

Quan Shi

List of Publications by Year in descending order

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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	One-step synthesis of graphene-based composite phase change materials with high solar-thermal conversion efficiency. <i>Chemical Engineering Journal</i> , 2022, 429, 132439.	12.7	50
2	Low temperature heat capacity and thermodynamic functions of Al-MIL-53-X metal-organic frameworks. <i>Chemical Thermodynamics and Thermal Analysis</i> , 2022, 5, 100027.	1.5	1
3	Low temperature heat capacity, thermodynamic and magnetic property of several new dinuclear complexes. <i>Journal of Chemical Thermodynamics</i> , 2022, 170, 106785.	2.0	1
4	An experimental strategy for evaluating the energy performance of metal-organic framework-based carbon dioxide adsorbents. <i>Chemical Engineering Journal</i> , 2022, 442, 136210.	12.7	8
5	Low-Temperature Heat Capacities and Thermodynamic Functions of Bi_2O_3 . <i>Russian Journal of Physical Chemistry A</i> , 2022, 96, 834-841.	0.6	0
6	The design of phase change materials with carbon aerogel composites for multi-responsive thermal energy capture and storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1213-1220.	10.3	84
7	An intrinsically flexible phase change film for wearable thermal managements. <i>Energy Storage Materials</i> , 2021, 34, 508-514.	18.0	150
8	Thermal analysis and heat capacity study of even-numbered fatty alcohol ($\text{C}_{12}\text{H}_{25}\text{OH}$ - $\text{C}_{18}\text{H}_{37}\text{OH}$) phase-change materials for thermal energy storage applications. <i>Materials Today Sustainability</i> , 2021, 11-12, 100064.	4.1	3
9	Lanthanide-Aromatic Iminodiacetate Frameworks with Helical Tubes: Structure, Properties, and Low-Temperature Heat Capacity. <i>ACS Omega</i> , 2021, 6, 10475-10485.	3.5	4
10	Thermodynamic insights into n-alkanes phase change materials for thermal energy storage. <i>Chinese Chemical Letters</i> , 2021, 32, 3825-3832.	9.0	15
11	Low temperature heat capacity study of $\text{Co}_3(\text{BTC})_2 \cdot 12\text{H}_2\text{O}$ and $\text{Ni}_3(\text{BTC})_2 \cdot 12\text{H}_2\text{O}$. <i>Thermochimica Acta</i> , 2021, 699, 178909.	2.7	6
12	Switching the magnetic hysteresis of an $[\text{Fe}(\text{NC})_5\text{W}]$ -based coordination polymer by photoinduced reversible spin crossover. <i>Nature Chemistry</i> , 2021, 13, 698-704.	13.6	61
13	Low temperature heat capacity and thermodynamic function of BaZrO_3 and PbZrO_3 . <i>Journal of Chemical Thermodynamics</i> , 2021, 158, 106449.	2.0	4
14	Flexible graphene aerogel-based phase change film for solar-thermal energy conversion and storage in personal thermal management applications. <i>Chemical Engineering Journal</i> , 2021, 419, 129637.	12.7	109
15	Two-dimensional materials and their derivatives for high performance phase change materials: emerging trends and challenges. <i>Energy Storage Materials</i> , 2021, 42, 845-870.	18.0	47
16	Internal-Field-Enhanced Charge Separation in a Single-Domain Ferroelectric PbTiO_3 Photocatalyst. <i>Advanced Materials</i> , 2020, 32, e1906513.	21.0	121
17	Heat capacity and thermodynamic functions of $\text{TiO}_2(\text{H})$. <i>Journal of Chemical Thermodynamics</i> , 2020, 145, 106040.	2.0	6
18	Evidence for the influence of polaron delocalization on the electrical transport in $\text{LiNi}_{0.4}\text{Mn}_{0.4}\text{Co}_{0.2}\text{O}_2$. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2054-2060.	2.8	6

