

Eric H Oelkers

List of Publications by Year in descending order

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218
papers

19,144
citations

10373

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docs citations

226
times ranked

11239
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#	ARTICLE	IF	CITATIONS
1	SUPCRT92: A software package for calculating the standard molal thermodynamic properties of minerals, gases, aqueous species, and reactions from 1 to 5000 bar and 0 to 1000°C. <i>Computers and Geosciences</i> , 1992, 18, 899-947.	2.0	2,224
2	The rainbow vent fluids (36°N, MAR): the influence of ultramafic rocks and phase separation on trace metal content in Mid-Atlantic Ridge hydrothermal fluids. <i>Chemical Geology</i> , 2002, 184, 37-48.	1.4	584
3	Rapid carbon mineralization for permanent disposal of anthropogenic carbon dioxide emissions. <i>Science</i> , 2016, 352, 1312-1314.	6.0	565
4	Mineral Carbonation of CO ₂ . <i>Elements</i> , 2008, 4, 333-337.	0.5	474
5	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 Å°C and 5 kbar. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 803-826.	1.7	454
6	The effect of aluminum, pH, and chemical affinity on the rates of aluminosilicate dissolution reactions. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 2011-2024.	1.6	433
7	General kinetic description of multioxide silicate mineral and glass dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3703-3719.	1.6	430
8	The mechanism, rates and consequences of basaltic glass dissolution: I. An experimental study of the dissolution rates of basaltic glass as a function of aqueous Al, Si and oxalic acid concentration at 25°C and pH = 3 and 11. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3671-3681.	1.6	408
9	Mechanism, rates, and consequences of basaltic glass dissolution: II. An experimental study of the dissolution rates of basaltic glass as a function of pH and temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3817-3832.	1.6	390
10	The dissolution rates of natural glasses as a function of their composition at pH 4 and 10.6, and temperatures from 25 to 74°C. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4843-4858.	1.6	321
11	Direct evidence of the feedback between climate and weathering. <i>Earth and Planetary Science Letters</i> , 2009, 277, 213-222.	1.8	310
12	Carbon dioxide storage through mineral carbonation. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 90-102.	12.2	307
13	Mineral sequestration of carbon dioxide in basalt: A pre-injection overview of the CarbFix project. <i>International Journal of Greenhouse Gas Control</i> , 2010, 4, 537-545.	2.3	294
14	Experimental study of anorthite dissolution and the relative mechanism of feldspar hydrolysis. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 5039-5053.	1.6	232
15	Magnesite growth rates as a function of temperature and saturation state. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5646-5657.	1.6	216
16	Are quartz dissolution rates proportional to B.E.T. surface areas?. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1059-1070.	1.6	213
17	Experimental study of K-feldspar dissolution rates as a function of chemical affinity at 150°C and pH 9. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4549-4560.	1.6	211
18	An experimental study of illite dissolution kinetics as a function of pH from 1.4 to 12.4 and temperature from 5 to 50°C. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3583-3594.	1.6	206

