

Timur A Mukhametzyanov

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

831
citations

516710

16
h-index

580821

25
g-index

61
all docs

61
docs citations

61
times ranked

545
citing authors

#	ARTICLE	IF	CITATIONS
1	New method for determination of vaporization and sublimation enthalpy of aromatic compounds at 298.15 K using solution calorimetry technique and group-additivity scheme. <i>Thermochimica Acta</i> , 2015, 622, 88-96.	2.7	81
2	Melting temperature and heat of fusion of cytosine revealed from fast scanning calorimetry. <i>Thermochimica Acta</i> , 2017, 657, 47-55.	2.7	46
3	Additive scheme for calculation of solvation enthalpies of heterocyclic aromatic compounds. Sublimation/vaporization enthalpy at 298.15 K. <i>Thermochimica Acta</i> , 2016, 633, 37-47.	2.7	38
4	Enthalpies of fusion and enthalpies of solvation of aromatic hydrocarbons derivatives: Estimation of sublimation enthalpies at 298.15 K. <i>Thermochimica Acta</i> , 2016, 627-629, 77-82.	2.7	38
5	Enthalpies of solution, enthalpies of fusion and enthalpies of solvation of polyaromatic hydrocarbons: Instruments for determination of sublimation enthalpy at 298.15K. <i>Thermochimica Acta</i> , 2015, 622, 107-112.	2.7	36
6	Application of fast scanning calorimetry to the fusion thermochemistry of low-molecular-weight organic compounds: Fast-crystallizing m-terphenyl heat capacities in a deeply supercooled liquid state. <i>Thermochimica Acta</i> , 2018, 668, 96-102.	2.7	33
7	Cellular imaging by green luminescence of Tb(III)-doped aminomodified silica nanoparticles. <i>Materials Science and Engineering C</i> , 2017, 76, 551-558.	7.3	32
8	Growth and dissolution of crystal nuclei in poly(L-lactic acid) (PLLA) in Tammann's development method. <i>Polymer</i> , 2020, 196, 122453.	3.8	31
9	Synthesis and properties of chiral nanoparticles based on (pS)- and (pR)-deca-substituted pillar[5]arenes containing secondary amide fragments. <i>RSC Advances</i> , 2016, 6, 9124-9131.	3.6	25
10	Kinetic stability of amorphous solid dispersions with high content of the drug: A fast scanning calorimetry investigation. <i>International Journal of Pharmaceutics</i> , 2019, 562, 113-123.	5.2	24
11	The fusion thermochemistry of self-associated aromatic compounds at 298.15 K studied by solution calorimetry. <i>Journal of Chemical Thermodynamics</i> , 2019, 137, 43-47.	2.0	22
12	Tetracarboxylic acids on a thiacalixarene scaffold: synthesis and binding of dopamine hydrochloride. <i>New Journal of Chemistry</i> , 2018, 42, 177-183.	2.8	20
13	Influence of the Cross-Link Density on the Rate of Crystallization of Poly(μ -Caprolactone). <i>Polymers</i> , 2018, 10, 902.	4.5	20
14	Tuning magnetic relaxation properties of "hard cores" in core-shell colloids by modification of "soft shell". <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 52-59.	5.0	19
15	Thermochemical properties of 1,2,3,4-tetraphenyl-naphthalene and 1,3,5-triphenylbenzene in crystalline and liquid states studied by solution and fast scanning calorimetry. <i>Journal of Molecular Liquids</i> , 2019, 278, 394-400.	4.9	19
16	Crystallization kinetics and glass-forming ability of rapidly crystallizing drugs studied by Fast Scanning Calorimetry. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120427.	5.2	19
17	The fusion thermochemistry of rubrene and 9,10-diphenylanthracene between 298 and 650 K: Fast scanning and solution calorimetry. <i>Thermochimica Acta</i> , 2020, 693, 178778.	2.7	17
18	Long-chain linear alcohols: Reconciliation of phase transition enthalpies. <i>Journal of Chemical Thermodynamics</i> , 2020, 146, 106103.	2.0	17

