Everett L Shock

List of Publications by Year
in descending order

183 papers	15,995 citations	18436 62 h-index	18075 120 g-index
189 all docs	189 docs citations	189 times ranked	9410 citing authors

#	Article	IF	Citations
1	Energetically Informed Niche Models of Hydrogenotrophs Detected in Sediments of Serpentinized Fluids of the Samail Ophiolite of Oman. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	10
2	Cyanobacteria and Algae Meet at the Limits of Their Habitat Ranges in Moderately Acidic Hot Springs. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	7
3	Forward geochemical modeling as a guiding tool during exploration of Sea Cliff hydrothermal field, Gorda Ridge. Planetary and Space Science, 2021, 197, 105151.	0.9	5
4	Theoretical Predictions Versus Environmental Observations on Serpentinization Fluids: Lessons From the Samail Ophiolite in Oman. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020756.	1.4	24
5	Quantifying the extent of amide and peptide bond synthesis across conditions relevant to geologic and planetary environments. Geochimica Et Cosmochimica Acta, 2021, 300, 318-332.	1.6	11
6	The Molecular Basis for Life in Extreme Environments. Annual Review of Biophysics, 2021, 50, 343-372.	4.5	31
7	Seasonal hydrologic and geologic forcing drive hot spring geochemistry and microbial biodiversity. Environmental Microbiology, 2021, 23, 4034-4053.	1.8	17
8	Hydrothermal Experiments with Protonated Benzylamines Provide Predictions of Temperature-Dependent Deamination Rates for Geochemical Modeling. ACS Earth and Space Chemistry, 2021, 5, 1997-2012.	1.2	4
9	Hydrothermal One-Electron Oxidation of Carboxylic Acids in the Presence of Iron Oxide Minerals. ACS Earth and Space Chemistry, 2021, 5, 2715-2728.	1.2	4
10	Ecological Dichotomies Arise in Microbial Communities Due to Mixing of Deep Hydrothermal Waters and Atmospheric Gas in a Circumneutral Hot Spring. Applied and Environmental Microbiology, 2021, 87, e0159821.	1.4	6
11	Cooperative formation of porous silica and peptides on the prebiotic Earth. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	6
12	The Release of Energy During Protein Synthesis at Ultramaficâ€Hosted Submarine Hydrothermal Ecosystems. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006436.	1.3	7
13	Decreasing extents of Archean serpentinization contributed to the rise of an oxidized atmosphere. Nature Communications, 2021, 12, 7341.	5.8	7
14	A novel PARAFAC model for continental hot springs reveals unique dissolved organic carbon compositions. Organic Geochemistry, 2020, 141, 103964.	0.9	9
15	Mechanisms of decarboxylation of phenylacetic acids and their sodium salts in water at high temperature and pressure. Geochimica Et Cosmochimica Acta, 2020, 269, 597-621.	1.6	20
16	Metastable equilibrium of substitution reactions among oxygen- and nitrogen-bearing organic compounds at hydrothermal conditions. Geochimica Et Cosmochimica Acta, 2020, 272, 93-104.	1.6	7
17	Lipid Biomarker Record of the Serpentinite-Hosted Ecosystem of the Samail Ophiolite, Oman and Implications for the Search for Biosignatures on Mars. Astrobiology, 2020, 20, 830-845.	1.5	23
18	Kinetics and Mechanisms of Hydrothermal Ketonic Decarboxylation. ACS Earth and Space Chemistry, 2020, 4, 2082-2095.	1.2	6

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19	Thermodynamic constraints on the geochemistry of low-temperature, continental, serpentinization-generated fluids. Numerische Mathematik, 2020, 320, 185-235.	0.7	32
20	Carbon Oxidation State in Microbial Polar Lipids Suggests Adaptation to Hot Spring Temperature and Redox Gradients. Frontiers in Microbiology, 2020, 11, 229.	1.5	16
21	Selective hydrothermal reductions using geomimicry. Green Chemistry, 2019, 21, 4159-4168.	4.6	11
22	Probing the geological source and biological fate of hydrogen in Yellowstone hot springs. Environmental Microbiology, 2019, 21, 3816-3830.	1.8	22
