

Alexandra Navrotsky

List of Publications by Year in descending order

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614
papers

29,840
citations

8208

78
h-index

10955

142
g-index

633
all docs

633
docs citations

633
times ranked

27864
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryogenic heat capacity measurements and thermodynamic analysis of lithium aluminum layered double hydroxides (LDHs) with intercalated chloride. <i>American Mineralogist</i> , 2022, 107, 709-715.	0.9	6
2	Thermochemistry of stoichiometric rare earth oxyfluorides REOF. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1472-1480.	1.9	4
3	Heat capacity and thermodynamic functions of partially dehydrated cation-exchanged (Na ⁺ , Cs ⁺ , Cd ²⁺ ,) Tj ETQq1 1.0.784314 rgBT /O	1.0	6
4	Competing Effects in the Hydration Mechanism of a Garnet-Type Li ₇ La ₃ Zr ₂ O ₁₂ Electrolyte. <i>Chemistry of Materials</i> , 2022, 34, 1473-1480.	3.2	8
5	Aqueous spray-drying synthesis of alluaudite Na _{2+2x} Fe _{2x} (SO ₄) ₃ sodium insertion material: studies of electrochemical activity, thermodynamic stability, and humidity-induced phase transition. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 1941-1950.	1.2	5
6	Paul McMillan (1956–2022). <i>Nature Materials</i> , 2022, 21, 490-490.	13.3	0
7	Entropy Stabilization Effects and Ion Migration in 3D Hollow Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2022, 144, 8223-8230.	6.6	18
8	Thermochemistry of 3D and 2D Rare Earth Oxychlorides (REOCls). <i>Inorganic Chemistry</i> , 2022, 61, 7590-7596.	1.9	4
9	Energetics and structure of the B ^A -type solid solution in the Nd ₂ O ₃ -Y ₂ O ₃ system. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5843-5852.	1.9	0
10	The low-temperature heat capacity and thermodynamic properties of greigite (Fe ₃ S ₄). <i>Journal of Chemical Thermodynamics</i> , 2022, 173, 106836.	1.0	2
11	Facile synthesis and phase stability of Cu-based Na ₂ Cu(SO ₄) ₂ ·xH ₂ O (x = 0–2) sulfate minerals as conversion type battery electrodes. <i>Dalton Transactions</i> , 2022, 51, 11169-11179.	1.6	2
12	Thermodynamic stabilization of crystalline silicon carbide polymer-derived ceramic fibers. <i>International Journal of Ceramic Engineering & Science</i> , 2022, 4, 315-326.	0.5	5
13	Thermodynamics of cesium lead halide (CsPbX ₃ , x = I, Br, Cl) perovskites. <i>Thermochimica Acta</i> , 2021, 695, 178813.	1.2	26
14	Thermodynamics of high entropy oxides. <i>Acta Materialia</i> , 2021, 202, 1-21.	3.8	118
15	Thermochemistry and phase stability of the polymorphs of yttrium tantalate, YTaO ₄ . <i>Journal of the European Ceramic Society</i> , 2021, 41, 1629-1638.	2.8	20
16	Effects of Al:Si and (Al+Na):Si ratios on the properties of the international simple glass, part I: Physical properties. <i>Journal of the American Ceramic Society</i> , 2021, 104, 167-182.	1.9	15
17	Recovery of Rare Earth Elements from Recycled Hard Disk Drive Mixed Steel and Magnet Scrap. <i>Minerals, Metals and Materials Series</i> , 2021, , 139-154.	0.3	5
18	Thermodynamics of Fluorite-Structured Oxides Relevant to Nuclear Energy: A Review. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 703-721.	1.2	5

