

Lawrence M. Anovitz

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Frustrated Coulombic and Cation Size Effects on Nanoscale Boehmite Aggregation: A Tumbler Small- and Ultra-Small-Angle Neutron Scattering Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4391-4414.	3.1	4
2	Experimental Limestone Dissolution and Changes in Multiscale Structure Using Small- and Ultrasmall-Angle Neutron Scattering. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 974-986.	2.7	0
3	Oxidation and associated pore structure modification during experimental alteration of granite. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 292, 532-556.	3.9	15
4	High-field spin-flop state in green diopside. <i>Physical Review B</i> , 2021, 103, .	3.2	2
5	Isotherm measurements of high-pressure metal hydrides for hydrogen compressors. <i>JPhys Energy</i> , 2021, 3, 034004.	5.3	9
6	Influence of microstructure on replacement and porosity generation during experimental dolomitization of limestones. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 303, 137-158.	3.9	14
7	Degradation of Adsorbed Bisphenol A by Soluble Mn(III). <i>Environmental Science & Technology</i> , 2021, 55, 13014-13023.	10.0	9
8	Mineralogy, microfabric and pore evolution in late-middle Ordovician mudstone of the Utica/Point Pleasant sub-basin of Ohio, West Virginia, and Pennsylvania. <i>Marine and Petroleum Geology</i> , 2021, 134, 105345.	3.3	2
9	Sol-gel synthesis of nano-scale, end-member albite feldspar (NaAlSi ₃ O ₈). <i>Journal of Colloid and Interface Science</i> , 2021, 603, 459-467.	9.4	2
10	Water Migration and Swelling in Engineered Barrier Materials for Radioactive Waste Disposal. <i>Nuclear Technology</i> , 2021, 207, 1237-1256.	1.2	2
11	Role of Mineralogy in Controlling Fracture Formation. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3104-3114.	2.7	6
12	Effect of Fluid Properties on Contact Angles in the Eagle Ford Shale Measured with Spontaneous Imbibition. <i>ACS Omega</i> , 2021, 6, 32618-32630.	3.5	0
13	SANS coupled with fluid invasion approaches for characterization of overall nanopore structure and mesopore connectivity of organic-rich marine shales in China. <i>International Journal of Coal Geology</i> , 2020, 217, 103343.	5.0	20
14	Exploring Particle Aggregation Using Small Angle Scattering Techniques. <i>ACS Symposium Series</i> , 2020, , 201-257.	0.5	2
15	One-Dimensional Glassy Behavior of Ultraconfined Water Strings. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7798-7804.	4.6	2
16	A high-pressure flow through test vessel for neutron imaging and neutron diffraction-based strain measurement of geological materials. <i>Review of Scientific Instruments</i> , 2020, 91, 084502.	1.3	3
17	Vibrational Behavior of Water Adsorbed on Forsterite (Mg ₂ SiO ₄) Surfaces. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1050-1063.	2.7	11
18	Quantifying Fluid-Wettable Effective Pore Space in the Utica and Bakken Oil Shale Formations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087896.	4.0	12

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19	Quantification of mechanical compaction and cementation during contact metamorphism of sandstone. <i>Journal of Structural Geology</i> , 2020, 136, 104062.	2.3	2
20	Connecting particle interactions to agglomerate morphology and rheology of boehmite nanocrystal suspensions. <i>Journal of Colloid and Interface Science</i> , 2020, 572, 328-339.	9.4	16
21	Correlating inter-particle forces and particle shape to shear-induced aggregation/fragmentation and rheology for dilute anisotropic particle suspensions: A complementary study via capillary rheometry and in-situ small and ultra-small angle X-ray scattering. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 47-58.	9.4	18
22	Grain detachment and transport clogging during mineral dissolution in carbonate rocks with permeable grain boundaries. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 202-220.	3.9	10
