

Marat A Ziganshin

List of Publications by Year in descending order

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all docs

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79
times ranked

545
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#	ARTICLE	IF	CITATIONS
1	Functional supramolecular systems: design and applications. <i>Russian Chemical Reviews</i> , 2021, 90, 895-1107.	6.5	93
2	Molecular Recognition of Organic Vapors by Adamantylcalix[4]arene in QCM Sensor Using Partial Binding Reversibility. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15569-15575.	2.6	45
3	Enthalpies of Vaporization and Sublimation of the Halogen-Substituted Aromatic Hydrocarbons at 298.15 K: Application of Solution Calorimetry Approach. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 748-761.	1.9	45
4	Thermally induced diphenylalanine cyclization in solid phase. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 905-912.	3.6	37
5	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
6	Unusually High Selectivity of Guest Exchange in <i>tert</i> -Butylthiacalix[4]arene Clathrate Producing More Thermostable Inclusion and Memory of Guest. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11379-11385.	2.6	32
7	The effect of substrate and air humidity on morphology of films of L-leucyl-L-leucine dipeptide. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014, 50, 49-54.	1.1	30
8	New aspects of relationship between the enthalpies of fusion of aromatic compounds at the melting temperatures and the enthalpies of solution in benzene at 298.15 K. Part I. <i>Journal of Chemical Thermodynamics</i> , 2018, 116, 152-158.	2.0	29
9	Nonregular structure-property relationships for inclusion parameters of <i>tert</i> -butylcalix[5]arene. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 1472-1478.	2.8	27
10	Thermally Induced Self-Assembly and Cyclization of <i>Leucyl</i> - <i>Leucine</i> in Solid State. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8603-8610.	2.6	24
11	Metastable <i>tert</i> -butylcalix[6]arene with unusually large tunable free volume for non-threshold enclathration of volatiles. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 982.	2.8	22
12	Thermochemical properties of mono- and di-cyano-aromatic compounds at 298.15 K. <i>Thermochimica Acta</i> , 2018, 668, 152-158.	2.7	22
13	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
14	Guest exchange in dimeric capsules of a tetraurea calix[4]arene in the solid state. <i>Chemical Communications</i> , 2006, , 3897-3899.	4.1	21
15	Unusually High Efficiency of β -Cyclodextrin Clathrate Preparation by Water-Free Solid-Phase Guest Exchange. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14544-14556.	2.6	20
16	Molecular recognition of organic guest vapor by solid adamantylcalix[4]arene. <i>Russian Chemical Bulletin</i> , 2004, 53, 60-65.	1.5	19
17	New aspects of relationship between the enthalpies of fusion of aromatic compounds at the melting temperature and the enthalpies of solution in benzene at 298.15 K. Part II. <i>Journal of Chemical Thermodynamics</i> , 2018, 120, 21-26.	2.0	19
18	Thermochemical properties of 1,2,3,4-tetraphenylnaphthalene 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