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19	Insight on the Stability of Thick Layers in 2D Ruddlesden-Popper and Dion-Jacobson Lead Iodide Perovskites. <i>Journal of the American Chemical Society</i> , 2021, 143, 2523-2536.	6.6	79
20	Development of high-temperature oxide melt solution calorimetry for p-block element containing materials – CORRIGENDUM. <i>Journal of Materials Research</i> , 2021, 36, 785-785.	1.2	7
21	Measurements of Density of Liquid Oxides with an Aero-Acoustic Levitator. <i>Materials</i> , 2021, 14, 822.	1.3	13
22	Pressure-induced structural changes cause large enhancement of photoluminescence in halide perovskites: a quantitative relationship. <i>National Science Review</i> , 2021, 8, nwab041.	4.6	4
23	Energetics of the Local Environment of Structure-Directing Agents Influence Zeolite Synthesis. <i>Chemistry of Materials</i> , 2021, 33, 2126-2138.	3.2	16
24	Energetic Stability and Its Role in the Mechanism of Ionic Transport in NASICON-Type Solid-State Electrolyte $\text{Li}_{1-x}\text{Al}_x\text{Ti}_2(\text{PO}_4)_3$. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4400-4406.	2.1	8
25	Shear Pleasure: The Structure, Formation, and Thermodynamics of Crystallographic Shear Phases. <i>Annual Review of Materials Research</i> , 2021, 51, 521-540.	4.3	12
26	Chapmanite $[\text{Fe}_{2.5}\text{Sb}(\text{Si}_2\text{O}_5)_3(\text{OH})]$: thermodynamic properties and formation in low-temperature environments. <i>European Journal of Mineralogy</i> , 2021, 33, 357-371.	0.4	3
27	Characterization of structural changes in modern and archaeological burnt bone: Implications for differential preservation bias. <i>PLoS ONE</i> , 2021, 16, e0254529.	1.1	19
28	Structure and Thermodynamics of Silicon Oxycarbide Polymer-Derived Ceramics with and without Mixed-Bonding. <i>Materials</i> , 2021, 14, 4075.	1.3	10
29	Marinite $\text{Li}_2\text{Ni}(\text{SO}_4)_2$ as a New Member of the Bisulfate Family of High-Voltage Lithium Battery Cathodes. <i>Chemistry of Materials</i> , 2021, 33, 6108-6119.	3.2	7
30	Heat capacities and thermodynamic functions of neodymia and samaria doped ceria. <i>Journal of Chemical Thermodynamics</i> , 2021, 158, 106454.	1.0	1
31	Effect of Annealing on Structural and Thermodynamic Properties of $\text{ThSiO}_4\text{-ErPO}_4$ Xenotime Solid Solution. <i>Inorganic Chemistry</i> , 2021, 60, 12020-12028.	1.9	2
32	Structure-property and thermodynamic relationships in rare earth (Y, Eu, Pr) iridate pyrochlores. <i>Journal of Solid State Chemistry</i> , 2021, 299, 122163.	1.4	5
33	Materials of the Universe: The Final Chemical Frontier. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1812-1812.	1.2	1
34	Radiation Effects in the Crystalline-Amorphous SiOC Polymer-Derived Ceramics: Insights from Experiments and Molecular Dynamics Simulation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40106-40117.	4.0	9
35	A Comparison of Order-Disorder in Several Families of Cubic Oxides. <i>Frontiers in Chemistry</i> , 2021, 9, 719169.	1.8	5
36	Heat capacity and thermodynamic functions of transition metal ion (Cu^{2+} , Fe^{2+} , Mn^{2+}) exchanged, partially dehydrated zeolite A (LTA). <i>Journal of Chemical Thermodynamics</i> , 2021, 161, 106556.	1.0	5