23	Temporal Evolution of Corrosion Film Nano-Porosity and Magnesium Alloy Hydrogen Penetration in NaCl Solution. <i>Journal of the Electrochemical Society</i> , 2020, 167, 131513.	2.9	5
24	Controls of Microstructure and Chemical Reactivity on the Replacement of Limestone by Fluorite Studied Using Spatially Resolved Small Angle X-ray and Neutron Scattering. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1998-2016.	2.7	10
25	The Role of Chemistry in Fracture Pattern Development and Opportunities to Advance Interpretations of Geological Materials. <i>Reviews of Geophysics</i> , 2019, 57, 1065-1111.	23.0	182
26	Magnetic ground state and magnetic excitations in black diopside Cu_{18}O . <i>Physical Review B</i> , 2019, 100, .	3.2	4
27	Effect of fine-tuning pore structures on the dynamics of confined water. <i>Journal of Chemical Physics</i> , 2019, 150, 204706.	3.0	10
28	Solvent-pore interactions in the Eagle Ford shale formation. <i>Fuel</i> , 2019, 238, 298-311.	6.4	40
29	Facile emulsion mediated synthesis of phase-pure diopside nanoparticles. <i>Scientific Reports</i> , 2018, 8, 3099.	3.3	5
30	The effects of burial diagenesis on multiscale porosity in the St. Peter Sandstone: An imaging, small-angle, and ultra-small-angle neutron scattering analysis. <i>Marine and Petroleum Geology</i> , 2018, 92, 352-371.	3.3	17
31	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.	1.9	5
32	Structure and dynamics of water on the forsterite surface. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27822-27829.	2.8	10
33	Evaluation of Nanoscale Accessible Pore Structures for Improved Prediction of Gas Production Potential in Chinese Marine Shales. <i>Energy & Fuels</i> , 2018, 32, 12447-12461.	5.1	24
34	Boehmite and Gibbsite Nanoplates for the Synthesis of Advanced Alumina Products. <i>ACS Applied Nano Materials</i> , 2018, 1, 7115-7128.	5.0	79
35	Effects of Ionic Strength, Salt, and pH on Aggregation of Boehmite Nanocrystals: Tumbler Small-Angle Neutron and X-ray Scattering and Imaging Analysis. <i>Langmuir</i> , 2018, 34, 15839-15853.	3.5	25
36	Impact of Solution Chemistry and Particle Anisotropy on the Collective Dynamics of Oriented Aggregation. <i>ACS Nano</i> , 2018, 12, 10114-10122.	14.6	40

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37	Inelastic and deep inelastic neutron spectroscopy of water molecules under ultra-confinement. Journal of Physics: Conference Series, 2018, 1055, 012002.	0.4	7
38	Fast Rotational Diffusion of Water Molecules in a 2D Hydrogen Bond Network at Cryogenic Temperatures. Physical Review Letters, 2018, 120, 196001.	7.8	10
39	Evaluation of accessible mineral surface areas for improved prediction of mineral reaction rates in porous media. Geochimica Et Cosmochimica Acta, 2017, 205, 31-49.	3.9	79
40	Nano-scale synthesis of the complex silicate minerals forsterite and enstatite. Journal of Colloid and Interface Science, 2017, 495, 94-101.	9.4	15
41	Wellbore Cement Porosity Evolution in Response to Mineral Alteration during CO2 Flooding. Environmental Science & Technology, 2017, 51, 692-698.	10.0	17
42	Rapid Diffusion and Nanosegregation of Hydrogen in Magnesium Alloys from Exposure to Water. ACS Applied Materials & Interfaces, 2017, 9, 38125-38134.	8.0	14
43	Tracer Film Growth Study of the Corrosion of Magnesium Alloys AZ31B and ZE10A in 0.01% NaCl Solution. Journal of the Electrochemical Society, 2017, 164, C367-C375.	2.9	19
44	Spontaneous imbibition of water and determination of effective contact angles in the Eagle Ford Shale Formation using neutron imaging. Journal of Earth Science (Wuhan, China), 2017, 28, 874-887.	3.2	32
45	EXPERIMENTAL CALIBRATION OF FRACTIONATION OF SILICON ISOTOPES BETWEEN QUARTZ AND WATER. , 2017, , .		0
46	Feasibility of Using Glass-Fiber-Reinforced Polymer Pipelines for Hydrogen Delivery. , 2016, , .		2
47	Capillary pressure " saturation relationships for gas shales measured using a water activity meter. Journal of Natural Gas Science and Engineering, 2016, 33, 1342-1352.	4.4	23
