

# Valeri A Drebuschchak

## List of Publications by Year in descending order

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104  
papers

1,912  
citations

279798

23  
h-index

315739

38  
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105  
all docs

105  
docs citations

105  
times ranked

1684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calorimetric measurements of sodium chloride dihydrate (hydrohalite). Journal of Thermal Analysis and Calorimetry, 2020, 140, 2555-2562.	3.6	4
2	Thermal expansion of solids: review on theories. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1097-1113.	3.6	47
3	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
4	Thermoanalytical investigations of ancient ceramics. Journal of Thermal Analysis and Calorimetry, 2018, 133, 135-176.	3.6	16
5	Experimental heat capacity of LiInS <sub>2</sub> , LiInSe <sub>2</sub> , LiGaS <sub>2</sub> , LiGaSe <sub>2</sub> , and LiGaTe <sub>2</sub> from 180 to 460 K. Journal of Thermal Analysis and Calorimetry, 2017, 129, 103-108.	3.6	13
6	Model-free temperature scaling for heat capacity. Journal of Thermal Analysis and Calorimetry, 2017, 130, 5-13.	3.6	2
7	Cooling rate window in the crystallization of metacetamol form II. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1807-1814.	3.6	10
8	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
9	Recommendations on DSC calibration. Journal of Thermal Analysis and Calorimetry, 2016, 124, 951-958.	3.6	30
10	Isoenergetic Polymorphism: The Puzzle of Tolazamide as a Case Study. Chemistry - A European Journal, 2015, 21, 15395-15404.	3.3	24
11	A new polymorph of metacetamol. CrystEngComm, 2015, 17, 6183-6192.	2.6	23
12	Comments on "Spectroscopic and thermographic study of Ni-Zn ferrites" by J.D. Baraliya and H.H. Joshi, J Therm Anal Calorim. 2015;119:85-90. Journal of Thermal Analysis and Calorimetry, 2015, 121, 543-544.	3.6	0
13	Probable metal-insulator transition in Ag <sub>4</sub> SSe. Journal of Alloys and Compounds, 2015, 622, 236-242.	5.5	5
14	Thermocouples, their characteristic temperatures, and simple approximation of the emf vs. T. Thermochimica Acta, 2015, 603, 218-226.	2.7	4
15	Discrepancy in the low-temperature heat capacity of MgFe <sub>2</sub> O <sub>4</sub> and related problems. Journal of Thermal Analysis and Calorimetry, 2014, 117, 443-446.	3.6	5
16	Furosemide Solvates: Can They Serve As Precursors to Different Polymorphs of Furosemide?. Crystal Growth and Design, 2014, 14, 513-522.	3.0	38
17	Thermal properties of betulin dipropionate and its mixtures with polymers. Journal of Thermal Analysis and Calorimetry, 2014, 115, 2521-2525.	3.6	6
18	Advances in elucidating mechanochemical complexities via implementation of a simple organic system. Faraday Discussions, 2014, 170, 311-335.	3.2	47

