

# Alexandra Navrotsky

## List of Publications by Year in descending order

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614  
papers

29,840  
citations

7069

78  
h-index

9553

142  
g-index

633  
all docs

633  
docs citations

633  
times ranked

24672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallization by particle attachment in synthetic, biogenic, and geologic environments. <i>Science</i> , 2015, 349, aaa6760.	6.0	1,467
2	Surface Energies and Thermodynamic Phase Stability in Nanocrystalline Aluminas. <i>Science</i> , 1997, 277, 788-791.	6.0	844
3	Size-Driven Structural and Thermodynamic Complexity in Iron Oxides. <i>Science</i> , 2008, 319, 1635-1638.	6.0	657
4	The thermodynamics of cation distributions in simple spinels. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1967, 29, 2701-2714.	0.5	547
5	Olivine-modified spinel-spinel transitions in the system $Mg_2SiO_4-Fe_2SiO_4$ : Calorimetric measurements, thermochemical calculation, and geophysical application. <i>Journal of Geophysical Research</i> , 1989, 94, 15671-15685.	3.3	524
6	Progress and new directions in high temperature calorimetry revisited. <i>Physics and Chemistry of Minerals</i> , 1997, 24, 222-241.	0.3	493
7	Energetics of nanocrystalline TiO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6476-6481.	3.3	478
8	Energetic clues to pathways to biomineralization: Precursors, clusters, and nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12096-12101.	3.3	466
9	Progress and new directions in high temperature calorimetry. <i>Physics and Chemistry of Minerals</i> , 1977, 2, 89-104.	0.3	449
10	Nuclear Fuel in a Reactor Accident. <i>Science</i> , 2012, 335, 1184-1188.	6.0	417
11	Transformation and crystallization energetics of synthetic and biogenic amorphous calcium carbonate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16438-16443.	3.3	385
12	Radiation Effects in Glasses Used for Immobilization of High-level Waste and Plutonium Disposition. <i>Journal of Materials Research</i> , 1997, 12, 1948-1978.	1.2	381
13	Direct calorimetric verification of thermodynamic instability of lead halide hybrid perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7717-7721.	3.3	331
14	Thermodynamics of formation of simple spinels. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1968, 30, 479-498.	0.5	306
15	Materials Science of High-Level Nuclear Waste Immobilization. <i>MRS Bulletin</i> , 2009, 34, 46-53.	1.7	300
16	Nanophase Transition Metal Oxides Show Large Thermodynamically Driven Shifts in Oxidation-Reduction Equilibria. <i>Science</i> , 2010, 330, 199-201.	6.0	290
17	Polymer-derived SiCN and SiOC ceramics " structure and energetics at the nanoscale. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3826.	5.2	266
18	Energy Crossovers in Nanocrystalline Zirconia. <i>Journal of the American Ceramic Society</i> , 2005, 88, 160-167.	1.9	252

