

Andrey Kustov

List of Publications by Year in descending order

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110
papers

990
citations

516710

16
h-index

580821

25
g-index

110
all docs

110
docs citations

110
times ranked

510
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamics of transfer and partition of 3,5-diamino-1-phenyl-1,2,4-triazole in the 1-octanol/water biphasic system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 1513-1517.	3.6	0
2	Thermochemistry of solution of methylpheophorbide a, dioxidine and their conjugate in chloroform from 298.15ÅK to 318.15ÅK. <i>Journal of Chemical Thermodynamics</i> , 2022, 164, 106627.	2.0	0
3	The effect of molecular structure of chlorin photosensitizers on photo-bleaching of 1,3-diphenylisobenzofuran—the possible evidence of iodine reactive species formation. <i>Comptes Rendus Chimie</i> , 2022, 25, 97-102.	0.5	5
4	Transurethral Resection of Non-Muscle Invasive Bladder Tumors Combined with Fluorescence Diagnosis and Photodynamic Therapy with Chlorin e6-Type Photosensitizers. <i>Journal of Clinical Medicine</i> , 2022, 11, 233.	2.4	16
5	Thermodynamics of TMU-TMU interaction in water, ethylene glycol and formamide – From pair solvophobic interaction to cluster formation. <i>Journal of Molecular Liquids</i> , 2022, 358, 119185.	4.9	2
6	Interaction of Macrocyclic Dicationic Photosensitizers with Tween 80. <i>Russian Journal of Physical Chemistry A</i> , 2022, 96, 793-799.	0.6	3
7	Solvation, Cancer Cell Photoinactivation and the Interaction of Chlorin Photosensitizers with a Potential Passive Carrier Non-Ionic Surfactant Tween 80. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5294.	4.1	13
8	Interaction of cationic chlorin photosensitizers with non-ionic surfactant Tween 80. <i>Mendeleev Communications</i> , 2021, 31, 65-67.	1.6	13
9	Synthesis and investigation of novel chlorin sensitizers containing the myristic acid residue for antimicrobial photodynamic therapy. <i>Dyes and Pigments</i> , 2020, 173, 107948.	3.7	35
10	Selective binding of a bioactive porphyrin-based photosensitizer to the G-quadruplex from the KRAS oncogene promoter. <i>International Journal of Biological Macromolecules</i> , 2020, 145, 244-251.	7.5	33
11	Aggregation of water soluble octaanionic phthalocyanines and their photoinactivation antimicrobial effect in vitro. <i>Mendeleev Communications</i> , 2020, 30, 621-623.	1.6	16
12	Thermodynamics of tetramethylurea solutions in ethylene glycol: The evidence of pairwise solvophobic interaction. <i>Journal of Molecular Liquids</i> , 2020, 317, 113994.	4.9	3
13	Heat capacity effects associated with urea and tetramethylurea hydration: insight from computer simulation. <i>Mendeleev Communications</i> , 2020, 30, 522-524.	1.6	1
14	Macroheterocyclic Compounds - a Key Building Block in New Functional Materials and Molecular Devices. <i>Macroheterocycles</i> , 2020, 13, 311-467.	0.5	91
15	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. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3997-4001.	3.6	3
16	Solvation and ion–ion interactions in aqueous and non-aqueous solutions of cationic cytostatic agent prospidium chloride. <i>Mendeleev Communications</i> , 2019, 29, 441-443.	1.6	0
17	Aggregation of Cationic Chlorin e6 Derivatives in Water and Aqueous Solutions of Polyvinylpyrrolidone. <i>Journal of Structural Chemistry</i> , 2019, 60, 443-448.	1.0	13
18	Volume-related solvation and pair interaction parameters for dilute solutions of urea and tetramethylurea in ethylene glycol between 288.15ÅK and 328.15ÅK: A comparative analysis. <i>Journal of Chemical Thermodynamics</i> , 2019, 135, 336-344.	2.0	9

