

Alexandra Navrotsky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

607
papers

24,189
citations

71
h-index

129
g-index

633
ext. papers

26,620
ext. citations

5.4
avg, IF

7.36
L-index

#	Paper	IF	Citations
607	Thermochemistry of stoichiometric rare earth oxyfluorides REOF. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 1472	3.8	0
606	Heat capacity and thermodynamic functions of partially dehydrated cation-exchanged (Na+, Cs+, Cd2+, Li+, and NH4+) RHO zeolites. <i>Journal of Chemical Thermodynamics</i> , 2022 , 164, 106620	2.9	2
605	The Low-Temperature Heat Capacity and Thermodynamic Properties of Greigite (Fe3S4). <i>Journal of Chemical Thermodynamics</i> , 2022 , 106836	2.9	0
604	Development of high-temperature oxide melt solution calorimetry for p-block element containing materials [CORRIGENDUM 2021 , 36, 785		4
603	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,	11.5	1
602	Pressure-induced structural changes cause large enhancement of photoluminescence in halide perovskites: a quantitative relationship. <i>National Science Review</i> , 2021 , 8, nwab041	10.8	2
601	Energetics of the Local Environment of Structure-Directing Agents Influence Zeolite Synthesis. <i>Chemistry of Materials</i> , 2021 , 33, 2126-2138	9.6	6
600	Energetic Stability and Its Role in the Mechanism of Ionic Transport in NASICON-Type Solid-State Electrolyte LiAlTi(PO). <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4400-4406	6.4	3
599	Shear Pleasure: The Structure, Formation, and Thermodynamics of Crystallographic Shear Phases. <i>Annual Review of Materials Research</i> , 2021 , 51, 521-540	12.8	5
598	Chapmanite [Fe₂Sb(Si₂O₅)₃(OH)]: thermodynamic properties and formation in low-temperature environments. <i>European Journal of Mineralogy</i> , 2021 , 33, 357-371		6
597	Characterization of structural changes in modern and archaeological burnt bone: Implications for differential preservation bias. <i>PLoS ONE</i> , 2021 , 16, e0254529	3.7	4
596	Structure and Thermodynamics of Silicon Oxycarbide Polymer-Derived Ceramics with and without Mixed-Bonding. <i>Materials</i> , 2021 , 14,	3.5	1
595	Thermodynamics of cesium lead halide (CsPbX ₃ , x= I, Br, Cl) perovskites. <i>Thermochimica Acta</i> , 2021 , 695, 178813	2.9	8
594	Thermodynamics of high entropy oxides. <i>Acta Materialia</i> , 2021 , 202, 1-21	8.4	42
593	Thermochemistry and phase stability of the polymorphs of yttrium tantalate, YTaO ₄ . <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1629-1638	6	6
592	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	3.8	5
591	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	4

590	Thermodynamics of Fluorite-Structured Oxides Relevant to Nuclear Energy: A Review. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 703-721	3.2	1
589	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	16.4	31
588	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	2.5	3
587	Marinite Li ₂ Ni(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	9.6	2
586	Heat capacities and thermodynamic functions of neodymia and samaria doped ceria. <i>Journal of Chemical Thermodynamics</i> , 2021 , 158, 106454	2.9	
585	Effect of Annealing on Structural and Thermodynamic Properties of ThSiO-ErPO Xenotime Solid Solution. <i>Inorganic Chemistry</i> , 2021 , 60, 12020-12028	5.1	1
584	Structure-property and thermodynamic relationships in rare earth (Y, Eu, Pr) iridate pyrochlores. <i>Journal of Solid State Chemistry</i> , 2021 , 299, 122163	3.3	3
583	Materials of the Universe: The Final Chemical Frontier. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 1812-1813	3.2	0
582	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, 40108-40117	8.5	17
581	A Comparison of Order-Disorder in Several Families of Cubic Oxides. <i>Frontiers in Chemistry</i> , 2021 , 9, 719159	1.6	0
580	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	2.9	2
579	A new class of entropy stabilized oxides: Commensurately modulated A ₆ B ₂ O ₁₇ (A ²⁺ =Zr, Hf; B ³⁺ =Nb, Ta) structures. <i>Scripta Materialia</i> , 2021 , 204, 114139	5.6	2
578	Thermochemistry of sodium rare earth ternary fluorides, NaREF ₄ . <i>Acta Materialia</i> , 2021 , 220, 117289	8.4	2
577	Synthesis and thermodynamics of uranium-incorporated β -Fe ₂ O ₃ nanoparticles. <i>Journal of Nuclear Materials</i> , 2021 , 556, 153172	3.3	3
576	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	9.6	0
575	Linker Substituents Control the Thermodynamic Stability in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21720-21729	16.4	12
574	Greigite (FeS) 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	11.5	1
573	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	3.8	5

572	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	3.8	0
571	Thermodynamics Drives the Stability of the MOF-74 Family in Water. <i>ACS Omega</i> , 2020 , 5, 13158-13163	3.9	10
570	Entropy Stabilization of TiO ₂ Nb ₂ O ₅ Wadsley-Roth Shear Phases and Their Prospects for Lithium-Ion Battery Anode Materials. <i>Chemistry of Materials</i> , 2020 , 32, 5301-5308	9.6	24
569	Molecular Recognition at Mineral Interfaces: Implications for the Beneficiation of Rare Earth Ores. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16327-16341	9.5	11
568	Thermodynamic assessment of BaO/Ln ₂ O ₃ (Ln = La, Pr, Eu, Gd, Er) systems. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3896-3904	3.8	2
567	Energetics of CO and HO adsorption on alkaline earth metal doped TiO. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15600-15607	3.6	8
566	Thermochemistry of cation disordered Li ion battery cathode materials, (M' = Nb and Ta, M'' = Mn and Fe).. <i>RSC Advances</i> , 2020 , 10, 6540-6546	3.7	2
565	Thermodynamic Evidence of Structural Transformations in CO-Loaded Metal-Organic Framework Zn(Melm) from Heat Capacity Measurements. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4833-4841	16.4	16
564	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	3.6	2
563	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	16.4	15
562	Quantifying oxygen vacancies in neodymium and samarium doped ceria from heat capacity measurements. <i>Acta Materialia</i> , 2020 , 188, 740-744	8.4	4
561	Thermochemistry of nitrogen-doped reduced graphene oxides. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6322-6327	6	3
560	A Geologic Si-O-C Pathway to Incorporate Carbon in Silicates. <i>Geophysical Monograph Series</i> , 2020 , 47-54	1.1	
559	In Situ High-Temperature Synchrotron Diffraction Studies of (Fe,Cr,Al)O Spinel. <i>Inorganic Chemistry</i> , 2020 , 59, 5949-5957	5.1	3
558	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	3.6	4
557	Energetics of Salt-Bearing Sodalites, Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I): A Treatment Option for Pertechnetate-Enriched Nuclear Waste Streams. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 2153-2161	3.2	4
556	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	2.9	2
555	The thermodynamics of gas absorption and guest-induced flexibility in zeolite Y. <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109893	5.3	7

554	Synthesis, Characterization, and Enthalpies of Formation of Uranium Substituted Zirconolites. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 1878-1887	3.2	2
553	Disorder in HoTi Zr O: pyrochlore to defect fluorite solid solution series.. <i>RSC Advances</i> , 2020 , 10, 34632-34650	3.7	17
552	Conductivity, structure, and thermodynamics of YTiO-YNbO solid solutions. <i>Dalton Transactions</i> , 2020 , 49, 10839-10850	4.3	3
551	Thermal Analysis of High-Entropy Rare Earth Oxides. <i>Materials</i> , 2020 , 13,	3.5	6
550	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	3.8	2
549	Enthalpies of formation of high entropy and multicomponent alloys using oxide melt solution calorimetry. <i>Intermetallics</i> , 2020 , 125, 106897	3.5	5
548	A Synergistic Approach to Unraveling the Thermodynamic Stability of Binary and Ternary Chevrel Phase Sulfides. <i>Chemistry of Materials</i> , 2020 , 32, 7044-7051	9.6	5
547	Experimental and computational studies of melting of the spinel phase in the FeAlO ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020 , 70, 101798	1.9	0
546	Thermochemistry of the ZrO ₂ BrO 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	3.8	
545	Thermochemistry of rare earth oxyhydroxides, REOOH (RE = Eu to Lu). <i>Journal of Solid State Chemistry</i> , 2020 , 287, 121344	3.3	3
544	Energetic insights into the crystallization of lanthanum carbonate amorphous precursors. <i>Thermochimica Acta</i> , 2020 , 688, 178605	2.9	3
543	Thermodynamic Studies of Bromide Incorporation into Cesium Lead Iodide (CsPbI ₃). <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8639-8642	3.8	5
542	Carbides and Nitrides of Zirconium and Hafnium. <i>Materials</i> , 2019 , 12,	3.5	25
541	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	1.6	5
540	Energetics, Structures, and Phase Transitions of Cubic and Orthorhombic Cesium Lead Iodide (CsPbI ₃) Polymorphs. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14501-14504	16.4	52
539	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	8.4	10
538	The structure and thermochemistry of K ₂ CO ₃ MgCO ₃ glass. <i>Journal of Materials Research</i> , 2019 , 34, 3377-3388	2.5	1
537	Thermochemical investigation of lithium borate glasses and crystals. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4538-4545	3.8	3

536	TiO ₂ Surface Engineering to Improve Nanostability: The Role of Interface Segregation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4949-4960	3.8	14
535	Metal-catalyst-free access to multiwalled carbon nanotubes/silica nanocomposites (MWCNT/SiO) from a single-source precursor. <i>Dalton Transactions</i> , 2019 , 48, 11018-11033	4.3	9
534	Energetics of hydration on uranium oxide and peroxide surfaces. <i>Journal of Materials Research</i> , 2019 , 34, 3319-3325	2.5	7
533	Thermodynamics of Zn _x Mn _{3-x} O ₄ and Mg _{1-x} Cu _x Cr ₂ O ₄ spinel solid solutions. <i>Journal of Materials Research</i> , 2019 , 34, 3305-3311	2.5	4
532	Thermochemistry of Surfactant-Templating of USY Zeolite. <i>Chemistry - A European Journal</i> , 2019 , 25, 10045-10048	4.8	4
531	Adsorption mechanism of alkyl hydroxamic acid onto bastn�ite: Fundamental steps toward rational collector design for rare earth elements. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 210-219	9.7	31
530	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	3.3	13
529	Polymer-Derived Ultra-High Temperature Ceramics (UHTCs) and Related Materials. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900269	3.5	47
528	Energetics of ethanol and carbon dioxide adsorption on anatase, rutile, and �alumina nanoparticles. <i>American Mineralogist</i> , 2019 , 104, 686-693	2.9	4
527	Heat capacity and thermodynamic functions of crystalline forms of the metal-organic framework zinc 2-methylimidazolate, Zn(MeIm) ₂ . <i>Journal of Chemical Thermodynamics</i> , 2019 , 136, 160-169	2.9	9
526	Sample seal-and-drop device and methodology for high temperature oxide melt solution calorimetric measurements of PuO. <i>Review of Scientific Instruments</i> , 2019 , 90, 044101	1.7	10
525	Reply to comments: 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, 7028-7030	3.8	2
524	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	9.6	22
523	Mechanochemical Synthesis, Accelerated Aging, and Thermodynamic Stability of the Organic Mineral Paeite and Its Cadmium Analogue. <i>ACS Omega</i> , 2019 , 4, 5486-5495	3.9	11
522	Thermodynamic stability of the fluorite phase in the CeO ₂ [CaO] ZrO ₂ system. <i>Journal of Nuclear Materials</i> , 2019 , 517, 80-85	3.3	4
521	Functionality in metal-organic framework minerals: proton conductivity, stability and potential for polymorphism. <i>Chemical Science</i> , 2019 , 10, 4923-4929	9.4	24
520	Review of surface water interactions with metal oxide nanoparticles. <i>Journal of Materials Research</i> , 2019 , 34, 416-427	2.5	14
519	Calorimetric study of the thermodynamic properties of Mn ₅ O ₈ . <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1394-1401	3.8	2