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19	Response to the comments by Prof. Acree. Journal of Thermal Analysis and Calorimetry, 2014, 117, 1013-1014.	3.6	0
20	Formation and properties of hydrosilicate liquids in the systems Na <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -H <sub>2</sub> O and granite-Na <sub>2</sub> O-SiO <sub>2</sub> -H <sub>2</sub> O at 600°C and 1.5 kbar. Petrology, 2014, 22, 293-309.	0.9	13
21	Melting of orthorhombic betulin. Journal of Thermal Analysis and Calorimetry, 2013, 111, 2005-2008.	3.6	9
22	New interpretation of heat effects in polymorphic transitions. Journal of Thermal Analysis and Calorimetry, 2013, 113, 419-424.	3.6	8
23	Polymorphic effects at the eutectic melting in the H <sub>2</sub> O-glycine system. Journal of Thermal Analysis and Calorimetry, 2013, 111, 2187-2194.	3.6	14
24	Natural specimen of triple solid solution ettringite-thaumasite-chromate-ettringite. Journal of Thermal Analysis and Calorimetry, 2013, 114, 777-783.	3.6	11
25	Response to the comments by Prof. Swendsen on "Concepts against mathematics: self-inconsistency in thermodynamic evaluations". Journal of Thermal Analysis and Calorimetry, 2012, 110, 1553-1554.	3.6	1
26	Thermophysical theory of DSC melting peak. Journal of Thermal Analysis and Calorimetry, 2012, 109, 545-553.	3.6	11
27	Glycine phases formed from frozen aqueous solutions: Revisited. Journal of Chemical Physics, 2012, 137, 065103.	3.0	37
28	Low-temperature phase transition in glycine-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
29	Microemulsion synthesis of powders of water-soluble energy-saturated salts. Russian Journal of Inorganic Chemistry, 2012, 57, 769-776.	1.3	3
30	Phase transition at thermal dehydration in stilbite. Journal of Thermal Analysis and Calorimetry, 2012, 107, 1293-1299.	3.6	14
31	Cucurbituril-assisted transformation of nitronyl nitroxide into imino nitroxide in the solid state. CrystEngComm, 2011, 13, 3241.	2.6	6
32	Tuning of the nitronyl nitroxide radical magnetic and electronic properties by inclusion in cucurbit[n]urils. Polyhedron, 2011, 30, 3083-3087.	2.2	4
33	Decreasing particle size helps to preserve metastable polymorphs. A case study of dl-cysteine. CrystEngComm, 2011, 13, 4417.	2.6	25
34	Proton mobility in complex [RhL <sub>4</sub> Cl <sub>2</sub> ]HSO <sub>4</sub> · nH <sub>2</sub> SO <sub>4</sub> · mH <sub>2</sub> O salts (L = Py, $\beta$ -picoline). Russian Journal of Electrochemistry, 2011, 47, 631-636.	0.9	1
35	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
36	Concepts against mathematics: self-inconsistency in thermodynamic evaluations. Journal of Thermal Analysis and Calorimetry, 2011, 103, 753-759.	3.6	4

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37	From electrical analog to thermophysical modeling of DSC. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 495-500.	3.6	3
38	The mass-loss diagram for the ancient ceramics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 459-466.	3.6	23
39	Thermal transformations of the supramolecular compound of cucurbit[8]uril with cobalt(III) complex {trans-[Co(en) <sub>2</sub> Cl <sub>2</sub> ]@CB[8]}Cl·17 H <sub>2</sub> O. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 103-106.	3.6	6
40	Solid-state transformations in the $\beta$ -form of chlorpropamide on cooling to 100 K. <i>Acta Crystallographica Section B: Structural Science</i> , 2011, 67, 163-176.	1.8	42
41	Two mechanisms of thermal expansion in perovskite SrCo <sub>0.6</sub> Fe <sub>0.2</sub> Nb <sub>0.2</sub> O <sub>3-z</sub> . <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 79-82.	3.6	15
42	The stability of inclusion compounds under heating. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 183-189.	3.6	8
43	Observation of subtle dynamic transitions by a combination of neutron scattering, X-ray diffraction and DSC: A case study of the monoclinic l-cysteine. <i>Biophysical Chemistry</i> , 2010, 148, 34-41.	2.8	29
44	Solid solutions in the MgO-Al <sub>2</sub> O <sub>3</sub> -Cr <sub>2</sub> O <sub>3</sub> system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 81-86.	3.6	2
45	Coefficients of thermal expansion of the potassium and rubidium halogenide plumbates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 323-325.	3.6	6
46	Heat capacity increases with pressure. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 313-317.	3.6	6
47	Approximation of the emf of a thermocouple. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 96, 315-320.	3.6	4
48	Heat capacity of $\beta$ -alanine in a temperature range between 6 and 300 K. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 98, 873-876.	3.6	9
49	Universality of the emf of thermocouples. <i>Thermochimica Acta</i> , 2009, 496, 50-53.	2.7	10
50	Phase transition at 204–250 K in the crystals of $\beta$ -alanine: kinetically irreproducible, or an artefact?. <i>Phase Transitions</i> , 2009, 82, 497-506.	1.3	8
51	Mechanochemical Synthesis of Nanocomposites of Drugs with Inorganic Oxides. <i>Materials and Manufacturing Processes</i> , 2009, 24, 1064-1071.	4.7	12
52	The Peltier effect. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 91, 311-315.	3.6	32
53	Low-temperature heat capacity of monoclinic enstatite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 94, 493-497.	3.6	8
54	Transitions among five polymorphs of chlorpropamide near the melting point. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 93, 343-351.	3.6	36