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19	Effects of Increased Surface Area and Chemisorbed H <sub>2</sub> O on the Relative Stability of Nanocrystalline $\gamma$ -Al <sub>2</sub> O <sub>3</sub> and $\alpha$ -Al <sub>2</sub> O <sub>3</sub> . Journal of Physical Chemistry B, 1997, 101, 603-613.	1.2	250
20	Energetics of nanoparticle oxides: interplay between surface energy and polymorphism. Geochemical Transactions, 2003, 4, 1.	1.8	244
21	Structural and thermodynamic limits of layer thickness in 2D halide perovskites. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 58-66.	3.3	236
22	Thermochemistry of rare-earth orthophosphates. Journal of Materials Research, 2001, 16, 2623-2633.	1.2	225
23	Thermochemical Evidence for Strong Iodine Chemisorption by ZIF-8. Journal of the American Chemical Society, 2013, 135, 16256-16259.	6.6	220
24	Heat capacities and thermodynamic functions of TiO <sub>2</sub> anatase and rutile: Analysis of phase stability. American Mineralogist, 2009, 94, 236-243.	0.9	213
25	Stability of Peroxide-Containing Uranyl Minerals. Science, 2003, 302, 1191-1193.	6.0	202
26	Thermochemistry of Pure-Silica Zeolites. Journal of Physical Chemistry B, 2000, 104, 10001-10011.	1.2	200
27	TiO <sub>2</sub> Stability Landscape: Polymorphism, Surface Energy, and Bound Water Energetics. Chemistry of Materials, 2006, 18, 6324-6332.	3.2	187
28	Negative Pressure-Temperature Slopes for Reactions Forming MgSiO <sub>3</sub> Perovskite from Calorimetry. Science, 1990, 249, 1275-1278.	6.0	186
29	Effect of Structure and Thermodynamic Stability on the Response of Lanthanide Stannate Pyrochlores to Ion Beam Irradiation. Journal of Physical Chemistry B, 2006, 110, 2343-2350.	1.2	180
30	Progress and New Directions in Calorimetry: A 2014 Perspective. Journal of the American Ceramic Society, 2014, 97, 3349-3359.	1.9	178
31	Thermochemistry of Microporous and Mesoporous Materials. Chemical Reviews, 2009, 109, 3885-3902.	23.0	164
32	Nanoscale Effects on Thermodynamics and Phase Equilibria in Oxide Systems. ChemPhysChem, 2011, 12, 2207-2215.	1.0	163
33	<sup>29</sup> Si and <sup>13</sup> C Solid-State NMR Spectroscopic Study of Nanometer-Scale Structure and Mass Fractal Characteristics of Amorphous Polymer Derived Silicon Oxycarbide Ceramics. Chemistry of Materials, 2010, 22, 6221-6228.	3.2	160
34	Direct measurements of water adsorption enthalpy on hafnia and zirconia. Applied Physics Letters, 2005, 87, 164103.	1.5	153
35	Formation enthalpies of rare earth titanate pyrochlores. Journal of Solid State Chemistry, 2004, 177, 1858-1866.	1.4	151
36	Crystallization in hafnia- and zirconia-based systems. Physica Status Solidi (B): Basic Research, 2004, 241, 2268-2278.	0.7	149

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37	Thermochemistry of glasses and liquids in the systems CaMgSi <sub>2</sub> O <sub>6</sub> -CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> -NaAlSi <sub>3</sub> O <sub>8</sub> , SiO <sub>2</sub> -CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> -NaAlSi <sub>3</sub> O <sub>8</sub> and SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -CaO-Na <sub>2</sub> O. <i>Geochimica Et Cosmochimica Acta</i> , 1980, 44, 1409-1423.	1.6	146
38	Enthalpy of the Anatase-Rutile Transformation. <i>Journal of the American Ceramic Society</i> , 1967, 50, 626-626.	1.9	141
39	Direct Calorimetric Measurement of Enthalpy of Adsorption of Carbon Dioxide on CD-MOF-2, a Green Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2013, 135, 6790-6793.	6.6	140
40	Thermodynamic Properties of Manganese Oxides. <i>Journal of the American Ceramic Society</i> , 1996, 79, 1761-1768.	1.9	136
41	Thermodynamics of Fe oxides: Part II. Enthalpies of formation and relative stability of goethite (±-FeOOH), lepidocrocite (±-FeOOH), and maghemite (±-Fe <sub>2</sub> O <sub>3</sub> ). <i>American Mineralogist</i> , 2003, 88, 855-859.	0.9	135
42	Thermochemistry of Charge-Coupled Substitutions in Silicate Glasses: The Systems M <sub>1</sub> AlO <sub>2</sub> -SiO <sub>2</sub> (M) Tj ETQq0 0.0 rgBT /Overlock 10	1.9	133
43	Amorphous Alumina Nanoparticles: Structure, Surface Energy, and Thermodynamic Phase Stability. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17123-17130.	1.5	132
44	Energetics and Crystal Chemical Systematics among Ilmenite, Lithium Niobate, and Perovskite Structures. <i>Chemistry of Materials</i> , 1998, 10, 2787-2793.	3.2	131
45	Thermochemical insights into refractory ceramic materials based on oxides with large tetravalent cations. <i>Journal of Materials Chemistry</i> , 2005, 15, 1883.	6.7	130
46	Quantitative correlations of deviations from ideality in binary and pseudobinary solid solutions. <i>Journal of Solid State Chemistry</i> , 1983, 46, 1-22.	1.4	128
47	Uranyl peroxide enhanced nuclear fuel corrosion in seawater. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1874-1877.	3.3	126
48	A Calorimetric Study of the Lanthanide Aluminum Oxides and the Lanthanide Gallium Oxides: Stability of the Perovskites and the Garnets. <i>Journal of Solid State Chemistry</i> , 1998, 141, 424-436.	1.4	120
49	Enthalpy of formation of LiNiO <sub>2</sub> , LiCoO <sub>2</sub> and their solid solution, LiNi <sub>1-x</sub> CoxO <sub>2</sub> . <i>Solid State Ionics</i> , 2004, 166, 167-173.	1.3	120
50	Thermodynamics of high entropy oxides. <i>Acta Materialia</i> , 2021, 202, 1-21.	3.8	118
51	Thermodynamically Stable Si <sub>x</sub> O <sub>y</sub> C <sub>z</sub> Polymer-Like Amorphous Ceramics. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3213-3219.	1.9	117
52	Bioadsorption of Rare Earth Elements through Cell Surface Display of Lanthanide Binding Tags. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2735-2742.	4.6	113
53	Thermochemistry of Zeolitic Imidazolate Frameworks of Varying Porosity. <i>Journal of the American Chemical Society</i> , 2013, 135, 598-601.	6.6	112
54	Energetics of compounds (A <sub>2</sub> B <sub>4</sub> O <sub>3</sub> ) with the perovskite structure. <i>Journal of Solid State Chemistry</i> , 1988, 72, 244-256.	1.4	111

