Quan Shi

List of Publications by Year
in descending order

113 papers	2,940 citations	159585 30 h-index	189892 50 g-index
113 all docs	113 docs citations	113 times ranked	2817 citing authors

#	Article	IF	Citations
1	Thermal analysis and heat capacity study of polyethylene glycol (PEG) phase change materials for thermal energy storage applications. Journal of Chemical Thermodynamics, 2019, 128, 259-274.	2.0	156
2	An intrinsically flexible phase change film for wearable thermal managements. Energy Storage Materials, 2021, 34, 508-514.	18.0	150
3	Accurate heat capacity measurements on powdered samples using a Quantum Design physical property measurement system. Journal of Chemical Thermodynamics, 2010, 42, 1107-1115.	2.0	122
4	Internalâ€Fieldâ€Enhanced Charge Separation in a Singleâ€Domain Ferroelectric PbTiO₃ Photocatalyst. Advanced Materials, 2020, 32, e1906513.	21.0	121
5	Flexible graphene aerogel-based phase change film for solar-thermal energy conversion and storage in personal thermal management applications. Chemical Engineering Journal, 2021, 419, 129637.	12.7	109
6	An improved technique for accurate heat capacity measurements on powdered samples using a commercial relaxation calorimeter. Journal of Chemical Thermodynamics, 2011, 43, 1263-1269.	2.0	108
7	Photo-triggered Hierarchical Porous Carbon-Based Composite Phase-Change Materials with Superior Thermal Energy Conversion Capacity. ACS Sustainable Chemistry and Engineering, 2020, 8, 3445-3453.	6.7	100
8	The design of phase change materials with carbon aerogel composites for multi-responsive thermal energy capture and storage. Journal of Materials Chemistry A, 2021, 9, 1213-1220.	10.3	84
9	Structural, Magnetic, and Thermodynamic Evolutions of Zn-Doped Fe₃O₄ Nanoparticles Synthesized Using a One-Step Solvothermal Method. Journal of Physical Chemistry C, 2016, 120, 1328-1341.	3.1	76
10	Thermodynamic investigation of room temperature ionic liquid: The heat capacity and standard enthalpy of formation of EMIES. Thermochimica Acta, 2006, 447, 141-146.	2.7	72
11	A fully automated adiabatic calorimeter for heat capacity measurement between 80 and 400 K. Journal of Thermal Analysis and Calorimetry, 2008, 92, 367-374.	3.6	69
12	Fluorescence modulation <i>via</i> photoinduced spin crossover switched energy transfer from fluorophores to Fe^{II} ions. Chemical Science, 2018, 9, 2892-2897.	7.4	67
13	Coligand modifications fine-tuned the structure and magnetic properties of two triple-bridged azido-Cu(<scp>ii</scp>) chain compounds exhibiting ferromagnetic ordering and slow relaxation. Dalton Transactions, 2017, 46, 1207-1217.	3.3	64
14	Magnetization Dynamics Changes of Dysprosium(III) Single-Ion Magnets Associated with Guest Molecules. Inorganic Chemistry, 2016, 55, 3865-3871.	4.0	61
15	Switching the magnetic hysteresis of an [Feiiâ€“NCâ€“Wv]-based coordination polymer by photoinduced reversible spin crossover. Nature Chemistry, 2021, 13, 698-704.	13.6	61
16	Using silicagel industrial wastes to synthesize polyethylene glycol/silica-hydroxyl form-stable phase change materials for thermal energy storage applications. Solar Energy Materials and Solar Cells, 2018, 178, 139-145.	6.2	58
17	Experimental and Theoretical Interpretation on the Magnetic Behavior in a Series of Pentagonalâ€Bipyramidal Dy^{III} Singleâ€Ion Magnets. Chemistry - A European Journal, 2017, 23, 17775-17787.	3.3	56
18	Thermodynamic investigation of several natural polyols (I): Heat capacities and thermodynamic properties of xylitol. Thermochimica Acta, 2007, 457, 20-26.	2.7	54