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19	Interaction of L-leucyl-L-leucyl-L-leucine thin film with water and organic vapors: receptor properties and related morphology. <i>Journal of Peptide Science</i> , 2012, 18, 209-214.	1.4	18
20	The fusion thermochemistry of rubrene and 9,10-diphenylanthracene between 298 and 650 K: Fast scanning and solution calorimetry. <i>Thermochemica Acta</i> , 2020, 693, 178778.	2.7	17
21	Smart Molecular Recognition: From Key-to-Lock Principle to Memory-Based Selectivity. <i>Frontiers in Chemistry</i> , 2020, 7, 933.	3.6	17
22	Supramolecular interactions of solid human serum albumin with binary mixtures of solvent vapors. <i>Biophysical Chemistry</i> , 1999, 81, 107-123.	2.8	16
23	Molecular recognition of chloroform by divergent polymorphic transitions in tert-butylthiacalix[4]arene tetrasubstituted with N-(2-hydroxyethyl)carbamoylmethoxy groups in a lower rim. <i>Mendeleev Communications</i> , 2011, 21, 291-292.	1.6	16
24	Twice as smart behavior of tert-butylthiacalix[4]arene derivative in glassy and crystalline form. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15887-15895.	2.8	16
25	Non-zeolitic properties of the dipeptide L-leucyl-L-leucine as a result of the specific nanostructure formation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13788-13797.	2.8	16
26	Role of water in the formation of unusual organogels with cyclo(L-leucyl-L-leucyl). <i>Soft Matter</i> , 2019, 15, 3595-3606.	2.7	16
27	Thermally induced cyclization of L-isoleucyl-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
28	Using clathrate pseudopolymorphism for a single sensor detection of target component in the headspace of liquid mixture. <i>Sensors and Actuators B: Chemical</i> , 2010, 148, 264-268.	7.8	14
29	Interaction of L-alanyl-L-valine and L-valyl-L-alanine with organic vapors: thermal stability of clathrates, sorption capacity and the change in the morphology of dipeptide films. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20168-20177.	2.8	14
30	Using fast scanning calorimetry to study solid-state cyclization of dipeptide L-leucyl-L-leucine. <i>Thermochemica Acta</i> , 2020, 692, 178748.	2.7	13
31	A new method for heat capacity determination in supercooled liquid state using fast scanning calorimetry: Thermochemical study of 9,9'-bifluorenyl. <i>Thermochemica Acta</i> , 2020, 694, 178805.	2.7	12
32	The heat capacities and fusion thermochemistry of sugar alcohols between 298.15 K and T _m : The study of D-sorbitol, D-mannitol and myo-inositol. <i>Journal of Molecular Liquids</i> , 2021, 330, 115545.	4.9	12
33	Specific vapor sorption properties of phosphorus-containing dendrimers. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 204-210.	9.4	11
34	Formation of phase composition of petroleum bitumen according to data of temperature modulated differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 555-560.	3.6	11
35	Thermochemistry of drugs: experimental and theoretical study of analgesics. <i>Structural Chemistry</i> , 2019, 30, 247-261.	2.0	11
36	Interpretation of Double-Peak Endotherm on DSC Heating Curves of Bitumen. <i>Energy & Fuels</i> , 2020, 34, 3960-3968.	5.1	11

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37	Vapor sorption of organic compounds on human serum albumin. <i>Journal of Physical Organic Chemistry</i> , 1997, 10, 901-907.	1.9	10
38	Thermal analysis of charge-transfer complex formed by nitrogen dioxide and substituted calix[4]arene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1309-1313.	3.6	10
39	Thermal analysis of clathrates of tripeptide LLL with organic compounds and water. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1811-1816.	3.6	10
40	Using fast scanning calorimetry to detect guest-induced polymorphism by irreversible phase transitions in the nanogram scale. <i>CrystEngComm</i> , 2019, 21, 1034-1041.	2.6	10
41	Smart control of calixarene polymorphic states. <i>CrystEngComm</i> , 2020, 22, 7002-7015.	2.6	10
42	Effect of the size of calixarene macrocycle on the thermodynamic parameters of formation of inclusion compounds in guest vapor–solid host systems. <i>Russian Chemical Bulletin</i> , 2004, 53, 1536-1543.	1.5	9
43	Cooperative hydration effect on the binding of organic vapors by a cross-linked polymer and beta-cyclodextrin. <i>Macromolecular Symposia</i> , 2004, 210, 263-270.	0.7	9
44	Formation of nanoislands on the surface of thin dipeptide films under the effect of vaporous organic compounds. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2009, 45, 525-528.	1.1	9
45	The effect of a substrate on the morphology of dipeptide (L-valyl-L-alanine) films before and after their interaction with pyridine vapor. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013, 49, 274-279.	1.1	9
46	Selective preparation of beta-cyclodextrin clathrates by solid-phase exchange of included tetrahydrofurane for volatile guests in absence of water. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 987-992.	3.6	9
47	Anti-sieve effect in guest inclusion by thiacalix[4]arene giving a surge in thermal stability of its clathrates prepared by solid-phase guest exchange. <i>CrystEngComm</i> , 2014, 16, 3781-3787.	2.6	9
48	Smart Polymorphism of Thiacalix[4]arene with Long-Chain Amide Containing Substituents. <i>Crystal Growth and Design</i> , 2017, 17, 3512-3527.	3.0	9
49	Size exclusion effect in binary inclusion compounds of β -cyclodextrin. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26105-26116.	2.8	9
50	The study of bitumen by differential scanning calorimetry: The interpretation of thermal effects. <i>Petroleum Science and Technology</i> , 2019, 37, 417-424.	1.5	9
51	Additive and antagonistic effects of substrate and vapors on self-assembly of glycyl-glycine in thin films. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 690, 67-83.	0.9	9
52	Cold crystallization event on DSC heating curves of bitumen. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 5269-5278.	3.6	9
53	Analysis of guest binary mixtures by tert-butylcalix[6]arene using host memory of previously bound guests. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1318.	2.8	8
54	Smart control of guest inclusion by β -cyclodextrin using its hydration history. <i>RSC Advances</i> , 2019, 9, 37778-37787.	3.6	8