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55	Monoclinic to tetragonal transformations in hafnia and zirconia: A combined calorimetric and density functional study. <i>Physical Review B</i> , 2009, 80, .	1.1	109
56	Surface Enthalpy, Enthalpy of Water Adsorption, and Phase Stability in Nanocrystalline Monoclinic Zirconia. <i>Journal of the American Ceramic Society</i> , 2009, 92, 133-140.	1.9	102
57	Vitreous forsterite (Mg <sub>2</sub> SiO <sub>4</sub> ): Synthesis, structure, and thermochemistry. <i>Geophysical Research Letters</i> , 2001, 28, 2517-2520.	1.5	100
58	Study on Synthesis of TPA-Silicalite-1 from Initially Clear Solutions of Various Base Concentrations by in Situ Calorimetry, Potentiometry, and SAXS. <i>Chemistry of Materials</i> , 2004, 16, 210-219.	3.2	99
59	Energetic basis of catalytic activity of layered nanophase calcium manganese oxides for water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8801-8806.	3.3	99
60	Thermochemistry of Sodium Borosilicate Glasses. <i>Journal of the American Ceramic Society</i> , 1985, 68, 314-319.	1.9	98
61	Surface Energy and Thermodynamic Stability of $\gamma$ -Alumina: Effect of Dopants and Water. <i>Chemistry of Materials</i> , 2006, 18, 1867-1872.	3.2	96
62	MANTLE GEOCHEMISTRY: Enhanced: A Lesson from Ceramics. <i>Science</i> , 1999, 284, 1788-1789.	6.0	93
63	Experimental and Theoretical Evaluation of the Stability of True MOF Polymorphs Explains Their Mechanochemical Interconversions. <i>Journal of the American Chemical Society</i> , 2017, 139, 7952-7957.	6.6	93
64	Structure, Heat Capacity, and High-Temperature Thermal Properties of Yb <sub>14</sub> Mn <sub>14</sub> Al <sub>11</sub> Sb <sub>11</sub> . <i>Chemistry of Materials</i> , 2009, 21, 1354-1360.	3.2	92
65	Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20116-20126.	1.5	92
66	Energetics, Structures, and Phase Transitions of Cubic and Orthorhombic Cesium Lead Iodide (CsPb <sub>3</sub> ) Polymorphs. <i>Journal of the American Chemical Society</i> , 2019, 141, 14501-14504.	6.6	92
67	Structural Evolution of Alkoxide Silica Gels to Glass: Effect of Catalyst pH. <i>Journal of the American Ceramic Society</i> , 1993, 76, 2571-2582.	1.9	91
68	Possible presence of high-pressure ice in cold subducting slabs. <i>Nature</i> , 2000, 408, 844-847.	13.7	90
69	The assessment of thermodynamic parameters in the Al <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> system and phase relations in the Y-Al-O system. <i>Scandinavian Journal of Metallurgy</i> , 2001, 30, 175-183.	0.3	86
70	Thermodynamics of Pure-Silica Molecular Sieve Synthesis. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3629-3638.	1.2	86
71	Enthalpies of Formation of LaMO <sub>3</sub> Perovskites (M = Cr, Fe, Co, and Ni). <i>Journal of Materials Research</i> , 2005, 20, 191-200.	1.2	85
72	Enthalpies of formation of Ce-pyrochlore, Ca <sub>0.93</sub> Ce <sub>1.00</sub> Ti <sub>2.03</sub> Sn <sub>7.00</sub> , U-pyrochlore, Ca <sub>1.46</sub> U <sub>4+0.23</sub> U <sub>6+0.46</sub> Ti <sub>1.85</sub> O <sub>7.00</sub> and Gd-pyrochlore, Gd <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> : three materials relevant to the proposed waste form for excess weapons plutonium. <i>Journal of Nuclear Materials</i> , 2002, 303, 226-239.	1.3	84