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55	Low-temperature heat capacity of diglycylglycine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 93, 865-869.	3.6	9
56	Low-temperature heat capacity of magnesioferrite, MgFe <sub>2</sub> O <sub>4</sub> . <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 92, 717-721.	3.6	10
57	FT-IR and FT-Raman spectra of five polymorphs of chlorpropamide. Experimental study and ab initio calculations. <i>Journal of Molecular Structure</i> , 2008, 891, 75-86.	3.6	22
58	Dynamic Pseudo Jahn-Teller Effect and the Phase Transition Induced by Absorption of Molecules in Metal-Organic Nanotube Framework. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5074-5077.	3.1	14
59	An Extended Phase Transition in Crystalline $\alpha$ -Cysteine near 70 K. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9186-9188.	2.6	33
60	Calorimetric search for the discontinuity in Fe <sub>0.96</sub> S-Ni <sub>0.96</sub> S solid solutions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 89, 303-307.	3.6	4
61	Dechlorination of contaminated sediments of Ionian Sea. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 143-146.	3.6	3
62	Heat capacity of D- and DL-serine in a temperature range of 5.5 to 300 K. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 89, 649-654.	3.6	20
63	The stability of inclusion compounds under heating. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 463-467.	3.6	9
64	Calibration coefficient of a heat flow DSC. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 289-298.	3.6	11
65	Kinetic and thermodynamic stability of cluster compounds under heating. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 88, 687-692.	3.6	17
66	Changes in the heat capacity of Al <sub>2</sub> O <sub>3</sub> -Cr <sub>2</sub> O <sub>3</sub> solid solutions near the point of antiferromagnetic phase transition in Cr <sub>2</sub> O <sub>3</sub> . <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 795-799.	3.6	7
67	Thermodynamic and kinetic stability of inclusion compounds under heating. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 23-30.	3.6	20
68	Thermogravimetric investigation of ancient ceramics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 73-79.	3.6	27
69	Synthesis and crystal structures of two polymorphs of sulfathiazole:pyridine (1:1) adducts. <i>Structural Chemistry</i> , 2007, 18, 449-456.	2.0	4
70	Thermoanalytical investigation of drug-excipient interaction. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 86, 303-309.	3.6	33
71	Thermoanalytical investigation of drug-excipient interaction. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 84, 643-649.	3.6	16
72	Heat capacity of L-glycylglycine in a temperature range of 6 to 440 K. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 85, 485-490.	3.6	14