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37	A new class of entropy stabilized oxides: Commensurately modulated $A_6B_2O_{17}$ ($A = \text{Zr, Hf}$; $B = \text{Nb, Ta}$) structures. <i>Scripta Materialia</i> , 2021, 204, 114139.	2.6	21
38	Thermochemistry of sodium rare earth ternary fluorides, NaREF_4 . <i>Acta Materialia</i> , 2021, 220, 117289.	3.8	10
39	Synthesis and thermodynamics of uranium-incorporated Fe_2O_3 nanoparticles. <i>Journal of Nuclear Materials</i> , 2021, 556, 153172.	1.3	6
40	Cooperative formation of porous silica and peptides on the prebiotic Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	6
41	Fe(II) Induced Reduction of Incorporated U(VI) to U(V) in Goethite. <i>Environmental Science & Technology</i> , 2021, 55, 16445-16454.	4.6	11
42	Thermochemical Investigation of the Stability and Conversion of Nanocrystalline and High-Temperature Phases in Sodium Neodymium Fluorides. <i>Chemistry of Materials</i> , 2021, 33, 9571-9579.	3.2	1
43	Thermochemistry of the $\text{ZrO}_2\text{-SrO}$ System: From enthalpies of formation and heat capacities of the compounds to the phase diagram. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1425-1435.	1.9	4
44	The thermodynamics of gas absorption and guest-induced flexibility in zeolite Y. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109893.	2.2	11
45	Synthesis, Characterization, and Enthalpies of Formation of Uranium Substituted Zirconolites. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1878-1887.	1.2	3
46	Disorder in $\text{Ho}_2\text{Ti}_2\text{Zr}_x\text{O}_7$: pyrochlore to defect fluorite solid solution series. <i>RSC Advances</i> , 2020, 10, 34632-34650.	1.7	31
47	Conductivity, structure, and thermodynamics of $\text{Y}_2\text{Ti}_2\text{O}_7\text{-Y}_3\text{NbO}_7$ solid solutions. <i>Dalton Transactions</i> , 2020, 49, 10839-10850.	1.6	5
48	Thermal Analysis of High Entropy Rare Earth Oxides. <i>Materials</i> , 2020, 13, 3141.	1.3	26
49	Thermochemical Insights into Stability and Hydration of Ion-Exchanged Zeolite ZK-5 (KFI Framework). <i>Journal of Physical Chemistry C</i> , 2020, 124, 26193-26202.	1.5	5
50	Enthalpies of formation of high entropy and multicomponent alloys using oxide melt solution calorimetry. <i>Intermetallics</i> , 2020, 125, 106897.	1.8	14
51	A Synergistic Approach to Unraveling the Thermodynamic Stability of Binary and Ternary Chevrel Phase Sulfides. <i>Chemistry of Materials</i> , 2020, 32, 7044-7051.	3.2	10
52	Experimental and computational studies of melting of the spinel phase in the Fe-Al-O ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 70, 101798.	0.7	2
53	Linker Substituents Control the Thermodynamic Stability in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 21720-21729.	6.6	36
54	Greigite (Fe_3S_4) is thermodynamically stable: Implications for its terrestrial and planetary occurrence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28645-28648.	3.3	12

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55	Systematic Water Uptake Energetics of Yttrium-Doped Barium Zirconate—A High Resolution Thermochemical Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11308-11316.	1.5	8
56	Melting temperature measurement of refractory oxide ceramics as a function of oxygen fugacity using containerless methods. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4867-4875.	1.9	6
57	Thermodynamics Drives the Stability of the MOF-74 Family in Water. <i>ACS Omega</i> , 2020, 5, 13158-13163.	1.6	26
58	Entropy Stabilization of TiO_2 - Nb_2O_5 Wadsley–Roth Shear Phases and Their Prospects for Lithium-Ion Battery Anode Materials. <i>Chemistry of Materials</i> , 2020, 32, 5301-5308.	3.2	44
59	Molecular Recognition at Mineral Interfaces: Implications for the Beneficiation of Rare Earth Ores. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16327-16341.	4.0	20
60	Thermodynamic assessment of $\text{BaO} \cdot \text{Ln}_2\text{O}_3$ ($\text{Ln} = \text{La, Pr, Eu, Gd, Er}$) systems. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3896-3904.	1.9	3
61	Energetics of CO_2 and H_2O adsorption on alkaline earth metal doped TiO_2 . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15600-15607.	1.3	18
62	Thermochemistry of cation disordered Li ion battery cathode materials, ($\text{M}^{2+} = \text{Nb}$ and Ta , $\text{M}^{2+} = \text{Mn}$ and Tj) $\text{ETQ}_0\text{O}_3\text{rgBT}/\text{Over}$	1.7	3
63	Thermodynamic Evidence of Structural Transformations in CO_2 -Loaded Metal–Organic Framework $\text{Zn}(\text{Melm})_2$ from Heat Capacity Measurements. <i>Journal of the American Chemical Society</i> , 2020, 142, 4833-4841.	6.6	22
64	Steam-Induced Coarsening of Single-Unit-Cell MFI Zeolite Nanosheets and Its Effect on External Surface Brønsted Acid Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 9666-9672.	1.6	5
65	Steam-Induced Coarsening of Single-Unit-Cell MFI Zeolite Nanosheets and Its Effect on External Surface Brønsted Acid Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9579-9585.	7.2	26
66	Quantifying oxygen vacancies in neodymium and samarium doped ceria from heat capacity measurements. <i>Acta Materialia</i> , 2020, 188, 740-744.	3.8	9
67	Thermochemistry of nitrogen-doped reduced graphene oxides. <i>Journal of the European Ceramic Society</i> , 2020, 40, 6322-6327.	2.8	6
68	In Situ High-Temperature Synchrotron Diffraction Studies of $(\text{Fe,Cr,Al})_3\text{O}_4$ Spinels. <i>Inorganic Chemistry</i> , 2020, 59, 5949-5957.	1.9	7
69	Hydration structure and water exchange kinetics at xenotime–water interfaces: implications for rare earth minerals separation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7719-7727.	1.3	10
70	Thermochemistry of rare earth oxyhydroxides, REOOH ($\text{RE} = \text{Eu}$ to Lu). <i>Journal of Solid State Chemistry</i> , 2020, 287, 121344.	1.4	7
71	Energetic insights into the crystallization of lanthanum carbonate amorphous precursors. <i>Thermochimica Acta</i> , 2020, 688, 178605.	1.2	4
72	Thermodynamic Studies of Bromide Incorporation into Cesium Lead Iodide (CsPbI_3). <i>Journal of Physical Chemistry C</i> , 2020, 124, 8639-8642.	1.5	9