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19	Hexamorphism of Dantrolene: Insight into the Crystal Structures, Stability, and Phase Transformations. <i>Crystal Growth and Design</i> , 2021, 21, 1190-1201.	3.0	16
20	Thermally induced cyclization of L-tryptophan-L-alanine in solid state: Effect of dipeptide structure on reaction temperature and self-assembly. <i>Journal of Peptide Science</i> , 2019, 25, e3177.	1.4	15
21	Kinetic stability of amorphous dipyrindamole: A fast scanning calorimetry investigation. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118890.	5.2	15
22	Self-Assembly of Supramolecular Architectures by the Effect of Amino Acid Residues of Quaternary Ammonium Pillar[5]arenes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7206.	4.1	15
23	Application of the Flash DSC 1 and 2+ for vapor pressure determination above solids and liquids. <i>Thermochimica Acta</i> , 2021, 706, 179067.	2.7	13
24	PAMAM-calix-dendrimers: Synthesis and Thiacalixarene Conformation Effect on DNA Binding. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11901.	4.1	13
25	A new method for heat capacity determination in supercooled liquid state using fast scanning calorimetry: Thermochemical study of 9,9'-bifluorenyl. <i>Thermochimica Acta</i> , 2020, 694, 178805.	2.7	12
26	Fast scanning calorimetry of lysozyme unfolding at scanning rates from 5 K/min to 500,000 K/min. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2024-2030.	2.4	11
27	Microspherical Particles of Solid Dispersion of Polyvinylpyrrolidone K29-32 for Inhalation Administration. <i>BioMed Research International</i> , 2018, 2018, 1-12.	1.9	11
28	Intermolecular interactions between imidazolium- and cholinium-based ionic liquids and lysozyme: Regularities and peculiarities. <i>Journal of Molecular Liquids</i> , 2022, 348, 118426.	4.9	11
29	The Effect of Dimethyl Sulfoxide on the Lysozyme Unfolding Kinetics, Thermodynamics, and Mechanism. <i>Biomolecules</i> , 2019, 9, 547.	4.0	10
30	Supramolecular approaches to the formation of nanostructures based on phosphonate-thiacalix[4]arenes, their selective lysozyme recognition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 611, 125897.	4.7	10
31	Self-assembly of chiral fluorescent nanoparticles based on water-soluble L-tryptophan derivatives of p-tert-butylthiacalix[4]arene. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1825-1835.	2.8	9
32	Organoboron Ionic Liquids as Extractants for Distillation Process of Binary Ethanol + Water Mixtures. <i>Processes</i> , 2020, 8, 628.	2.8	9
33	Fast Scanning Calorimetry of Organic Materials from Low Molecular Mass Materials to Polymers. <i>Reviews and Advances in Chemistry</i> , 2021, 11, 1-72.	0.5	9
34	The ability of ionic liquids to form hydrogen bonds with organic solutes evaluated by different experimental techniques. Part II. Alkyl substituted pyrrolidinium- and imidazolium-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2020, 309, 113138.	4.9	8
35	Water-soluble pillar[5]arene sulfo-derivatives self-assemble into biocompatible nanosystems to stabilize therapeutic proteins. <i>Bioorganic Chemistry</i> , 2021, 117, 105415.	4.1	8
36	A study of the formation of magnetically active solid dispersions of phenacetin using atomic and magnetic force microscopy. <i>Journal of Advanced Pharmaceutical Technology and Research</i> , 2017, 8, 2.	1.0	8