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19	The behavior of monocationic chlorin in water and aqueous solutions of non-ionic surfactant Tween 80 and potassium iodide. <i>Journal of Molecular Liquids</i> , 2019, 283, 532-536.	4.9	20
20	Solutions of Urea and Tetramethylurea in Formamide and Water: A Comparative Analysis of Volume Characteristics and Solute-Solute Interaction Parameters at Temperatures from 288.15 to 328.15 K and Ambient Pressure. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 5886-5899.	1.9	10
21	Enthalpies and heat capacities of solution of urea and tetramethylurea in water, ethylene glycol and formamide. <i>Journal of Chemical Thermodynamics</i> , 2019, 130, 114-118.	2.0	10
22	The energetics of solvation and ion-ion interactions in prospidium chloride aqueous solutions. <i>Journal of Molecular Liquids</i> , 2018, 263, 49-52.	4.9	3
23	Synthesis and investigation of water-soluble chlorophyll pigments for antimicrobial photodynamic therapy. <i>Dyes and Pigments</i> , 2018, 149, 553-559.	3.7	46
24	Association of hydrophilic derivatives of chlorophyll a in ethanol-water and ethanol-water-solubilizer systems. <i>Russian Chemical Bulletin</i> , 2018, 67, 1273-1279.	1.5	12
25	Enthalpies and heat capacities of solution of methylpheophorbide, dioxidine and their conjugate in DMF at 298-318 K. <i>Thermochimica Acta</i> , 2018, 669, 169-172.	2.7	4
26	Quantitative Mineralogical Composition of Calculi and Urine Abnormalities for Calcium Oxalate Stone Formers: A Single-Center Results. <i>Urology Journal</i> , 2018, 15, 87-91.	0.4	6
27	Solvation of biomolecules in aqueous kosmotrope solutions - The energetics of the glycerol interaction with amino acids in water. <i>Journal of Molecular Liquids</i> , 2017, 232, 214-218.	4.9	2
28	Thermal and volumetric properties of methanol-hexamethylphosphortriamide mixtures under standard conditions. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 323-329.	0.6	1
29	Interaction of benzene, L-histidine and L-proline with urea, N,N-dimethylpropyleneurea, and N,N-dimethylformamide in water. <i>Russian Journal of General Chemistry</i> , 2017, 87, 624-631.	0.8	0
30	Thermodynamics of solution of L-valine in water. <i>Thermochimica Acta</i> , 2017, 658, 68-71.	2.7	3
31	Solvation thermodynamics of benzene, nitrobenzene, and aniline in water-acetonitrile mixtures. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 1685-1691.	0.6	1
32	Thermal stability of chlorophyll a derivatives containing hydrophilic groups. <i>Russian Journal of General Chemistry</i> , 2017, 87, 1557-1561.	0.8	6
33	Partition of methylpheophorbide a, dioxidine and their conjugate in the 1-octanol/phosphate saline buffer biphasic system. <i>Journal of Chemical Thermodynamics</i> , 2017, 115, 302-306.	2.0	15
34	Thermodynamics of solution and partition of dioxidine in water and the water/1-octanol biphasic system. <i>Journal of Molecular Liquids</i> , 2017, 248, 842-846.	4.9	5
35	Thermodynamics of solution of L-tryptophan in water. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 461-465.	3.6	12
36	Solid State Physicochemical Study of Chlorophyll a Derivatives and Their Glycol Conjugates. <i>Macroheterocycles</i> , 2017, 10, 72-76.	0.5	4