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73	Formation and energetics of amorphous rare earth (RE) carbonates in the RE ₂ O ₃ -CO ₂ -H ₂ O system. <i>Thermochimica Acta</i> , 2020, 692, 178753.	1.2	4
74	Development of high-temperature oxide melt solution calorimetry for <i>p</i> -block element containing materials. <i>Journal of Materials Research</i> , 2020, 35, 2239-2246.	1.2	4
75	Energetics of Salt-Bearing Sodalites, Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄), <i>Tj Earth and Space Chemistry</i> , 2020, 4, 2153-2161.	1.2	9
76	Calorimetric study of the thermodynamic properties of Mn ₅ O ₈ . <i>Journal of the American Ceramic Society</i> , 2019, 102, 1394-1401.	1.9	5
77	Heat capacities, entropies, and Gibbs free energies of formation of low- <i>k</i> amorphous Si(O)CH dielectric films and implications for stability during processing. <i>Journal of Chemical Thermodynamics</i> , 2019, 128, 320-335.	1.0	5
78	Neutron Spectroscopic and Thermochemical Characterization of Lithium-Aluminum-Layered Double Hydroxide Chloride: Implications for Lithium Recovery. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20723-20729.	1.5	20
79	Enthalpies of formation of the solid solutions of Zr _x Y _{0.5} Ta _{0.5} O ₂ (0 ≤ <i>x</i> ≤ 0.2 and 0.65 ≤ <i>x</i> ≤ 1). <i>Journal of Materials Research</i> , 2019, 34, 3343-3350.	1.2	3
80	Energetics of porous amorphous low- <i>k</i> SiOCH dielectric films. <i>Journal of Chemical Thermodynamics</i> , 2019, 139, 105885.	1.0	3
81	New Developments in the Calorimetry of High-Temperature Materials. <i>Engineering</i> , 2019, 5, 366-371.	3.2	8
82	Thermodynamics of BaNd ₂ O ₄ and phase diagram of the BaO-Nd ₂ O ₃ system. <i>Journal of Materials Research</i> , 2019, 34, 3337-3342.	1.2	3
83	Towards a nanoparticle-based prophylactic for maternal autoantibody-related autism. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 21, 102067.	1.7	4
84	Synthesis, Crystal Structure, and Enthalpies of Formation of Churchite-type REPO ₄ ·2H ₂ O (RE = Gd to Lu) Materials. <i>Crystal Growth and Design</i> , 2019, 19, 4641-4649.	1.4	20
85	Synthesis and thermodynamics of transition metal oxide based sodium ion cathode materials. <i>Journal of Solid State Chemistry</i> , 2019, 280, 121011.	1.4	7
86	Compositional control of radionuclide retention in hollandite-based ceramic waste forms for Cs immobilization. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4314-4324.	1.9	14
87	Energetics of Formation and Disorder in Rare Earth Weberite RE ₃ TaO ₇ Materials. <i>Inorganic Chemistry</i> , 2019, 58, 16126-16133.	1.9	13
88	Carbides and Nitrides of Zirconium and Hafnium. <i>Materials</i> , 2019, 12, 2728.	1.3	56
89	Mechanical and structural properties of radiation-damaged allanite-(Ce) and the effects of thermal annealing. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 921-933.	0.3	11
90	Energetics, Structures, and Phase Transitions of Cubic and Orthorhombic Cesium Lead Iodide (CsPb ₃) Polymorphs. <i>Journal of the American Chemical Society</i> , 2019, 141, 14501-14504.	6.6	92