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73	Thermodynamics of solid solution formation in NiO—MgO and NiO—ZnO. Journal of Solid State Chemistry, 1981, 38, 264-276.	1.4	83
74	Effect of La and Y on Crystallization Temperatures of Hafnia and Zirconia. Journal of Materials Research, 2004, 19, 693-696.	1.2	83
75	Grain Growth Controlled Giant Permittivity in Soft Chemistry CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. Journal of the American Ceramic Society, 2008, 91, 485-489.	1.9	83
76	Energetics of Cubic and Monoclinic Yttrium Oxide Polymorphs: Phase Transitions, Surface Enthalpies, and Stability at the Nanoscale. Journal of Physical Chemistry C, 2008, 112, 932-938.	1.5	82
77	Thermochemistry and phase equilibria in calcium zeolites. American Mineralogist, 1996, 81, 658-667.	0.9	80
78	Energetics of binary iron nitrides. Solid State Sciences, 2000, 2, 457-462.	1.5	80
79	Thermodynamics of Fe oxides: Part I. Entropy at standard temperature and pressure and heat capacity of goethite (̂ <sup>1</sup> -FeOOH), lepidocrocite (̂ <sup>3</sup> -FeOOH), and maghemite (̂ <sup>3</sup> -Fe <sub>2</sub> O <sub>3</sub> ). American Mineralogist, 2003, 88, 846-854.	0.9	80
80	Nanostructure and Energetics of Carbon-Rich SiCN Ceramics Derived from Polysilylcarbodiimides: Role of the Nanodomain Interfaces. Chemistry of Materials, 2012, 24, 1181-1191.	3.2	80
81	Polymer Derived Ultra High Temperature Ceramics (UHTCs) and Related Materials. Advanced Engineering Materials, 2019, 21, 1900269.	1.6	80
82	Energetics of Bulk and Nano-Akaganeite, ̂ <sup>2</sup> -FeOOH: Enthalpy of Formation, Surface Enthalpy, and Enthalpy of Water Adsorption. Chemistry of Materials, 2006, 18, 1830-1838.	3.2	79
83	Insight on the Stability of Thick Layers in 2D Ruddlesden Popper and Dion Jacobson Lead Iodide Perovskites. Journal of the American Chemical Society, 2021, 143, 2523-2536.	6.6	79
84	Thermodynamic properties, low-temperature heat-capacity anomalies, and single-crystal X-ray refinement of hydronium jarosite, (H <sub>3</sub> O)Fe <sub>3</sub> (SO <sub>4</sub> ) <sub>2</sub> (OH) <sub>6</sub> . Physics and Chemistry of Minerals, 2004, 31, 518-531.	0.3	78
85	Thermodynamics of manganese oxides: Effects of particle size and hydration on oxidation-reduction equilibria among hausmannite, bixbyite, and pyrolusite. American Mineralogist, 2012, 97, 1291-1298.	0.9	78
86	In situ determination of the HfO <sub>2</sub> —Ta <sub>2</sub> O <sub>5</sub> temperature phase diagram up to 3000°C. Journal of the American Ceramic Society, 2019, 102, 4848-4861.	1.9	76
87	Thermodynamics of formation of the silicates and germanates of some divalent transition metals and of magnesium. Journal of Inorganic and Nuclear Chemistry, 1971, 33, 4035-4050.	0.5	75
88	Energetics of formation and hydration of ion-exchanged zeolite Y. Microporous and Mesoporous Materials, 2000, 37, 175-186.	2.2	75
89	Enthalpy of formation of cubic yttria-stabilized zirconia. Journal of Materials Research, 2003, 18, 908-918.	1.2	74
90	Thermochemistry of lanthanum zirconate pyrochlore. Journal of Materials Research, 2009, 24, 3350-3357.	1.2	74