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19	Carbon Storage in Basalt. <i>Science</i> , 2014, 344, 373-374.	6.0	202
20	Carbon Dioxide Sequestration A Solution to a Global Problem. <i>Elements</i> , 2008, 4, 305-310.	0.5	198
21	An experimental study of calcite and limestone dissolution rates as a function of pH from ~ 1 to 3 and temperature from 25 to 80°C. <i>Chemical Geology</i> , 1998, 151, 199-214.	1.4	197
22	The effect of crystallinity on dissolution rates and CO ₂ consumption capacity of silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 858-870.	1.6	178
23	An experimental study of enstatite dissolution rates as a function of pH, temperature, and aqueous Mg and Si concentration, and the mechanism of pyroxene/pyroxenoid dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1219-1231.	1.6	172
24	The influence of terrigenous particulate material dissolution on ocean chemistry and global element cycles. <i>Chemical Geology</i> , 2015, 395, 50-66.	1.4	170
25	An experimental study of forsterite dissolution rates as a function of temperature and aqueous Mg and Si concentrations. <i>Chemical Geology</i> , 2001, 175, 485-494.	1.4	166
26	An experimental study of crystalline basalt dissolution from 2 \pm 1/2 pH \pm 1/2 11 and temperatures from 5 to 75 °C. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5496-5509.	1.6	158
27	An experimental study of the dissolution stoichiometry and rates of a natural monazite as a function of temperature from 50 to 230 °C and pH from 1.5 to 10. <i>Chemical Geology</i> , 2002, 191, 73-87.	1.4	157
28	Triple-ion anions and polynuclear complexing in supercritical electrolyte solutions. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 727-738.	1.6	154
29	Kinetics and mechanism of natural fluorapatite dissolution at 25°C and pH from 3 to 12. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5901-5912.	1.6	149
30	Calculation of the thermodynamic and transport properties of aqueous species at high pressures and temperatures: Aqueous tracer diffusion coefficients of ions to 1000°C and 5 kb. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 63-85.	1.6	145
31	Experimental determination of the dissolution rates of calcite, aragonite, and bivalves. <i>Chemical Geology</i> , 2005, 216, 59-77.	1.4	144
32	Phosphate Mineral Reactivity and Global Sustainability. <i>Elements</i> , 2008, 4, 83-87.	0.5	138
33	Experimental determination of synthetic NdPO ₄ monazite end-member solubility in water from 21°C to 300°C: implications for rare earth element mobility in crustal fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2207-2221.	1.6	130
34	Phosphates and Nuclear Waste Storage. <i>Elements</i> , 2008, 4, 113-116.	0.5	129
35	An experimental study of dolomite dissolution rates as a function of pH from ~ 0.5 to 5 and temperature from 25 to 80°C. <i>Chemical Geology</i> , 1999, 157, 13-26.	1.4	123
36	Can Dawsonite Permanently Trap CO ₂ ?. <i>Environmental Science & Technology</i> , 2005, 39, 8281-8287.	4.6	123

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37	The effect of particulate dissolution on the neodymium (Nd) isotope and Rare Earth Element (REE) composition of seawater. <i>Earth and Planetary Science Letters</i> , 2013, 369-370, 138-147.	1.8	122
38	An experimental study of the dissolution mechanism and rates of muscovite. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4948-4961.	1.6	119
39	Olivine dissolution rates: A critical review. <i>Chemical Geology</i> , 2018, 500, 1-19.	1.4	114
40	Calculation of activity coefficients and degrees of formation of neutral ion pairs in supercritical electrolyte solutions. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 1235-1251.	1.6	113
41	The surface chemistry of multi-oxide silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4617-4634.	1.6	110
42	Surface reaction versus diffusion control of mineral dissolution and growth rates in geochemical processes. <i>Chemical Geology</i> , 1989, 78, 357-380.	1.4	109
43	How do mineral coatings affect dissolution rates? An experimental study of coupled CaCO ₃ dissolution and CdCO ₃ precipitation. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5459-5476.	1.6	109
44	An experimental study of magnesite precipitation rates at neutral to alkaline conditions and 100–200°C as a function of pH, aqueous solution composition and chemical affinity. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 83, 93-109.	1.6	105
45	Role of river-suspended material in the global carbon cycle. <i>Geology</i> , 2006, 34, 49.	2.0	103
46	The CarbFix Pilot Project—Storing carbon dioxide in basalt. <i>Energy Procedia</i> , 2011, 4, 5579-5585.	1.8	101
47	Isotopic fractionation during congruent dissolution, precipitation and at equilibrium: Evidence from Mg isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 170-183.	1.6	101
48	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 1000°C. <i>Journal of Physical and Chemical Reference Data</i> , 1995, 24, 1401-1560.	1.9	100
49	Permanent Carbon Dioxide Storage into Basalt: The CarbFix Pilot Project, Iceland. <i>Energy Procedia</i> , 2009, 1, 3641-3646.	1.8	99
50	The effect of fluoride on the dissolution rates of natural glasses at pH 4 and 25°C. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4571-4582.	1.6	96
51	The geology and water chemistry of the Hellisheidi, SW-Iceland carbon storage site. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 399-418.	2.3	96
52	Solving the carbon-dioxide buoyancy challenge: The design and field testing of a dissolved CO ₂ injection system. <i>International Journal of Greenhouse Gas Control</i> , 2015, 37, 213-219.	2.3	96
53	Experimental studies of halite dissolution kinetics, 1 The effect of saturation state and the presence of trace metals. <i>Chemical Geology</i> , 1997, 137, 201-219.	1.4	93
54	Magnesium isotope fractionation during hydrous magnesium carbonate precipitation with and without cyanobacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 76, 161-174.	1.6	93