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37	Relationship of the solvation enthalpies of n-alkanes in a methanol-hexamethylphosphortriamide mixture to its thermal and bulk properties. Russian Journal of Physical Chemistry A, 2016, 90, 579-583.	0.6	1
38	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
39	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. Macromolecules, 2016, 9, 373-377.	0.5	4
40	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
41	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
42	Thermodynamics of solution of proto- and mezoporphyrins in N,N-dimethylformamide. Journal of Chemical Thermodynamics, 2015, 89, 123-126.	2.0	10
43	The Synthesis and Singlet Oxygen Generation Study of 13(1)-N-Piperazinyl Chlorin e6-15(2),17(3)-Dimethyl Ester. Macromolecules, 2015, 8, 384-388.	0.5	5
44	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
45	Preferable solvation 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
46	Thermodynamics of the ethylene glycol pair interaction with some amino acids and benzene. Thermochimica Acta, 2014, 585, 1-4.	2.7	2
47	synthesis and properties of β -brominated metal complexes of meso-triphenylcorrole. Russian Journal of General Chemistry, 2014, 84, 737-744.	0.8	4
48	Amino acid behavior in aqueous amide solutions: Temperature dependence of the l-phenylalanine-N,N-dimethylformamide interaction. Thermochimica Acta, 2013, 566, 19-23.	2.7	6
49	Enthalpies of mixing and intermolecular interactions in the 1-octanol-dimethylformamide system at 298-318 K. Russian Journal of Physical Chemistry A, 2013, 87, 760-762.	0.6	2
50	Synthesis and properties of FeIII complexes with deuteroporphyrin and hematoporphyrin. Russian Journal of General Chemistry, 2013, 83, 106-109.	0.8	1
51	Thermodynamics of Solution of Hemato- and Deuteroporphyrins in N,N-Dimethylformamide. Journal of Chemical & Engineering Data, 2013, 58, 2502-2505.	1.9	19
52	Solvation of benzene and its simple mono derivatives in water-tertiary butanol mixtures. Thermochimica Acta, 2013, 565, 159-162.	2.7	6
53	Solvation of benzene, aniline and nitrobenzene in the mixtures of water with oxygen-containing H-bond acceptors - a calorimetric study. Journal of Molecular Liquids, 2013, 183, 89-93.	4.9	4
54	Solvation of the photodynamic therapy agent in the model lipid-protein system: The evidence of porphyrin preferential solvation by apolar environment. Thermochimica Acta, 2013, 553, 27-30.	2.7	4

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55	Amino Acid Solvation in Aqueous Kosmotrope Solutions: Temperature Dependence of the $\langle \text{scp} \rangle$ -Histidine-Glycerol Interaction. Journal of Physical Chemistry B, 2012, 116, 2325-2329.	2.6	19
56	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
57	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
58	Enthalpies and Heat Capacities of Ethyl Acetate Solutions in Water and in Several Organic Solvents at 298–318 K. Journal of Solution Chemistry, 2012, 41, 1008-1012.	1.2	3
59	Chemolysis of calcium oxalate stones: study in vitro and possible clinical application. Urological Research, 2012, 40, 205-209.	1.5	8
60	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
61	Heat capacities of crystalline tetraalkylammonium salts. Russian Journal of Physical Chemistry A, 2012, 86, 878-880.	0.6	2
62	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
63	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
64	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
65	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
66	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
67	Thermal properties of tetraalkylammonium bromides in several solvents. Journal of Thermal Analysis and Calorimetry, 2011, 103, 401-407.	3.6	12
68	Thermal properties of n-R ₄ NBr solutions in binary solvents containing formamide. Journal of Thermal Analysis and Calorimetry, 2011, 103, 347-354.	3.6	2
69	Standard enthalpies and heat capacities of ethyl acetate and deuteroporphyrin dimethylester solution in N,N-dimethylformamide at 298–318K. Thermochimica Acta, 2011, 521, 224-226.	2.7	12
70	The enthalpies of interactions of Ca ²⁺ (aq) and C ₂ O ₄ ²⁻ (aq) ions in complexon solutions: Competition between complexation and precipitation. Russian Journal of Physical Chemistry A, 2010, 84, 588-592.	0.6	1
71	Volumetric properties of (water+hexamethylphosphoric triamide) from (288.15 to 308.15)K. Journal of Chemical Thermodynamics, 2010, 42, 1087-1093.	2.0	12
72	A triple system water-urea-L-alanine. Thermodynamic properties and intermolecular interactions. Biophysics (Russian Federation), 2010, 55, 176-181.	0.7	2