48	Extraction of organic compounds from representative shales and the effect on porosity. Journal of Natural Gas Science and Engineering, 2016, 35, 646-660.	4.4	40
49	Oxygen diffusion and exchange in dolomite rock at 700 Å°C, 100 MPa. American Mineralogist, 2016, 101, 1898-1905.	1.9	2
50	Coupled antiferromagnetic spin- $\frac{1}{2}$ in green diopside Cu^{2+} Physical Review B, 2016, 93, .	3.2	10
51	Quantum Tunneling of Water in Beryl: A New State of the Water Molecule. Physical Review Letters, 2016, 116, 167802.	7.8	92
52	Experimental calibration of silicon and oxygen isotope fractionations between quartz and water at 250 Å°C by in situ microanalysis of experimental products and application to zoned low $\delta^{30}\text{Si}$ quartz overgrowths. Chemical Geology, 2016, 421, 127-142.	3.3	35
53	4. Characterization and Analysis of Porosity and Pore Structures. , 2015, , 61-164.		28
54	Neutron Radiography of Fluid Flow for Geothermal Energy Research. Physics Procedia, 2015, 69, 464-471.	1.2	4

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55	Resolving Time-dependent Evolution of Pore-Scale Structure, Permeability and Reactivity using X-ray Microtomography. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 247-285.	4.8	79
56	3. Effects of Coupled Chemo-Mechanical Processes on the Evolution of Pore-Size Distributions in Geological Media. , 2015, , 45-60.		1
57	Effects of maturation on multiscale (nanometer to millimeter) porosity in the Eagle Ford Shale. <i>Interpretation</i> , 2015, 3, SU59-SU70.	1.1	37
58	Effect of quartz overgrowth precipitation on the multiscale porosity of sandstone: A (U)SANS and imaging analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 199-222.	3.9	51
59	Tracer study of oxygen and hydrogen uptake by Mg alloys in air with water vapor. <i>Scripta Materialia</i> , 2015, 106, 38-41.	5.2	8
60	Film Breakdown and Nano-Porous Mg(OH) ₂ Formation from Corrosion of Magnesium Alloys in Salt Solutions. <i>Journal of the Electrochemical Society</i> , 2015, 162, C140-C149.	2.9	128
61	Solvothermal Synthesis and Surface Chemistry To Control the Size and Morphology of Nanoquartz. <i>Crystal Growth and Design</i> , 2015, 15, 5327-5331.	3.0	10
62	Characterization and Analysis of Porosity and Pore Structures. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 61-164.	4.8	729
63	Ionic Transport in Nano-Porous Clays with Consideration of Electrostatic Effects. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 287-329.	4.8	51
64	Lattice Boltzmann-Based Approaches for Pore-Scale Reactive Transport. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 393-431.	4.8	78
65	Mesoscale and Hybrid Models of Fluid Flow and Solute Transport. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 433-459.	4.8	41
66	Effects of Coupled Chemo-Mechanical Processes on the Evolution of Pore-Size Distributions in Geological Media. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 45-60.	4.8	27
67	Precipitation in Pores: A Geochemical Frontier. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 165-190.	4.8	42
68	Micro-Continuum Approaches for Modeling Pore-Scale Geochemical Processes. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 217-246.	4.8	88
69	How Porosity Increases During Incipient Weathering of Crystalline Silicate Rocks. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 331-354.	4.8	81
70	Relationship between mineralogy and porosity in seals relevant to geologic CO ₂ sequestration. <i>Environmental Geosciences</i> , 2014, 21, 39-57.	0.6	23
71	Strong Anisotropic Dynamics of Ultra-Confined Water. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13414-13419.	2.6	28
72	Multiscale (nano to mm) Porosity in the Eagle Ford Shale: Changes as a Function of Maturity. , 2014, , .		2

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73	Tracer Film Growth Study of Hydrogen and Oxygen from the Corrosion of Magnesium in Water. <i>Journal of the Electrochemical Society</i> , 2014, 161, C395-C404.	2.9	30
74	Sorption Phase of Supercritical CO ₂ in Silica Aerogel: Experiments and Mesoscale Computer Simulations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15525-15533.	3.1	24
