Lawrence M. Anovitz

List of Publications by Year in descending order

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81900 79698 6,045 148 39 73 citations g-index h-index papers 159 159 159 6148 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Characterization and Analysis of Porosity and Pore Structures. Reviews in Mineralogy and Geochemistry, 2015, 80, 61-164.	4.8	729
2	lon Adsorption at the Rutileâ^'Water Interface:Â Linking Molecular and Macroscopic Properties. Langmuir, 2004, 20, 4954-4969.	3.5	298
3	Phase Equilibria in the System CaCO3-MgCO3-FeCO3. Journal of Petrology, 1987, 28, 389-415.	2.8	296
4	Calculation and application of clinopyroxene-garnet-plagioclase-quartz geobarometers. Contributions To Mineralogy and Petrology, 1988, 100, 92-106.	3.1	243
5	The Role of Chemistry in Fracture Pattern Development and Opportunities to Advance Interpretations of Geological Materials. Reviews of Geophysics, 2019, 57, 1065-1111.	23.0	182
6	Diagenetic changes in macro- to nano-scale porosity in the St. Peter Sandstone: An (ultra) small angle neutron scattering and backscattered electron imaging analysis. Geochimica Et Cosmochimica Acta, 2013, 102, 280-305.	3.9	134
7	Dynamics and Structure of Hydration Water on Rutile and Cassiterite Nanopowders Studied by Quasielastic Neutron Scattering and Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2007, 111, 4328-4341.	3.1	132
8	The Failure of Obsidian Hydration Dating: Sources, Implications, and New Directions. Journal of Archaeological Science, 1999, 26, 735-752.	2.4	131
9	Film Breakdown and Nano-Porous Mg(OH) ₂ Formation from Corrosion of Magnesium Alloys in Salt Solutions. Journal of the Electrochemical Society, 2015, 162, C140-C149.	2.9	128
10	Dawsonite synthesis and reevaluation of its thermodynamic properties from solubility measurements: Implications for mineral trapping of CO2. Geochimica Et Cosmochimica Acta, 2007, 71, 4438-4455.	3.9	127
11	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. Journal of Physical Chemistry Letters, 2012, 3, 125-130.	4.6	121
12	Thermobarometry and Pressure-Temperature Paths in the Grenville Province of Ontario. Journal of Petrology, 1990, 31, 197-241.	2.8	116
13	Quantum Tunneling of Water in Beryl: A New State of the Water Molecule. Physical Review Letters, 2016, 116, 167802.	7.8	92
14	Micro-Continuum Approaches for Modeling Pore-Scale Geochemical Processes. Reviews in Mineralogy and Geochemistry, 2015, 80, 217-246.	4.8	88
15	Magnetite surface charge studies to 290°C from in situ pH titrations. Chemical Geology, 2000, 167, 193-229.	3.3	84
16	A new approach to quantification of metamorphism using ultra-small and small angle neutron scattering. Geochimica Et Cosmochimica Acta, 2009, 73, 7303-7324.	3.9	82
17	How Porosity Increases During Incipient Weathering of Crystalline Silicate Rocks. Reviews in Mineralogy and Geochemistry, 2015, 80, 331-354.	4.8	81
18	Resolving Time-dependent Evolution of Pore-Scale Structure, Permeability and Reactivity using X-ray Microtomography. Reviews in Mineralogy and Geochemistry, 2015, 80, 247-285.	4.8	79

#	Article	IF	Citations
19	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
20	Boehmite and Gibbsite Nanoplates for the Synthesis of Advanced Alumina Products. ACS Applied Nano Materials, 2018, 1, 7115-7128.	5.0	79
21	Lattice Boltzmann-Based Approaches for Pore-Scale Reactive Transport. Reviews in Mineralogy and Geochemistry, 2015, 80, 393-431.	4.8	78
22	Pore-Size-Dependent Calcium Carbonate Precipitation Controlled by Surface Chemistry. Environmental Science & Environmental Sci	10.0	69
23	Structure and Stability of SnO ₂ Nanocrystals and Surface-Bound Water Species. Journal of the American Chemical Society, 2013, 135, 6885-6895.	13.7	67