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19	Form-Stable Erythritol/HDPE Composite Phase Change Material with Flexibility, Tailorability, and High Transition Enthalpy. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4464-4471.	4.4	28
20	Photo-triggered Hierarchical Porous Carbon-Based Composite Phase-Change Materials with Superior Thermal Energy Conversion Capacity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3445-3453.	6.7	100
21	Low-temperature heat capacities, standard molar enthalpies of formation and detonation performance of two CL-20 cocrystal energetic materials. <i>Fluid Phase Equilibria</i> , 2020, 518, 112638.	2.5	6
22	Thermal analysis and heat capacity study of polyethylene glycol (PEG) phase change materials for thermal energy storage applications. <i>Journal of Chemical Thermodynamics</i> , 2019, 128, 259-274.	2.0	156
23	Crystal structure, magnetic and heat capacity properties of a new chiral mononuclear iron(II) compound. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 3421-3428.	3.6	1
24	A neodymium(III) complex with 3, 4, 5 - triethoxybenzoic acid and 1,10-phenanthroline. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 2583-2590.	3.6	3
25	Enhancing single-molecule magnet behaviour through decorating terminal ligands in Dy ₂ compounds. <i>Dalton Transactions</i> , 2019, 48, 12622-12631.	3.3	25
26	Solvent-induced single-crystal-to-single-crystal transformation and tunable magnetic properties of 1D azido-Cu(II) chains with a carboxylate bridge. <i>Dalton Transactions</i> , 2019, 48, 11268-11277.	3.3	13
27	Magnetic contributions to the low-temperature specific heat of Sc ₇₉ Fe ₂₁ nanoglass. <i>Journal of Applied Physics</i> , 2019, 125, 045111.	2.5	3
28	Heat capacity and thermodynamic functions of hollandite-type K _{0.17} TiO _{1.9} ·0.061H ₂ O. <i>Journal of Chemical Thermodynamics</i> , 2019, 137, 34-42.	2.0	3
29	Unique N-glycosylation of a recombinant exo-inulinase from <i>Kluyveromyces cicerisporus</i> and its effect on enzymatic activity and thermostability. <i>Journal of Biological Engineering</i> , 2019, 13, 81.	4.7	19
30	Magnetic and thermodynamic properties of $\hat{1}\pm$, $\hat{1}^2$, $\hat{1}^3$ and $\hat{1}^-$ -MnO ₂ . <i>New Journal of Chemistry</i> , 2018, 42, 8400-8407.	2.8	28
31	Low temperature heat capacities and thermodynamic functions of two novel cobalt (II) and nickel (II) mononuclear compounds constructed with o-phthalate and phenanthroline. <i>Thermochimica Acta</i> , 2018, 663, 176-182.	2.7	3
32	Heat capacities and thermodynamic functions of d-ribose and d-mannose. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 1049-1059.	3.6	5
33	Using silicagel industrial wastes to synthesize polyethylene glycol/silica-hydroxyl form-stable phase change materials for thermal energy storage applications. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 139-145.	6.2	58
34	Fluorescence modulation <i>via</i> photoinduced spin crossover switched energy transfer from fluorophores to Fe ^{II} ions. <i>Chemical Science</i> , 2018, 9, 2892-2897.	7.4	67
35	Heat capacity and thermodynamic functions of TiO ₂ (B) nanowires. <i>Journal of Chemical Thermodynamics</i> , 2018, 119, 127-134.	2.0	13
36	Applications of low temperature calorimetry in material research. <i>Chinese Chemical Letters</i> , 2018, 29, 664-670.	9.0	9