75	Pore-Size-Dependent Calcium Carbonate Precipitation Controlled by Surface Chemistry. <i>Environmental Science & Technology</i> , 2014, 48, 6177-6183.	10.0	69
76	Nano- to Microscale Pore Characterization of the Utica Shale. , 2014, , .		1
77	Diagenesis and kerogen release in oil- and gas-bearing shales. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C63-C63.	0.1	0
78	Multi-scale characterization of pore evolution in a combustion metamorphic complex, Hatrurim basin, Israel: Combining (ultra) small-angle neutron scattering and image analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 339-362.	3.9	42
79	Diagenetic changes in macro- to nano-scale porosity in the St. Peter Sandstone: An (ultra) small angle neutron scattering and backscattered electron imaging analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 102, 280-305.	3.9	134
80	Anisotropic dynamics of water ultraconfined in macroscopically oriented channels of single-crystal beryl: A multifrequency analysis. <i>Physical Review E</i> , 2013, 88, 052306.	2.1	28
81	Structure and Stability of SnO ₂ Nanocrystals and Surface-Bound Water Species. <i>Journal of the American Chemical Society</i> , 2013, 135, 6885-6895.	13.7	67
82	Neutron imaging for geothermal energy systems. , 2013, , .		1
83	High-pressure cell for neutron reflectometry of supercritical and subcritical fluids at solid interfaces. <i>Review of Scientific Instruments</i> , 2012, 83, 045108.	1.3	6
84	Comment on "Structure and dynamics of liquid water on rutile TiO ₂ (110)". <i>Physical Review B</i> , 2012, 85, .	3.2	46
85	Alkyl Chain Length and Temperature Effects on Structural Properties of Pyrrolidinium-Based Ionic Liquids: A Combined Atomistic Simulation and Small-Angle X-ray Scattering Study. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 125-130.	4.6	121
86	Framboidal iron oxide: Chondrite-like material from the black mat, Murray Springs, Arizona. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 251-258.	4.4	22
87	Small-angle neutron scattering study of the wet and dry high-temperature oxidation of alumina- and chromia-forming stainless steels. <i>Corrosion Science</i> , 2012, 58, 121-132.	6.6	11
88	Sol-gel synthesis of nanocrystalline fayalite (Fe ₂ SiO ₄). <i>American Mineralogist</i> , 2012, 97, 653-656.	1.9	26
89	Comparison of Short-Term Oxidation Behavior of Model and Commercial Chromia-Forming Ferritic Stainless Steels in Dry and Wet Air. <i>Oxidation of Metals</i> , 2012, 78, 1-16.	2.1	10
90	Wet oxidation of stainless steels: New insights into hydrogen ingress. <i>Corrosion Science</i> , 2011, 53, 1633-1638.	6.6	22

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91	O and H diffusion in uraninite: Implications for fluid-uraninite interactions, nuclear waste disposal, and nuclear forensics. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3677-3686.	3.9	14
92	Solubility Measurements of Crystalline NiO in Aqueous Solution as a Function of Temperature and pH. <i>Journal of Solution Chemistry</i> , 2011, 40, 680-702.	1.2	32
93	The pore wall structure of porous semi-crystalline anatase TiO ₂ . <i>Journal of Applied Crystallography</i> , 2011, 44, 1238-1245.	4.5	1
94	Development of In Situ Techniques for Torsion and Tension Testing in Hydrogen Environment. , 2011, , .		0
95	Mechanisms of iron oxide transformations in hydrothermal systems. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6141-6156.	3.9	36
96	Suppression of the dynamic transition in surface water at low hydration levels: A study of water on rutile. <i>Physical Review E</i> , 2009, 79, 051504.	2.1	61
97	Adsorption of Ions on Zirconium Oxide Surfaces from Aqueous Solutions at High Temperatures. <i>Journal of Solution Chemistry</i> , 2009, 38, 907-924.	1.2	16
98	Solubility of Zinc Silicate and Zinc Ferrite in Aqueous Solution to High Temperatures. <i>Journal of Solution Chemistry</i> , 2009, 38, 869-892.	1.2	10