23	Earth as Organic Chemist. , 2019, , 415-446.		5
24	Distinguishing Biotic and Abiotic Iron Oxidation at Low Temperatures. ACS Earth and Space Chemistry, 2019, 3, 905-921.	1.2	11
25	Bulk gold catalyzes hydride transfer in the Cannizzaro and related reactions. New Journal of Chemistry, 2019, 43, 19137-19148.	1.4	2
26	Deamination reaction mechanisms of protonated amines under hydrothermal conditions. Geochimica Et Cosmochimica Acta, 2019, 244, 113-128.	1.6	24
27	Production of Carboxylic Acids from Aldehydes under Hydrothermal Conditions: A Kinetics Study of Benzaldehyde. ACS Earth and Space Chemistry, 2019, 3, 170-191.	1.2	18
28	Geobiological feedbacks and the evolution of thermoacidophiles. ISME Journal, 2018, 12, 225-236.	4.4	70
29	Effects of iron-containing minerals on hydrothermal reactions of ketones. Geochimica Et Cosmochimica Acta, 2018, 223, 107-126.	1.6	21
30	Subsurface processes influence oxidant availability and chemoautotrophic hydrogen metabolism in Yellowstone hot springs. Geobiology, 2018, 16, 674-692.	1.1	35
31	Kinetics and Mechanisms of Dehydration of Secondary Alcohols Under Hydrothermal Conditions. ACS Earth and Space Chemistry, 2018, 2, 821-832.	1.2	36
32	Carbonaceous Chondrite Meteorites: the Chronicle of a Potential Evolutionary Path between Stars and Life. Origins of Life and Evolution of Biospheres, 2017, 47, 249-260.	0.8	46
33	Mineral-assisted production of benzene under hydrothermal conditions: Insights from experimental studies on C 6 cyclic hydrocarbons. Journal of Volcanology and Geothermal Research, 2017, 346, 21-27.	0.8	14
34	Geochemical bioenergetics during lowâ€temperature serpentinization: An example from the Samail ophiolite, Sultanate of Oman. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1821-1847.	1.3	49
35	Microbial substrate preference dictated by energy demand rather than supply. Nature Geoscience, 2017, 10, 577-581.	5.4	39
36	A calibration of the triple oxygen isotope fractionation in the SiO2â€“H2O system and applications to natural samples. Geochimica Et Cosmochimica Acta, 2016, 186, 105-119.	1.6	154

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37	A Thermodynamic Analysis of Soil Ecosystem Development in Northern Wetlands. Wetlands, 2016, 36, 1143-1153.	0.7	1
38	Geobiochemistry of metabolism: Standard state thermodynamic properties of the citric acid cycle. Geochimica Et Cosmochimica Acta, 2016, 195, 293-322.	1.6	15
39	Ecological differentiation in planktonic and sediment-associated chemotrophic microbial populations in Yellowstone hot springs. FEMS Microbiology Ecology, 2016, 92, fiw137.	1.3	60
40	Principles of Geobiochemistry. Elements, 2015, 11, 395-401.	0.5	43
41	High pH microbial ecosystems in a newly discovered, ephemeral, serpentinizing fluid seep at YanartaÃ…Å¸ (Chimera), Turkey. Frontiers in Microbiology, 2015, 5, 723.	1.5	37
42	Stable isotope labeling confirms mixotrophic nature of streamer biofilm communities at alkaline hot springs. Frontiers in Microbiology, 2015, 6, 42.	1.5	38
43	Organic Oxidations Using Geomimicry. Journal of Organic Chemistry, 2015, 80, 12159-12165.	1.7	21
44	Prerequisites for explosive cryovolcanism on dwarf planet-class Kuiper belt objects. Icarus, 2015, 246, 48-64.	1.1	53
45	Sphalerite is a geochemical catalyst for carbonâ˜hydrogen bond activation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11642-11645.	3.3	27
46	Chemolithotrophic Primary Production in a Subglacial Ecosystem. Applied and Environmental Microbiology, 2014, 80, 6146-6153.	1.4	92
47	Harsh Environment Sensor Array-Enabled Hot Spring Mapping. IEEE Sensors Journal, 2014, 14, 3418-3425.	2.4	3
48	Hydrothermal Photochemistry as a Mechanistic Tool in Organic Geochemistry: The Chemistry of Dibenzyl Ketone. Journal of Organic Chemistry, 2014, 79, 7861-7871.	1.7	19
49	Bioavailability of nanoparticulate hematite to Arabidopsis thaliana. Environmental Pollution, 2013, 174, 150-156.	3.7	46