518	Heat capacities, entropies, and Gibbs free energies of formation of low-k amorphous Si(O)CH dielectric films and implications for stability during processing. <i>Journal of Chemical Thermodynamics</i> , 2019 , 128, 320-335	2.9	4
517	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	3.8	8
516	Enthalpies of formation of the solid solutions of $Zr_xY_{0.5-x}/2Ta_{0.5-x}/2O_2$ ($0 \leq x \leq 0.2$ and $0.65 \leq x \leq 1$). <i>Journal of Materials Research</i> , 2019 , 34, 3343-3350	2.5	2
515	Energetics of porous amorphous low-k SiOCH dielectric films. <i>Journal of Chemical Thermodynamics</i> , 2019 , 139, 105885	2.9	2
514	New Developments in the Calorimetry of High-Temperature Materials. <i>Engineering</i> , 2019 , 5, 366-371	9.7	4
513	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	2.5	2
512	Towards a nanoparticle-based prophylactic for maternal autoantibody-related autism. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 21, 102067	6	2
511	Synthesis, Crystal Structure, and Enthalpies of Formation of Churchite-type REPO ₄ ·nH ₂ O (RE = Gd to Lu) Materials. <i>Crystal Growth and Design</i> , 2019 , 19, 4641-4649	3.5	8
510	Synthesis and thermodynamics of transition metal oxide based sodium ion cathode materials. <i>Journal of Solid State Chemistry</i> , 2019 , 280, 121011	3.3	1
509	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	3.8	10
508	Energetics of Formation and Disorder in Rare Earth Weberite RETaO Materials. <i>Inorganic Chemistry</i> , 2019 , 58, 16126-16133	5.1	8
507	Avalanches during recrystallization in radiation-damaged pyrochlore and allanite: Statistical similarity to phase transitions in functional materials. <i>Applied Physics Letters</i> , 2019 , 115, 231904	3.4	3
506	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	4.3	22
505	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	3.8	25
504	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	11.5	152
503	Bio- and mineral acid leaching of rare earth elements from synthetic phosphogypsum. <i>Journal of Chemical Thermodynamics</i> , 2019 , 132, 491-496	2.9	23
502	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	2.9	5
501	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	2.9	23

500	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	3.8	13
499	Thermodynamics of reaction between gas-turbine ceramic coatings and ingested CMAS corrodents. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 2948-2964	3.8	22
498	Thermochemistry of formation of ion exchanged zeolite RHO. <i>Microporous and Mesoporous Materials</i> , 2019 , 274, 373-378	5.3	7
497	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	3.8	3
496	Nanocrystalline apatites: The fundamental role of water. <i>American Mineralogist</i> , 2018 , 103, 550-564	2.9	25
495	Energetics of bulk lutetium-doped Ce _{1-x} Lu _x O ₂ /2 compounds. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3520-3526	3.8	1
494	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	8.4	24
493	Thermodynamic evidence of flexibility in HO and CO absorption of transition metal ion exchanged zeolite LTA. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3970-3978	3.6	12
492	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	3.3	3
491	Heat capacity and thermodynamic functions of crystalline and amorphous forms of the metal organic framework zinc 2-ethylimidazolate, Zn(Etlm) ₂ . <i>Journal of Chemical Thermodynamics</i> , 2018 , 116, 341-351	2.9	15
490	Experimental thermochemistry of neptunium oxides: Np ₂ O ₅ and NpO ₂ . <i>Journal of Nuclear Materials</i> , 2018 , 501, 398-403	3.3	8
489	Combined experimental and computational investigation of thermodynamics and phase equilibria in the CaO-TiO ₂ system. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1361-1370	3.8	10
488	Size driven thermodynamic crossovers in phase stability in zirconia and hafnia. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 31-35	3.8	19
487	Thermodynamics of radiation induced amorphization and thermal annealing of Dy ₂ Sn ₂ O ₇ pyrochlore. <i>Acta Materialia</i> , 2018 , 155, 386-392	8.4	11
486	Probing disorder in pyrochlore oxides using in situ synchrotron diffraction from levitated solids-A thermodynamic perspective. <i>Scientific Reports</i> , 2018 , 8, 10658	4.9	24
485	Trends in Structure and Thermodynamic Properties of Normal Rare Earth Carbonates and Rare Earth Hydroxycarbonates. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 106	2.4	38
484	Hydration dynamics in zeolite A: An X-ray diffraction and infrared spectroscopic study. <i>Microporous and Mesoporous Materials</i> , 2018 , 268, 197-201	5.3	10
483	Thermodynamics of H ₂ O and CO ₂ Absorption and Guest-Induced Phase Transitions in Zeolite RHO. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20366-20376	3.8	10

482	Thermochemistry of BaSm ₂ O ₄ and thermodynamic assessment of the BaO-Bm ₂ O ₃ system. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 5827-5835	3.8	6
481	Energetics of defect production in fluorite-structured CeO ₂ induced by highly ionizing radiation. <i>Physical Review Materials</i> , 2018 , 2,	3.2	10
480	Surface energy of fayalite and its effect on Fe-Si-O oxygen buffers and the olivine-spinel transition. <i>American Mineralogist</i> , 2018 , 103, 1599-1603	2.9	2
479	Thermochemistry of the simplest metal organic frameworks: Formates [M(HCOO) ₂] _n H ₂ O (M = Li, Mg, Mn, Co, Ni, and Zn). <i>Journal of Chemical Thermodynamics</i> , 2018 , 118, 325-330	2.9	3
478	Phase transformations in oxides above 2000°C: experimental technique development. <i>Advances in Applied Ceramics</i> , 2018 , 117, s82-s89	2.3	8
477	High-Resolution Thermochemical Study of Phase Stability and Rapid Oxygen Incorporation in YBaCoZn O 114-Cobaltites. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 9597-9604	2.8	2
476	Thermodynamics and Stability of Rhabdophanes, Hydrated Rare Earth Phosphates REPO _n HO. <i>Frontiers in Chemistry</i> , 2018 , 6, 604	5	17
475	Thermochemical Measurements of Alkali Cation Association to Hexatantalate. <i>Molecules</i> , 2018 , 23,	4.8	1
474	Combined computational and experimental investigation of high temperature thermodynamics and structure of cubic ZrO and HfO. <i>Scientific Reports</i> , 2018 , 8, 14962	4.9	14
473	Tailoring Mesoporous Al ₂ O ₃ Properties by Transition Metal Doping: A Combined Experimental and Computational Study. <i>Chemistry of Materials</i> , 2017 , 29, 1338-1349	9.6	44
472	Thermodynamics of manganese oxides: Sodium, potassium, and calcium birnessite and cryptomelane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E1046-E1053	11.5	35
471	A comparative study of surface energies and water adsorption on Ce-bastnäsite, La-bastnäsite, and calcite via density functional theory and water adsorption calorimetry. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7820-7832	3.6	22
470	Structure and energetics of SiOC and SiOC-modified carbon-bonded carbon fiber composites. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3693-3702	3.8	16
469	Thermodynamic stability of SFCA (silico-ferrite of calcium and aluminum) and SFCA-I phases. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3646-3651	3.8	8
468	Calorimetric Measurements of Surface Energy of Amorphous HfO ₂ Nanoparticles Produced by Gas Phase Condensation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10392-10397	3.8	11
467	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1777-1803	3.8	17
466	Thermodynamics of copper-manganese and copper-iron spinel solid solutions. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3684-3692	3.8	5
465	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	16.4	65

464	Solid-liquid phase equilibria of Fe-Cr-Al alloys and spinels. <i>Journal of Nuclear Materials</i> , 2017 , 492, 128-133	3.3	17
463	Low temperature heat capacity and thermodynamic functions of anion bearing sodalites Na ₈ Al ₆ Si ₆ O ₂₄ X ₂ (X = SO ₄ , ReO ₄ , Cl, I). <i>Journal of Chemical Thermodynamics</i> , 2017 , 114, 14-24	2.9	7
462	A correlation between formation enthalpy and ionic conductivity in perovskite-structured Li ₃ xLa _{0.67-3x} TiO ₃ solid lithium ion conductors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12951-12957	13	13
461	High-temperature calorimetric study of oxide component dissolution in a CaO-MgO-Al ₂ O ₃ -SiO ₂ slag at 1450°C. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1172-1177	3.8	9
460	Drop-and-catch (DnC) calorimetry using aerodynamic levitation and laser heating. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 754-760	3.8	19
459	Composition dependent order-disorder transition in Nd ₂ Zr _{1-x} Th _{0.5x} pyrochlores: A combined structural, calorimetric and ab initio modeling study. <i>Acta Materialia</i> , 2017 , 125, 166-176	8.4	26
458	Structure and Thermochemistry of Perrhenate Sodalite and Mixed Guest Perrhenate/Pertechnetate Sodalite. <i>Environmental Science & Technology</i> , 2017 , 51, 997-1006	10.3	17
457	Structure and thermal expansion of Lu ₂ O ₃ and Yb ₂ O ₃ up to the melting points. <i>Journal of Nuclear Materials</i> , 2017 , 495, 385-391	3.3	20
456	Tunable Low Density Palladium Nanowire Foams. <i>Chemistry of Materials</i> , 2017 , 29, 9814-9818	9.6	25
455	Thermochemistry of UO ₂ -ThO ₂ and UO ₂ -ZrO ₂ fluorite solid solutions. <i>Journal of Chemical Thermodynamics</i> , 2017 , 114, 48-54	2.9	18
454	Calorimetric Study of Alkali Metal Ion (K ⁺ , Na ⁺ , Li ⁺) Exchange in a Clay-Like MXene. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15145-15153	3.8	26
453	Structural, vibrational, and thermochemical properties of the monazite-type solid solution La _{1-x} Pr _x PO ₄ . <i>Journal of Solid State Chemistry</i> , 2017 , 245, 82-88	3.3	23
452	A combined experimental and theoretical study of enthalpy of phase transition and fusion of yttria above 2000 °C using drop-and-catch calorimetry and first-principles calculation. <i>Acta Materialia</i> , 2017 , 124, 204-209	8.4	8
451	Thermal annealing of natural, radiation-damaged pyrochlore. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017 , 232, 25-38	1	11
450	Formation and Dehydration Enthalpy of Potassium Hexaniobate. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 304-311	3.8	2
449	Thermochemistry of La _{1-x} Ln _x PO ₄ -monazites (Ln= Gd, Eu). <i>Journal of Chemical Thermodynamics</i> , 2017 , 105, 396-403	2.9	31
448	The Structure of Liquid and Amorphous Hafnia. <i>Materials</i> , 2017 , 10,	3.5	21
447	Heat capacities, standard entropies and Gibbs energies of Sr-, Rb- and Cs-substituted barium aluminotitanate hollandites. <i>Journal of Chemical Thermodynamics</i> , 2016 , 93, 1-7	2.9	17

446	Location and stability of europium in calcium sulfate and its relevance to rare earth recovery from phosphogypsum waste. <i>American Mineralogist</i> , 2016 , 101, 1854-1861	2.9	11
445	Calorimetric Determination of Thermodynamic Stability of MAX and MXene Phases. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28131-28137	3.8	28
444	Thermodynamic studies of studtite thermal decomposition pathways via amorphous intermediates UO ₃ , U ₂ O ₇ , and UO ₄ . <i>Journal of Nuclear Materials</i> , 2016 , 478, 158-163	3.3	35
443	Energetics of a Uranothorite (Th _{1-x} U _x SiO ₄) Solid Solution. <i>Chemistry of Materials</i> , 2016 , 28, 7117-7124	9.6	22
442	Crystal Structures, Surface Stability, and Water Adsorption Energies of La-Bastn�ite via Density Functional Theory and Experimental Studies. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16767-16781	3.8	19
441	Thermochemistry of Rare Earth Perovskites. <i>MRS Advances</i> , 2016 , 1, 2695-2700	0.7	3
440	Thermodynamic Stability of Transition-Metal-Substituted LiMn _{2-x} M _x O ₄ (M=Cr, Fe, Co, and Ni) Spinel. <i>ChemPhysChem</i> , 2016 , 17, 1973-8	3.2	8
439	Effect of synthesis atmosphere on the proton conductivity of Y-doped barium zirconate solid electrolytes. <i>Ceramics International</i> , 2016 , 42, 13689-13696	5.1	11
438	Thermochemistry of rare earth perovskites Na ₃ xRE _{0.67-x} TiO ₃ (RE = La, Ce). <i>American Mineralogist</i> , 2016 , 101, 1125-1128	2.9	3
437	Little Thermodynamic Penalty for the Synthesis of Ultraporous Metal Organic Frameworks. <i>ChemPhysChem</i> , 2016 , 17, 468-70	3.2	13
436	Thermodynamic Stability of Low-k Amorphous SiOCH Dielectric Films. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2752-2759	3.8	23
435	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, 7717-21	11.5	256
434	Synthesis and thermodynamic study of transition metal ion (Mn ²⁺ , Co ²⁺ , Cu ²⁺ , and Zn ²⁺) exchanged zeolites A and Y. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10116-22	3.6	16
433	U(v) in metal uranates: a combined experimental and theoretical study of MgUO ₄ , CrUO ₄ , and FeUO ₄ . <i>Dalton Transactions</i> , 2016 , 45, 4622-32	4.3	28
432	Bioadsorption of Rare Earth Elements through Cell Surface Display of Lanthanide Binding Tags. <i>Environmental Science & Technology</i> , 2016 , 50, 2735-42	10.3	77
431	Heat capacities and thermodynamic properties of antimony substituted lanthanum orthoniobates. <i>Ceramics International</i> , 2016 , 42, 7054-7059	5.1	10
430	Thermodynamics of solvent interaction with the metal-organic framework MOF-5. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1158-62	3.6	26
429	The Nanocrystalline SnO ₂ /TiO ₂ System Part I: Structural Features. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 631-637	3.8	10