99	Low-temperature isotopic exchange in obsidian: Implications for diffusive mechanisms. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3795-3806.	3.9	28
100	A new approach to quantification of metamorphism using ultra-small and small angle neutron scattering. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 7303-7324.	3.9	82
101	Magnesium silicate dissolution investigated by ²⁹ Si MAS, ¹ H- ²⁹ Si CPMAS, ²⁵ Mg QCPMG, and ¹ H- ²⁵ Mg CP QCPMG NMR. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7013.	2.8	49
102	Mechanisms of rhyolitic glass hydration below the glass transition. <i>American Mineralogist</i> , 2008, 93, 1166-1178.	1.9	54
103	Experimental investigation of the breakdown of dolomite in rock cores at 100 MPa, 650-750 °C. <i>American Mineralogist</i> , 2007, 92, 510-517.	1.9	4
104	Experimental evidence for non-redox transformations between magnetite and hematite under H ₂ -rich hydrothermal conditions. <i>Earth and Planetary Science Letters</i> , 2007, 257, 60-70.	4.4	54
105	Dawsonite synthesis and reevaluation of its thermodynamic properties from solubility measurements: Implications for mineral trapping of CO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4438-4455.	3.9	127
106	Direct Detection of Residual Cyanide in Cassava Using Spectroscopic Techniques. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 10135-10140.	5.2	8
107	Dynamics and Structure of Hydration Water on Rutile and Cassiterite Nanopowders Studied by Quasielastic Neutron Scattering and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4328-4341.	3.1	132
108	Electric Double Layer at Metal Oxide Surfaces: Static Properties of the Cassiterite-Water Interface. <i>Langmuir</i> , 2007, 23, 4925-4937.	3.5	63

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109	Magnetic contribution to heat capacity and entropy of nickel ferrite (NiFe ₂ O ₄). Journal of Physics and Chemistry of Solids, 2007, 68, 10-21.	4.0	36
110	Thermodynamics of Cr ₂ O ₃ , FeCr ₂ O ₄ , ZnCr ₂ O ₄ , and CoCr ₂ O ₄ . Journal of Chemical Thermodynamics, 2007, 39, 1474-1492.	2.0	64
111	Self-Assembled Colloidal Crystals from ZrO ₂ Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 19456-19460.	2.6	10
112	The effect of changes in relative humidity on the hydration rate of Pachuca obsidian. Journal of Non-Crystalline Solids, 2006, 352, 5652-5662.	3.1	16
113	Zn ²⁺ and Sr ²⁺ adsorption at the TiO ₂ (110) electrolyte interface: Influence of ionic strength, coverage, and anions. Journal of Colloid and Interface Science, 2006, 295, 50-64.	9.4	35
114	Obsidian hydration: A new paleothermometer. Geology, 2006, 34, 517.	4.4	20
115	THE APPLICATION OF HRTEM TECHNIQUES AND NANOSIMS TO CHEMICALLY AND ISOTOPICALLY CHARACTERIZE GEOBACTER SULFURREDUCTENS SURFACES. Canadian Mineralogist, 2005, 43, 1631-1641.	1.0	23
116	Compounds and Solid Solutions of Cobalt, Copper Phosphates. Journal of the American Ceramic Society, 2005, 81, 2799-2804.	3.8	3
117	Solubility of Litharge (PbO) in Alkaline Media at Elevated Temperatures. Journal of Solution Chemistry, 2005, 34, 1407-1428.	1.2	8
118	Isothermal Time-Series Determination of the Rate of Diffusion of Water in Pachuca Obsidian*. Archaeometry, 2004, 46, 301-326.	1.3	49
119	Solubility and surface adsorption characteristics of metal oxides. , 2004, , 493-595.		22
120	Ion Adsorption at the Rutile-Water Interface: Linking Molecular and Macroscopic Properties. Langmuir, 2004, 20, 4954-4969.	3.5	298
121	Experimental determination of the activity-composition relations and phase equilibria of H ₂ O-CO ₂ -NaCl fluids at 500°C, 500 bars. Geochimica Et Cosmochimica Acta, 2004, 68, 3557-3567.	3.9	24
122	Obsidian Diffusion Dating by Secondary Ion Mass Spectrometry: A Test using Results from Mound 65, Chalco, Mexico. Journal of Archaeological Science, 2002, 29, 1055-1075.	2.4	49
123	Pore pressure during metamorphism of carbonate rock: effect of volumetric properties of H ₂ O-CO ₂ mixtures. Contributions To Mineralogy and Petrology, 2002, 144, 305-313.	3.1	9