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55	Thermal Stability, Sorption Properties and Morphology of Films of Dipeptide and Tripeptide Based on L-Glycine. <i>Oriental Journal of Chemistry</i> , 2015, 31, 1977-1984.	0.3	8
56	Using water-mimic organic compounds to activate guest inclusion by initially dry beta-cyclodextrin. <i>RSC Advances</i> , 2016, 6, 61984-61995.	3.6	7
57	Homotropic cooperative binding of organic solvent vapors by solid trypsin. <i>BBA - Proteins and Proteomics</i> , 2001, 1545, 326-338.	2.1	6
58	On the Solvation Behavior of Graphene Oxide in Ethylene Glycol/Water Mixtures. <i>ChemPhysChem</i> , 2018, 19, 1344-1348.	2.1	6
59	Nonlinear effect of two remembered guests in their mixtures on the host memory for guest inclusion and release. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 627-632.	3.6	5
60	Polymorphism and thermodynamic properties of chloro(cyclopentadienyl)bis(triphenylphosphine)ruthenium(II) complex. <i>Journal of Organometallic Chemistry</i> , 2016, 805, 49-53.	1.8	5
61	Configuration effect of the tert-butylthiacalix[4]arene tetracarboxy derivative on its receptor properties toward vaporous organic compounds. <i>Russian Chemical Bulletin</i> , 2009, 58, 71-79.	1.5	4
62	Crystal Nucleation and Growth in Cross-Linked Poly(μ -caprolactone) (PCL). <i>Polymers</i> , 2021, 13, 3617.	4.5	4
63	Lysozyme-Based Composite Drug Preparations for Inhalation Administration. <i>BioNanoScience</i> , 2019, 9, 131-140.	3.5	3
64	2D Monomolecular Nanosheets Based on Thiacalixarene Derivatives: Synthesis, Solid State Self-Assembly and Crystal Polymorphism. <i>Nanomaterials</i> , 2020, 10, 2505.	4.1	3
65	Thermodynamics of dissolution and infrared-spectroscopy of solid dispersions of phenacetin. <i>Journal of Advanced Pharmaceutical Technology and Research</i> , 2016, 7, 6.	1.0	3
66	Structure-property relationship for clathrates formed in systems with guest vapor and 1,3-disubstituted tert-butylcalix[4]arene. <i>Journal of Structural Chemistry</i> , 2005, 46, S33-S38.	1.0	2
67	Molecular recognition of organic compounds by the data on polymorphic and pseudo-polymorphic transformations of tert-butylthiacalix[4]arene derivative. <i>Russian Chemical Bulletin</i> , 2014, 63, 201-206.	1.5	2
68	AFM study of thin films of oligopeptide L-valyl-L-valine before and after interaction with vapors. <i>Journal of Surface Investigation</i> , 2016, 10, 210-216.	0.5	2
69	Binary systems based on aromatic amines with a view of development of novel hardeners for epoxy resins. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 643-650.	3.6	2
70	Guest exchange in anhydrous inclusion compounds of β -cyclodextrin and its amorphization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 2417.	3.6	2
71	Smart thermal behavior of tripeptide leucyl-leucyl-leucine towards vapors of binary mixture of benzene and tetrachloromethane. <i>Thermochimica Acta</i> , 2021, 700, 178937.	2.7	1
72	Stabilization of metastable polymorphic form of glycine by glucose. <i>AIP Conference Proceedings</i> , 2022, ..	0.4	1

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73	Rheological properties of epoxy oligomers and their mixtures in a wide temperature range. Russian Chemical Bulletin, 2014, 63, 247-251.	1.5	0
74	Liquid Silyl Derivative of beta-Cyclodextrin. Macroheterocycles, 2017, 10, 233-237.	0.5	0
75	Microspherical particles of solid dispersion of dipyridamole for inhalation administration. AIP Conference Proceedings, 2022, , .	0.4	0
76	Micro-sized composite drugs based on sodium caseinate for inhalation administration. AIP Conference Proceedings, 2022, , .	0.4	0