428	Thermodynamics of bastnaesite: A major rare earth ore mineral. <i>American Mineralogist</i> , 2016 , 101, 1129-1134	16
427	The Nanocrystalline SnO ₂ /TiO ₂ System-Part II: Surface Energies and Thermodynamic Stability. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 638-644	3.8 11
426	Chemical ordering in substituted fluorite oxides: a computational investigation of HoZrO and RETHO (RE=Ho, Y, Gd, Nd, La). <i>Scientific Reports</i> , 2016 , 6, 38772	4.9 19
425	Mössbauer Spectral Properties of Yttrium Iron Garnet, Y ₃ Fe ₅ O ₁₂ , and Its Isovalent and Nonisovalent Yttrium-Substituted Solid Solutions. <i>Inorganic Chemistry</i> , 2016 , 55, 3413-8	5.1 7
424	Rare-earth perovskites along the CaTiO ₃ -Na _{0.5} La _{0.5} TiO ₃ join: Phase transitions, formation enthalpies, and implications for loparite minerals. <i>American Mineralogist</i> , 2016 , 101, 2051-2056	2.9 4
423	Thermodynamic Properties of Polymorphs of Fluorosulfate Based Cathode Materials with Exchangeable Potassium Ions. <i>ChemPhysChem</i> , 2016 , 17, 3365-3368	3.2 5
422	Structure and thermodynamic stability of UTaO, a U(v)-bearing compound. <i>Dalton Transactions</i> , 2016 , 45, 18892-18899	4.3 5
421	Distinctive Interactions of Cesium and Hexaniobate in Water. <i>ChemistrySelect</i> , 2016 , 1, 1858-1862	1.8 11
420	Structure and thermodynamics of uranium-containing iron garnets. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 189, 269-281	5.5 25
419	Energetics of Alkali and Alkaline Earth Ion-Exchanged Zeolite A. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15251-15256	3.8 22
418	Synthesis, characterization and thermochemistry of Cs-, Rb- and Sr-substituted barium aluminium titanate hollandites. <i>Journal of Nuclear Materials</i> , 2015 , 459, 70-76	3.3 21
417	Thermodynamics of Fe ₃ O ₄ -Co ₃ O ₄ and Fe ₃ O ₄ -Mn ₃ O ₄ spinel solid solutions at the bulk and nanoscale. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 22286-95	3.6 16
416	CRYSTAL GROWTH. Crystallization by particle attachment in synthetic, biogenic, and geologic environments. <i>Science</i> , 2015 , 349, aaa6760	33.3 1035
415	Enthalpies of formation of rare earth niobates, RE ₃ NbO ₇ . <i>American Mineralogist</i> , 2015 , 100, 1578-1583	2.9 14
414	Thermochemistry of Multiferroic Organic-Inorganic Hybrid Perovskites [(CH ₃) ₂ NH ₂][M(HCOO) ₃] (M = Mn, Co, Ni, and Zn). <i>Journal of the American Chemical Society</i> , 2015 , 137, 10351-6	16.4 31
413	Effects of Simulated Rare Earth Recycling Wastewaters on Biological Nitrification. <i>Environmental Science & Technology</i> , 2015 , 49, 9460-8	10.3 18
412	Thermodynamics of Methane Adsorption on Copper HKUST-1 at Low Pressure. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2439-43	6.4 17
411	Energy Landscape of Water and Ethanol on Silica Surfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15428-15433	3.8 27

410	Thermodynamic stability of lead-free alkali niobate and tantalate perovskites. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7691-7698	7.1	23
409	Thermodynamics of solid phases containing rare earth oxides. <i>Journal of Chemical Thermodynamics</i> , 2015 , 88, 126-141	2.9	50
408	Probing the energetics of organic-nanoparticle interactions of ethanol on calcite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5314-8	11.5	19
407	Pyrochlore and perovskite potassium tantalate: enthalpies of formation and phase transformation. <i>Chemistry - A European Journal</i> , 2015 , 21, 5231-7	4.8	15
406	Hydrogenated SiO ₂ nanoparticles: Synthesis, structure, and thermodynamic stability. <i>Journal of Materials Research</i> , 2015 , 30, 295-303	2.5	13
405	Energetics of order-disorder in layered magnesium aluminum double hydroxides with interlayer carbonate. <i>Inorganic Chemistry</i> , 2015 , 54, 3253-9	5.1	12
404	Energetics of sodium-calcium exchanged zeolite A. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11198-203	3.6	11
403	Energetics and structural evolution of Na-Ca exchanged zeolite A during heating. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9241-7	3.6	11
402	Review. Mineralogy, materials science, energy, and environment: A 2015 perspective. <i>American Mineralogist</i> , 2015 , 100, 674-680	2.9	11
401	Formation enthalpies of LaLn ₂ O ₃ (Ln = Ho, Er, Tm and Yb) interlanthanide perovskites. <i>Journal of Solid State Chemistry</i> , 2015 , 227, 150-154	3.3	19
400	A combined calorimetric and computational study of the energetics of rare earth substituted UO ₂ systems. <i>Acta Materialia</i> , 2015 , 97, 191-198	8.4	10
399	White SiO ₂ Ceramic: Structure and Thermodynamic Stability. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 242-246	3.8	24
398	Structural Behavior of Ba _{1.24} Al _{2.48} Ti _{5.52} O ₁₆ Hollandite at High Temperature: An In Situ Neutron Diffraction Study. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 255-262	3.8	12
397	In Situ Diffraction from Levitated Solids Under Extreme Conditions—Structure and Thermal Expansion in the Eu ₂ O ₃ /rO ₂ System. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1292-1299	3.8	25
396	Energetics of lanthanide cobalt perovskites: LnCoO ₃ (Ln = La, Nd, Sm, Gd). <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19490-19496	13	12
395	Thermochemistry of rare earth doped uranium oxides Ln _x U _{1-x} O _{2-0.5x+y} (Ln = La, Y, Nd). <i>Journal of Nuclear Materials</i> , 2015 , 465, 682-691	3.3	13
394	Thermodynamic stability and correlation with synthesis conditions, structure and phase transformations in orthorhombic and monoclinic Li ₂ M(SO ₄) ₂ (M = Mn, Fe, Co, Ni) polymorphs. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2601-2608	13	14
393	Energetics and defect clustering trends for trivalent rare earth cations substituted in UO ₂ . <i>Journal of Nuclear Materials</i> , 2015 , 457, 252-255	3.3	6

392	Influence of antimony substitution on spontaneous strain and thermodynamic stability of lanthanum orthoniobate. <i>Ceramics International</i> , 2015 , 41, 2128-2133	5.1	20
391	Combined computational and experimental investigation of the refractory properties of La ₂ Zr ₂ O ₇ . <i>Acta Materialia</i> , 2015 , 84, 275-282	8.4	28
390	Thermodynamics of metal-organic frameworks. <i>Journal of Solid State Chemistry</i> , 2015 , 223, 53-58	3.3	38
389	Innentitelbild: Energetic Insight into the Formation of Solids from Aluminum Polyoxocations (Angew. Chem. 32/2015). <i>Angewandte Chemie</i> , 2015 , 127, 9260-9260	3.6	
388	Energetic Insight into the Formation of Solids from Aluminum Polyoxocations. <i>Angewandte Chemie</i> , 2015 , 127, 9385-9388	3.6	2
387	Structure and Thermal Expansion of YSZ and La ₂ Zr ₂ O ₇ Above 1500°C from Neutron Diffraction on Levitated Samples. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3381-3388	3.8	21
386	Energetic Insight into the Formation of Solids from Aluminum Polyoxocations. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9253-6	16.4	8
385	Influence of Ti ⁴⁺ on the Energetics and Microstructure of SnO ₂ Nanoparticles. <i>Ceramic Engineering and Science Proceedings</i> , 2015 , 145-152	0.1	
384	Thermodynamics of formation of coffinite, USiO ₄ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6551-5	11.5	54
383	Direct Experimental Measurement of Water Interaction Energetics in Amorphous Carbonates MCO ₃ (M = Ca, Mn, and Mg) and Implications for Carbonate Crystal Growth. <i>Crystal Growth and Design</i> , 2015 , 15, 70-78	3.5	27
382	Thermodynamic complexity of carbon capture in alkylamine-functionalized metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4248-4254	13	29
381	Thermochemistry of onion-like carbons. <i>Carbon</i> , 2014 , 69, 490-494	10.4	15
380	Cerium Substitution in Yttrium Iron Garnet: Valence State, Structure, and Energetics. <i>Chemistry of Materials</i> , 2014 , 26, 1133-1143	9.6	40
379	Progress and New Directions in Calorimetry: A 2014 Perspective. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3349-3359	3.8	133
378	Nuclear Materials. Taking the measure of molten uranium oxide. <i>Science</i> , 2014 , 346, 916-7	33.3	9
377	Energetics and Structure of Polymer-Derived Si(B)O _x Glasses: Effect of the Boron Content and Pyrolysis Temperature. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 303-309	3.8	26
376	Energetics of Confinement of n-Hexane in Ca ^{Na} Ion Exchanged Zeolite A. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25590-25596	3.8	16
375	Computational study of the energetics and defect clustering tendencies for Y- and La-doped UO ₂ . <i>Acta Materialia</i> , 2014 , 78, 282-289	8.4	16

374	Thermodynamics of thorium substitution in yttrium iron garnet: comparison of experimental and theoretical results. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16945-16954	13	16
373	Enthalpy of formation and thermodynamic insights into yttrium doped BaZrO ₃ . <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17840-17847	13	37
372	Possible correlation between enthalpies of formation and redox potentials in LiMSO ₄ OH (M = Co, Fe, Mn), Li-ion polyanionic battery cathode materials. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6887-6894	13	7
371	Thermochemistry of nanodiamond terminated by oxygen containing functional groups. <i>Carbon</i> , 2014 , 80, 544-550	10.4	36
370	Defect Chemistry of Singly and Doubly Doped Ceria: Correlation between Ion Transport and Energetics. <i>Angewandte Chemie</i> , 2014 , 126, 9671-9675	3.6	5
369	Energy landscape of self-assembled superlattices of PbSe nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 9054-7	11.5	26
368	Defect chemistry of singly and doubly doped ceria: correlation between ion transport and energetics. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9517-21	16.4	10
367	Energetics of Formation and Hydration of a Porous Metal Organic Nanotube. <i>Chemistry of Materials</i> , 2014 , 26, 5105-5112	9.6	15
366	Thermochemistry, Morphology, and Optical Characterization of Germanium Allotropes. <i>Chemistry of Materials</i> , 2014 , 26, 3263-3271	9.6	21
365	Energetics of CO ₂ and H ₂ O adsorption on zinc oxide. <i>Langmuir</i> , 2014 , 30, 9091-7	4	39
364	Theoretical study of mixing energetics in homovalent fluorite-structured oxide solid solutions. <i>Journal of Nuclear Materials</i> , 2014 , 444, 292-297	3.3	5
363	Experimental energetics of large and extra-large pore zeolites: Pure silica beta polymorph C (BEC) and Ge-containing ITQ-33. <i>Microporous and Mesoporous Materials</i> , 2014 , 187, 77-81	5.3	4
362	High-Temperature Materials Chemistry and Thermodynamics 2014 , 17-38		2
361	Energetics of spinels in the Fe-Ti-O system at the nanoscale. <i>ChemPhysChem</i> , 2014 , 15, 3655-62	3.2	6
360	The Energy Landscape of Uranyl Peroxide Species. <i>Chemistry - A European Journal</i> , 2014 , 20, 3536-3536	4.8	1
359	Presentation of the Dana Medal of the Mineralogical Society of America for 2014 to Patricia Dove. <i>American Mineralogist</i> , 2014 , 99, 1188-1188	2.9	
358	The energy landscape of uranyl-peroxide species. <i>Chemistry - A European Journal</i> , 2014 , 20, 3646-51	4.8	22
357	Manganese carbonate formation from amorphous and nanocrystalline precursors: Thermodynamics and geochemical relevance. <i>American Mineralogist</i> , 2014 , 99, 1063-1070	2.9	10