50	The energetics of organic synthesis inside and outside the cell. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120255.	1.8	94
51	Science Potential from a Europa Lander. Astrobiology, 2013, 13, 740-773.	1.5	98
52	Organic functional group transformations in water at elevated temperature and pressure: Reversibility, reactivity, and mechanisms. Geochimica Et Cosmochimica Acta, 2013, 104, 194-209.	1.6	42
53	A geochemical model of non-ideal solutions in the methaneâ€“ethaneâ€“propaneâ€“nitrogenâ€“acetylene system on Titan. Geochimica Et Cosmochimica Acta, 2013, 115, 217-240.	1.6	55
54	MEMS harsh environment sensor array-enabled hot spring mapping. , 2013, , .		0

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55	Comparative Genomic Analysis of Phylogenetically Closely Related Hydrogenobaculum sp. Isolates from Yellowstone National Park. Applied and Environmental Microbiology, 2013, 79, 2932-2943.	1.4	39
56	Spatial and temporal variability of biomarkers and microbial diversity reveal metabolic and community flexibility in Streamer Biofilm Communities in the <scp>L</scp>ower <scp>G</scp>eyser <scp>B</scp>asin, <scp>Y</scp>ellowstone <scp>N</scp>ational <scp>P</scp>ark. Geobiology, 2013, 11, 549-569.	1.1	71
57	The Chemistry of Carbon in Aqueous Fluids at Crustal and Upper-Mantle Conditions: Experimental and Theoretical Constraints. Reviews in Mineralogy and Geochemistry, 2013, 75, 109-148.	2.2	115
58	Thermodynamics of Organic Transformations in Hydrothermal Fluids. Reviews in Mineralogy and Geochemistry, 2013, 76, 311-350.	2.2	47
59	A Metastable Equilibrium Model for the Relative Abundances of Microbial Phyla in a Hot Spring. PLoS ONE, 2013, 8, e72395.	1.1	23
60	5. The Chemistry of Carbon in Aqueous Fluids at Crustal and Upper-Mantle Conditions: Experimental and Theoretical Constraints. , 2013, , 109-148.		6
61	9. Thermodynamics of Organic Transformations in Hydrothermal Fluids. , 2013, , 311-350.		1
62	Soil Lead Distribution and Environmental Justice in the Phoenix Metropolitan Region. Environmental Justice, 2012, 5, 206-213.	0.8	15
63	Reaction path modeling of enhanced in situ CO2 mineralization for carbon sequestration in the peridotite of the Samail Ophiolite, Sultanate of Oman. Chemical Geology, 2012, 330-331, 86-100.	1.4	127
64	The central role of ketones in reversible and irreversible hydrothermal organic functional group transformations. Geochimica Et Cosmochimica Acta, 2012, 98, 48-65.	1.6	38
65	Korarchaeota Diversity, Biogeography, and Abundance in Yellowstone and Great Basin Hot Springs and Ecological Niche Modeling Based on Machine Learning. PLoS ONE, 2012, 7, e35964.	1.1	43
66	Coordinating Environmental Genomics and Geochemistry Reveals Metabolic Transitions in a Hot Spring Ecosystem. PLoS ONE, 2012, 7, e38108.	1.1	97
67	Modeling the Habitat Range of Phototrophs in Yellowstone National Park: Toward the Development of a Comprehensive Fitness Landscape. Frontiers in Microbiology, 2012, 3, 221.	1.5	64
68	Evidence for highâ€temperature in situ nifH transcription in an alkaline hot spring of Lower Geyser Basin, Yellowstone National Park. Environmental Microbiology, 2012, 14, 1272-1283.	1.8	44
69	Effects of trace element concentrations on culturing thermophiles. Extremophiles, 2012, 16, 317-331.	0.9	14
70	Merging isotopes and community genomics in a siliceous sinter-depositing hot spring. Journal of Geophysical Research, 2011, 116, .	3.3	57
71	The transition to microbial photosynthesis in hot spring ecosystems. Chemical Geology, 2011, 280, 344-351.	1.4	107
72	The Next Phase in Our Search for Life:An Expert Discussion. Astrobiology, 2011, 11, 2-8.	1.5	5

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73	Calculation of the Relative Chemical Stabilities of Proteins as a Function of Temperature and Redox Chemistry in a Hot Spring. PLoS ONE, 2011, 6, e22782.	1.1	36