#	ARTICLE	IF	CITATIONS
19	High-Performance Energetic Characteristics and Magnetic Properties of a Three-Dimensional Cobalt(II) Metalâ€“Organic Framework Assembled with Azido and Triazole. Inorganic Chemistry, 2015, 54, 11520-11525.	4.0	51
20	One-step synthesis of graphene-based composite phase change materials with high solar-thermal conversion efficiency. Chemical Engineering Journal, 2022, 429, 132439.	12.7	50
21	Thermodynamics of the basic copper sulfates antlerite, posnjakite, and brochantite. Chemie Der Erde, 2013, 73, 39-50.	2.0	47
22	Two-dimensional materials and their derivatives for high performance phase change materials: emerging trends and challenges. Energy Storage Materials, 2021, 42, 845-870.	18.0	47
23	Heat Capacity Studies of Nanocrystalline Magnetite (Fe₃O₄). Journal of Physical Chemistry C, 2010, 114, 21100-21108.	3.1	44
24	Magnetic and Thermodynamic Properties of Nanosized Zn Ferrite with Normal Spinal Structure Synthesized Using a Facile Method. Inorganic Chemistry, 2014, 53, 10463-10470.	4.0	44
25	Heat capacities of some sugar alcohols as phase change materials for thermal energy storage applications. Journal of Chemical Thermodynamics, 2017, 115, 233-248.	2.0	38
26	A Facile Peroxo-Precursor Synthesis Method and Structure Evolution of Large Specific Surface Area Mesoporous BaSnO₃. Inorganic Chemistry, 2015, 54, 4002-4010.	4.0	36
27	Size-dependence of the heat capacity and thermodynamic properties of hematite (Î±-Fe2O3). Journal of Chemical Thermodynamics, 2010, 42, 1142-1151.	2.0	35
28	Low-temperature heat capacity and standard thermodynamic functions of Î²- d -(-)-arabinose (C 5 H 10 O 5) Tj ETQq0 0 0 rgBT /Overlock	2.0	33
29	Low temperature heat capacity Study of Fe(PO3)3 and Fe2P2O7. Journal of Chemical Thermodynamics, 2013, 61, 51-57.	2.0	31
30	Low temperature heat capacity study of Ba2TiSi2O8 and Sr2TiSi2O8. Journal of Chemical Thermodynamics, 2014, 72, 77-84.	2.0	31
31	Low temperature heat capacity study of FePO4 and Fe3(P2O7)2. Journal of Chemical Thermodynamics, 2013, 62, 35-42.	2.0	30
32	Low temperature heat capacity study of Fe3PO7 and Fe4(P2O7)3. Journal of Chemical Thermodynamics, 2013, 62, 86-91.	2.0	30
33	Synergic on/off Photoswitching Spin State and Magnetic Coupling between Spin Crossover Centers. Inorganic Chemistry, 2017, 56, 10674-10680.	4.0	29
34	Study of heat capacity enhancement in some nanostructured materials. Pure and Applied Chemistry, 2009, 81, 1871-1880.	1.9	28
35	Dysprosium(<scp>iii</scp>) complexes with a square-antiprism configuration featuring mononuclear single-molecule magnetic behaviours based on different Î²-diketonate ligands and auxiliary ligands. Dalton Transactions, 2016, 45, 5310-5320.	3.3	28
36	Magnetic and thermodynamic properties of Î±, Î², Î³ and Î´-MnO₂. New Journal of Chemistry, 2018, 42, 8400-8407.	2.8	28

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37	Form-Stable Erythritol/HDPE Composite Phase Change Material with Flexibility, Tailorability, and High Transition Enthalpy. ACS Applied Polymer Materials, 2020, 2, 4464-4471.	4.4	28
38	Heat capacity and thermodynamics of a synthetic two-line ferrihydrite, FeOOHÂ·0.027H2O. Journal of Chemical Thermodynamics, 2013, 58, 307-314.	2.0	27
39	Heat Capacity Studies of Surface Water Confined on Cassiterite (SnO₂) Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 3910-3917.	3.1	26
40	Enhancing single-molecule magnet behaviour through decorating terminal ligands in Dy₂ compounds. Dalton Transactions, 2019, 48, 12622-12631.	3.3	25
41	Thermodynamic investigation of several natural polyols (II). Journal of Thermal Analysis and Calorimetry, 2008, 91, 463-469.	3.6	24
42	Heat capacity, third-law entropy, and low-temperature physical behavior of bulk hematite (Î±-Fe2O3). Journal of Chemical Thermodynamics, 2010, 42, 1136-1141.	2.0	24
43	Heat capacity studies of the iron oxyhydroxides akaganÃ©ite (Î²-FeOOH) and lepidocrocite (Î³-FeOOH). Journal of Chemical Thermodynamics, 2011, 43, 190-199.	2.0	23
44	Heat capacity and thermodynamic properties of 1-hexadecanol. Journal of Thermal Analysis and Calorimetry, 2008, 92, 375-380.	3.6	22
45	Thermochemistry of Î±-D-xylose(cr). Journal of Chemical Thermodynamics, 2013, 58, 20-28.	2.0	22
46	Heat capacity and thermodynamic functions of brookite TiO 2. Journal of Chemical Thermodynamics, 2016, 93, 45-51.	2.0	20
47	Heat capacity of hafnia at low temperature. Journal of Chemical Thermodynamics, 2011, 43, 970-973.	2.0	19
48	Low temperature heat capacity of bulk and nanophase ZnO and Zn1â^'xCoxO wurtzite phases. Journal of Chemical Thermodynamics, 2013, 60, 191-196.	2.0	19
49	Unique N-glycosylation of a recombinant exo-inulinase from Kluyveromyces cicerisporus and its effect on enzymatic activity and thermostability. Journal of Biological Engineering, 2019, 13, 81.	4.7	19
50	Thermal Analysis and Calorimetric Study of 4-Dimethylaminopyridine. Journal of Chemical & Engineering Data, 2007, 52, 941-947.	1.9	18
51	A novel gelling method for stabilization of phase change material Na2HPO4Â·12H2O with sodium alginate grafted sodium acrylate. Thermochimica Acta, 2007, 463, 18-20.	2.7	18
52	Molar Heat Capacities, Thermodynamic Properties, and Thermal Stability of <i>trans</i>-4-(Aminomethyl)cyclohexanecarboxylic Acid. Journal of Chemical & Engineering Data, 2007, 52, 1678-1680.	1.9	17
53	A substituent effect of phenylacetic acid coligand perturbed structures and magnetic properties observed in two triple-bridged azido-Cu(<scp>ii</scp>) chain compounds with ferromagnetic ordering and slow magnetic relaxation. Dalton Transactions, 2017, 46, 7556-7566.	3.3	17
54	Thermodynamic insights into n-alkanes phase change materials for thermal energy storage. Chinese Chemical Letters, 2021, 32, 3825-3832.	9.0	15