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55	The chemistry and saturation states of subsurface fluids during the in situ mineralisation of CO ₂ and H ₂ S at the CarbFix site in SW-Iceland. <i>International Journal of Greenhouse Gas Control</i> , 2017, 58, 87-102.	2.3	93
56	Kinetic and thermodynamic properties of moganite, a novel silica polymorph. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1193-1204.	1.6	92
57	Dissolution of basalts and peridotite in seawater, in the presence of ligands, and CO ₂ : Implications for mineral sequestration of carbon dioxide. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5510-5525.	1.6	92
58	Does organic acid adsorption affect alkali-feldspar dissolution rates?. <i>Chemical Geology</i> , 1998, 151, 235-245.	1.4	90
59	Do clay mineral dissolution rates reach steady state?. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1997-2006.	1.6	90
60	The dissolution kinetics and apparent solubility of natural apatite in closed reactors at temperatures from 5 to 50°C and pH from 1 to 6. <i>Chemical Geology</i> , 2007, 244, 554-568.	1.4	87
61	Surface charge and zeta-potential of metabolically active and dead cyanobacteria. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 317-325.	5.0	87
62	Chemical evolution of the Mt. Hekla, Iceland, groundwaters: A natural analogue for CO ₂ sequestration in basaltic rocks. <i>Applied Geochemistry</i> , 2009, 24, 463-474.	1.4	87
63	The effect of pH, grain size, and organic ligands on biotite weathering rates. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 164, 127-145.	1.6	86
64	Using Mg Isotopes to Trace Cyanobacterially Mediated Magnesium Carbonate Precipitation in Alkaline Lakes. <i>Aquatic Geochemistry</i> , 2013, 19, 1-24.	1.5	85
65	The control of carbonate mineral Mg isotope composition by aqueous speciation: Theoretical and experimental modeling. <i>Chemical Geology</i> , 2016, 445, 120-134.	1.4	84
66	Ocean margins: The missing term in oceanic element budgets?. <i>Eos</i> , 2011, 92, 217-218.	0.1	80
67	The Dissolution Rates of SiO ₂ Nanoparticles As a Function of Particle Size. <i>Environmental Science & Technology</i> , 2012, 46, 4909-4915.	4.6	80
68	The rapid and cost-effective capture and subsurface mineral storage of carbon and sulfur at the CarbFix2 site. <i>International Journal of Greenhouse Gas Control</i> , 2018, 79, 117-126.	2.3	80
69	CarbFix2: CO ₂ and H ₂ S mineralization during 3.5 years of continuous injection into basaltic rocks at more than 250°C. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 279, 45-66.	1.6	79
70	Inter-mineral Mg isotope fractionation during hydrothermal ultramafic rock alteration – Implications for the global Mg-cycle. <i>Earth and Planetary Science Letters</i> , 2014, 392, 166-176.	1.8	78
71	Using stable Mg isotopes to distinguish dolomite formation mechanisms: A case study from the Peru Margin. <i>Chemical Geology</i> , 2014, 385, 84-91.	1.4	76
72	Do carbonate precipitates affect dissolution kinetics? 1: Basaltic glass. <i>Chemical Geology</i> , 2011, 284, 306-316.	1.4	74

