Valeri A Drebushchak

List of Publications by Year
in descending order

104	1,912	279798	315739
papers	citations	23 h-index	38 g-index

105	105	105	1684
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polymorphism of glycine, Part I. Journal of Thermal Analysis and Calorimetry, 2003, 73, 409-418.	3.6	170
2	Polymorphism of glycine, Part II. Journal of Thermal Analysis and Calorimetry, 2003, 73, 419-428.	3.6	102
3	Calibration coefficient of a heat-flow DSC; Part II. Optimal calibration procedure. Journal of Thermal Analysis and Calorimetry, 2005, 79, 213-218.	3.6	97
4	DSC and adiabatic calorimetry study of the polymorphs of paracetamol. Journal of Thermal Analysis and Calorimetry, 2004, 77, 607-623.	3.6	91
5	The investigation of ancient pottery. Journal of Thermal Analysis and Calorimetry, 2005, 82, 617-626.	3.6	57
6	Advances in elucidating mechanochemical complexities via implementation of a simple organic system. Faraday Discussions, 2014, 170, 311-335.	3.2	47
7	Thermal expansion of solids: review on theories. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1097-1113.	3.6	47
8	Low-temperature heat capacity of ?-glycine and a phase transition at 252 K. Journal of Thermal Analysis and Calorimetry, 2005, 79, 65-70.	3.6	46
9	Low-temperature heat capacity of Î± and Î³ polymorphs of glycine. Journal of Thermal Analysis and Calorimetry, 2003, 74, 109-120.	3.6	44
10	Solid-state transformations in the Î²-form of chlorpropamide on cooling to 100â€…K. Acta Crystallographica Section B: Structural Science, 2011, 67, 163-176.	1.8	42
11	Furosemide Solvates: Can They Serve As Precursors to Different Polymorphs of Furosemide?. Crystal Growth and Design, 2014, 14, 513-522.	3.0	38
12	Glycine phases formed from frozen aqueous solutions: Revisited. Journal of Chemical Physics, 2012, 137, 065103.	3.0	37
13	Transitions among five polymorphs of chlorpropamide near the melting point. Journal of Thermal Analysis and Calorimetry, 2008, 93, 343-351.	3.6	36
14	Thermoanalytical investigation of drugâ€“excipient interaction. Journal of Thermal Analysis and Calorimetry, 2006, 86, 303-309.	3.6	33
15	An Extended Phase Transition in Crystalline<scp>l</scp>-Cysteine near 70 K. Journal of Physical Chemistry B, 2007, 111, 9186-9188.	2.6	33
16	The Peltier effect. Journal of Thermal Analysis and Calorimetry, 2008, 91, 311-315.	3.6	32
17	Recommendations on DSC calibration. Journal of Thermal Analysis and Calorimetry, 2016, 124, 951-958.	3.6	30
18	Synthesis and calorimetric investigation of stoichiometric Fe-spinels: MgFe2O4. Journal of Crystal Growth, 2004, 265, 165-167.	1.5	29