24	Thermodynamics of Cr2O3, FeCr2O4, ZnCr2O4, and CoCr2O4. Journal of Chemical Thermodynamics, 2007, 39, 1474-1492.	2.0	64
25	Electric Double Layer at Metal Oxide Surfaces:Â Static Properties of the Cassiteriteâ^'Water Interface. Langmuir, 2007, 23, 4925-4937.	3.5	63
26	Suppression of the dynamic transition in surface water at low hydration levels: A study of water on rutile. Physical Review E, 2009, 79, 051504.	2.1	61
27	Heat capacity and phase equilibria of almandine, Fe3Al2Si3O12. Geochimica Et Cosmochimica Acta, 1993, 57, 4191-4204.	3.9	59
28	Experimental evidence for non-redox transformations between magnetite and hematite under H2-rich hydrothermal conditions. Earth and Planetary Science Letters, 2007, 257, 60-70.	4.4	54
29	Mechanisms of rhyolitic glass hydration below the glass transition. American Mineralogist, 2008, 93, 1166-1178.	1.9	54
30	The heat-capacity of ilmenite and phase equilibria in the system Fe-T-O. Geochimica Et Cosmochimica Acta, 1985, 49, 2027-2040.	3.9	51
31	Effect of quartz overgrowth precipitation on the multiscale porosity of sandstone: A (U)SANS and imaging analysis. Geochimica Et Cosmochimica Acta, 2015, 158, 199-222.	3.9	51
32	lonic Transport in Nano-Porous Clays with Consideration of Electrostatic Effects. Reviews in Mineralogy and Geochemistry, 2015, 80, 287-329.	4.8	51
33	Compatibility of Geobarometers in the System CaO-FeO-Al2O3-SiO2-TiO2(CFAST): Implications for Garnet Mixing Models. Journal of Geology, 1987, 95, 633-645.	1.4	50
34	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
35	Isothermal Time-Series Determination of the Rate of Diffusion of Water in Pachuca Obsidian*. Archaeometry, 2004, 46, 301-326.	1.3	49
36	Magnesium silicate dissolution investigated by 29Si MAS, 1Hâ€"29Si CPMAS, 25Mg QCPMG, and 1Hâ€"25Mg CP QCPMG NMR. Physical Chemistry Chemical Physics, 2009, 11, 7013.	2.8	49

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37	Comment on "Structure and dynamics of liquid water on rutile TiO2(110)― Physical Review B, 2012, 85, .	3.2	46
38	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
39	Multi-scale characterization of pore evolution in a combustion metamorphic complex, Hatrurim basin, Israel: Combining (ultra) small-angle neutron scattering and image analysis. Geochimica Et Cosmochimica Acta, 2013, 121, 339-362.	3.9	42
40	Precipitation in Pores: A Geochemical Frontier. Reviews in Mineralogy and Geochemistry, 2015, 80, 165-190.	4.8	42
41	Mesoscale and Hybrid Models of Fluid Flow and Solute Transport. Reviews in Mineralogy and Geochemistry, 2015, 80, 433-459.	4.8	41
42	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
43	Impact of Solution Chemistry and Particle Anisotropy on the Collective Dynamics of Oriented Aggregation. ACS Nano, 2018, 12, 10114-10122.	14.6	40
44	Solvent-pore interactions in the Eagle Ford shale formation. Fuel, 2019, 238, 298-311.	6.4	40
45	Effects of maturation on multiscale (nanometer to millimeter) porosity in the Eagle Ford Shale. Interpretation, 2015, 3, SU59-SU70.	1.1	37
46	Magnetic contribution to heat capacity and entropy of nickel ferrite (NiFe2O4). Journal of Physics and Chemistry of Solids, 2007, 68, 10-21.	4.0	36
47	Mechanisms of iron oxide transformations in hydrothermal systems. Geochimica Et Cosmochimica Acta, 2010, 74, 6141-6156.	3.9	36
48	Metastability in Near-Surface Rocks of Minerals in the System Al2O3-SiO2-H2O1. Clays and Clay Minerals, 1991, 39, 225-233.	1.3	35
49	Zn2+ and Sr2+ adsorption at the TiO2 (110)–electrolyte interface: Influence of ionic strength, coverage, and anions. Journal of Colloid and Interface Science, 2006, 295, 50-64.	9.4	35