74	Hydrothermal ecotones and streamer biofilm communities in the Lower Geyser Basin, Yellowstone National Park. Environmental Microbiology, 2011, 13, 2216-2231.	1.8	85
75	Diversity, Abundance, and Potential Activity of Nitrifying and Nitrate-Reducing Microbial Assemblages in a Subglacial Ecosystem. Applied and Environmental Microbiology, 2011, 77, 4778-4787.	1.4	119
76	Birth of Biomolecules from the Warm Wet Sheets of Clays Near Spreading Centers. , 2011, , 79-112.		6
77	Microbiology and geochemistry of Little Hot Creek, a hot spring environment in the Long Valley Caldera. Geobiology, 2010, 8, 140-154.	1.1	91
78	The Organic Composition of Carbonaceous Meteorites: The Evolutionary Story Ahead of Biochemistry. Cold Spring Harbor Perspectives in Biology, 2010, 2, a002105-a002105.	2.3	215
79	Sodium chloride as a geophysical probe of a subsurface ocean on Enceladus. Geophysical Research Letters, 2010, 37, .	1.5	25
80	Quantifying inorganic sources of geochemical energy in hydrothermal ecosystems, Yellowstone National Park, USA. Geochimica Et Cosmochimica Acta, 2010, 74, 4005-4043.	1.6	160
81	Microbiology and geochemistry of great boiling and mud hot springs in the United States Great Basin. Extremophiles, 2009, 13, 447-459.	0.9	157
82	The absence of endogenic methane on Titan and its implications for the origin of atmospheric nitrogen. Icarus, 2009, 204, 637-644.	1.1	35
83	Minerals as Energy Sources for Microorganisms. Economic Geology, 2009, 104, 1235-1248.	1.8	42
84	The oxidation state of hydrothermal systems on early Enceladus. Icarus, 2008, 197, 157-163.	1.1	45
85	Rapid transport of anthropogenic lead through soils in southeast Missouri. Applied Geochemistry, 2008, 23, 2156-2170.	1.4	26
86	Antimony leaching from polyethylene terephthalate (PET) plastic used for bottled drinking water. Water Research, 2008, 42, 551-556.	5.3	260
87	Global Occurrence of Archaeal amoA Genes in Terrestrial Hot Springs. Applied and Environmental Microbiology, 2008, 74, 6417-6426.	1.4	189
88	A Thermodynamic Analysis of Microbial Growth Experiments. Astrobiology, 2007, 7, 891-904.	1.5	9
89	Quantitative Habitability. Astrobiology, 2007, 7, 839-851.	1.5	54
90	A â€œFollow the Energyâ€•Approach for Astrobiology. Astrobiology, 2007, 7, 819-823.	1.5	50

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91	Formate as an Energy Source for Microbial Metabolism in Chemosynthetic Zones of Hydrothermal Ecosystems. Astrobiology, 2007, 7, 873-890.	1.5	57
92	Group Contribution Values for the Thermodynamic Functions of Hydration at 298.15 K, 0.1 MPa. 4. Aliphatic Nitriles and Dinitriles. Journal of Chemical & Engineering Data, 2006, 51, 1481-1490.	1.0	16
93	Group Contribution Values for the Thermodynamic Functions of Hydration at 298.15 K, 0.1 MPa. 3. Aliphatic Monoethers, Diethers, and Polyethers. Journal of Chemical & Engineering Data, 2006, 51, 276-290.	1.0	31
94	Thermodynamic constraints on fayalite formation on parent bodies of chondrites. Meteoritics and Planetary Science, 2006, 41, 1775-1796.	0.7	92
95	Archaeal and bacterial communities in geochemically diverse hot springs of Yellowstone National Park, USA. Geobiology, 2005, 3, 211-227.	1.1	203
96	Formation of jarosite-bearing deposits through aqueous oxidation of pyrite at Meridiani Planum, Mars. Geophysical Research Letters, 2005, 32, .	1.5	117
97	Group Contribution Values for the Thermodynamic Functions of Hydration at 298.15 K, 0.1 MPa. 2. Aliphatic Thiols, Alkyl Sulfides, and Polysulfides. Journal of Chemical & Engineering Data, 2005, 50, 246-253.	1.0	26
98	Database of Thermodynamic Properties for Aqueous Organic Compounds. International Journal of Thermophysics, 2004, 25, 351-360.	1.0	48
99	A model for low-temperature biogeochemistry of sulfur, carbon, and iron on Europa. Journal of Geophysical Research, 2004, 109, .	3.3	61
100	Group Contribution Values for the Thermodynamic Functions of Hydration of Aliphatic Esters at 298.15 K, 0.1 MPa. Journal of Chemical & Engineering Data, 2004, 49, 1152-1167.	1.0	34