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19	Observation of subtle dynamic transitions by a combination of neutron scattering, X-ray diffraction and DSC: A case study of the monoclinic l-cysteine. Biophysical Chemistry, 2010, 148, 34-41.	2.8	29
20	Thermogravimetric investigation of ancient ceramics. Journal of Thermal Analysis and Calorimetry, 2007, 90, 73-79.	3.6	27
21	Low-temperature heat capacity of heulandite: comparison with clinoptilolite. Thermochimica Acta, 2000, 348, 33-40.	2.7	26
22	Calibration coefficient of a heat-flow DSC. Part I. Relation to the Sensitivity of a thermocouple. Journal of Thermal Analysis and Calorimetry, 2004, 76, 941-947.	3.6	26
23	Decreasing particle size helps to preserve metastable polymorphs. A case study of dl-cysteine. CrystEngComm, 2011, 13, 4417.	2.6	25
24	Low-temperature phase transition in glycineâ€“glutaric acid co-crystals studied by single-crystal X-ray diffraction, Raman spectroscopy and differential scanning calorimetry. Acta Crystallographica Section B: Structural Science, 2012, 68, 287-296.	1.8	25
25	Isoenergetic Polymorphism: The Puzzle of Tolazamide as a Case Study. Chemistry - A European Journal, 2015, 21, 15395-15404.	3.3	24
26	Thermal properties of the midinfrared nonlinear crystal LiInSe2. Journal of Applied Physics, 2004, 96, 3659-3665.	2.5	23
27	The mass-loss diagram for the ancient ceramics. Journal of Thermal Analysis and Calorimetry, 2011, 104, 459-466.	3.6	23
28	A new polymorph of metacetamol. CrystEngComm, 2015, 17, 6183-6192.	2.6	23
29	FT-IR and FT-Raman spectra of five polymorphs of chlorpropamide. Experimental study and ab initio calculations. Journal of Molecular Structure, 2008, 891, 75-86.	3.6	22
30	Single-crystal to single-crystal conformational polymorphic transformation in tolbutamide at 313 K. Relation to other polymorphic transformations in tolbutamide and chlorpropamide. CrystEngComm, 2016, 18, 5736-5743.	2.6	22
31	Heat capacity of D- and DL-serine in a temperature range of 5.5 to 300 K. Journal of Thermal Analysis and Calorimetry, 2007, 89, 649-654.	3.6	20
32	Thermodynamic and kinetic stability of inclusion compounds under heating. Journal of Thermal Analysis and Calorimetry, 2007, 90, 23-30.	3.6	20
33	Synthesis of pure pentlandite in bulk. Journal of Crystal Growth, 1998, 193, 728-731.	1.5	17
34	Experimental study of boron solubility and speciation in the Na2Oâ€“B2O3â€“SiO2â€“H2O system. Chemical Geology, 2005, 223, 16-34.	3.3	17
35	Kinetic and thermodynamic stability of cluster compounds under heating. Journal of Thermal Analysis and Calorimetry, 2007, 88, 687-692.	3.6	17
36	Thermal and thermo-optic parameters of LiInSe2 single crystals. Journal of Crystal Growth, 2005, 275, e1679-e1684.	1.5	16

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37	Thermoanalytical investigation of drug-excipient interaction. Journal of Thermal Analysis and Calorimetry, 2006, 84, 643-649.	3.6	16
38	Influence of mechanical treatment on the properties of betulin, betulin diacetate, and their mixture with water-soluble polymers. Chemistry of Natural Compounds, 2011, 47, 229-233.	0.8	16
39	Thermoanalytical investigations of ancient ceramics. Journal of Thermal Analysis and Calorimetry, 2018, 133, 135-176.	3.6	16
40	Ionic and molecular diffusion and the order-disorder phase transition in the thallium form of natrolite. Journal of Structural Chemistry, 1990, 31, 56-63.	1.0	15
41	Relationship Between Heat Capacity and Thermal Expansion Derived from the Lennardâ€“Jones Potential. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2001, 65, 745-753.	1.4	15
42	Two mechanisms of thermal expansion in perovskite SrCo0.6Fe0.2Nb0.2O3-z. Journal of Thermal Analysis and Calorimetry, 2010, 100, 79-82.	3.6	15
43	Heat capacity of Î±-glycylglycine in a temperature range of 6 to 440 K. Journal of Thermal Analysis and Calorimetry, 2006, 85, 485-490.	3.6	14
44	Dynamic Pseudo Jahnâ€’Teller Effect and the Phase Transition Induced by Absorption of Molecules in Metalâ€’Organic Nanotube Framework. Journal of Physical Chemistry C, 2008, 112, 5074-5077.	3.1	14
45	Phase transition at thermal dehydration in stilbite. Journal of Thermal Analysis and Calorimetry, 2012, 107, 1293-1299.	3.6	14
46	Polymorphic effects at the eutectic melting in the H2Oâ€“glycine system. Journal of Thermal Analysis and Calorimetry, 2013, 111, 2187-2194.	3.6	14
47	Measurements of Heat of Zeolite Dehydration by Scanning Heating. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 58, 653-662.	1.4	13
48	Formation and properties of hydrosilicate liquids in the systems Na2O-Al2O3-SiO2-H2O and granite-Na2O-SiO2-H2O at 600Â°C and 1.5 kbar. Petrology, 2014, 22, 293-309.	0.9	13
49	Experimental heat capacity of LiInS2, LiInSe2, LiGaS2, LiGaSe2, and LiGaTe2 from 180 to 460ÂK. Journal of Thermal Analysis and Calorimetry, 2017, 129, 103-108.	3.6	13
50	Mechanochemical Synthesis of Nanocomposites of Drugs with Inorganic Oxides. Materials and Manufacturing Processes, 2009, 24, 1064-1071.	4.7	12
51	Physical properties and structure of bound water in collagen-type fibrillar proteins as studied by scanning calorimetry. JETP Letters, 2005, 82, 613-615.	1.4	11
52	Calibration coefficient of a heat flow DSC. Journal of Thermal Analysis and Calorimetry, 2007, 90, 289-298.	3.6	11
53	Thermophysical theory of DSC melting peak. Journal of Thermal Analysis and Calorimetry, 2012, 109, 545-553.	3.6	11
54	Natural specimen of triple solid solution ettringiteâ€“thaumasiteâ€“chromate-ettringite. Journal of Thermal Analysis and Calorimetry, 2013, 114, 777-783.	3.6	11