50	Experimental calibration of silicon and oxygen isotope fractionations between quartz and water at 250 ŰC by in situ microanalysis of experimental products and application to zoned low δ30Si quartz overgrowths. Chemical Geology, 2016, 421, 127-142.	3.3	35
51	Phlogopite-chlorite reaction mechanisms and physical conditions during retrograde reactions in the Marble Formation, Franklin, New Jersey. Contributions To Mineralogy and Petrology, 1984, 88, 299-306.	3.1	32
52	The heat capacity of a natural monticellite and phase equilibria in the system CaO-MgO-SiO2-CO2. Geochimica Et Cosmochimica Acta, 1986, 50, 1475-1484.	3.9	32
53	Solubility Measurements of Crystalline NiO in Aqueous Solution as a Function of Temperature and pH. Journal of Solution Chemistry, 2011, 40, 680-702.	1.2	32
54	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

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55	Implications of post-thrusting extension and underplating for P-T-t paths in granulite terranes:A Grenville example. Geology, 1990, 18, 466.	4.4	31
56	Tracer Film Growth Study of Hydrogen and Oxygen from the Corrosion of Magnesium in Water. Journal of the Electrochemical Society, 2014, 161, C395-C404.	2.9	30
57	Low-temperature isotopic exchange in obsidian: Implications for diffusive mechanisms. Geochimica Et Cosmochimica Acta, 2009, 73, 3795-3806.	3.9	28
58	Anisotropic dynamics of water ultraconfined in macroscopically oriented channels of single-crystal beryl: A multifrequency analysis. Physical Review E, 2013, 88, 052306.	2.1	28
59	Strong Anisotropic Dynamics of Ultra-Confined Water. Journal of Physical Chemistry B, 2014, 118, 13414-13419.	2.6	28
60	4. Characterization and Analysis of Porosity and Pore Structures. , 2015, , 61-164.		28
61	Effects of Coupled Chemo-Mechanical Processes on the Evolution of Pore-Size Distributions in Geological Media. Reviews in Mineralogy and Geochemistry, 2015, 80, 45-60.	4.8	27
62	Thermodynamic properties of sodalite at temperatures from 15 K to 1000 K. Journal of Chemical Thermodynamics, 1995, 27, 1119-1132.	2.0	26
63	Sol-gel synthesis of nanocrystalline fayalite (Fe2SiO4). American Mineralogist, 2012, 97, 653-656.	1.9	26
64	Lanthanide-Containing Zirconotitanate Solid Solutions. Journal of Solid State Chemistry, 1996, 127, 231-239.	2.9	25
65	Crystalline Copper Phosphates: Synthesis and Thermal Stability. Journal of the American Ceramic Society, 1997, 80, 3133-3138.	3.8	25
66	Effects of Ionic Strength, Salt, and pH on Aggregation of Boehmite Nanocrystals: Tumbler Small-Angle Neutron and X-ray Scattering and Imaging Analysis. Langmuir, 2018, 34, 15839-15853.	3.5	25
67	Dry melting of high albite. American Mineralogist, 1999, 84, 1830-1842.	1.9	24
68	Experimental determination of the activity-composition relations and phase equilibria of H2O-CO2-NaCl fluids at 500°C, 500 bars. Geochimica Et Cosmochimica Acta, 2004, 68, 3557-3567.	3.9	24
69	Sorption Phase of Supercritical CO ₂ in Silica Aerogel: Experiments and Mesoscale Computer Simulations. Journal of Physical Chemistry C, 2014, 118, 15525-15533.	3.1	24
70	Evaluation of Nanoscale Accessible Pore Structures for Improved Prediction of Gas Production Potential in Chinese Marine Shales. Energy & Energy & 2018, 32, 12447-12461.	5.1	24
71	THE APPLICATION OF HRTEM TECHNIQUES AND NANOSIMS TO CHEMICALLY AND ISOTOPICALLY CHARACTERIZE GEOBACTER SULFURREDUCENS SURFACES. Canadian Mineralogist, 2005, 43, 1631-1641.	1.0	23
72	Relationship between mineralogy and porosity in seals relevant to geologic CO2 sequestration. Environmental Geosciences, 2014, 21, 39-57.	0.6	23

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73	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