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37	Synthesis, crystal structures, and thermodynamic properties of two new lanthanide complexes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 2993-3001.	3.6	2
38	Thermodynamic Properties of the Polyols as Phase Change Materials for Thermal Energy Storage. , 2018, , .		0
39	Low temperature heat capacity study of Zn, Cd and Mn based coordination compounds synthesized using phenanthroline and halogenated benzoic acid. <i>Thermochimica Acta</i> , 2018, 670, 76-86.	2.7	2
40	Low temperature heat capacity and magnetic property of two H ₂ ZTO-Co(II) coordination polymers (H ₂ ZTO = 4,4'-azo-1,2,4-triazol-5-one). <i>Journal of Chemical Thermodynamics</i> , 2018, 125, 214-219.	2.0	4
41	A substituent effect of phenylacetic acid coligand perturbed structures and magnetic properties observed in two triple-bridged azido-Cu(II) chain compounds with ferromagnetic ordering and slow magnetic relaxation. <i>Dalton Transactions</i> , 2017, 46, 7556-7566.	3.3	17
42	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. <i>Dalton Transactions</i> , 2017, 46, 1878-1884.	3.3	5
43	Coligand modifications fine-tuned the structure and magnetic properties of two triple-bridged azido-Cu(II) chain compounds exhibiting ferromagnetic ordering and slow relaxation. <i>Dalton Transactions</i> , 2017, 46, 1207-1217.	3.3	64
44	Experimental and Theoretical Interpretation on the Magnetic Behavior in a Series of Pentagonal-Bipyramidal Dy(III) Single-Ion Magnets. <i>Chemistry - A European Journal</i> , 2017, 23, 17775-17787.	3.3	56
45	Synergic on/off Photoswitching Spin State and Magnetic Coupling between Spin Crossover Centers. <i>Inorganic Chemistry</i> , 2017, 56, 10674-10680.	4.0	29
46	Heat capacities of some sugar alcohols as phase change materials for thermal energy storage applications. <i>Journal of Chemical Thermodynamics</i> , 2017, 115, 233-248.	2.0	38
47	Thermodynamic Property Study on the Complexes of Rare- Earth Elements with Amino Aids. , 2017, , .		0
48	Effect of nitrogen substitution on the structural and magnetic ordering transitions of NiCr ₂ O ₄ . <i>RSC Advances</i> , 2016, 6, 112140-112147.	3.6	6
49	Calorimetric studies on two halogenated uracil isomers. <i>Thermochimica Acta</i> , 2016, 634, 6-11.	2.7	6
50	Low-temperature heat capacities and thermodynamic functions of four-ring chain difluoromethyleneoxy liquid crystalline compounds with different alkyl terminal chain. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 537-545.	3.6	5
51	Magnetization Dynamics Changes of Dysprosium(III) Single-Ion Magnets Associated with Guest Molecules. <i>Inorganic Chemistry</i> , 2016, 55, 3865-3871.	4.0	61
52	Dysprosium(III) complexes with a square-antiprism configuration featuring mononuclear single-molecule magnetic behaviours based on different 1 ² -diketonate ligands and auxiliary ligands. <i>Dalton Transactions</i> , 2016, 45, 5310-5320.	3.3	28
53	Preparation of BaSnO ₃ and Ba _{0.96} La _{0.04} SnO ₃ by reactive core-shell precursor: formation process, CO sensitivity, electronic and optical properties analysis. <i>RSC Advances</i> , 2016, 6, 25379-25387.	3.6	13
54	Structural, Magnetic, and Thermodynamic Evolutions of Zn-Doped Fe ₃ O ₄ Nanoparticles Synthesized Using a One-Step Solvothermal Method. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1328-1341.	3.1	76

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55	Heat capacity and thermodynamic functions of brookite TiO ₂ . Journal of Chemical Thermodynamics, 2016, 93, 45-51.	2.0	20
56	Low-temperature heat capacity and standard thermodynamic functions of D-(-)-arabinose (C ₅ H ₁₀ O ₅). Journal of Chemical Thermodynamics, 2016, 93, 52-57.	2.0	33
57	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
58	A Facile Peroxo-Precursor Synthesis Method and Structure Evolution of Large Specific Surface Area Mesoporous BaSnO ₃ . Inorganic Chemistry, 2015, 54, 4002-4010.	4.0	36
59	High-Performance Energetic Characteristics and Magnetic Properties of a Three-Dimensional Cobalt(II) Metal-Organic Framework Assembled with Azido and Triazole. Inorganic Chemistry, 2015, 54, 11520-11525.	4.0	51
60	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
61	Low temperature heat capacity study of Ba ₂ TiSi ₂ O ₈ and Sr ₂ TiSi ₂ O ₈ . Journal of Chemical Thermodynamics, 2014, 72, 77-84.	2.0	31
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	Heat capacity and thermodynamics of a synthetic two-line ferrihydrite, FeOOH·0.027H ₂ O. Journal of Chemical Thermodynamics, 2013, 58, 307-314.	2.0	27
64	Low temperature heat capacity Study of Fe(PO ₃) ₃ and Fe ₂ P ₂ O ₇ . Journal of Chemical Thermodynamics, 2013, 61, 51-57.	2.0	31
65	Low temperature heat capacity study of FePO ₄ and Fe ₃ (P ₂ O ₇) ₂ . Journal of Chemical Thermodynamics, 2013, 62, 35-42.	2.0	30
66	Low temperature heat capacity study of Fe ₃ PO ₇ and Fe ₄ (P ₂ O ₇) ₃ . Journal of Chemical Thermodynamics, 2013, 62, 86-91.	2.0	30
67	Thermodynamics of the basic copper sulfates antlerite, posnjakite, and brochantite. Chemie Der Erde, 2013, 73, 39-50.	2.0	47
68	Thermochemistry of D-xylose(cr). Journal of Chemical Thermodynamics, 2013, 58, 20-28.	2.0	22
69	Low temperature heat capacity of bulk and nanophase ZnO and Zn _{1-x} CoxO wurtzite phases. Journal of Chemical Thermodynamics, 2013, 60, 191-196.	2.0	19
70	Heat Capacity Studies of Surface Water Confined on Cassiterite (SnO ₂) Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 3910-3917.	3.1	26
71	Heat capacity studies of the iron oxyhydroxides akaganite (Fe ^{II} -FeOOH) and lepidocrocite (Fe ^{III} -FeOOH). Journal of Chemical Thermodynamics, 2011, 43, 190-199.	2.0	23
72	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