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91	Thermodynamics of formation of coffinite, $USiO_4$ . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6551-6555.	3.3	72
92	Thermodynamics of solid phases containing rare earth oxides. Journal of Chemical Thermodynamics, 2015, 88, 126-141.	1.0	72
93	Nickel solubility and precipitation in soils: a thermodynamic study. Clays and Clay Minerals, 2006, 54, 153-164.	0.6	71
94	Enthalpy of Water Adsorption and Surface Enthalpy of Goethite ( $\hat{I}\pm\text{-FeOOH}$ ) and Hematite ( $\hat{I}\pm\text{-Fe}_2\text{O}_3$ ). Chemistry of Materials, 2007, 19, 825-833.	3.2	71
95	Thermochemistry of $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ - $\hat{I}$ Solid Solutions ( $0.0 \leq x \leq 1.0$ , $0.0 \leq \hat{I} \leq 0.5$ ). Chemistry of Materials, 2005, 17, 2197-2207.	3.2	70
96	Surface Enthalpies of Nanophase ZnO with Different Morphologies. Chemistry of Materials, 2007, 19, 5687-5693.	3.2	70
97	Experimental Approaches to the Thermodynamics of Ceramics Above $1500^\circ\text{C}$ . Journal of the American Ceramic Society, 2012, 95, 1463-1482.	1.9	68
98	Enthalpies of formation of $\text{LaBO}_3$ perovskites (B = Al, Ga, Sc, and In). Journal of Materials Research, 2003, 18, 2501-2508.	1.2	67
99	Calorimetric Measurement of Surface and Interface Enthalpies of Yttria-Stabilized Zirconia (YSZ). Chemistry of Materials, 2010, 22, 2937-2945.	3.2	65
100	Molar heat capacity and thermodynamic functions for $\text{CaTiO}_3$ . Journal of Chemical Thermodynamics, 1999, 31, 1573-1583.	1.0	64
101	Enthalpy of Formation of Gallium Nitride. Journal of Physical Chemistry B, 2000, 104, 4060-4063.	1.2	63
102	Thermochemical study of calcium zeolites $\alpha$ -heulandite and stilbite. American Mineralogist, 2001, 86, 448-455.	0.9	63
103	Thermochemistry of jarosite-alunite and natrojarosite-natroalunite solid solutions. Geochimica Et Cosmochimica Acta, 2004, 68, 2197-2205.	1.6	61
104	Thermochemistry of Hydrotalcite-like Phases Intercalated with $\text{CO}_3^{2-}$ , $\text{NO}_3^-$ , $\text{Cl}^-$ , $\text{I}^-$ , and $\text{ReO}_4^-$ . Chemistry of Materials, 2005, 17, 2455-2459.	3.2	61
105	Energetics of metastudtite and implications for nuclear waste alteration. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17737-17742.	3.3	61
106	In Situ Calorimetric Study of the Growth of Silica TPA-MFI Crystals from an Initially Clear Solution. Chemistry of Materials, 2002, 14, 2803-2811.	3.2	60
107	Thermochemistry of the alkali rare-earth double phosphates, $\text{A}_3\text{RE}(\text{PO}_4)_2$ . Journal of Materials Research, 2004, 19, 2165-2175.	1.2	60
108	Thermodynamics of formation for zirconolite ( $\text{CaZrTi}_2\text{O}_7$ ) from $T=298.15\text{ K}$ to $T=1500\text{ K}$ . Journal of Chemical Thermodynamics, 1999, 31, 229-243.	1.0	59