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73	Amino Acid Behavior in Aqueous Denaturant Solutions: Temperature Dependence of the L-Histidine~Amide Interaction. Journal of Physical Chemistry B, 2010, 114, 10171-10175.	2.6	11
74	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
75	10.1007/s11176-008-1017-y. , 2010, 78, 101.		0
76	Thermochemistry of Bu4NBr solutions in binary solvents containing formamide. Journal of Thermal Analysis and Calorimetry, 2009, 96, 903-910.	3.6	4
77	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
78	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
79	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
80	The Complexon~Renal Stone Interaction: Solubility and Electronic Microscopy Studies. Journal of Physical Chemistry B, 2009, 113, 9547-9550.	2.6	5
81	Thermochemical study of the temperature effect on the L-alanine-L-alanine interactions in aqueous solutions of urea and ethylene glycol. Russian Chemical Bulletin, 2008, 57, 1390-1394.	1.5	0
82	Thermodynamic properties, intermolecular interaction parameters, and structure of aqueous amide solutions of ammonium and tetraalkylammonium bromides. Journal of Structural Chemistry, 2008, 49, 278-284.	1.0	0
83	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
84	Heat properties of Bu4NBr solutions in binary mixtures based on formamide. Russian Journal of General Chemistry, 2008, 78, 2013-2018.	0.8	3
85	Water-DMF-L-alanine and water-carbamide-L-alanine systems. Thermodynamic properties, solvation, and interspecies interactions at 273~333 K. Russian Journal of General Chemistry, 2008, 78, 2293-2298.	0.8	2
86	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
87	The thermodynamic characteristics of solution of L-histidine and L-phenylalanine in water at 273~373 K. Russian Journal of Physical Chemistry A, 2008, 82, 1828-1832.	0.6	10
88	Temperature and Length Scale Dependence of Tetraalkylammonium Ion~Amide Interaction. Journal of Physical Chemistry B, 2008, 112, 2040-2044.	2.6	33
89	Enthalpies and heat capacities of dissolution for calcium chloride and sodium oxalate. Russian Journal of Inorganic Chemistry, 2007, 52, 129-130.	1.3	5
90	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

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91	The thermodynamic parameters of solution of L-phenylalanine in water. Russian Journal of Physical Chemistry A, 2007, 81, 193-195.	0.6	10
92	Thermodynamics of interaction of L- α -phenylalanine with urea and dimethylformamide in aqueous solution. Russian Journal of General Chemistry, 2007, 77, 1232-1237.	0.8	5
93	The aromatic amino acid behaviour in aqueous amide solutions. Journal of Thermal Analysis and Calorimetry, 2007, 89, 841-846.	3.6	15
94	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
95	Thermodynamics of glycine solution in aqueous urea. Rule \sqrt{m} . Journal of Structural Chemistry, 2007, 48, 666-672.	1.0	10
96	Energy of interaction of Ca^{2+} and $\text{C}_2\text{O}_4^{2-}$ ions in multicomponent liquid systems: The inhibition of urolith formation. Doklady Chemistry, 2006, 410, 150-153.	0.9	2
97	Thermodynamics of solution of histidine. Thermochimica Acta, 2006, 447, 212-214.	2.7	21
98	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
99	A calorimetric setup for measuring heat effects of processes in solutions. Russian Journal of Physical Chemistry A, 2006, 80, 1532-1536.	0.6	45
100	Temperature dependence of the interaction between two hydrophobic solutes: a calorimetric study. Thermochimica Acta, 2005, 427, 43-50.	2.7	21
101	Temperature dependence of the pair interaction between hydrophobic and hydrophilic solutes: A calorimetric study. Thermochimica Acta, 2005, 437, 190-195.	2.7	16
102	Enthalpy and heat capacity parameters of ammonium bromide interaction with hexamethylphosphotriamide in water. Journal of Structural Chemistry, 2005, 46, 862-868.	1.0	2
103	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
104	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
105	Enthalpies of solution of two Meisenheimer β -adducts and tetrabutylammonium bromide in DMSO. Thermochimica Acta, 2003, 406, 185-190.	2.7	6
106	Title is missing!. Journal of Solution Chemistry, 2002, 31, 71-80.	1.2	23
107	Title is missing!. Journal of Solution Chemistry, 2002, 31, 671-680.	1.2	17
108	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

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109	Enthalpies of squalane dissolution in mixtures of acetone with isomeric butyl alcohols. Russian Chemical Bulletin, 1999, 48, 2263-2266.	1.5	0
110	Thermochemistry of dissolution of aniline in mixtures of water with methanol and tert-butyl alcohol. Russian Chemical Bulletin, 1998, 47, 2391-2398.	1.5	5