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73	Synthesis and characterization of sulfathiazole-pyridine solvate polymorphs. <i>Journal of Crystal Growth</i> , 2005, 274, 569-572.	1.5	5
74	Thermal and thermo-optic parameters of LiInSe <sub>2</sub> single crystals. <i>Journal of Crystal Growth</i> , 2005, 275, e1679-e1684.	1.5	16
75	CsLiB <sub>6</sub> O <sub>10</sub> crystals with Cs deficit: structure and properties. <i>Journal of Crystal Growth</i> , 2005, 282, 407-413.	1.5	10
76	Physical properties and structure of bound water in collagen-type fibrillar proteins as studied by scanning calorimetry. <i>JETP Letters</i> , 2005, 82, 613-615.	1.4	11
77	Refinement of NMR data on the structure of bound water in collagen using scanning calorimetry. <i>Journal of Structural Chemistry</i> , 2005, 46, 1131-1133.	1.0	4
78	Low-temperature heat capacity of $\beta$ -glycine and a phase transition at 252 K. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 79, 65-70.	3.6	46
79	Calibration coefficient of a heat-flow DSC; Part II. Optimal calibration procedure. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 79, 213-218.	3.6	97
80	The investigation of ancient pottery. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 82, 617-626.	3.6	57
81	Cation distribution in MgFe <sub>2</sub> O <sub>4</sub> vs. pressure and temperature: Experiments in a "piston-cylinder" apparatus. <i>American Mineralogist</i> , 2005, 90, 764-767.	1.9	3
82	Experimental study of boron solubility and speciation in the Na <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -H <sub>2</sub> O system. <i>Chemical Geology</i> , 2005, 223, 16-34.	3.3	17
83	Calibration coefficient of a heat-flow DSC. Part I. Relation to the Sensitivity of a thermocouple. <i>Journal of Thermal Analysis and Calorimetry</i> , 2004, 76, 941-947.	3.6	26
84	DSC and adiabatic calorimetry study of the polymorphs of paracetamol. <i>Journal of Thermal Analysis and Calorimetry</i> , 2004, 77, 607-623.	3.6	91
85	Synthesis and calorimetric investigation of stoichiometric Fe-spinels: MgFe <sub>2</sub> O <sub>4</sub> . <i>Journal of Crystal Growth</i> , 2004, 265, 165-167.	1.5	29
86	Thermal properties of the midinfrared nonlinear crystal LiInSe <sub>2</sub> . <i>Journal of Applied Physics</i> , 2004, 96, 3659-3665.	2.5	23
87	Polymorphism of glycine, Part I. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 73, 409-418.	3.6	170
88	Polymorphism of glycine, Part II. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 73, 419-428.	3.6	102
89	Low-temperature heat capacity of $\beta$ and $\beta'$ polymorphs of glycine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 74, 109-120.	3.6	44
90	Mechanism and modelling of formation of amorphous sulfur nuclei. <i>Mendeleev Communications</i> , 2003, 13, 37-38.	1.6	8

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91	Excess heat release during deuterium sorption-desorption by finely powdered palladium deuteride. Europhysics Letters, 2002, 58, 462-467.	2.0	1
92	Relationship Between Heat Capacity and Thermal Expansion Derived from the Lennard-Jones Potential. Magyar Árvizlemények, 2001, 65, 745-753.	1.4	15
93	Low-temperature heat capacity of heulandite: comparison with clinoptilolite. Thermochimica Acta, 2000, 348, 33-40.	2.7	26
94	Melting of PbBr <sub>2</sub> : A DSC investigation. Magyar Árvizlemények, 1999, 57, 599-605.	1.4	3
95	Measurements of Heat of Zeolite Dehydration by Scanning Heating. Magyar Árvizlemények, 1999, 58, 653-662.	1.4	13
96	Title is missing!. Magyar Árvizlemények, 1999, 56, 925-929.	1.4	1
97	Synthesis of pure pentlandite in bulk. Journal of Crystal Growth, 1998, 193, 728-731.	1.5	17
98	On the unusual arrangement of metal atoms in pentlandite. Journal of Structural Chemistry, 1998, 39, 791-793.	1.0	0
99	1A1 5T2 Spin transition in the solid phases of Fe <sub>x</sub> Ni <sub>1-x</sub> (ATr) <sub>3</sub> (NO <sub>3</sub> ) <sub>2</sub> (ATr = 4- amino- 1,2,4- triazole). Journal of Structural Chemistry, 1997, 38, 578-584.	1.0	8
100	Crystal- chemical analysis of the metal- to- sulfur ratio in ternary solid solutions of (Fe, Co, Ni) <sub>9</sub> S <sub>8</sub> (pentlandite). Journal of Structural Chemistry, 1997, 38, 682-684.	1.0	0
101	Decay of (Fe <sub>1-x</sub> Ni <sub>x</sub> ) <sub>0.96</sub> S DSC investigation. Journal of Thermal Analysis, 1997, 48, 727-734.	0.6	7
102	Fine structure of the thermoanalytical peak of the phase transition in quartz. Journal of Structural Chemistry, 1996, 37, 150-151.	1.0	0
103	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
104	Thermogravimetric investigation of the phase transition in the zeolite heulandite at dehydration. Thermochimica Acta, 1990, 159, 377-381.	2.7	10