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55	Heat Storage Performance of Disodium Hydrogen Phosphate Dodecahydrate: Prevention of Phase Separation by Thickening and Gelling Methods. Chinese Journal of Chemistry, 2007, 25, 921-925.	4.9	13
56	Low-Temperature Heat Capacities and Standard Molar Enthalpy of Formation of <scp>l</scp>-3-(3,4-Dihydroxyphenyl) Alanine (C₉H₁₁NO₄). Journal of Chemical & Engineering Data, 2008, 53, 900-904.	1.9	13
57	Preparation of BaSnO3 and Ba0.96La0.04SnO3 by reactive coreâ€“shell precursor: formation process, CO sensitivity, electronic and optical properties analysis. RSC Advances, 2016, 6, 25379-25387.	3.6	13
58	Heat capacity and thermodynamic functions of TiO 2 (B) nanowires. Journal of Chemical Thermodynamics, 2018, 119, 127-134.	2.0	13
59	Solvent-induced single-crystal-to-single-crystal transformation and tunable magnetic properties of 1D azido-Cu(<scp>ii</scp>) chains with a carboxylate bridge. Dalton Transactions, 2019, 48, 11268-11277.	3.3	13
60	Low-temperature heat capacities and thermodynamic properties of 2,2-dimethyl-1,3-propanediol. Journal of Thermal Analysis and Calorimetry, 2007, 90, 217-221.	3.6	12
61	Heat capacity and thermodynamic properties of benzyl disulfide (C14H14S2). Thermochimica Acta, 2007, 463, 21-25.	2.7	10
62	Magneto-structural correlation and low temperature heat capacity of a Mn (III) quadridentate Schiff-base coordination compound. Journal of Chemical Thermodynamics, 2014, 74, 247-254.	2.0	10
63	Molar Heat Capacity and Thermodynamic Properties of 4-Methyl-4-cyclohexene-1,2-dicarboxylic Anhydride [C9H10O3]. Journal of Chemical & Engineering Data, 2005, 50, 932-935.	1.9	9
64	Gelled Na2HPO4ÂÂ·Â12H2O with amylose-g-sodium acrylate: heat storage performance, heat capacity and heat of fusion. Journal of Thermal Analysis and Calorimetry, 2009, 96, 1035-1040.	3.6	9
65	Applications of low temperature calorimetry in material research. Chinese Chemical Letters, 2018, 29, 664-670.	9.0	9
66	Molar Heat Capacities, Thermodynamic Properties, and Thermal Stability of the Synthetic Complex [Er(Pro)2(H2O)5]Cl3. Journal of Chemical & Engineering Data, 2006, 51, 1526-1529.	1.9	8
67	Thermodynamic studies of crystalline 2-amino-5-nitropyridine (C5H5N3O2). Thermochimica Acta, 2007, 463, 6-9.	2.7	8
68	Low-temperature heat capacity and standard molar enthalpy of formation of crystalline 2-pyridinealdoxime (C6H6N2O). Journal of Chemical Thermodynamics, 2007, 39, 817-821.	2.0	8
69	An experimental strategy for evaluating the energy performance of metalâ€“organic framework-based carbon dioxide adsorbents. Chemical Engineering Journal, 2022, 442, 136210.	12.7	8
70	Molar heat capacity and thermodynamic properties of crystalline Ho(Asp)Cl2Â·6H2O. Journal of Thermal Analysis and Calorimetry, 2007, 89, 283-287.	3.6	7
71	Calorimetric study and thermal analysis of crystalline 2,4-dinitrobenzaldehyde (C7H4N2O5). Journal of Chemical Thermodynamics, 2005, 37, 349-355.	2.0	6
72	Heat capacity and standard molar enthalpy of formation of crystalline 2,6-dicarboxypyridine (C7H5NO4). Journal of Chemical Thermodynamics, 2006, 38, 1701-1705.	2.0	6