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91	Thermodynamic and structural evolution of mechanically milled and swift heavy ion irradiated Er ₂ Ti ₂ O ₇ pyrochlore. <i>Acta Materialia</i> , 2019, 181, 309-317.	3.8	16
92	The structure and thermochemistry of K ₂ CO ₃ -MgCO ₃ glass. <i>Journal of Materials Research</i> , 2019, 34, 3377-3388.	1.2	3
93	Thermochemical investigation of lithium borate glasses and crystals. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4538-4545.	1.9	8
94	TiO ₂ Surface Engineering to Improve Nanostability: The Role of Interface Segregation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4949-4960.	1.5	25
95	Metal-catalyst-free access to multiwalled carbon nanotubes/silica nanocomposites (MWCNT/SiO ₂) from a single-source precursor. <i>Dalton Transactions</i> , 2019, 48, 11018-11033.	1.6	11
96	Energetics of hydration on uranium oxide and peroxide surfaces. <i>Journal of Materials Research</i> , 2019, 34, 3319-3325.	1.2	9
97	Thermodynamics of Zn _x Mn _{3-2x} O ₄ and Mg _{1-z} Cu _z Cr ₂ O ₄ spinel solid solutions. <i>Journal of Materials Research</i> , 2019, 34, 3305-3311.	1.2	5
98	Thermochemistry of Surfactant-Templating of USY Zeolite. <i>Chemistry - A European Journal</i> , 2019, 25, 10045-10048.	1.7	4
99	Adsorption mechanism of alkyl hydroxamic acid onto bastn�site: Fundamental steps toward rational collector design for rare earth elements. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 210-219.	5.0	47
100	Enthalpies of formation and phase stability relations of USi, U ₃ Si ₅ and U ₃ Si ₂ . <i>Journal of Nuclear Materials</i> , 2019, 523, 101-110.	1.3	25
101	Polymer-Derived Ultra-High Temperature Ceramics (UHTCs) and Related Materials. <i>Advanced Engineering Materials</i> , 2019, 21, 1900269.	1.6	80
102	Energetics of ethanol and carbon dioxide adsorption on anatase, rutile, and �-alumina nanoparticles. <i>American Mineralogist</i> , 2019, 104, 686-693.	0.9	6
103	Heat capacity and thermodynamic functions of crystalline forms of the metal-organic framework zinc 2-methylimidazolate, Zn(Melm) ₂ . <i>Journal of Chemical Thermodynamics</i> , 2019, 136, 160-169.	1.0	11
104	Sample seal-and-drop device and methodology for high temperature oxide melt solution calorimetric measurements of PuO ₂ . <i>Review of Scientific Instruments</i> , 2019, 90, 044101.	0.6	14
105	Reply to comments: <i>in situ</i> determination of the HfO ₂ -Ta ₂ O ₅ temperature phase diagram up to 3000�C. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7028-7030.	1.9	5
106	Theoretical Prediction and Experimental Evaluation of Topological Landscape and Thermodynamic Stability of a Fluorinated Zeolitic Imidazolate Framework. <i>Chemistry of Materials</i> , 2019, 31, 3777-3783.	3.2	31
107	Mechanochemical Synthesis, Accelerated Aging, and Thermodynamic Stability of the Organic Mineral Paeite and Its Cadmium Analogue. <i>ACS Omega</i> , 2019, 4, 5486-5495.	1.6	17
108	Thermodynamic stability of the fluorite phase in the CeO ₂ -CaO-ZrO ₂ system. <i>Journal of Nuclear Materials</i> , 2019, 517, 80-85.	1.3	4