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37	Class Transition Kinetics and Physical Aging of Polyvinylpyrrolidones with Different Molecular Masses. <i>Macromolecules</i> , 2022, 55, 4516-4522.	4.8	8
38	Impact of oppositely charged shell and cores on interaction of core-shell colloids with differently charged proteins as a route for tuning of the colloids cytotoxicity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111306.	5.0	7
39	A procedure for calibration of differential scanning calorimeters. <i>Thermochimica Acta</i> , 2016, 639, 10-13.	2.7	5
40	A Glucose-Responsive Polymer Nanocarrier Based on Sulfonated Resorcinarene for Controlled Insulin Delivery. <i>ChemPlusChem</i> , 2019, 84, 1560-1566.	2.8	5
41	Nanostructured Polyelectrolyte Complexes Based on Water-Soluble Thiacalix[4]Arene and Pillar[5]Arene: Self-Assembly in Micelleplexes and Polyplexes at Packaging DNA. <i>Nanomaterials</i> , 2020, 10, 777.	4.1	5
42	Thermochemistry of Solution, Solvation, and Hydrogen Bonding of Cyclic Amides in Proton Acceptor and Donor Solvents. Amide Cycle Size Effect. <i>Molecules</i> , 2021, 26, 1411.	3.8	5
43	Refolding of Lysozyme in Glycerol as Studied by Fast Scanning Calorimetry. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2773.	4.1	5
44	Structure-Functional Characteristics of the Svx Protein- The Virulence Factor of the Phytopathogenic Bacterium <i>Pectobacterium atrosepticum</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 6914.	4.1	5
45	Effect of tetrahydrofuran on the binding of the competitive inhibitor proflavin and the storage stability of bovine pancreatic \pm -chymotrypsin. <i>Engineering in Life Sciences</i> , 2009, 9, 82-88.	3.6	4
46	Lipoplexes of dicationic gemini surfactants with DNA: Structural features of DNA compaction and transfection efficiency. <i>Doklady Biochemistry and Biophysics</i> , 2015, 465, 432-435.	0.9	4
47	Calorimetric observation of lysozyme degradation at elevated temperature in water and DMSO-water mixtures. <i>Thermochimica Acta</i> , 2021, 695, 178826.	2.7	4
48	Effect of cation structure on the formation of hydrogen bond between ionic liquids and solute molecules. <i>Journal of Molecular Liquids</i> , 2021, 334, 116089.	4.9	4
49	Formation of microspherical particles of albumin with model drug using spray drying process. <i>Biointerface Research in Applied Chemistry</i> , 2019, 9, 4605-4611.	1.0	4
50	Crystal Nucleation and Growth in Cross-Linked Poly(μ -caprolactone) (PCL). <i>Polymers</i> , 2021, 13, 3617.	4.5	4
51	Effect of acetonitrile on the binding of competitive inhibitor proflavin and on the catalytic activity of bovine pancreatic \pm -chymotrypsin. <i>Russian Journal of Physical Chemistry A</i> , 2006, 80, 803-808.	0.6	3
52	Lysozyme-Based Composite Drug Preparations for Inhalation Administration. <i>BioNanoScience</i> , 2019, 9, 131-140.	3.5	3
53	Hydrogen bonding of linear and cyclic amides in ionic liquids. <i>Thermochimica Acta</i> , 2020, 692, 178757.	2.7	3
54	2D Monomolecular Nanosheets Based on Thiacalixarene Derivatives: Synthesis, Solid State Self-Assembly and Crystal Polymorphism. <i>Nanomaterials</i> , 2020, 10, 2505.	4.1	3

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55	Effect of dioxane on the binding of competitive inhibitor proflavin and catalytic activity of bovine pancreatic β -chymotrypsin. Russian Journal of Physical Chemistry A, 2007, 81, 1160-1164.	0.6	2
56	Group additive approach for heterocyclic aromatic solutes in [BMIM][BF ₄]. Journal of Molecular Liquids, 2021, 321, 114746.	4.9	2
57	Step-scan differential calorimetry of protein denaturation: Modeling and experiment. Thermochimica Acta, 2022, 710, 179181.	2.7	2
58	The temperature coefficients of volume changes in first and second order isopolar reactions in a liquid phase. High Temperatures - High Pressures, 2020, 48, 353-366.	0.3	1
59	Structure of amyloidogenic PAP(85-120) peptide by high-resolution NMR spectroscopy. Journal of Molecular Structure, 2022, 1253, 132294.	3.6	0
60	Micelleplexes and polyplexes with DNA from salmon sperm based on pillar[5]arenes and thiacalix[4]arene. AIP Conference Proceedings, 2022, , .	0.4	0