356	Energetics of metastudtite and implications for nuclear waste alteration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17737-42	11.5	49
355	Energetics of Silica-Poor Glasses in the Systems MgOBiO ₂ and Mg _{0.5} Ca _{0.5} OBiO ₂ . <i>Journal of the American Ceramic Society</i> , 2014 , 97, 451-456	3.8	2
354	Energetics of CO ₂ Adsorption on MgAl Layered Double Hydroxides and Related Mixed Metal Oxides. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29836-29844	3.8	45
353	Energetics of heterometal substitution in Keggin [MO ₄ Al ₁₂ (OH) ₂₄ (OH ₂) ₁₂] ^{6/7/8+} ions. <i>American Mineralogist</i> , 2014 , 99, 2337-2343	2.9	7
352	Direct Measurement of Fusion Enthalpy of LaAlO ₃ and Comparison of Energetics of Melt, Glass, and Amorphous Thin Films. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1589-1594	3.8	10
351	Energetics of lanthanide-doped calcium phosphate apatite. <i>American Mineralogist</i> , 2014 , 99, 2320-2327	2.9	10
350	Rapidly reversible redox transformation in nanophase manganese oxides at room temperature triggered by changes in hydration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6209-14	11.5	22
349	Characterization of Surface Defect Sites on Bulk and Nanophase Anatase and Rutile TiO ₂ by Low-Temperature Specific Heat. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4544-4550	3.8	17
348	Surface Energetics of Nanoscale LaMnO ₃ +PPerovskite. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3202-3209	3.8	7
347	Thermochemical evidence for strong iodine chemisorption by ZIF-8. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16256-9	16.4	163
346	Effect of Precursor on Speciation and Nanostructure of SiBCN Polymer-Derived Ceramics. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1651-1659	3.8	42
345	Polymer-derived SiCN and SiOC ceramics structure and energetics at the nanoscale. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3826	13	207
344	Small molecule silica interactions in porous silica structures. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 109, 38-50	5.5	27
343	Thermochemistry of zeolitic imidazolate frameworks of varying porosity. <i>Journal of the American Chemical Society</i> , 2013 , 135, 598-601	16.4	97
342	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, 6790-3	16.4	120
341	Zirconium Incorporation into CaTiO ₃ Perovskite Prepared from Xerogels and Implication for the Fate of (Ca,Sr)TiO ₃ Nuclear Waste Ceramics. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2644-2650	3.8	0
340	Thermodynamic study of alkali and alkaline-earth cation-exchanged natrolites. <i>Microporous and Mesoporous Materials</i> , 2013 , 167, 221-227	5.3	10
339	Thermodynamics of Nanoscale Calcium and Strontium Titanate Perovskites. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3670-3676	3.8	18

338	Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20116-20126	3.8	80
337	Amorphous Alumina Nanoparticles: Structure, Surface Energy, and Thermodynamic Phase Stability. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17123-17130	3.8	106
336	Enthalpies of formation of Fe-Ni monosulfide solid solutions. <i>American Mineralogist</i> , 2013 , 98, 1508-1515.	3.9	4
335	Thermodynamic Control of Phase Composition and Crystallization of Metal-Modified Silicon Oxycarbides. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1899-1903	3.8	39
334	Stabilizing Effect of Mg on the Energetics of the Li(Ni,Co,Al)O ₂ Cathode Material for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A302-A305	3.9	32
333	Energetic Effects of Substitution of La and Si in Oxyapatite-Type Materials. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3915-3919	3.8	7
332	Thermochemistry of Barium Hollandites. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1554-1561	3.8	25
331	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, 8801-6	11.5	86
330	Thermodynamic basis for evolution of apatite in calcified tissues. <i>American Mineralogist</i> , 2013 , 98, 2037-2045	3.9	28
329	Experimental Confirmation of Low Surface Energy in LiCoO ₂ and Implications for Lithium Battery Electrodes. <i>Angewandte Chemie</i> , 2013 , 125, 12361-12364	3.6	2
328	Thermodynamics of Nanocrystalline Sn _{0.586} Ti _{0.414} O ₂ Rutile Solid Solution: Comparison with Nanocrystalline SnO ₂ and TiO ₂ and with Bulk Materials. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2622-2626	3.8	5
327	Formation enthalpies and heat capacities of rare earth titanates: RE ₂ TiO ₅ (RE=La, Nd and Gd). <i>Journal of Solid State Chemistry</i> , 2012 , 187, 70-74	3.3	27
326	Co ₃ O ₄ /Co ₂ ZnO ₄ spinels: The case for a solid solution. <i>Journal of Solid State Chemistry</i> , 2012 , 190, 143-149.	3.3	13
325	Mesoporous silica synthesis: Energetics of interaction between framework and structure directing agent. <i>Microporous and Mesoporous Materials</i> , 2012 , 149, 119-125	5.3	20
324	Thermodynamic Properties of Uranyl Minerals: Constraints from Calorimetry and Solubility Measurements. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 607-613	3.9	34
323	Thermodynamics of Nanoscale Lead Titanate and Barium Titanate Perovskites. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3254-3262	3.8	10
322	Yttria-stabilized hafnia: Thermochemistry of formation and hydration of nanoparticles. <i>Journal of Materials Research</i> , 2012 , 27, 1022-1028	2.5	4
321	Energetics of Dysprosium-Stabilized Bismuth Oxide Electrolytes. <i>Chemistry of Materials</i> , 2012 , 24, 4185-4191.	3.6	12

320	Nanostructure and Energetics of Carbon-Rich SiCN Ceramics Derived from Polysilylcarbodiimides: Role of the Nanodomain Interfaces. <i>Chemistry of Materials</i> , 2012 , 24, 1181-1191	9.6	64
319	Heat Capacity Studies of Surface Water Confined on Cassiterite (SnO ₂) Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3910-3917	3.8	23
318	Effect of boron on the thermodynamic stability of amorphous polymer-derived Si(B)CN ceramics. <i>Acta Materialia</i> , 2012 , 60, 4514-4522	8.4	34
317	Amorphous iron (II) carbonate: Crystallization energetics and comparison to other carbonate minerals related to CO ₂ sequestration. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 87, 61-68	5.5	44
316	Understanding the stability of fluorosulfate Li-ion battery cathode materials: a thermochemical study of LiFe _{1-x} Mn _x SO ₄ F (0 ≤ x ≤ 1) polymorphs. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24446		25
315	Thermochemistry of (Ca _x Sr _{1-x})TiO ₃ , (Ba _x Sr _{1-x})TiO ₃ , and (Ba _x Ca _{1-x})TiO ₃ Perovskite Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1717-1726	3.8	17
314	Thermodynamics of the magnetite-ulvöspinel (Fe ₃ O ₄ -Fe ₂ TiO ₄) solid solution. <i>American Mineralogist</i> , 2012 , 97, 1330-1338	2.9	36
313	Oxide melt solution calorimetry of Fe ²⁺ -bearing oxides and application to the magnetite-hagemite (Fe ₃ O ₄ -Fe _{8/3} O ₄) system. <i>American Mineralogist</i> , 2012 , 97, 164-175	2.9	22
312	Enthalpies of formation and insights into defect association in ceria singly and doubly doped with neodymia and samaria. <i>Solid State Ionics</i> , 2012 , 227, 17-22	3.3	20
311	Enthalpy of formation of Ln ₂ O ₂ CO ₃ II (Ln=La, Nd, Eu) and thermodynamics of decomposition equilibria. <i>Thermochimica Acta</i> , 2012 , 550, 76-82	2.9	10
310	Fluorite-pyrochlore transformation in Eu ₂ Zr ₂ O ₇ —direct calorimetric measurement of phase transition, formation and surface enthalpies. <i>RSC Advances</i> , 2012 , 2, 3328	3.7	45
309	Thermodynamics of manganese oxides: Effects of particle size and hydration on oxidation-reduction equilibria among hausmannite, bixbyite, and pyrolusite. <i>American Mineralogist</i> , 2012 , 97, 1291-1298	2.9	66
308	Thermodynamics of the CoO-NiO System at Bulk and Nanoscale. <i>Chemistry of Materials</i> , 2012 , 24, 2311-2315	3.65	24
307	Energetics of cation mixing in urania-ceria solid solutions with stoichiometric oxygen concentrations. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5680-5	3.6	10
306	Nuclear fuel in a reactor accident. <i>Science</i> , 2012 , 335, 1184-8	33.3	328
305	Energetics of stepwise disordering transformation in pyrochlores, RE ₂ Ti ₂ O ₇ (RE = Y, Gd and Dy). <i>Acta Materialia</i> , 2012 , 60, 4303-4310	8.4	21
304	Thermodynamics of NiAl ₂ O ₄ -NiFe ₂ O ₄ Spinel Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 423-430	3.8	15
303	Experimental Approaches to the Thermodynamics of Ceramics Above 1500°C. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1463-1482	3.8	57

302	Transparent Nanocrystalline Pure and Ca-Doped MgO by Spark Plasma Sintering of Anhydrous Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1185-1188	3.8	30
301	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, 1874-7	11.5	109
300	Yttria-stabilized zirconia crystallization in Al ₂ O ₃ /YSZ multilayers. <i>Journal of Materials Research</i> , 2012 , 27, 939-943	2.5	5
299	MOF-5: enthalpy of formation and energy landscape of porous materials. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9184-7	16.4	46
298	Controllable Morphology of Engelhard Titanium Silicates ETS-4: Synthetic, Photocatalytic, and Calorimetric Studies. <i>Chemistry of Materials</i> , 2011 , 23, 1166-1173	9.6	8
297	The energetics of La ₄ LiAuO ₈ . <i>Journal of Materials Research</i> , 2011 , 26, 1188-1192	2.5	3
296	Grain-Boundary Enthalpies of Cubic Yttria-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2181-2184	3.8	5
295	Yttrium Substitution in MTiO ₃ (M=Ca, Sr, Ba and Ca+Sr+Ba) Perovskites and Implication for Incorporation of Fission Products into Ceramic Waste Forms. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3112-3116	3.8	4
294	The Effect of Vacancy and Barium Substitution on the Stability of the Cesium Titanium Silicate Pollucite. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3053-3059	3.8	8
293	Nanocerium Energetics of Surfaces, Interfaces and Water Adsorption. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3992-3999	3.8	45
292	Direct Measurement of Surface Energy of CeO ₂ by Differential Scanning Calorimetry. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3679-3682	3.8	32
291	Energetics of mixing in ThO ₂ -CeO ₂ fluorite solid solutions. <i>Journal of Nuclear Materials</i> , 2011 , 419, 72-75	3.3	15
290	Application of scanning calorimetry to estimate soil organic matter loss after fires. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 104, 351-356	4.1	2
289	Nanoscale effects on thermodynamics and phase equilibria in oxide systems. <i>ChemPhysChem</i> , 2011 , 12, 2207-15	3.2	135
288	Synthesis and thermochemistry of relaxor ferroelectrics in the lead magnesium niobate/lead titanate (PMN/PT) solid solutions series. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1837-1845		7
287	Actinide Dioxides in Water: Interactions at the Interface. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 3130-3134	6.4	29
286	Experimental Methodologies for Assessing the Surface Energy of Highly Hygroscopic Materials: The Case of Nanocrystalline Magnesia. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23929-23935	3.8	32
285	Energetics of single-wall carbon nanotubes as revealed by calorimetry and neutron scattering. <i>Carbon</i> , 2011 , 49, 949-954	10.4	17