124	The CO ₂ -H ₂ O system: III. A new experimental method for determining liquid-vapor equilibria at high subcritical temperatures. American Mineralogist, 2001, 86, 1100-1111.	1.9	42
125	Magnetite surface charge studies to 290°C from in situ pH titrations. Chemical Geology, 2000, 167, 193-229.	3.3	84
126	Optical and mechanical consequences of microstructural alteration of alpha platinum dioxide films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 1036-1039.	2.1	0

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127	The CO ₂ -H ₂ O system. II. calculated thermodynamic mixing properties for 400°C, 0–400 MPa. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2393-2408.	3.9	19
128	The Failure of Obsidian Hydration Dating: Sources, Implications, and New Directions. <i>Journal of Archaeological Science</i> , 1999, 26, 735-752.	2.4	131
129	Dry melting of high albite. <i>American Mineralogist</i> , 1999, 84, 1830-1842.	1.9	24
130	Precise Measurement of the Activity/Composition Relations of H ₂ O-N ₂ and H ₂ O-CO ₂ Fluids at 500°C, 500 Bars. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 815-829.	3.9	11
131	Crystalline Copper Phosphates: Synthesis and Thermal Stability. <i>Journal of the American Ceramic Society</i> , 1997, 80, 3133-3138.	3.8	25
132	Lanthanide-Containing Zirconotitanate Solid Solutions. <i>Journal of Solid State Chemistry</i> , 1996, 127, 231-239.	2.9	25
133	Thermodynamic properties of two iron silicates. Heat capacities of deerite from the temperature 10 K to 700 K and of grunerite from 10 K to 1000 K. <i>Journal of Chemical Thermodynamics</i> , 1995, 27, 1097-1118.	2.0	8
134	Thermodynamic properties of sodalite at temperatures from 15 K to 1000 K. <i>Journal of Chemical Thermodynamics</i> , 1995, 27, 1119-1132.	2.0	26
135	Mineral Metastability in the System Al ₂ O ₃ -SiO ₂ -H ₂ O: A Reply*. <i>Clays and Clay Minerals</i> , 1994, 42, 102-105.	1.3	8
136	Heat capacity and phase equilibria of almandine, Fe ₃ Al ₂ Si ₃ O ₁₂ . <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 4191-4204.	3.9	59
137	Thermobarometric constraints on the structural evolution of the Coast Mountains batholith, central southeastern Alaska. <i>Canadian Journal of Earth Sciences</i> , 1991, 28, 912-928.	1.3	22
138	Metastability in Near-Surface Rocks of Minerals in the System Al ₂ O ₃ -SiO ₂ -H ₂ O. <i>Clays and Clay Minerals</i> , 1991, 39, 225-233.	1.3	35
139	Thermobarometry and Pressure-Temperature Paths in the Grenville Province of Ontario. <i>Journal of Petrology</i> , 1990, 31, 197-241.	2.8	116
140	Implications of post-thrusting extension and underplating for P-T-t paths in granulite terranes: A Grenville example. <i>Geology</i> , 1990, 18, 466.	4.4	31
141	Calculation and application of clinopyroxene-garnet-plagioclase-quartz geobarometers. <i>Contributions To Mineralogy and Petrology</i> , 1988, 100, 92-106.	3.1	243
142	Phase Equilibria in the System CaCO ₃ -MgCO ₃ -FeCO ₃ . <i>Journal of Petrology</i> , 1987, 28, 389-415.	2.8	296
143	Compatibility of Geobarometers in the System CaO-FeO-Al ₂ O ₃ -SiO ₂ -TiO ₂ (CFAST): Implications for Garnet Mixing Models. <i>Journal of Geology</i> , 1987, 95, 633-645.	1.4	50
144	Heat capacity measurements for cryolite (Na ₃ AlF ₆) and reactions in the system Na–, Fe–, Al–, Si–, O–, F. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 3087-3103.	3.9	14

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145	The heat capacity of a natural monticellite and phase equilibria in the system CaO-MgO-SiO ₂ -CO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 1475-1484.	3.9	32
146	The heat-capacity of ilmenite and phase equilibria in the system Fe-Ti-O. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 2027-2040.	3.9	51
147	Phlogopite-chlorite reaction mechanisms and physical conditions during retrograde reactions in the Marble Formation, Franklin, New Jersey. <i>Contributions To Mineralogy and Petrology</i> , 1984, 88, 299-306.	3.1	32
148	A Quantitative Approach to the Analysis of Reactive Mineralogy and Surface Area. <i>ACS Earth and Space Chemistry</i> , 0, , .	2.7	3