74	Thermobarometric constraints on the structural evolution of the Coast Mountains batholith, central southeastern Alaska. Canadian Journal of Earth Sciences, 1991, 28, 912-928.	1.3	22
75	Solubility and surface adsorption characteristics of metal oxides. , 2004, , 493-595.		22
76	Wet oxidation of stainless steels: New insights into hydrogen ingress. Corrosion Science, 2011, 53, 1633-1638.	6.6	22
77	Framboidal iron oxide: Chondrite-like material from the black mat, Murray Springs, Arizona. Earth and Planetary Science Letters, 2012, 319-320, 251-258.	4.4	22
78	Obsidian hydration: A new paleothermometer. Geology, 2006, 34, 517.	4.4	20
79	SANS coupled with fluid invasion approaches for characterization of overall nanopore structure and mesopore connectivity of organic-rich marine shales in China. International Journal of Coal Geology, 2020, 217, 103343.	5.0	20
80	The CO2-H2O system. II. calculated thermodynamic mixing properties for 400°C, 0–400 MPa. Geochimica Et Cosmochimica Acta, 1999, 63, 2393-2408.	3.9	19
81	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
82	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. Journal of Colloid and Interface Science, 2020, 576, 47-58.	9.4	18
83	Wellbore Cement Porosity Evolution in Response to Mineral Alteration during CO2 Flooding. Environmental Science & Environmenta	10.0	17
84	The effects of burial diagenesis on multiscale porosity in the St. Peter Sandstone: An imaging, small-angle, and ultra-small-angle neutron scattering analysis. Marine and Petroleum Geology, 2018, 92, 352-371.	3.3	17
85	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
86	Adsorption of Ions on Zirconium Oxide Surfaces fromÂAqueous Solutions at High Temperatures. Journal of Solution Chemistry, 2009, 38, 907-924.	1.2	16
87	Connecting particle interactions to agglomerate morphology and rheology of boehmite nanocrystal suspensions. Journal of Colloid and Interface Science, 2020, 572, 328-339.	9.4	16
88	Nano-scale synthesis of the complex silicate minerals forsterite and enstatite. Journal of Colloid and Interface Science, 2017, 495, 94-101.	9.4	15
89	Oxidation and associated pore structure modification during experimental alteration of granite. Geochimica Et Cosmochimica Acta, 2021, 292, 532-556.	3.9	15
90	Heat capacity measurements for cryolite (Na3AlF6) and reactions in the system Naî—,Feî—,Alî—,Siî—,Oî—,F. Geoch Et Cosmochimica Acta, 1987, 51, 3087-3103.	nimica 3.9	14

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91	O and H diffusion in uraninite: Implications for fluid–uraninite interactions, nuclear waste disposal, and nuclear forensics. Geochimica Et Cosmochimica Acta, 2011, 75, 3677-3686.	3.9	14
92	Rapid Diffusion and Nanosegregation of Hydrogen in Magnesium Alloys from Exposure to Water. ACS Applied Materials & Samp; Interfaces, 2017, 9, 38125-38134.	8.0	14
93	Influence of microstructure on replacement and porosity generation during experimental dolomitization of limestones. Geochimica Et Cosmochimica Acta, 2021, 303, 137-158.	3.9	14
94	Quantifying Fluidâ€Wettable Effective Pore Space in the Utica and Bakken Oil Shale Formations. Geophysical Research Letters, 2020, 47, e2020GL087896.	4.0	12
95	Precise Measurement of the Activity/Composition Relations of H2O-N2 and H2O-CO2 Fluids at 500°C, 500 Bars. Geochimica Et Cosmochimica Acta, 1998, 62, 815-829.	3.9	11
96	Small-angle neutron scattering study of the wet and dry high-temperature oxidation of alumina- and chromia-forming stainless steels. Corrosion Science, 2012, 58, 121-132.	6.6	11
97	Vibrational Behavior of Water Adsorbed on Forsterite (Mg ₂ SiO ₄) Surfaces. ACS Earth and Space Chemistry, 2020, 4, 1050-1063.	2.7	11
98	Self-Assembled Colloidal Crystals from ZrO2 Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 19456-19460.	2.6	10