284	Thermochemistry of proton containing borosilicate, aluminosilicate and gallosilicate zeolite beta. <i>Microporous and Mesoporous Materials</i> , 2011 , 142, 749-753	5.3	4
283	Enthalpy of formation of zinc acetate dihydrate. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 980-982	2.9	13
282	Dynamics of Water Confined on the Surface of Titania and Cassiterite Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1352, 47		2
281	Direct measurements of fusion and phase transition enthalpies in lanthanum oxide. <i>Journal of Materials Research</i> , 2011 , 26, 845-847	2.5	20
280	Surface enthalpy and enthalpy of water adsorption of nanocrystalline tin dioxide: Thermodynamic insight on the sensing activity. <i>Journal of Materials Research</i> , 2011 , 26, 848-853	2.5	32
279	Cadmium selenide: Surface and nanoparticle energetics. <i>Journal of Materials Research</i> , 2011 , 26, 720-725	2.5	14
278	Thermochemistry and Crystallization of Glass-Forming Y-Substituted Sr-Analogues of Fresnoite (Sr ₂ TiSi ₂ O ₈). <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2055	3.8	7
277	Calorimetric Study of Heats of Mixing in Sn _x Ti _{1-x} O ₂ Rutile Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3432-3436	3.8	12
276	Thermochemistry of Lanthana- and Ytria-Doped Thoria. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 4142-4147	3.8	43
275	Calorimetric study of the surface energy of forsterite. <i>American Mineralogist</i> , 2010 , 95, 112-117	2.9	26
274	Hafnia: Energetics of thin films and nanoparticles. <i>Journal of Applied Physics</i> , 2010 , 107, 123514	2.5	33
273	First-principles computational study of defect clustering in solid solutions of ThO ₂ with trivalent oxides. <i>Physical Review B</i> , 2010 , 82,	3.3	20
272	Synthesis and calorimetric studies of oxide multilayer systems: Solid oxide fuel cell cathode and electrolyte materials. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C5A1-C5A5	1.3	3
271	Enthalpies of formation of pyrrhotite Fe _{1-0.125x} S (0 ≤ x ≤ 1) solid solutions. <i>American Mineralogist</i> , 2010 , 95, 717-723	2.9	4
270	²⁹ Si and ¹³ C Solid-State NMR Spectroscopic Study of Nanometer-Scale Structure and Mass Fractal Characteristics of Amorphous Polymer Derived Silicon Oxycarbide Ceramics. <i>Chemistry of Materials</i> , 2010 , 22, 6221-6228	9.6	130
269	Calorimetric Measurement of Surface and Interface Enthalpies of Ytria-Stabilized Zirconia (YSZ). <i>Chemistry of Materials</i> , 2010 , 22, 2937-2945	9.6	59
268	Thermodynamics of solid electrolytes and related oxide ceramics based on the fluorite structure. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10577		52
267	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, 16438-43	11.5	318

266	Shape-dependent surface energetics of nanocrystalline TiO ₂ . <i>Journal of Materials Chemistry</i> , 2010 , 20, 8639		33
265	Nanophase transition metal oxides show large thermodynamically driven shifts in oxidation-reduction equilibria. <i>Science</i> , 2010 , 330, 199-201	33.3	252
264	Enthalpies of formation of CdSxSe1-x solid solutions. <i>Journal of Materials Research</i> , 2009 , 24, 1368-1374	2.5	18
263	Thermochemistry of a synthetic Na-Mg-rich triple-chain silicate: Determination of thermodynamic variables. <i>American Mineralogist</i> , 2009 , 94, 1242-1254	2.9	5
262	Iron ore sintering. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 96, 353-361	4.1	7
261	Energetics of oxide nanoparticles. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 2647-2657	2.1	42
260	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	3.8	90
259	Thermochemistry and Aqueous Durability of Ternary Glass Forming Ba-Titanosilicates: Fresnoite (Ba ₂ TiSi ₂ O ₈) and Ba-Titanite (BaTiSiO ₅). <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2053-2058	3.8	13
258	The Crystallization of Ba-Substituted CsTiSi ₂ O _{6.5} Pollucite Using CsTiSi ₂ O _{6.5} Seed Crystals. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2144-2146	3.8	8
257	Structure, Heat Capacity, and High-Temperature Thermal Properties of Yb ₁₄ Mn _{1-x} Al _x Sb ₁₁ . <i>Chemistry of Materials</i> , 2009 , 21, 1354-1360	9.6	84
256	Inelastic neutron scattering study of confined surface water on rutile nanoparticles. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 2796-800	2.8	45
255	Thermochemistry of glass forming Y-substituted Sr-analogues of titanite (SrTiSiO ₅). <i>Journal of Materials Research</i> , 2009 , 24, 3380-3386	2.5	5
254	Thermochemistry of microporous and mesoporous materials. <i>Chemical Reviews</i> , 2009 , 109, 3885-902	68.1	137
253	Monoclinic to tetragonal transformations in hafnia and zirconia: A combined calorimetric and density functional study. <i>Physical Review B</i> , 2009 , 80,	3.3	89
252	Thermochemistry of lanthanum zirconate pyrochlore. <i>Journal of Materials Research</i> , 2009 , 24, 3350-3357	2.5	65
251	A correlation between the ionic conductivities and the formation enthalpies of trivalent-doped ceria at relatively low temperatures. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 8580-5	3.6	36
250	Materials Science of High-Level Nuclear Waste Immobilization. <i>MRS Bulletin</i> , 2009 , 34, 46-53	3.2	233
249	Heat capacities and thermodynamic functions of TiO ₂ anatase and rutile: Analysis of phase stability. <i>American Mineralogist</i> , 2009 , 94, 236-243	2.9	172

248	Thermodynamic properties of ferrosiderite ($\text{FeFe}(\text{OH})_2$). <i>Clays and Clay Minerals</i> , 2008 , 56, 526-530	2.1	13
247	Size-driven structural and thermodynamic complexity in iron oxides. <i>Science</i> , 2008 , 319, 1635-8	33.3	544
246	Direct visualization of phase transition dynamics in binary supported phospholipid bilayers using imaging ellipsometry. <i>Soft Matter</i> , 2008 , 4, 1161-1164	3.6	16
245	Thermodynamic properties of $\text{CaTh}(\text{PO}_4)_2$ synthetic cheralite. <i>American Mineralogist</i> , 2008 , 93, 1356-1362	2.9	24
244	Thermodynamics of Silica Nanoparticle Self-Assembly in Basic Solutions of Monovalent Cations. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14754-14761	3.8	24
243	Enthalpy of formation of the cubic fluorite phase in the ceria-zirconia system. <i>Journal of Materials Research</i> , 2008 , 23, 1105-1112	2.5	16
242	Oxide-melt solution calorimetry of selenides: Enthalpy of formation of zinc, cadmium, and lead selenide. <i>American Mineralogist</i> , 2008 , 93, 779-783	2.9	13
241	Thermochemistry of nanoparticles on a substrate: Zinc oxide on amorphous silica. <i>Journal of Materials Research</i> , 2008 , 23, 1907-1915	2.5	10
240	Calorimetric study of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$, a ceramic with giant permittivity. <i>Journal of Materials Research</i> , 2008 , 23, 1522-1531	2.5	11
239	Energetics of ZnO nanoneedles: Surface enthalpy, stability, and growth. <i>Journal of Materials Research</i> , 2008 , 23, 1652-1657	2.5	12
238	Surface Energetics of Nanocrystalline YSZ Powders. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1122, 6		
237	Enthalpy of formation and dehydration of alkaline earth cation exchanged zeolite beta. <i>Microporous and Mesoporous Materials</i> , 2008 , 109, 147-155	5.3	16
236	Calorimetric determination of energetics of solid solutions of UO_2+x with CaO and Y_2O_3 . <i>Journal of Nuclear Materials</i> , 2008 , 373, 39-43	3.3	13
235	Energetics of Cubic and Monoclinic Yttrium Oxide Polymorphs: Phase Transitions, Surface Enthalpies, and Stability at the Nanoscale. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 932-938	3.8	73
234	Grain Growth-Controlled Giant Permittivity in Soft Chemistry $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 485-489	3.8	71
233	Constraint of Oxygen Fugacity During Field-Assisted Sintering: TiO_2 as a Test Case. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 970-974	3.8	1
232	Energetics of $\text{La}_2\text{O}_3\text{-HfO}_2\text{-SiO}_2$ Glasses. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1088-1094	3.8	6
231	Thermodynamically Stable $\text{Si}_w\text{C}_x\text{N}_y\text{O}_z$ Polymer-Like, Amorphous Ceramics Made from Organic Precursors. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2391-2393	3.8	23

230	Energetics of SixOyCz Polymer-Derived Ceramics Prepared Under Varying Conditions. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2969-2974	3.8	43
229	Enthalpy of Formation of Carbon-Rich Polymer-Derived Amorphous SiCN Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3349-3354	3.8	48
228	Fluorite and Pyrochlore Phases in the HfO ₂ -La ₂ O ₃ -Gd ₂ O ₃ Systems: Characterization and Calorimetric Study of Samples Quenched From Melts Formed by Laser Heating and Aerodynamic Levitation. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1122, 7		1
227	Calorimetric measurements of energetics of defect interactions in fluorite oxides. <i>Faraday Discussions</i> , 2007 , 134, 171-80; discussion 215-33, 415-9	3.6	35
226	Enthalpy of Water Adsorption and Surface Enthalpy of Goethite (α-FeOOH) and Hematite (α-Fe ₂ O ₃). <i>Chemistry of Materials</i> , 2007 , 19, 825-833	9.6	58
225	Heats of Formation for Several Crystalline Polymorphs and Pressure-Induced Amorphous Forms of AMo ₂ O ₈ (A = Zr, Hf) and ZrW ₂ O ₈ . <i>Chemistry of Materials</i> , 2007 , 19, 468-476	9.6	24
224	Surface Enthalpies of Nanophase ZnO with Different Morphologies. <i>Chemistry of Materials</i> , 2007 , 19, 5687-5693	9.6	66
223	Elastic properties of yttrium-doped BaCeO ₃ perovskite. <i>Applied Physics Letters</i> , 2007 , 90, 161903	3.4	14
222	Compressibility and pressure-induced amorphization of guest-free melanophlogite: An in-situ synchrotron X-ray diffraction study. <i>American Mineralogist</i> , 2007 , 92, 166-173	2.9	13
221	Enthalpy of formation and dehydration of lithium and sodium zeolite beta. <i>Microporous and Mesoporous Materials</i> , 2007 , 98, 29-40	5.3	17
220	Energetics of cancrinite: Effect of salt inclusion. <i>Microporous and Mesoporous Materials</i> , 2007 , 98, 227-233	3.3	11
219	Enthalpies of formation of rare earth orthovanadates, REVO ₄ . <i>Journal of Solid State Chemistry</i> , 2007 , 180, 847-851	3.3	37
218	Calorimetry of nanoparticles, surfaces, interfaces, thin films, and multilayers. <i>Journal of Chemical Thermodynamics</i> , 2007 , 39, 1-9	2.9	46
217	Kinetic Model for TiO ₂ Polymorphic Transformation from Anatase to Rutile. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 250-255	3.8	50
216	Energetics of Cerium/Zirconium Substitution in the xCe _{0.8} Y _{0.2} O _{1.9} (1-x)Zr _{0.8} Y _{0.2} O _{1.9} System. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 584-589	3.8	6
215	Energetics of Defect Fluorite and Pyrochlore Phases in Lanthanum and Gadolinium Hafnates. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1171-1176	3.8	43
214	Systematics of Phase Transition and Mixing Energetics in Rare Earth, Yttrium, and Scandium Stabilized Zirconia and Hafnia. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2143-2150	3.8	36
213	Thermodynamically Stable SixOyCz Polymer-Like Amorphous Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3213-3219	3.8	101

