodynamics, 2022, 164, 106627.	2.0	0
110	10.1007/s11176-008-1017-y. , 2010, 78, 101.		0