101	Coupled organic synthesis and mineral alteration on meteorite parent bodies. Meteoritics and Planetary Science, 2004, 39, 1577-1590.	0.7	59
102	Geochemical energy sources that support the subsurface biosphere. Geophysical Monograph Series, 2004, , 153-165.	0.1	37
103	Sulfate Volumes and the Fitness of Supcrt92 for Calculating Deep Ocean Chemistry. Cellular Origin and Life in Extreme Habitats, 2004, , 261-264.	0.3	0
104	Energetics of chemolithoautotrophy in the hydrothermal system of Vulcano Island, southern Italy. Geobiology, 2003, 1, 37-58.	1.1	105
105	Second Cross Virial Coefficients for Interactions Involving Water. Correlations and Group Contribution Values. Journal of Chemical & Engineering Data, 2003, 48, 1463-1470.	1.0	21
106	Second Cross Virial Coefficients for Interactions Involving Water. Critical Data Compilation. Journal of Chemical & Engineering Data, 2003, 48, 808-821.	1.0	33
107	Energy for biologic sulfate reduction in a hydrothermally formed ocean on Europa. Journal of Geophysical Research, 2003, 108, .	3.3	70
108	Prediction of the vaporâ€“liquid distribution constants for volatile nonelectrolytes in water up to its critical temperature. Geochimica Et Cosmochimica Acta, 2003, 67, 4981-5009.	1.6	65

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109	Merging Genomes with Geochemistry in Hydrothermal Ecosystems. Science, 2002, 296, 1077-1082.	6.0	252
110	Seeds of life?. Nature, 2002, 416, 380-381.	13.7	19
111	Composition and stability of salts on the surface of Europa and their oceanic origin. Journal of Geophysical Research, 2001, 106, 32815-32827.	3.3	174
112	Prediction of the Gibbs energies and an improved equation of state for water at extreme conditions from ab initio energies with classical simulations. Geochimica Et Cosmochimica Acta, 2001, 65, 4067-4075.	1.6	20
113	Correlation strategy for determining the parameters of the revised Helgeson-Kirkham-Flowers model for aqueous nonelectrolytes. Geochimica Et Cosmochimica Acta, 2001, 65, 3879-3900.	1.6	94
114	Estimation of standard-state entropies of association for aqueous metal-organic complexes and chelates at 25Â°C and 1 bar. Geochimica Et Cosmochimica Acta, 2001, 65, 3931-3953.	1.6	11
115	The temperature dependence of the standard-state thermodynamic properties of aqueous nonelectrolytes. Geochimica Et Cosmochimica Acta, 2001, 65, 3919-3930.	1.6	78
116	Group Contribution Values of the Infinite Dilution Thermodynamic Functions of Hydration for Aliphatic Noncyclic Hydrocarbons, Alcohols, and Ketones at 298.15 K and 0.1 MPaâ€. Journal of Chemical & Engineering Data, 2001, 46, 1016-1019.	1.0	42
117	Estimation of the Krichevskii parameter for aqueous nonelectrolytes. Journal of Supercritical Fluids, 2001, 20, 91-103.	1.6	44
118	Energetics of overall metabolic reactions of thermophilic and hyperthermophilic Archaea and Bacteria. FEMS Microbiology Reviews, 2001, 25, 175-243.	3.9	648
119	Predictions of hydrothermal alteration within near-ridge oceanic crust from coordinated geochemical and fluid flow models. Journal of Volcanology and Geothermal Research, 2001, 110, 319-341.	0.8	9
120	Flood enhancement through flood control. Geology, 2001, 29, 875.	2.0	159
121	Geochemical Habitats in Hydrothermal Systems. , 2001, , 179-185.		1
122	Infinite dilution partial molar properties of aqueous solutions of nonelectrolytes. II. equations for the standard thermodynamic functions of hydration of volatile nonelectrolytes over wide ranges of conditions including subcritical temperatures. Geochimica Et Cosmochimica Acta, 2000, 64, 2779-2795.	1.6	47
123	Standard state Gibbs energies of hydration of hydrocarbons at elevated temperatures as evaluated from experimental phase equilibria studies. Geochimica Et Cosmochimica Acta, 2000, 64, 2811-2833.	1.6	33