212	Atmospheric Pressure Synthesis of Heavy Rare Earth Sesquioxides Nanoparticles of the Uncommon Monoclinic Phase. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3683-3686	3.8	21
211	Application of calorimetry on a chip to high-pressure materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 9187-91	11.5	10
210	Energetics of rare-earth-doped hafnia. <i>Journal of Materials Research</i> , 2007 , 22, 876-885	2.5	18
209	The energetics of hematite dissolution in iron-oxide-rich melts: In situ high-temperature calorimetric studies. <i>American Mineralogist</i> , 2007 , 92, 1064-1070	2.9	3
208	Thermochemistry of A ₂ M ₃ O ₁₂ negative thermal expansion materials. <i>Journal of Materials Research</i> , 2007 , 22, 2512-2521	2.5	35
207	Energetics of Cd _x Se _{1-x} quantum dots in borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 2785-2795	3.9	9
206	Dynamics of water confined on a TiO ₂ (anatase) surface. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 12584-12588	4.8	50
205	Calorimetric determination of the enthalpies of formation of hydrotalcite-like solids and their use in the geochemical modeling of metals in natural waters. <i>Clays and Clay Minerals</i> , 2006 , 54, 409-417	2.1	34
204	Energetics of cubic Si ₃ N ₄ . <i>Journal of Materials Research</i> , 2006 , 21, 41-44	2.5	21
203	Nickel Solubility and Precipitation in Soils: A Thermodynamic Study. <i>Clays and Clay Minerals</i> , 2006 , 54, 153-164	2.1	56
202	Thermodynamics of uranyl minerals: Enthalpies of formation of uranyl oxide hydrates. <i>American Mineralogist</i> , 2006 , 91, 658-666	2.9	36
201	Thermochemical study of trivalent-doped ceria systems: CeO ₂ M _{0.5} (M = La, Gd, and Y). <i>Journal of Materials Research</i> , 2006 , 21, 3242-3251	2.5	47
200	TiO ₂ Stability Landscape: Polymorphism, Surface Energy, and Bound Water Energetics. <i>Chemistry of Materials</i> , 2006 , 18, 6324-6332	9.6	161
199	Energetics of Bulk and Nano-Akaganeite, β -FeOOH: Enthalpy of Formation, Surface Enthalpy, and Enthalpy of Water Adsorption. <i>Chemistry of Materials</i> , 2006 , 18, 1830-1838	9.6	77
198	Effect of structure and thermodynamic stability on the response of lanthanide stannate pyrochlores to ion beam irradiation. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2343-50	3.4	150
197	Surface Energy and Thermodynamic Stability of γ -Alumina: Effect of Dopants and Water. <i>Chemistry of Materials</i> , 2006 , 18, 1867-1872	9.6	84
196	Oxide melt solution calorimetry of sulfides: Enthalpy of formation of sphalerite, galena, greenockite, and hawleyite. <i>American Mineralogist</i> , 2006 , 91, 400-403	2.9	32
195	Formation and hydration enthalpies of the hydrosodalite family of materials. <i>Microporous and Mesoporous Materials</i> , 2006 , 88, 283-292	5.3	17

194	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	2.9	47
193	Thermochemical insights into refractory ceramic materials based on oxides with large tetravalent cations. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1883		109
192	Thermochemistry of hydrotalcite-like phases in the MgO-Al ₂ O ₃ -CO ₂ -H ₂ O system: A determination of enthalpy, entropy, and free energy. <i>American Mineralogist</i> , 2005 , 90, 329-335	2.9	37
191	Energetics of Mesoporous Silica: Investigation into Pore Size and Symmetry. <i>Chemistry of Materials</i> , 2005 , 17, 3772-3783	9.6	36
190	Thermochemistry of Hydrotalcite-like Phases Intercalated with CO ₃ ²⁻ , NO ₃ ⁻ , Cl ⁻ , I ⁻ , and ReO ₄ ⁻ . <i>Chemistry of Materials</i> , 2005 , 17, 2455-2459	9.6	55
189	Thermodynamics of Oxide Systems Relevant to Alternative Gate Dielectrics 2005 , 57-108		20
188	Formation enthalpy of ThSiO ₄ and enthalpy of the thorite-huttonite phase transition. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 4675-4683	5.5	43
187	Perovskite Solid Solutions along the NaNbO ₃ -BrTiO ₃ Join: Phase Transitions, Formation Enthalpies, and Implications for General Perovskite Energetics. <i>Chemistry of Materials</i> , 2005 , 17, 1880-1886	9.6	45
186	Thermochemistry of La _{1-x} Sr _x FeO ₃ -δ Solid Solutions (0.0 ≤ x ≤ 1.0, 0.0 ≤ δ ≤ 0.5). <i>Chemistry of Materials</i> , 2005 , 17, 2197-2207	9.6	58
185	Surface enthalpy of goethite. <i>Clays and Clay Minerals</i> , 2005 , 53, 113-122	2.1	29
184	Octahedral microporous phases Na ₂ Nb ₂ -TixO ₆ ·(OH) _x ·H ₂ O and their related perovskites: Crystal chemistry, energetics, and stability relations. <i>Journal of Materials Research</i> , 2005 , 20, 618-627	2.5	10
183	Thermochemistry of iron manganese oxide spinels. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 106-113	3.3	24
182	Energetics of La _{1-x} A _x CrO ₃ perovskites (A=Ca or Sr). <i>Journal of Solid State Chemistry</i> , 2005 , 178, 234-244	3.3	26
181	Thermochemistry of Li _{1+x} Mn ₂ O ₄ (0 ≤ x ≤ 1/3) spinel. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1182-1189	3.3	28
180	LiMO ₂ (M=Mn, Fe, and Co): Energetics, polymorphism and phase transformation. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1230-1240	3.3	52
179	Nitrate cancrinite: Synthesis, characterization, and determination of the enthalpy of formation. <i>Microporous and Mesoporous Materials</i> , 2005 , 87, 146-152	5.3	23
178	Thermochemistry of Framework Titanosilicate A ₂ TiSi ₆ O ₁₅ (A=K, Rb, Cs). <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1819-1825	3.8	12
177	Direct Calorimetric Measurement of Enthalpies of Phase Transitions at 2000-4000°C in Yttria and Zirconia. <i>International Studies Review</i> , 2005 , 7, 387-406	1	43

176	Crystal-chemical and energetic systematics of wadeite-type phases $A_2BSi_3O_9$ ($A = K, Cs; B = Si, Ti, Zr$). <i>Physics and Chemistry of Minerals</i> , 2005 , 32, 426-435	1.6	22
175	Calorimetric insights into the synthesis of templated materials. <i>Current Opinion in Colloid and Interface Science</i> , 2005 , 10, 195-202	7.6	21
174	Heat capacities and absolute entropies of UTi_2O_6 and $CeTi_2O_6$. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005 , 81, 617-625	4.1	10
173	Enthalpy of formation of yttria-doped ceria. <i>Journal of Materials Research</i> , 2005 , 20, 144-150	2.5	29
172	Direct measurements of water adsorption enthalpy on hafnia and zirconia. <i>Applied Physics Letters</i> , 2005 , 87, 164103	3.4	134
171	Enthalpy of Formation of $Li_{[sub x]}CoO_{[sub 2]}$ ($0.5 \leq x \leq 1.0$). <i>Journal of the Electrochemical Society</i> , 2005 , 152, J82	3.9	15
170	Enthalpies of formation of $LaMO_3$ perovskites ($M = Cr, Fe, Co, \text{ and } Ni$). <i>Journal of Materials Research</i> , 2005 , 20, 191-200	2.5	69
169	A simple tool for handling and loading capillary tubes. <i>Powder Diffraction</i> , 2005 , 20, 259-259	1.8	
168	Thermodynamics of uranyl minerals: Enthalpies of formation of rutherfordine, UO_2CO_3 , andersonite, $Na_2CaUO_2(CO_3)_3(H_2O)_5$, and grimselite, $K_3NaUO_2(CO_3)_3H_2O$. <i>American Mineralogist</i> , 2005 , 90, 1284-1290	2.9	26
167	Enthalpy of formation of cubic yttria-stabilized hafnia. <i>Journal of Materials Research</i> , 2004 , 19, 1855-1861	1.5	50
166	Correlation of Formation Enthalpies with Critical Amorphization Temperature for Pyrochlore and Monazite. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 824, 225		4
165	Effect of La and Y on Crystallization Temperatures of Hafnia and Zirconia. <i>Journal of Materials Research</i> , 2004 , 19, 693-696	2.5	72
164	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, 12096-101	11.5	403
163	Thermodynamic and Structural Properties of Sodium Lithium Niobate Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 379-384	3.8	41
162	Crystal Chemistry and Phase Transitions in Substituted Pollucites along the $CsAlSi_2O_6$ - $CsTiSi_2O_6$.5 Join: A Powder Synchrotron X-ray Diffractometry Study. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 1235-1242	3.8	20
161	Energy Crossovers in Nanocrystalline Zirconia. <i>Journal of the American Ceramic Society</i> , 2004 , 88, 160-167	3.8	224
160	Direct Measurement of Relative Partial Molar Enthalpy of SiO_2 in SiO_2-M_2O ($M=Li, Na, K, Cs$) Binary and $SiO_2-CaO-Al_2O_3$ Ternary Melts. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1550-1555	3.8	23
159	Prototype Sandia Octahedral Molecular Sieve (SOMS) $Na_2Nb_2O_6 \cdot H_2O$: Synthesis, Structure and Thermodynamic Stability. <i>Chemistry of Materials</i> , 2004 , 16, 2034-2040	9.6	52

158	Formation enthalpies of rare earth titanate pyrochlores. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1858-1866	1.3	139
157	Thermodynamic properties, low-temperature heat-capacity anomalies, and single-crystal X-ray refinement of hydronium jarosite, (H ₃ O)Fe ₃ (SO ₄) ₂ (OH) ₆ . <i>Physics and Chemistry of Minerals</i> , 2004 , 31, 518-531	1.6	56
156	Crystallization in hafnia- and zirconia-based systems. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 2268-2278	1.3	134
155	Crystal chemistry and energetics of pharmacosiderite-related microporous phases in the K ₂ O-SiO ₂ -B ₂ O ₃ -TiO ₂ -H ₂ O system. <i>Microporous and Mesoporous Materials</i> , 2004 , 72, 209-218	5.3	17
154	Enthalpy of formation of LiNiO ₂ , LiCoO ₂ and their solid solution, LiNi _{1-x} CoxO ₂ . <i>Solid State Ionics</i> , 2004 , 166, 167-173	3.3	93
153	Early-Stage Reactions in Synthesis of TPA-Silicalite-1: Studies by in Situ Calorimetry, SAXS, and pH Measurements. <i>Chemistry of Materials</i> , 2004 , 16, 3682-3687	9.6	45
152	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	9.6	98
151	Thermochemistry of the alkali rare-earth double phosphates, A ₃ RE(PO ₄) ₂ . <i>Journal of Materials Research</i> , 2004 , 19, 2165-2175	2.5	54
150	Thermochemistry of jarosite-alunite and natrojarosite-natroalunite solid solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 2197-2205	5.5	53
149	Thermochemistry of rare-earth aluminate and aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2004 , 341, 141-151	3.9	34
148	Environmental Implications: Nanoparticle Geochemistry in Water and Air. <i>ACS Symposium Series</i> , 2004 , 92-96	0.4	1
147	Effect of La and Y on Crystallization Temperatures of Hafnia and Zirconia 2004 , 19, 693		1
146	Enthalpy of formation of cubic yttria-stabilized zirconia. <i>Journal of Materials Research</i> , 2003 , 18, 908-918	2.5	66
145	Stability of peroxide-containing uranyl minerals. <i>Science</i> , 2003 , 302, 1191-3	33.3	184
144	Thermodynamics of Fe oxides: Part II. Enthalpies of formation and relative stability of goethite (β-FeOOH), lepidocrocite (γ-FeOOH), and maghemite (γ-Fe ₂ O ₃). <i>American Mineralogist</i> , 2003 , 88, 855-859	2.9	105
143	Thermodynamics of Fe oxides: Part I. Entropy at standard temperature and pressure and heat capacity of goethite (β-FeOOH), lepidocrocite (γ-FeOOH), and maghemite (γ-Fe ₂ O ₃). <i>American Mineralogist</i> , 2003 , 88, 846-854	2.9	63
142	Thermochemistry of guest-free melanophlogite. <i>American Mineralogist</i> , 2003 , 88, 1612-1614	2.9	15
141	New thermochemical evidence on the stability of dickite vs. kaolinite. <i>American Mineralogist</i> , 2003 , 88, 837-845	2.9	18