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73	Heat capacity of hafnia at low temperature. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 970-973.	2.0	19
74	Heat capacity, third-law entropy, and low-temperature physical behavior of bulk hematite ($\hat{I}\pm\text{-Fe}_2\text{O}_3$). <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1136-1141.	2.0	24
75	Heat Capacities and Thermodynamic Properties of Aqueous SrCl_2 Solutions in the Temperature Range from 80 to 320 K. <i>Journal of Solution Chemistry</i> , 2010, 39, 1087-1098.	1.2	2
76	Accurate heat capacity measurements on powdered samples using a Quantum Design physical property measurement system. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1107-1115.	2.0	122
77	Size-dependence of the heat capacity and thermodynamic properties of hematite ($\hat{I}\pm\text{-Fe}_2\text{O}_3$). <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1142-1151.	2.0	35
78	Heat Capacity Studies of Nanocrystalline Magnetite ($\text{Fe}_{3/4}\text{O}_4$). <i>Journal of Physical Chemistry C</i> , 2010, 114, 21100-21108.	3.1	44
79	Study of heat capacity enhancement in some nanostructured materials. <i>Pure and Applied Chemistry</i> , 2009, 81, 1871-1880.	1.9	28
80	Calorimetric Study and Thermal Analysis of 4-(Aminomethyl) Benzoic Acid. <i>Chinese Journal of Chemistry</i> , 2009, 27, 672-676.	4.9	3
81	Low-temperature Heat Capacities and Standard Molar Enthalpy of Formation of 4-Nitrobenzyl Alcohol. <i>Chinese Journal of Chemistry</i> , 2009, 27, 1225-1231.	4.9	3
82	Novel Synthesis of FeOOH Nanofluid and Determination of Its Heat Capacity by an Adiabatic Calorimeter. <i>Chinese Journal of Chemistry</i> , 2009, 27, 1249-1253.	4.9	5
83	Molar heat capacity and thermodynamic properties of crystalline $[\text{Nd}(\text{Glu})(\text{H}_2\text{O})_5(\text{Im})_3](\text{ClO}_4)_6 \cdot 2\text{H}_2\text{O}$. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 387-392.	3.6	4
84	Molar heat capacities and standard molar enthalpy of formation of 2-amino-5-methylpyridine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 461-467.	3.6	0
85	Gelled $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$ with amylose-g-sodium acrylate: heat storage performance, heat capacity and heat of fusion. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 96, 1035-1040.	3.6	9
86	Low-temperature heat capacities of crystalline $\text{Ho}(\text{Gly})_3\text{Cl}_3 \cdot 3\text{H}_2\text{O}$ from 78 to 348 K. <i>Journal of Rare Earths</i> , 2009, 27, 919-922.	4.8	3
87	Thermochemical Behavior of Crystalline $\text{RE}(\text{Val})\text{Cl}_3 \cdot 6\text{H}_2\text{O}$ (RE = Nd, Er, Val =) $T_j \text{ ETQq1 } 1.9784314 \text{ rgBT /Ov}$	1.9	2
88	Heat Capacities and Thermodynamic Properties of (3,4-Dimethoxyphenyl) Acetonitrile ($\text{C}_{10}\text{H}_{11}\text{NO}_2$). <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 232-235.	1.9	2
89	Thermodynamic investigation of several natural polyols (II). <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 91, 463-469.	3.6	24
90	A fully automated adiabatic calorimeter for heat capacity measurement between 80 and 400 K. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 92, 367-374.	3.6	69