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55	Thermogravimetric investigation of the phase transition in the zeolite heulandite at dehydration. Thermochimica Acta, 1990, 159, 377-381.	2.7	10
56	CsLiB6O10 crystals with Cs deficit: structure and properties. Journal of Crystal Growth, 2005, 282, 407-413.	1.5	10
57	Low-temperature heat capacity of magnesioferrite, MgFe2O4. Journal of Thermal Analysis and Calorimetry, 2008, 92, 717-721.	3.6	10
58	Universality of the emf of thermocouples. Thermochimica Acta, 2009, 496, 50-53.	2.7	10
59	Cooling rate â€œwindowâ€•in the crystallization of metacetamol form II. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1807-1814.	3.6	10
60	The stability of inclusion compounds under heating. Journal of Thermal Analysis and Calorimetry, 2007, 90, 463-467.	3.6	9
61	Low-temperature heat capacity of diglycylglycine. Journal of Thermal Analysis and Calorimetry, 2008, 93, 865-869.	3.6	9
62	Heat capacity of Î²-alanine in a temperature range between 6 and 300ÂK. Journal of Thermal Analysis and Calorimetry, 2009, 98, 873-876.	3.6	9
63	Melting of orthorhombic betulin. Journal of Thermal Analysis and Calorimetry, 2013, 111, 2005-2008.	3.6	9
64	1A1 5T2 Spin transition in the solid phases of FexNi1-x(ATr)3(NO3)2 (ATr = 4- amino- 1,2,4- triazole). Journal of Structural Chemistry, 1997, 38, 578-584.	1.0	8
65	Mechanism and modelling of formation of amorphous sulfur nuclei. Mendeleev Communications, 2003, 13, 37-38.	1.6	8
66	Low-temperature heat capacity of monoclinic enstatite. Journal of Thermal Analysis and Calorimetry, 2008, 94, 493-497.	3.6	8
67	Phase transition at 204â€“250 K in the crystals of Î²-alanine: kinetically irreproduceable, or an artefact?. Phase Transitions, 2009, 82, 497-506.	1.3	8
68	The stability of inclusion compounds under heating. Journal of Thermal Analysis and Calorimetry, 2010, 100, 183-189.	3.6	8
69	New interpretation of heat effects in polymorphic transitions. Journal of Thermal Analysis and Calorimetry, 2013, 113, 419-424.	3.6	8
70	Decay of (Fe1â^'xNix)0.96S DSC investigation. Journal of Thermal Analysis, 1997, 48, 727-734.	0.6	7
71	Changes in the heat capacity of Al2O3-Cr2O3 solid solutions near the point of antiferromagnetic phase transition in Cr2O3. Journal of Thermal Analysis and Calorimetry, 2007, 90, 795-799.	3.6	7
72	Coefficients of thermal expansion of the potassium and rubidium halogenide plumbates. Journal of Thermal Analysis and Calorimetry, 2009, 95, 323-325.	3.6	6