124	Thermodynamic functions of hydration of hydrocarbons at 298.15 K and 0.1 MPa. Geochimica Et Cosmochimica Acta, 2000, 64, 439-468.	1.6	128
125	An abiotic origin for hydrocarbons in the Allan Hills 84001 martian meteorite through cooling of magmatic and impactâ€generated gases. Meteoritics and Planetary Science, 2000, 35, 629-638.	0.7	54
126	A thermodynamic assessment of the potential synthesis of condensed hydrocarbons during cooling and dilution of volcanic gases. Journal of Geophysical Research, 2000, 105, 539-559.	3.3	57

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127	Distinguishing ultramafic-from basalt-hosted submarine hydrothermal systems by comparing calculated vent fluid compositions. Journal of Geophysical Research, 2000, 105, 8319-8340.	3.3	140
128	The Early Earth vs. The Origin of Life. , 2000, , 527-544.		12
129	5. Environmental Aqueous Geochemistry of Actinides. , 1999, , 221-254.		44
130	Volumes of aqueous alcohols, ethers, and ketones toT= 523 K andp= 28 MPa. Journal of Chemical Thermodynamics, 1999, 31, 1195-1229.	1.0	31
131	Metal-organic complexes in geochemical processes: temperature dependence of the standard thermodynamic properties of aqueous complexes between metal cations and dicarboxylate ligands. Geochimica Et Cosmochimica Acta, 1999, 63, 2547-2577.	1.6	60
132	Halocarbons in the environment: estimates of thermodynamic properties for aqueous chloroethylene species and their stabilities in natural settings. Geochimica Et Cosmochimica Acta, 1999, 63, 3429-3441.	1.6	31
133	Hydrous Pyrolysis of Polycyclic Aromatic Hydrocarbons and Implications for the Origin of PAH in Hydrothermal Petroleum. Energy & Fuels, 1999, 13, 401-410.	2.5	44
134	Abiotic synthesis of polycyclic aromatic hydrocarbons on Mars. Journal of Geophysical Research, 1999, 104, 14033-14049.	3.3	64
135	Solubility and transport of platinum-group elements in supercritical fluids: summary and estimates of thermodynamic properties for ruthenium, rhodium, palladium, and platinum solids, aqueous ions, and complexes to 1000Â°C and 5 kbar. Geochimica Et Cosmochimica Acta, 1998, 62, 2643-2671.	1.6	123
136	Fluid-rock interactions in the lower oceanic crust: Thermodynamic models of hydrothermal alteration. Journal of Geophysical Research, 1998, 103, 547-575.	3.3	104
137	The biological potential of Mars, the early Earth, and Europa. Journal of Geophysical Research, 1998, 103, 19359-19364.	3.3	130
138	Organic synthesis during fluid mixing in hydrothermal systems. Journal of Geophysical Research, 1998, 103, 28513-28527.	3.3	216
139	Energetics of Amino Acid Synthesis in Hydrothermal Ecosystems. , 1998, 281, 1659-1662.		201
140	High-temperature life without photosynthesis as a model for Mars. Journal of Geophysical Research, 1997, 102, 23687-23694.	3.3	66
141	Inorganic species in geologic fluids: Correlations among standard molal thermodynamic properties of aqueous ions and hydroxide complexes. Geochimica Et Cosmochimica Acta, 1997, 61, 907-950.	1.6	887
142	Prediction of the thermodynamic properties of aqueous metal complexes to 1000Â°C and 5 kb. Geochimica Et Cosmochimica Acta, 1997, 61, 1359-1412.	1.6	678
143	Geochemical constraints on chemolithoautotrophic metabolism by microorganisms in seafloor hydrothermal systems. Geochimica Et Cosmochimica Acta, 1997, 61, 4375-4391.	1.6	426
144	Hydrothermal hydration of Martian crust: Illustration via geochemical model calculations. Journal of Geophysical Research, 1997, 102, 9135-9143.	3.3	72

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145	Uranium in geologic fluids: Estimates of standard partial molal properties, oxidation potentials, and hydrolysis constants at high temperatures and pressures. Geochimica Et Cosmochimica Acta, 1997, 61, 4245-4266.	1.6	91
146	Hydrothermal Systems as Environments for the Emergence of Life. Novartis Foundation Symposium, 1996, 202, 40-60.	1.2	28
147	Geochemical constraints on chemolithoautotrophic reactions in hydrothermal systems. Origins of Life and Evolution of Biospheres, 1995, 25, 141-159.	0.8	75