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73	Experimental investigation of the effect of dissolution on sandstone permeability, porosity, and reactive surface area. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 805-817.	1.6	72
74	An experimental study of basaltic glassâ€“H ₂ Oâ€“CO ₂ interaction at 22 and 50Â°C: Implications for subsurface storage of CO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 123-145.	1.6	72
75	Reaction path modelling of in-situ mineralisation of CO ₂ at the CarbFix site at Hellisheidi, SW-Iceland. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 348-366.	1.6	72
76	Solubility of the hydrated Mg-carbonates nesquehonite and dypingite from 5 to 35Â°C: Implications for CO ₂ storage and the relative stability of Mg-carbonates. <i>Chemical Geology</i> , 2019, 504, 123-135.	1.4	70
77	Experimental determination of plagioclase dissolution rates as a function of its composition and pH at 22Â°C. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 154-172.	1.6	69
78	Experimental studies of REE fractionation during waterâ€“mineral interactions: REE release rates during apatite dissolution from pH 2.8 to 9.2. <i>Chemical Geology</i> , 2005, 222, 168-182.	1.4	68
79	An experimental study of the interaction of basaltic riverine particulate material and seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 108-120.	1.6	68
80	Rapid CO ₂ mineralisation into calcite at the CarbFix storage site quantified using calcium isotopes. <i>Nature Communications</i> , 2019, 10, 1983.	5.8	68
81	Water: Is There a Global Crisis?. <i>Elements</i> , 2011, 7, 157-162.	0.5	67
82	Riverine particulate material dissolution as a significant flux of strontium to the oceans. <i>Earth and Planetary Science Letters</i> , 2012, 355-356, 51-59.	1.8	66
83	The surface chemistry and structure of acid-leached albite: New insights on the dissolution mechanism of the alkali feldspars. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3013-3018.	1.6	65
84	An experimental study of calcite dissolution rates at acidic conditions and 25 Â°C in the presence of NaPO ₃ and MgCl ₂ . <i>Chemical Geology</i> , 2002, 190, 291-302.	1.4	64
85	Experimental determination of barite dissolution and precipitation rates as a function of temperature and aqueous fluid composition. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 194, 193-210.	1.6	64
86	An experimental study of the reactive surface area of the Fontainebleau sandstone as a function of porosity, permeability, and fluid flow rate. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3525-3534.	1.6	63
87	Calculation of the transport properties of aqueous species at pressures to 5 KB and temperatures to 1000;½C. <i>Journal of Solution Chemistry</i> , 1989, 18, 601-640.	0.6	62
88	Dissolution rates of talc as a function of solution composition, pH and temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3446-3457.	1.6	62
89	The role of riverine particulate material on the global cycles of the elements. <i>Applied Geochemistry</i> , 2011, 26, S365-S369.	1.4	62
90	Calculation of the thermodynamic and transport properties of aqueous species at high pressures and temperatures: dissociation constants for supercritical alkali metal halides at temperatures from 400 to 800.degree.C and pressures from 500 to 4000 bar. <i>The Journal of Physical Chemistry</i> , 1988, 92, 1631-1639.	2.9	58