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91	Heat capacity and thermodynamic properties of 1-hexadecanol. Journal of Thermal Analysis and Calorimetry, 2008, 92, 375-380.	3.6	22
92	Thermodynamic Study of 8- <i>α</i> -Hydroxyquinoline by Adiabatic Calorimetry and Thermal Analysis. Chinese Journal of Chemistry, 2008, 26, 2016-2020.	4.9	6
93	Low-Temperature Heat Capacities and Standard Molar Enthalpy of Formation of <i>trans</i> -3-(3,4-Dihydroxyphenyl) Alanine (C ₉ H ₁₁ NO ₄). Journal of Chemical & Engineering Data, 2008, 53, 900-904.	1.9	13
94	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
95	Thermal Analysis and Calorimetric Study of 4-Dimethylaminopyridine. Journal of Chemical & Engineering Data, 2007, 52, 941-947.	1.9	18
96	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
97	Thermodynamic investigation of several natural polyols (I): Heat capacities and thermodynamic properties of xylitol. Thermochemica Acta, 2007, 457, 20-26.	2.7	54
98	Thermodynamic studies of crystalline 2-amino-5-nitropyridine (C ₅ H ₅ N ₃ O ₂). Thermochemica Acta, 2007, 463, 6-9.	2.7	8
99	A novel gelling method for stabilization of phase change material Na ₂ HPO ₄ ·12H ₂ O with sodium alginate grafted sodium acrylate. Thermochemica Acta, 2007, 463, 18-20.	2.7	18
100	Heat capacity and thermodynamic properties of benzyl disulfide (C ₁₄ H ₁₄ S ₂). Thermochemica Acta, 2007, 463, 21-25.	2.7	10
101	Low-temperature heat capacity and standard molar enthalpy of formation of crystalline 2-pyridinealdoxime (C ₆ H ₆ N ₂ O). Journal of Chemical Thermodynamics, 2007, 39, 817-821.	2.0	8
102	Molar heat capacity and thermodynamic properties of crystalline Ho(Asp)Cl ₂ ·6H ₂ O. Journal of Thermal Analysis and Calorimetry, 2007, 89, 283-287.	3.6	7
103	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
104	Molar Heat Capacities, Thermodynamic Properties, and Thermal Stability of the Synthetic Complex [Er(Pro) ₂ (H ₂ O) ₅]Cl ₃ . Journal of Chemical & Engineering Data, 2006, 51, 1526-1529.	1.9	8
105	Thermodynamic investigation of room temperature ionic liquid: The heat capacity and standard enthalpy of formation of EMIES. Thermochemica Acta, 2006, 447, 141-146.	2.7	72
106	Heat capacities and thermodynamic properties of 2-benzoylpyridine (C ₁₂ H ₉ NO). Journal of Thermal Analysis and Calorimetry, 2006, 84, 413-418.	3.6	5
107	Thermodynamic studies of (R)-BINOL-menthyl dicarbonates. Journal of Thermal Analysis and Calorimetry, 2006, 86, 541-546.	3.6	0
108	Heat capacity and standard molar enthalpy of formation of crystalline 2,6-dicarboxypyridine (C ₇ H ₅ NO ₄). Journal of Chemical Thermodynamics, 2006, 38, 1701-1705.	2.0	6

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109	Heat capacity and thermodynamic properties of N-(2-cyanoethyl) aniline (C ₉ H ₁₀ N ₂). <i>Thermochimica Acta</i> , 2005, 430, 53-58.	2.7	5
110	Calorimetric study and thermal analysis of crystalline 2,4-dinitrobenzaldehyde (C ₇ H ₄ N ₂ O ₅). <i>Journal of Chemical Thermodynamics</i> , 2005, 37, 349-355.	2.0	6
111	Molar Heat Capacity and Thermodynamic Properties of 4-Methyl-4-cyclohexene-1,2-dicarboxylic Anhydride [C ₉ H ₁₀ O ₃]. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 932-935.	1.9	9
112	Molar heat capacity and thermodynamic properties of 1-cyclohexene-1,2-dicarboxylic anhydride [C ₈ H ₈ O ₃]. <i>Journal of Chemical Thermodynamics</i> , 2004, 36, 787-792.	2.0	2
113	Construction of High-Precision Adiabatic Calorimeter and Thermodynamic Study on Functional Materials. , O, , .		5