99	Solubility of Zinc Silicate and Zinc Ferrite in Aqueous Solution to High Temperatures. Journal of Solution Chemistry, 2009, 38, 869-892.	1.2	10
100	Comparison of Short-Term Oxidation Behavior of Model and Commercial Chromia-Forming Ferritic Stainless Steels in Dry and Wet Air. Oxidation of Metals, 2012, 78, 1-16.	2.1	10
101	Solvothermal Synthesis and Surface Chemistry To Control the Size and Morphology of Nanoquartz. Crystal Growth and Design, 2015, 15, 5327-5331.	3.0	10
102	Coupled antiferromagnetic spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2<mml:mrow><mml:msub><mml:mtext>Cu</mml:mtext><</mml:msub></mml:mrow></mml:mn></mml:mfrac></mml:math>	3.2	10
103	Physical Review B, 2016, 93, . Structure and dynamics of water on the forsterite surface. Physical Chemistry Chemical Physics, 2018, 20, 27822-27829.	2.8	10
104	Fast Rotational Diffusion of Water Molecules in a 2D Hydrogen Bond Network at Cryogenic Temperatures. Physical Review Letters, 2018, 120, 196001.	7.8	10
105	Controls of Microstructure and Chemical Reactivity on the Replacement of Limestone by Fluorite Studied Using Spatially Resolved Small Angle X-ray and Neutron Scattering. ACS Earth and Space Chemistry, 2019, 3, 1998-2016.	2.7	10
106	Effect of fine-tuning pore structures on the dynamics of confined water. Journal of Chemical Physics, 2019, 150, 204706.	3.0	10
107	Grain detachment and transport clogging during mineral dissolution in carbonate rocks with permeable grain boundaries. Geochimica Et Cosmochimica Acta, 2020, 280, 202-220.	3.9	10
108	Pore pressure during metamorphism of carbonate rock: effect of volumetric properties of H2O–CO2 mixtures. Contributions To Mineralogy and Petrology, 2002, 144, 305-313.	3.1	9

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109	Isotherm measurements of high-pressure metal hydrides for hydrogen compressors. JPhys Energy, 2021, 3, 034004.	5.3	9
110	Degradation of Adsorbed Bisphenol A by Soluble Mn(III). Environmental Science & Environmental Science	10.0	9
111	Mineral Metastability in the System Al2O3-SiO2-H2O: A Reply*. Clays and Clay Minerals, 1994, 42, 102-105.	1.3	8
112	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. Journal of Chemical Thermodynamics, 1995, 27, 1097-1118.	2.0	8
113	Solubility of Litharge (α-PbO) in Alkaline Media at Elevated Temperatures. Journal of Solution Chemistry, 2005, 34, 1407-1428.	1.2	8
114	Direct Detection of Residual Cyanide in Cassava Using Spectroscopic Techniques. Journal of Agricultural and Food Chemistry, 2007, 55, 10135-10140.	5.2	8
115	Tracer study of oxygen and hydrogen uptake by Mg alloys in air with water vapor. Scripta Materialia, 2015, 106, 38-41.	5.2	8
116	Inelastic and deep inelastic neutron spectroscopy of water molecules under ultra-confinement. Journal of Physics: Conference Series, 2018, 1055, 012002.	0.4	7
117	High-pressure cell for neutron reflectometry of supercritical and subcritical fluids at solid interfaces. Review of Scientific Instruments, 2012, 83, 045108.	1.3	6
118	Role of Mineralogy in Controlling Fracture Formation. ACS Earth and Space Chemistry, 2021, 5, 3104-3114.	2.7	6
119	Facile emulsion mediated synthesis of phase-pure diopside nanoparticles. Scientific Reports, 2018, 8, 3099.	3.3	5
120	Surface energy of fayalite and its effect on Fe-Si-O oxygen buffers and the olivine-spinel transition. American Mineralogist, 2018, 103, 1599-1603.	1.9	5
121	Temporal Evolution of Corrosion Film Nano-Porosity and Magnesium Alloy Hydrogen Penetration in NaCl Solution. Journal of the Electrochemical Society, 2020, 167, 131513.	2.9	5
122	Experimental investigation of the breakdown of dolomite in rock cores at 100 MPa, 650-750 ÂC. American Mineralogist, 2007, 92, 510-517.	1.9	4