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109	Functionality in metal-organic framework minerals: proton conductivity, stability and potential for polymorphism. <i>Chemical Science</i> , 2019, 10, 4923-4929.	3.7	32
110	Review of surface water interactions with metal oxide nanoparticles. <i>Journal of Materials Research</i> , 2019, 34, 416-427.	1.2	21
111	Avalanches during recrystallization in radiation-damaged pyrochlore and allanite: Statistical similarity to phase transitions in functional materials. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	5
112	Compositional control of tunnel features in hollandite-based ceramics: structure and stability of (Ba,Cs) _{1.33} (Zn,Ti) ₈ O ₁₆ . <i>Journal of Materials Science</i> , 2019, 54, 1112-1125.	1.7	25
113	In-situ determination of the HfO ₂ -Ta ₂ O ₅ temperature phase diagram up to 3000°C. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4848-4861.	1.9	76
114	Structural and thermodynamic limits of layer thickness in 2D halide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 58-66.	3.3	236
115	Bio- and mineral acid leaching of rare earth elements from synthetic phosphogypsum. <i>Journal of Chemical Thermodynamics</i> , 2019, 132, 491-496.	1.0	54
116	Energetics of melting of Yb ₂ O ₃ and Lu ₂ O ₃ from drop and catch calorimetry and first principles computations. <i>Journal of Chemical Thermodynamics</i> , 2019, 132, 405-410.	1.0	12
117	Rare earth sulfates in aqueous systems: Thermodynamic modeling of binary and multicomponent systems over wide concentration and temperature ranges. <i>Journal of Chemical Thermodynamics</i> , 2019, 131, 49-79.	1.0	51
118	Lithium aluminum-layered double hydroxide chlorides (LDH): Formation enthalpies and energetics for lithium ion capture. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2398-2404.	1.9	34
119	Thermodynamics of reaction between gas-turbine ceramic coatings and ingested CMAS corrodents. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2948-2964.	1.9	43
120	Thermochemistry of formation of ion exchanged zeolite RHO. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 373-378.	2.2	9
121	Thermodynamics of amorphous SiN(O)H dielectric films synthesized by plasma-enhanced chemical vapor deposition. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2017-2027.	1.9	4
122	Nanocrystalline apatites: The fundamental role of water. <i>American Mineralogist</i> , 2018, 103, 550-564.	0.9	43
123	Energetics of bulk lutetium-doped Ce _{1-x} Lu _x O _{2-x/2} compounds. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3520-3526.	1.9	1
124	Thermodynamic and structural evolution of Dy ₂ Ti ₂ O ₇ pyrochlore after swift heavy ion irradiation. <i>Acta Materialia</i> , 2018, 145, 227-234.	3.8	33
125	Thermodynamic evidence of flexibility in H ₂ O and CO ₂ absorption of transition metal ion exchanged zeolite LTA. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3970-3978.	1.3	15
126	Experimental heat capacities, excess entropies, and magnetic properties of bulk and nano Fe ₃ O ₄ -Co ₃ O ₄ and Fe ₃ O ₄ -Mn ₃ O ₄ spinel solid solutions. <i>Journal of Solid State Chemistry</i> , 2018, 259, 79-90.	1.4	5

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127	Heat capacity and thermodynamic functions of crystalline and amorphous forms of the metal organic framework zinc 2-ethylimidazolate, Zn(EtIm) ₂ . Journal of Chemical Thermodynamics, 2018, 116, 341-351.	1.0	19
128	Experimental thermochemistry of neptunium oxides: Np ₂ O ₅ and NpO ₂ . Journal of Nuclear Materials, 2018, 501, 398-403.	1.3	10
129	Combined experimental and computational investigation of thermodynamics and phase equilibria in the CaO-TiO ₂ system. Journal of the American Ceramic Society, 2018, 101, 1361-1370.	1.9	20
130	Size driven thermodynamic crossovers in phase stability in zirconia and hafnia. Journal of the American Ceramic Society, 2018, 101, 31-35.	1.9	25
131	Surface energy of fayalite and its effect on Fe-Si-O oxygen buffers and the olivine-spinel transition. American Mineralogist, 2018, 103, 1599-1603.	0.9	5
132	Thermochemistry of the simplest metal organic frameworks: Formates [M(HCOO) ₂] _n ·xH ₂ O (M = Li, Mg, Tj). Journal of Physical Chemistry A, 2018, 122, 9597-9604.	1.0	9
133	Phase transformations in oxides above 2000°C: experimental technique development. Advances in Applied Ceramics, 2018, 117, s82-s89.	0.6	11
134	High-Resolution Thermochemical Study of Phase Stability and Rapid Oxygen Incorporation in YBaCo ₄ Zn ₇ O ₁₁ -Cobaltites. Journal of Physical Chemistry A, 2018, 122, 9597-9604.	1.1	3
135	Thermodynamics and Stability of Rhabdophanes, Hydrated Rare Earth Phosphates REPO ₄ · n H ₂ O. Frontiers in Chemistry, 2018, 6, 604.	1.8	27
136	Thermochemical Measurements of Alkali Cation Association to Hexatantalate. Molecules, 2018, 23, 2441.	1.7	2
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