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109	Activity-composition relations in the systems $\text{CoO}-\text{ZnO}$ and $\text{NiO}-\text{ZnO}$ at $1050^\circ\text{C}$ . <i>Journal of Inorganic and Nuclear Chemistry</i> , 1971, 33, 35-47.	0.5	58
110	Enthalpies of formation of lanthanide oxyapatite phases. <i>Journal of Materials Research</i> , 2001, 16, 2780-2783.	1.2	58
111	Prototype Sandia Octahedral Molecular Sieve (SOMS) $\text{Na}_2\text{Nb}_2\text{O}_6 \cdot \text{H}_2\text{O}$ : Synthesis, Structure and Thermodynamic Stability. <i>Chemistry of Materials</i> , 2004, 16, 2034-2040.	3.2	58
112	$\text{LiMO}_2$ (M=Mn, Fe, and Co): Energetics, polymorphism and phase transformation. <i>Journal of Solid State Chemistry</i> , 2005, 178, 1230-1240.	1.4	58
113	Territory, Proximity, and Spatiality: The Geography of International Conflict. <i>International Studies Review</i> , 2005, 7, 387-406.	0.8	58
114	Thermodynamics of solid electrolytes and related oxide ceramics based on the fluorite structure. <i>Journal of Materials Chemistry</i> , 2010, 20, 10577.	6.7	58
115	Chabazite; energetics of hydration, enthalpy of formation, and effect of cations on stability. <i>American Mineralogist</i> , 1999, 84, 1870-1882.	0.9	56
116	Enthalpies of formation of U-, Th-, Ce-brannerite: implications for plutonium immobilization. <i>Journal of Nuclear Materials</i> , 2003, 320, 231-244.	1.3	56
117	Enthalpy of formation of cubic yttria-stabilized hafnia. <i>Journal of Materials Research</i> , 2004, 19, 1855-1861.	1.2	56
118	Kinetic Model for $\text{TiO}_2$ Polymorphic Transformation from Anatase to Rutile. <i>Journal of the American Ceramic Society</i> , 2007, 90, 250-255.	1.9	56
119	Energetics of $\text{CO}_2$ Adsorption on Mg-Al Layered Double Hydroxides and Related Mixed Metal Oxides. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29836-29844.	1.5	56
120	Carbides and Nitrides of Zirconium and Hafnium. <i>Materials</i> , 2019, 12, 2728.	1.3	56
121	Calorimetric determination of the enthalpy of formation of $\text{InN}$ and comparison with $\text{AlN}$ and $\text{GaN}$ . <i>Journal of Materials Research</i> , 2001, 16, 2824-2831.	1.2	55
122	MOF-5: Enthalpy of Formation and Energy Landscape of Porous Materials. <i>Journal of the American Chemical Society</i> , 2011, 133, 9184-9187.	6.6	55
123	Thermodynamic Control of Phase Composition and Crystallization of Metal-Modified Silicon Oxycarbides. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1899-1903.	1.9	55
124	Silicon nitride: Enthalpy of formation of the $\hat{1}$ - and $\hat{2}$ -polymorphs and the effect of C and O impurities. <i>Journal of Materials Research</i> , 1999, 14, 1959-1968.	1.2	54
125	Thermodynamics and crystal chemistry of the hematite-corundum solid solution and the $\text{FeAlO}_3$ phase. <i>Physics and Chemistry of Minerals</i> , 2002, 29, 515-526.	0.3	54
126	High-temperature calorimetry of zirconia: Heat capacity and thermodynamics of the monoclinic-tetragonal phase transition. <i>Journal of Chemical Thermodynamics</i> , 2006, 38, 211-223.	1.0	54



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127	Thermochemistry of $A_{2x}M_{3y}O_{12}$ negative thermal expansion materials. <i>Journal of Materials Research</i> , 2007, 22, 2512-2521.	1.2	54
128	Dynamics of Water Confined on a $TiO_2$ (Anatase) Surface. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12584-12588.	1.1	54
129	Nanoceria – Energetics of Surfaces, Interfaces and Water Adsorption. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3992-3999.	1.9	54
130	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
131	Calorimetric Study of Nickel Molybdate: Heat Capacity, Enthalpy, and Gibbs Energy of Formation. <i>Journal of the American Ceramic Society</i> , 2003, 86, 1927-1932.	1.9	53
132	Formation enthalpy of $ThSiO_4$ and enthalpy of the thorite – huttonite phase transition. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4675-4683.	1.6	53
133	Enthalpy of Formation of Carbon-Rich Polymer-Derived Amorphous SiCN Ceramics. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3349-3354.	1.9	53
134	Amorphous iron (II) carbonate: Crystallization energetics and comparison to other carbonate minerals related to CO <sub>2</sub> sequestration. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 87, 61-68.	1.6	53
135	Cerium Substitution in Yttrium Iron Garnet: Valence State, Structure, and Energetics. <i>Chemistry of Materials</i> , 2014, 26, 1133-1143.	3.2	53
136	Trends in Structure and Thermodynamic Properties of Normal Rare Earth Carbonates and Rare Earth Hydroxycarbonates. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 106.	0.8	53
137	Thermochemical study of trivalent-doped ceria systems: $CeO_2 \cdot MO_{1.5}$ (M = La, Gd, and Y). <i>Journal of Materials Research</i> , 2006, 21, 3242-3251.	1.2	52
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