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73	Heat capacity increases with pressure. Journal of Thermal Analysis and Calorimetry, 2009, 95, 313-317.	3.6	6
74	Cucurbituril-assisted transformation of nitronyl nitroxide into imino nitroxide in the solid state. CrystEngComm, 2011, 13, 3241.	2.6	6
75	Thermal transformations of the supramolecular compound of cucurbit[8]uril with cobalt(III) complex {trans-[Co(en)2Cl2]@CB[8]}ClÂ·17 H2O. Journal of Thermal Analysis and Calorimetry, 2011, 105, 103-106.	3.6	6
76	Thermal properties of betulin dipropionate and its mixtures with polymers. Journal of Thermal Analysis and Calorimetry, 2014, 115, 2521-2525.	3.6	6
77	Structural similarity and similarity in thermal properties of the polymorphs: melting and crystallization from the melt of tolbutamide and chlorpropamide. Journal of Thermal Analysis and Calorimetry, 2020, 142, 841-848.	3.6	6
78	Synthesis and characterization of sulfathiazole-pyridine solvate polymorphs. Journal of Crystal Growth, 2005, 274, 569-572.	1.5	5
79	Discrepancy in the low-temperature heat capacity of MgFe2O4 and related problems. Journal of Thermal Analysis and Calorimetry, 2014, 117, 443-446.	3.6	5
80	Probable metalâ€“insulator transition in Ag4SSe. Journal of Alloys and Compounds, 2015, 622, 236-242.	5.5	5
81	Refinement of NMR data on the structure of bound water in collagen using scanning calorimetry. Journal of Structural Chemistry, 2005, 46, 1131-1133.	1.0	4
82	Calorimetric search for the discontinuity in Fe0.96S-Ni0.96S solid solutions. Journal of Thermal Analysis and Calorimetry, 2007, 89, 303-307.	3.6	4
83	Synthesis and crystal structures of two polymorphs of sulfathiazole:pyridine (1:1) adducts. Structural Chemistry, 2007, 18, 449-456.	2.0	4
84	Approximation of the emf of a thermocouple. Journal of Thermal Analysis and Calorimetry, 2009, 96, 315-320.	3.6	4
85	Tuning of the nitronyl nitroxide radical magnetic and electronic properties by inclusion in cucurbit[n]urils. Polyhedron, 2011, 30, 3083-3087.	2.2	4
86	Concepts against mathematics: self-inconsistency in thermodynamic evaluations. Journal of Thermal Analysis and Calorimetry, 2011, 103, 753-759.	3.6	4
87	Thermocouples, their characteristic temperatures, and simple approximation of the emf vs. T. Thermochimica Acta, 2015, 603, 218-226.	2.7	4
88	Calorimetric measurements of sodium chloride dihydrate (hydrohalite). Journal of Thermal Analysis and Calorimetry, 2020, 140, 2555-2562.	3.6	4
89	Melting of PbBr2: A DSC investigation. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 57, 599-605.	1.4	3
90	Cation distribution in MgFe2O4 vs. pressure and temperature: Experiments in a "piston-cylinder" apparatus. American Mineralogist, 2005, 90, 764-767.	1.9	3

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91	Dechlorination of contaminated sediments of Ionian Sea. Journal of Thermal Analysis and Calorimetry, 2007, 90, 143-146.	3.6	3
92	From electrical analog to thermophysical modeling of DSC. Journal of Thermal Analysis and Calorimetry, 2011, 105, 495-500.	3.6	3
93	Microemulstion synthesis of powders of water-soluble energy-saturated salts. Russian Journal of Inorganic Chemistry, 2012, 57, 769-776.	1.3	3
94	Solid solutions in the MgO-Al2O3-Cr2O3 system. Journal of Thermal Analysis and Calorimetry, 2009, 95, 81-86.	3.6	2
95	Model-free temperature scaling for heat capacity. Journal of Thermal Analysis and Calorimetry, 2017, 130, 5-13.	3.6	2
96	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 56, 925-929.	1.4	1
97	Excess heat release during deuterium sorption-desorption by finely powdered palladium deuteride. Europhysics Letters, 2002, 58, 462-467.	2.0	1
98	Proton mobility in complex [RhL 4Cl2]HSO4 Â· nH2SO4 Â· mH2O salts (L = Py, Î³-picoline). Russian Journal of Electrochemistry, 2011, 47, 631-636.	0.9	1
99	Response to the comments by Prof. Swendsen on â€œConcepts against mathematics: self-inconsistency in thermodynamic evaluationsâ€• Journal of Thermal Analysis and Calorimetry, 2012, 110, 1553-1554.	3.6	1
100	Fine structure of the thermoanalytical peak of the phase transition in quartz. Journal of Structural Chemistry, 1996, 37, 150-151.	1.0	0
101	Crystal- chemical analysis of the metal- to- sulfur ratio in ternary solid solutions of (Fe, Co, Ni)9 S8 (pentlandite). Journal of Structural Chemistry, 1997, 38, 682-684.	1.0	0
102	On the unusual arrangement of metal atoms in pentlandite. Journal of Structural Chemistry, 1998, 39, 791-793.	1.0	0
103	Response to the comments by Prof. Acree. Journal of Thermal Analysis and Calorimetry, 2014, 117, 1013-1014.	3.6	0
104	Comments on â€œSpectroscopic and thermographic study of Niâ€“Zn ferritesâ€•by J.D. Baraliya and H.H. Joshi, J Therm Anal Calorim. 2015;119:85â€“90. Journal of Thermal Analysis and Calorimetry, 2015, 121, 543-544.	3.6	0