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73	Thermodynamic Study of 8â€Hydroxyquinoline by Adiabatic Calorimetry and Thermal Analysis. Chinese Journal of Chemistry, 2008, 26, 2016-2020.	4.9	6
74	Effect of nitrogen substitution on the structural and magnetic ordering transitions of NiCr₂O₄. RSC Advances, 2016, 6, 112140-112147.	3.6	6
75	Calorimetric studies on two halogenated uracil isomers. Thermochimica Acta, 2016, 634, 6-11.	2.7	6
76	Heat capacity and thermodynamic functions of TiO2(H). Journal of Chemical Thermodynamics, 2020, 145, 106040.	2.0	6
77	Evidence for the influence of polaron delocalization on the electrical transport in LiNi_{0.4+x}Mn_{0.4âˆ'x}Co_{0.2}O₂. Physical Chemistry Chemical Physics, 2020, 22, 2054-2060.	2.8	6
78	Low temperature heat capacity study of Co3(BTC)2Â·12H2O and Ni3(BTC)2Â·12H2O. Thermochimica Acta, 2021, 699, 178909.	2.7	6
79	Low-temperature heat capacities, standard molar enthalpies of formation and detonation performance of two CL-20 cocrystal energetic materials. Fluid Phase Equilibria, 2020, 518, 112638.	2.5	6
80	Heat capacity and thermodynamic properties of N-(2-cyanoethyl) aniline (C9H10N2). Thermochimica Acta, 2005, 430, 53-58.	2.7	5
81	Heat capacities and thermodynamic properties of 2-benzoylpyridine (C12H9NO). Journal of Thermal Analysis and Calorimetry, 2006, 84, 413-418.	3.6	5
82	Novel Synthesis of <i>Î²</i>â€FeOOH Nanofluid and Determination of Its Heat Capacity by an Adiabatic Calorimeter. Chinese Journal of Chemistry, 2009, 27, 1249-1253.	4.9	5
83	Low-temperature heat capacities and thermodynamic functions of four-ring chain difluoromethyleneoxy liquid crystalline compounds with different alkyl terminal chain. Journal of Thermal Analysis and Calorimetry, 2016, 125, 537-545.	3.6	5
84	Low temperature heat capacity, standard entropy, standard enthalpy and magnetic property: a new 1D Cu^{II} coordination polymer incorporating tetrazole-1-acetic acid and p-nitrobenzoic acid. Dalton Transactions, 2017, 46, 1878-1884.	3.3	5
85	Heat capacities and thermodynamic functions of d-ribose and d-mannose. Journal of Thermal Analysis and Calorimetry, 2018, 133, 1049-1059.	3.6	5
86	Construction of High-Precision Adiabatic Calorimeter and Thermodynamic Study on Functional Materials. , 0, , .		5
87	Molar heat capacity and thermodynamic properties of crystalline [Nd(Glu)(H2O)5(Im)3](ClO4)6Â·2H2O. Journal of Thermal Analysis and Calorimetry, 2009, 95, 387-392.	3.6	4
88	Low temperature heat capacity and magnetic property of two H2ZTO-Co(II) coordination polymers (H2ZTOâ€¯=â€¯4,4â€²-azo-1,2,4-triazol-5-one). Journal of Chemical Thermodynamics, 2018, 125, 214-219.	2.0	4
89	Lanthanide-Aromatic Iminodiacetate Frameworks with Helical Tubes: Structure, Properties, and Low-Temperature Heat Capacity. ACS Omega, 2021, 6, 10475-10485.	3.5	4
90	Low temperature heat capacity and thermodynamic function of BaZrO3 and PbZrO3. Journal of Chemical Thermodynamics, 2021, 158, 106449.	2.0	4