140	On the thermochemistry of the solid solution between jarosite and its chromate analog. <i>American Mineralogist</i> , 2003 , 88, 1949-1954	2.9	24
139	Letters. Aluminum substitution in MgSiO ₃ perovskite: Investigation of multiple mechanisms by ²⁷ Al NMR. <i>American Mineralogist</i> , 2003 , 88, 1161-1164	2.9	27
138	Energetics of oxidation of RE-Bi-Al-O glasses. <i>Journal of Materials Research</i> , 2003 , 18, 1607-1613	2.5	4
137	Phonon, Spin-Wave, and Defect Contributions to the Low-Temperature Specific Heat of α -FeOOH. <i>Journal of Low Temperature Physics</i> , 2003 , 130, 69-76	1.3	35
136	Thermodynamics of CoO-MgO solid solutions. <i>Journal of Chemical Thermodynamics</i> , 2003 , 35, 1151-1159	2.9	17
135	Energetics of nanoparticle oxides: interplay between surface energy and polymorphism. <i>Geochemical Transactions</i> , 2003 , 4, 1	3	223
134	Thermochemistry of Glasses in the Y ₂ O ₃ -Al ₂ O ₃ -SiO ₂ System. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1727-1732	3.8	24
133	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	3.8	45
132	Enthalpies of formation of U-, Th-, Ce-brannerite: implications for plutonium immobilization. <i>Journal of Nuclear Materials</i> , 2003 , 320, 231-244	3.3	49
131	Aluminum in magnesium silicate perovskite: Formation, structure, and energetics of magnesium-rich defect solid solutions. <i>Journal of Geophysical Research</i> , 2003 , 108,		37
130	Enthalpies of formation of LaBO ₃ perovskites (B = Al, Ga, Sc, and In). <i>Journal of Materials Research</i> , 2003 , 18, 2501-2508	2.5	65
129	A New Series of Oxygen-Deficient Perovskites in the NaT _x Nb _{1-x} O _{3-0.5x} System: Synthesis, Crystal Chemistry, and Energetics. <i>Chemistry of Materials</i> , 2003 , 15, 1872-1878	9.6	36
128	Thermochemical Investigations of Zirconolite, Pyrochlore and Brannerite: Candidate Materials for the Immobilization of Plutonium. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 807, 337		1
127	Aluminum in Magnesium Silicate Perovskite: Synthesis and Energetics of Defect Solid Solutions. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 718, 1		2
126	Thermodynamics and crystal chemistry of the hematite-horundum solid solution and the FeAlO ₃ phase. <i>Physics and Chemistry of Minerals</i> , 2002 , 29, 515-526	1.6	43
125	An in situ calorimetric study of zeolite crystallization kinetics. <i>Microporous and Mesoporous Materials</i> , 2002 , 52, 93-103	5.3	21
124	High-silica zeolites: a relationship between energetics and internal surface areas. <i>Microporous and Mesoporous Materials</i> , 2002 , 54, 1-13	5.3	36
123	Enthalpies of formation of Ce-pyrochlore, Ca _{0.93} Ce _{1.00} Ti _{2.03} Sn _{0.70} O _{7.00} , U-pyrochlore, Ca _{1.46} U ₄ +0.23U ₆ +0.46Ti _{1.85} O _{7.00} and Gd-pyrochlore, Gd ₂ Ti ₂ O ₇ : three materials relevant to the proposed waste form for excess weapons plutonium. <i>Journal of Nuclear Materials</i> , 2002 , 303, 226-239	3.3	73

122	In Situ Calorimetric Study of the Growth of Silica TPA-MFI Crystals from an Initially Clear Solution. <i>Chemistry of Materials</i> , 2002 , 14, 2803-2811	9.6	57
121	Oxide melt solution calorimetry of rare earth oxides. <i>Magyar Árvad Kémények</i> , 2002 , 69, 751-771	0	37
120	Energetics of nanocrystalline TiO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99 Suppl 2, 6476-81	11.5	442
119	The enthalpy of formation and internally consistent thermodynamic data of Mg-staurolite. <i>American Mineralogist</i> , 2002 , 87, 397-404	2.9	8
118	Thermodynamic Functions of Zirconolite and their Uses in Computer Simulation. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 713, 1		1
117	Thermal analyses of bulk amorphous oxides and silicates of zirconium and hafnium. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 745, 141		4
116	Thermodynamics of Pure-Silica Molecular Sieve Synthesis. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3629-3638	3.4	80
115	Energetics of anhydrite, barite, celestine, and anglesite: a high-temperature and differential scanning calorimetry study. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 1839-1850	5.5	44
114	Formation Enthalpies of Tetravalent Lanthanide Perovskites by High Temperature Oxide Melt Solution Calorimetry. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 718, 1		15
113	Thermochemistry of Substituted Perovskites in the NaTi _x Nb _{1-x} O _{3-0.5x} System. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 718, 1		1
112	Enthalpy of formation of CaSi ₂ O ₅ , a quenched high-pressure phase with pentacoordinate silicon. <i>Physics and Chemistry of Minerals</i> , 2001 , 28, 57-60	1.6	18
111	Thermal expansion and structural transformations of stuffed derivatives of quartz along the LiAlSi ₄ BiO ₂ join: a variable-temperature powder synchrotron XRD study. <i>Physics and Chemistry of Minerals</i> , 2001 , 28, 302-312	1.6	15
110	Calorimetric study of perovskite solid solutions in the CaSiO ₃ -CaGeO ₃ system. <i>Physics and Chemistry of Minerals</i> , 2001 , 28, 413-420	1.6	15
109	Thermodynamic data of the high-pressure phase Mg ₅ Al ₅ Si ₆ O ₂₁ (OH) ₇ (Mg-sursassite). <i>Physics and Chemistry of Minerals</i> , 2001 , 28, 475-487	1.6	10
108	Thermodynamic data of lawsonite and zoisite in the system CaO-Al ₂ O ₃ -SiO ₂ -H ₂ O based on experimental phase equilibria and calorimetric work. <i>Contributions To Mineralogy and Petrology</i> , 2001 , 142, 298-308	3.5	16
107	Enthalpies of formation of microporous titanosilicates ETS-4 and ETS-10. <i>Microporous and Mesoporous Materials</i> , 2001 , 47, 285-291	5.3	31
106	The assessment of thermodynamic parameters in the Al ₂ O ₃ -Y ₂ O ₃ system and phase relations in the Y-Al-O system. <i>Scandinavian Journal of Metallurgy</i> , 2001 , 30, 175-183		71
105	High-temperature oxide melt calorimetry of oxides and nitrides. <i>Journal of Chemical Thermodynamics</i> , 2001 , 33, 859-871	2.9	18

104	Thermodynamics of Formation of Binary and Ternary Nitrides in the System Ce/Mn/N. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2001 , 627, 194-200	1.3	9
103	Thermochemistry of rare-earth orthophosphates. <i>Journal of Materials Research</i> , 2001 , 16, 2623-2633	2.5	196
102	Synthesis, Structure Determination, and Aqueous Durability of Cs ₂ ZrSi ₃ O ₉ . <i>Journal of the American Ceramic Society</i> , 2001 , 84, 153-160	3.8	35
101	Energetics of Substituted Pollucites Along the CsAlSi ₂ O ₆ /CsTiSi ₂ O _{6.5} Join: A High-Temperature Calorimetric Study. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 555-560	3.8	28
100	Calorimetric determination of the enthalpy of formation of InN and comparison with AlN and GaN. <i>Journal of Materials Research</i> , 2001 , 16, 2824-2831	2.5	52
99	Enthalpies of formation of lanthanide oxyapatite phases. <i>Journal of Materials Research</i> , 2001 , 16, 2780-2783	2.3	47
98	Crystal properties and energetics of synthetic kaolinite. <i>American Mineralogist</i> , 2001 , 86, 304-311	2.9	22
97	A calorimetric study of zoisite and clinozoisite solid solutions. <i>American Mineralogist</i> , 2001 , 86, 80-91	2.9	2
96	Thermodynamics of ion-exchanged and natural clinoptilolite. <i>American Mineralogist</i> , 2001 , 86, 438-447	2.9	19
95	Thermochemical study of calcium zeolites heulandite and stilbite. <i>American Mineralogist</i> , 2001 , 86, 448-455	2.5	50
94	Vitreous forsterite (Mg ₂ SiO ₄): Synthesis, structure, and thermochemistry. <i>Geophysical Research Letters</i> , 2001 , 28, 2517-2520	4.9	83
93	Thermochemical studies of nitrides and oxynitrides by oxidative oxide melt calorimetry. <i>Journal of Alloys and Compounds</i> , 2001 , 321, 300-306	5.7	27
92	Energetics of dissolution of Gd ₂ O ₃ and HfO ₂ in sodium alumino-borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2001 , 296, 93-101	3.9	34
91	Thermochemistry of complex perovskites. <i>AIP Conference Proceedings</i> , 2000 ,	0	8
90	Enthalpies of Formation of Gd ₂ (Ti _{2-x} Zr _x)O ₇ Pyrochlores. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 663, 1		26
89	²⁹ Si and ²⁷ Al MAS-NMR spectroscopy of β-eucryptite (LiAlSiO ₄): The enthalpy of Si,Al ordering. <i>American Mineralogist</i> , 2000 , 85, 181-188	2.9	20
88	Energetics of formation and hydration of ion-exchanged zeolite Y. <i>Microporous and Mesoporous Materials</i> , 2000 , 37, 175-186	5.3	68
87	Possible presence of high-pressure ice in cold subducting slabs. <i>Nature</i> , 2000 , 408, 844-7	50.4	80

86	Energetics of binary iron nitrides. <i>Solid State Sciences</i> , 2000 , 2, 457-462	3.4	74
85	Nanomaterials in the Environment, Agriculture, and Technology (NEAT). <i>Journal of Nanoparticle Research</i> , 2000 , 2, 321-323	2.3	39
84	Enthalpy of Formation of Gallium Nitride. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 4060-4063	3.4	58
83	The enthalpy of transformation of Ca(OH) ₂ -I (portlandite) to Ca(OH) ₂ -II (EuI ₂ structure) by low-temperature DSC. <i>Physics and Chemistry of Minerals</i> , 2000 , 27, 604-609	1.6	4
82	Surface Enthalpy of Boehmite. <i>Clays and Clay Minerals</i> , 2000 , 48, 699-707	2.1	37
81	Energetics of oxidation of oxynitrides: Zr ₂ N ₂ O ₇ , Y ₂ Zr ₂ N ₂ O ₇ , CaZr ₂ N ₂ O ₇ , and MgZr ₂ N ₂ O ₇ . <i>Journal of Materials Research</i> , 2000 , 15, 2558-2570	2.5	18
80	Thermochemistry of microporous silicotitanate phases in the Na ₂ O·xSiO ₂ ·yTiO ₂ ·zH ₂ O system. <i>Journal of Materials Research</i> , 2000 , 15, 815-823	2.5	31
79	High temperature calorimetric studies of the heat of solution of La ₂ O ₃ in silicate liquids. <i>Journal of Non-Crystalline Solids</i> , 2000 , 265, 238-251	3.9	40
78	Energetics of X-ray-amorphous zirconia and the role of surface energy in its formation. <i>Journal of Non-Crystalline Solids</i> , 2000 , 262, 106-113	3.9	43
77	Thermochemistry of Pure-Silica Zeolites. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 10001-10011	3.4	175
76	Effects of Water, Cations, and Structure on Energetics of Layer and Framework Phases, Na _x Mg _y MnO ₂ ·nH ₂ O. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 5035-5039	3.4	13
75	Energetics of kaolin polymorphs. <i>American Mineralogist</i> , 1999 , 84, 506-516	2.9	28
74	Calorimetric studies of the energetics of order-disorder in the system Mg _{1-x} Fe _x Ca(CO ₃) ₂ . <i>American Mineralogist</i> , 1999 , 84, 1622-1626	2.9	19
73	The MgTiO ₃ -FeTiO ₃ join at high pressure and temperature. <i>American Mineralogist</i> , 1999 , 84, 1595-1603	2.9	32
72	Enthalpy of Formation of Rare-earth Silicates Y ₂ SiO ₅ and Yb ₂ SiO ₅ and N-containing Silicate Y ₁₀ (SiO ₄) ₆ N ₂ . <i>Journal of Materials Research</i> , 1999 , 14, 1181-1185	2.5	43
71	Silicon nitride: Enthalpy of formation of the β- and γ-polymorphs and the effect of C and O impurities. <i>Journal of Materials Research</i> , 1999 , 14, 1959-1968	2.5	49
70	High Temperature Reaction Calorimetry Applied to Metastable and Nanophase Materials. <i>Magyar Árvad Kémények</i> , 1999 , 57, 653-658	0	18
69	Thermodynamics of formation for zirconolite (CaZrTi ₂ O ₇) from T=298.15 K to T=1500 K. <i>Journal of Chemical Thermodynamics</i> , 1999 , 31, 229-243	2.9	54