123	Neutron Radiography of Fluid Flow for Geothermal Energy Research. Physics Procedia, 2015, 69, 464-471.	1.2	4
124	Magnetic ground state and magnetic excitations in black dioptase <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mathvariant="normal">O<mml:mn>18</mml:mn></mml:mathvariant="normal"></mml:msub></mml:mrow></mml:math> . Physical Review B, 2019, 100, .	nn3.6 <td>nl:mn></td>	nl:mn>
125	Frustrated Coulombic and Cation Size Effects on Nanoscale Boehmite Aggregation: A Tumbler Small-and Ultra-Small-Angle Neutron Scattering Study. Journal of Physical Chemistry C, 2022, 126, 4391-4414.	3.1	4
126	Compounds and Solid Solutions of Cobalt, Copper Phosphates. Journal of the American Ceramic Society, 2005, 81, 2799-2804.	3.8	3

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127	A high-pressure flow through test vessel for neutron imaging and neutron diffraction-based strain measurement of geological materials. Review of Scientific Instruments, 2020, 91, 084502.	1.3	3
128	A Quantitative Approach to the Analysis of Reactive Mineralogy and Surface Area. ACS Earth and Space Chemistry, $0, , .$	2.7	3
129	Multiscale (nano to mm) Porosity in the Eagle Ford Shale: Changes as a Function of Maturity. , 2014, , .		2
130	Feasibility of Using Glass-Fiber-Reinforced Polymer Pipelines for Hydrogen Delivery., 2016,,.		2
131	Oxygen diffusion and exchange in dolomite rock at 700 \hat{A}° C, 100 MPa. American Mineralogist, 2016, 101, 1898-1905.	1.9	2
132	Exploring Particle Aggregation Using Small Angle Scattering Techniques. ACS Symposium Series, 2020, , 201-257.	0.5	2
133	One-Dimensional Glassy Behavior of Ultraconfined Water Strings. Journal of Physical Chemistry Letters, 2020, 11, 7798-7804.	4.6	2
134	Quantification of mechanical compaction and cementation during contact metamorphism of sandstone. Journal of Structural Geology, 2020, 136, 104062.	2.3	2
135	High-field spin-flop state in green dioptase. Physical Review B, 2021, 103, .	3.2	2
136	Mineralogy, microfabric and pore evolution in late-middle Ordovician mudstone of the Utica/Point Pleasant sub-basin of Ohio, West Virginia, and Pennsylvania. Marine and Petroleum Geology, 2021, 134, 105345.	3.3	2
137	Sol-gel synthesis of nano-scale, end-member albite feldspar (NaAlSi3O8). Journal of Colloid and Interface Science, 2021, 603, 459-467.	9.4	2
138	Water Migration and Swelling in Engineered Barrier Materials for Radioactive Waste Disposal. Nuclear Technology, 2021, 207, 1237-1256.	1.2	2
139	The pore wall structure of porous semi-crystalline anatase TiO2. Journal of Applied Crystallography, 2011, 44, 1238-1245.	4.5	1
140	Neutron imaging for geothermal energy systems. , 2013, , .		1
141	Nano- to Microscale Pore Characterization of the Utica Shale. , 2014, , .		1
142	3. Effects of Coupled Chemo-Mechanical Processes on the Evolution of Pore-Size Distributions in Geological Media., 2015,, 45-60.		1
143	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
144	Development of In Situ Techniques for Torsion and Tension Testing in Hydrogen Environment., 2011,,.		0

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145	Diagenesis and kerogen release in oil- and gas-bearing shales. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C63-C63.	0.1	O
146	EXPERIMENTAL CALIBRATION OF FRACTIONATION OF SILICON ISOTOPES BETWEEN QUARTZ AND WATER. , 2017, , .		0
147	Effect of Fluid Properties on Contact Angles in the Eagle Ford Shale Measured with Spontaneous Imbibition. ACS Omega, 2021, 6, 32618-32630.	3.5	O
148	Experimental Limestone Dissolution and Changes in Multiscale Structure Using Small- and Ultrasmall-Angle Neutron Scattering. ACS Earth and Space Chemistry, 2022, 6, 974-986.	2.7	0