148	Thermodynamics of strecker synthesis in hydrothermal systems. Origins of Life and Evolution of Biospheres, 1995, 25, 161-173.	0.8	50
149	A geochemical model for the formation of hydrothermal carbonates on Mars. Nature, 1995, 377, 406-408.	13.7	70
150	An open or shut case?. Nature, 1995, 378, 338-339.	13.7	8
151	Summary of the Apparent Standard Partial Molal Gibbs Free Energies of Formation of Aqueous Species, Minerals, and Gases at Pressures 1 to 5000 Bars and Temperatures 25 to 1000â€‰Â°C. Journal of Physical and Chemical Reference Data, 1995, 24, 1401-1560.	1.9	100
152	Organic acids in hydrothermal solutions; standard molal thermodynamic properties of carboxylic acids and estimates of dissociation constants at high temperatures and pressures. Numerische Mathematik, 1995, 295, 496-580.	0.7	176
153	Rare earth elements in hydrothermal systems: Estimates of standard partial molal thermodynamic properties of aqueous complexes of the rare earth elements at high pressures and temperatures. Geochimica Et Cosmochimica Acta, 1995, 59, 4329-4350.	1.6	588
154	Metal-organic complexes in geochemical processes: Estimation of standard partial molal thermodynamic properties of aqueous complexes between metal cations and monovalent organic acid ligands at high pressures and temperatures. Geochimica Et Cosmochimica Acta, 1995, 59, 1497-1532.	1.6	104
155	Catalysing methane production. Nature, 1994, 368, 499-500.	13.7	16
156	Application of Thermodynamic Calculations to Geochemical Processes Involving Organic Acids. , 1994, , 270-318.		49
157	Hydrothermal Processing of Cometary Volatilesâ€”Applications to Triton. Icarus, 1993, 106, 464-477.	1.1	86
158	Petroleum, oil field waters, and authigenic mineral assemblages Are they in metastable equilibrium in hydrocarbon reservoirs. Geochimica Et Cosmochimica Acta, 1993, 57, 3295-3339.	1.6	261
159	Metal-organic complexes in geochemical processes: Calculation of standard partial molal thermodynamic properties of aqueous acetate complexes at high pressures and temperatures. Geochimica Et Cosmochimica Acta, 1993, 57, 4899-4922.	1.6	164
160	Aldehydes in hydrothermal solution: Standard partial molal thermodynamic properties and relative stabilities at high temperatures and pressures. Geochimica Et Cosmochimica Acta, 1993, 57, 3835-3846.	1.6	66
161	Survivability of organic matter at high temperatures: Implications for life Forward. Geochimica Et Cosmochimica Acta, 1993, 57, 3217.	1.6	0
162	Hydrothermal dehydration of aqueous organic compounds. Geochimica Et Cosmochimica Acta, 1993, 57, 3341-3349.	1.6	92

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163	Reply to the comment by S. L. Miller and J. L. Bada on â€œsummary and implications of reported amino acid concentrations in the Murchison meteoriteâ€• Geochimica Et Cosmochimica Acta, 1993, 57, 3475-3477.	1.6	3
164	Calculation of the thermodynamic properties of aqueous species at high pressures and temperatures. Effective electrostatic radii, dissociation constants and standard partial molal properties to 1000 Â°C and 5 kbar. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 803-826.	1.7	454
165	Estimation of standard partial molal entropies of aqueous ions at 25Â°C and 1 bar. Geochimica Et Cosmochimica Acta, 1992, 56, 3895-3908.	1.6	25
166	Stability of peptides in high-temperature aqueous solutions. Geochimica Et Cosmochimica Acta, 1992, 56, 3481-3491.	1.6	120
167	Chapter 5 Chemical environments of submarine hydrothermal systems. Origins of Life and Evolution of Biospheres, 1992, 22, 67-107.	0.8	191
168	Chapter 7 Hydrothermal organic synthesis experiments. Origins of Life and Evolution of Biospheres, 1992, 22, 135-146.	0.8	26
169	Chapter 10 Future research. Origins of Life and Evolution of Biospheres, 1992, 22, 181-190.	0.8	50
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