68	Molar heat capacity and thermodynamic functions for CaTiO ₃ . <i>Journal of Chemical Thermodynamics</i> , 1999 , 31, 1573-1583	2.9	57
67	Energetics of Rare Earth Manganese Perovskites A _{1-x} A _x MnO ₃ (A=La, Nd, Y and A'=Sr, La) Systems. <i>Journal of Solid State Chemistry</i> , 1999 , 145, 77-87	3.3	40
66	MANTLE GEOCHEMISTRY: Enhanced: A Lesson from Ceramics. <i>Science</i> , 1999 , 284, 1788-1789	33.3	84
65	Thermochemistry of Si ₆₋₈ Al _z O _z N _{8-z} (z = 0 to 3.6) materials. <i>Journal of Materials Research</i> , 1999 , 14, 4630-4636	46.36	22
64	Energetics of Ternary Nitride Formation in the (Li,Ca)(B,Al)N System. <i>Chemistry of Materials</i> , 1999 , 11, 1148-1152	9.6	28
63	Thermodynamics of Crystals. <i>Eos</i> , 1999 , 80, 143	1.5	
62	Input needed for Workshop on Mineral and Rock Physics. <i>Eos</i> , 1999 , 80, 184	1.5	
61	Chabazite: Energetics of hydration, enthalpy of formation, and effect of cations on stability. <i>American Mineralogist</i> , 1999 , 84, 1870-1882	2.9	42
60	Thermochemistry of stuffed quartz-derivative phases along the join LiAlSiO ₄ -SiO ₂ . <i>American Mineralogist</i> , 1999 , 84, 1360-1369	2.9	24
59	Evaluation of Thermally Converted Silicotitanate Waste Forms. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 556, 77		23
58	Thermochemistry of Hf-Zirconolite, CaHfTi ₂ O ₇ . <i>Materials Research Society Symposia Proceedings</i> , 1999 , 556, 11		11
57	Enthalpy of Formation of katoite Ca ₃ Al ₂ [(OH) ₄] ₃ : Energetics of the hydrogarnet substitution. <i>American Mineralogist</i> , 1999 , 84, 389-391	2.9	11
56	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	3.3	111
55	The Thermodynamics of Ordered Perovskites on the CaTiO ₃ -FeTiO ₃ Join. <i>Physics and Chemistry of Minerals</i> , 1998 , 25, 591-596	1.6	13
54	Energetics and Crystal Chemical Systematics among Ilmenite, Lithium Niobate, and Perovskite Structures. <i>Chemistry of Materials</i> , 1998 , 10, 2787-2793	9.6	112
53	The Energetics of Cubic Zirconia from Solution Calorimetry of Yttria- and Calcia-Stabilized Zirconia. <i>Zeitschrift Fur Physikalische Chemie</i> , 1998 , 207, 59-65	3.1	23
52	Energetics of Nitridophosphates PON and LiNaPON Glasses. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 547, 389		5
51	Radiation Effects in Glasses Used for Immobilization of High-level Waste and Plutonium Disposition. <i>Journal of Materials Research</i> , 1997 , 12, 1948-1978	2.5	323

50	Melt Energetics at High Temperature and Pressure. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 499, 185		
49	Energetics of Stable and Metastable Low Temperature Iron Oxides and Oxyhydroxides. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 481, 183		
48	Thermochemical Insights into Rapid Solid-State Reaction Synthesis of β -Sialon. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 9433-9435	3.4	19
47	Energetics of Ternary Nitrides: LiCaZnN and CaBaN Systems. <i>Chemistry of Materials</i> , 1997 , 9, 1538-1546	9.6	44
46	Metastability of Spinel-type Solid Solutions in the $\text{SiO}_2\text{-Al}_2\text{O}_3$ System. <i>Chemistry of Materials</i> , 1997 , 9, 3096-3100	9.6	22
45	Effects of Increased Surface Area and Chemisorbed H_2O on the Relative Stability of Nanocrystalline $\gamma\text{-Al}_2\text{O}_3$ and $\beta\text{-Al}_2\text{O}_3$. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 603-613	3.4	223
44	Surface Energies and Thermodynamic Phase Stability in Nanocrystalline Aluminas. <i>Science</i> , 1997 , 277, 788-791	33.3	759
43	Progress and new directions in high temperature calorimetry revisited. <i>Physics and Chemistry of Minerals</i> , 1997 , 24, 222-241	1.6	424
42	Ti^{4+} in silicate melts: Energetics from high-temperature calorimetric studies and implications for melt structure. <i>Geochimica Et Cosmochimica Acta</i> , 1996 , 60, 4123-4131	5.5	27
41	Thermochemistry and phase equilibria in calcium zeolites. <i>American Mineralogist</i> , 1996 , 81, 658-667	2.9	54
40	Thermochemistry of Metal Nitrides in the Ca/Zn/N System. <i>Chemistry - A European Journal</i> , 1996 , 2, 1514-1517	4.15	38
39	Thermodynamic Properties of Manganese Oxides. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1761-1768	3.8	117
38	Energetics in the brownmillerite-perovskite pseudobinary $\text{Ca}_2\text{Fe}_2\text{O}_5\text{-CaTiO}_3$. <i>Journal of Materials Research</i> , 1994 , 9, 3121-3124	2.5	21
37	Physics and Chemistry of Earth Materials 1994 ,		56
36	Thermochemistry of carbonate-pyroxene equilibria. <i>Contributions To Mineralogy and Petrology</i> , 1993 , 114, 139-147	3.5	27
35	Energetics of Cobalt(II) Oxide with the Zinc-Blende Structure. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2465-2467	3.8	13
34	Structural Evolution of Alkoxide Silica Gels to Glass: Effect of Catalyst pH. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2571-2582	3.8	79
33	Negative Pressure-Temperature Slopes for Reactions Forming MgSiO_3 Perovskite from Calorimetry. <i>Science</i> , 1990 , 249, 1275-8	33.3	162

32	Olivine-modified spinel-spinel transitions in the system Mg ₂ SiO ₄ -Fe ₂ SiO ₄ : Calorimetric measurements, thermochemical calculation, and geophysical application. <i>Journal of Geophysical Research</i> , 1989 , 94, 15671-15685		440
31	Energetics of compounds (A ₂ +B ₄ +O ₃) with the perovskite structure. <i>Journal of Solid State Chemistry</i> , 1988 , 72, 244-256	3.3	103
30	Thermochemistry of the tremolite-edenite amphiboles using fluorine analogues, and applications to amphibole-plagioclase-quartz equilibria. <i>Contributions To Mineralogy and Petrology</i> , 1986 , 93, 18-32	3.5	39
29	Thermodynamics of Solid-Solution Formation in NiO-CuO. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 453-457	3.8	26
28	Thermochemistry and Structure of Low Pressure Chemically Vapor Deposited and Bulk SiO ₂ - P ₂ O ₅ and SiO ₂ - GeO ₂ Glasses. <i>Journal of the Electrochemical Society</i> , 1986 , 133, 431-439	3.9	10
27	Thermochemistry of Sodium Borosilicate Glasses. <i>Journal of the American Ceramic Society</i> , 1985 , 68, 314-319	3.9	88
26	Thermochemistry of Charge-Coupled Substitutions in Silicate Glasses: The Systems M ₁ /n _n + AlO ₂ -SiO ₂ (M = Li, Na, K, Rb, Cs, Mg, Ca, Sr, Ba, Pb). <i>Journal of the American Ceramic Society</i> , 1984 , 67, 606-610	3.8	118
25	Calorimetric study of the stability of spinelloids in the system NiAl ₂ O ₄ -Ni ₂ SiO ₄ . <i>Physics and Chemistry of Minerals</i> , 1984 , 10, 166-172	1.6	17
24	Quantitative correlations of deviations from ideality in binary and pseudobinary solid solutions. <i>Journal of Solid State Chemistry</i> , 1983 , 46, 1-22	3.3	113
23	Trends and Systematics in Mineral Thermodynamics. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1982 , 86, 994-1001		3
22	Thermodynamics of solid solution formation in NiO?MgO and NiO?ZnO. <i>Journal of Solid State Chemistry</i> , 1981 , 38, 264-276	3.3	70
21	Thermochemistry of glasses and liquids in the systems CaMgSi ₂ O ₆ -CaAl ₂ Si ₂ O ₈ -NaAlSi ₃ O ₈ , SiO ₂ -CaAl ₂ Si ₂ O ₈ -NaAlSi ₃ O ₈ and SiO ₂ -Al ₂ O ₃ -CaO-Na ₂ O. <i>Geochimica Et Cosmochimica Acta</i> , 1980 , 44, 1409-1423	5.5	131
20	Lattice Stability of AX and AB ₂ O ₄ Compounds. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1980 , 4, 255-264	1.9	5
19	Progress and new directions in high temperature calorimetry. <i>Physics and Chemistry of Minerals</i> , 1977 , 2, 89-104	1.6	380
18	Calculation of subsolidus phase relations in carbonates and pyroxenes. <i>Physics and Chemistry of Minerals</i> , 1977 , 1, 109-127	1.6	31
17	Spinel disproportionation at high pressure: calorimetric determination of enthalpy of formation of Mg ₂ SnO ₄ and Co ₂ SnO ₄ and some implications for silicates. <i>Earth and Planetary Science Letters</i> , 1976 , 31, 247-254	5.3	19
16	Silicates and related minerals: Solid state chemistry and thermodynamics applied to geothermometry and geobarometry. <i>Progress in Solid State Chemistry</i> , 1976 , 11, 203-264	8	8
15	Thermodynamic relations among olivine, spinel, and phenacite structures in silicates and germanates. III. The system CuOMgOGeO ₂ . <i>Journal of Solid State Chemistry</i> , 1974 , 11, 10-16	3.3	21

14	Thermodynamic relations among olivine, spinel, and phenacite structures in silicates and germanates: II. The systems NiO?ZnO?GeO ₂ and CoO?ZnO?GeO ₂ . <i>Journal of Solid State Chemistry</i> , 1973 , 6, 42-47	3.3	12
13	Approximate activity-composition relations in the system MgO?ZnO at 1205±5°C. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1972 , 34, 2115-2119		14
12	Activity-composition relations in the systems CoO?ZnO and NiO?ZnO at 1050°C. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1971 , 33, 35-47		50
11	Enthalpies of transformation among the tetragonal, hexagonal, and glassy modifications of GeO ₂ . <i>Journal of Inorganic and Nuclear Chemistry</i> , 1971 , 33, 1119-1124		31
10	Thermodynamics of formation of the silicates and germanates of some divalent transition metals and of magnesium. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1971 , 33, 4035-4050		69
9	Thermodynamics of A ₃ O ₄ -B ₃ O ₄ spinel solid solutions. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1969 , 31, 59-72		28
8	Thermodynamics of formation of simple spinels. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1968 , 30, 479-498		270
7	Calorimetric study of molten sodium molybdate-molybdenum trioxide mixtures at 970.degree.K. <i>Inorganic Chemistry</i> , 1967 , 6, 2119-2121	5.1	27
6	The thermodynamics of cation distributions in simple spinels. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1967 , 29, 2701-2714		476
5	Enthalpy of transformation of a high-pressure polymorph of titanium dioxide to the rutile modification. <i>Science</i> , 1967 , 158, 388-9	33.3	41
4	Enthalpy of the Anatase-Rutile Transformation. <i>Journal of the American Ceramic Society</i> , 1967 , 50, 626-628		118
3	Enthalpies of Mixing in Silver Bromide-Alkali Bromide and Thallium Chloride-Alkali Chloride Liquid Mixtures. <i>Journal of Chemical Physics</i> , 1965 , 42, 3752-3757	3.9	24
2	New worlds, new chemistry, new ceramics. <i>International Journal of Ceramic Engineering & Science</i> ,	2	
1	Aqueous spray-drying synthesis of alluaudite Na _{2+2x} Fe _{2-2x} (SO ₄) ₃ sodium insertion material: studies of electrochemical activity, thermodynamic stability, and humidity-induced phase transition. <i>Journal of Solid State Electrochemistry</i> , 1	2.6	0