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91	Calorimetric Study and Thermal Analysis of 4â€(Aminomethyl) Benzoic Acid. Chinese Journal of Chemistry, 2009, 27, 672-676.	4.9	3
92	Low-tmperature Heat Capacities and Standard Molar Enthalpy of Formation of 4-Nitrobenzyl Alcohol. Chinese Journal of Chemistry, 2009, 27, 1225-1231.	4.9	3
93	Low-temperature heat capacities of crystalline Ho(Gly)3Cl3 Â· 3H2O from 78 to 348 K. Journal of Rare Earths, 2009, 27, 919-922.	4.8	3
94	Low temperature heat capacities and thermodynamic functions of two novel cobalt (II) and nickel (II) mononuclear compounds constructed with o-pthalate and phenanthroline. Thermochimica Acta, 2018, 663, 176-182.	2.7	3
95	A neodymium(III) complex with 3, 4, 5 - triethoxybenzoic acid and 1,10-phenanthroline. Journal of Thermal Analysis and Calorimetry, 2019, 135, 2583-2590.	3.6	3
96	Magnetic contributions to the low-temperature specific heat of Sc79Fe21nanoglass. Journal of Applied Physics, 2019, 125, 045111.	2.5	3
97	Heat capacity and thermodynamic functions of hollandite-type K0.17TiO1.9Â·0.061H2O. Journal of Chemical Thermodynamics, 2019, 137, 34-42.	2.0	3
98	Thermal analysis and heat capacity study of even-numbered fatty alcohol (C12H25OH-C18H37OH) phase-change materials for thermal energy storage applications. Materials Today Sustainability, 2021, 11-12, 100064.	4.1	3
99	Molar heat capacity and thermodynamic properties of 1-cyclohexene-1,2-dicarboxylic anhydride [C8H8O3]. Journal of Chemical Thermodynamics, 2004, 36, 787-792.	2.0	2
100	Thermochemical Behavior of Crystalline RE(Val)Cl₃Â·6H₂O (RE = Nd, Er, Val =) Tj ETQq0 0 0 rgBT /Overlock 10	1.9	2
101	Heat Capacities and Thermodynamic Properties of (3,4-Dimethoxyphenyl) Acetonitrile (C10H11NO2). Journal of Chemical & Engineering Data, 2009, 54, 232-235.	1.9	2
102	Heat Capacities and Thermodynamic Properties ofÂAqueous SrCl2 Solutions in the Temperature Range fromÂ80 to 320 K. Journal of Solution Chemistry, 2010, 39, 1087-1098.	1.2	2
103	Low-temperature heat capacity and standard thermodynamic functions of D-galactose and galactitol. Chemical Research in Chinese Universities, 2015, 31, 987-991.	2.6	2
104	Synthesis, crystal structures, and thermodynamic properties of two new lanthanide complexes. Journal of Thermal Analysis and Calorimetry, 2018, 131, 2993-3001.	3.6	2
105	Low temperature heat capacity study of Zn, Cd and Mn based coordination compounds synthesized using phenanthroline and halogenated benzoic acid. Thermochimica Acta, 2018, 670, 76-86.	2.7	2
106	Crystal structure, magnetic and heat capacity properties of a new chiral mononuclear iron(II) compound. Journal of Thermal Analysis and Calorimetry, 2019, 135, 3421-3428.	3.6	1
107	Low temperature heat capacity and thermodynamic functions of Al-MIL-53-X metal-organic frameworks. Chemical Thermodynamics and Thermal Analysis, 2022, 5, 100027.	1.5	1
108	Low temperature heat capacity, thermodynamic and magnetic property of several new dinuclear complexes. Journal of Chemical Thermodynamics, 2022, 170, 106785.	2.0	1

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109	Thermodynamic studies of (R)-BINOL-menthyl dicarbonates. Journal of Thermal Analysis and Calorimetry, 2006, 86, 541-546.	3.6	0
110	Molar heat capacities and standard molar enthalpy of formation of 2-amino-5-methylpyridine. Journal of Thermal Analysis and Calorimetry, 2009, 95, 461-467.	3.6	0
111	Thermodynamic Property Study on the Complexes of Rare- Earth Elements with Amino Aids. , 2017, , .		0
112	Thermodynamic Properties of the Polyols as Phase Change Materials for Thermal Energy Storage. , 2018, , .		0
113	Low-Temperature Heat Capacities and Thermodynamic Functions of Î±-Bi2O3. Russian Journal of Physical Chemistry A, 2022, 96, 834-841.	0.6	0