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91	Experimental study of kyanite dissolution rates as a function of chemical affinity and solution composition. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 785-797.	1.6	58
92	Making diagenesis obey thermodynamics and kinetics: the case of quartz cementation in sandstones from offshore mid-Norway. <i>Applied Geochemistry</i> , 2000, 15, 295-309.	1.4	56
93	Speciation of tin (Sn ²⁺ and Sn ⁴⁺) in aqueous Cl solutions from 25°C to 350°C: an in situ EXAFS study. <i>Chemical Geology</i> , 2000, 167, 169-176.	1.4	56
94	Fluorapatite surface composition in aqueous solution deduced from potentiometric, electrokinetic, and solubility measurements, and spectroscopic observations. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5888-5900.	1.6	55
95	Precipitation of Iron and Aluminum Phosphates Directly from Aqueous Solution as a Function of Temperature from 50 to 200 °C. <i>Crystal Growth and Design</i> , 2009, 9, 5197-5205.	1.4	55
96	The experimental determination of REE partition coefficients in the water-calcite system. <i>Chemical Geology</i> , 2017, 462, 30-43.	1.4	55
97	High reactivity of deep biota under anthropogenic CO ₂ injection into basalt. <i>Nature Communications</i> , 2017, 8, 1063.	5.8	55
98	Evaluation and refinement of thermodynamic databases for mineral carbonation. <i>Energy Procedia</i> , 2018, 146, 81-91.	1.8	54
99	Calculation of diffusion coefficients for aqueous organic species at temperatures from 0 to 350 °C. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 3515-3529.	1.6	53
100	Rapid solubility and mineral storage of CO ₂ in basalt. <i>Energy Procedia</i> , 2014, 63, 4561-4574.	1.8	52
101	Carbon sequestration via enhanced weathering of peridotites and basalts in seawater. <i>Applied Geochemistry</i> , 2018, 91, 197-207.	1.4	52
102	A brief history of CarbFix: Challenges and victories of the project's pilot phase. <i>Energy Procedia</i> , 2018, 146, 103-114.	1.8	52
103	Can accurate kinetic laws be created to describe chemical weathering?. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 568-585.	0.4	51
104	Experimental determination of Li isotope behaviour during basalt weathering. <i>Chemical Geology</i> , 2019, 517, 34-43.	1.4	50
105	Does temperature or runoff control the feedback between chemical denudation and climate? Insights from NE Iceland. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 107, 65-81.	1.6	49
106	Aqueous speciation of yttrium at temperatures from 25 to 340°C at P _{sat} : an in situ EXAFS study. <i>Chemical Geology</i> , 1998, 151, 29-39.	1.4	47
107	An experimental study of the effect of aqueous fluoride on quartz and alkali-feldspar dissolution rates. <i>Chemical Geology</i> , 2004, 205, 155-167.	1.4	47
108	Do photosynthetic bacteria have a protective mechanism against carbonate precipitation at their surfaces?. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1329-1337.	1.6	47

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109	Do carbonate precipitates affect dissolution kinetics?. <i>Chemical Geology</i> , 2013, 337-338, 56-66.	1.4	47
110	Calculation of dissociation constants and the relative stabilities of polynuclear clusters of 1:1 electrolytes in hydrothermal solutions at supercritical pressures and temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 2673-2697.	1.6	45
111	An experimental study of dolomite dissolution rates at 80°C as a function of chemical affinity and solution composition. <i>Chemical Geology</i> , 2007, 242, 509-517.	1.4	45
112	Quantifying the impact of riverine particulate dissolution in seawater on ocean chemistry. <i>Earth and Planetary Science Letters</i> , 2014, 395, 91-100.	1.8	45
113	Interdiffusion with multiple precipitation/dissolution reactions: Transient model and the steady-state limit. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 1951-1966.	1.6	44
114	The effect of aqueous sulphate on basaltic glass dissolution rates. <i>Chemical Geology</i> , 2010, 277, 345-354.	1.4	44
115	Do organic ligands affect calcite dissolution rates?. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1799-1813.	1.6	43
116	Experimental determination of the solubility product of dolomite at 50°C. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 224, 262-275.	1.6	43
117	Novel laboratory investigation of huff-n-puff gas injection for shale oils under realistic reservoir conditions. <i>Fuel</i> , 2021, 284, 118950.	3.4	43
118	Antimony transport in hydrothermal solutions: an EXAFS study of antimony(V) complexation in alkaline sulfide and sulfide-chloride brines at temperatures from 25°C to 300°C at P _{sat} . <i>Chemical Geology</i> , 2000, 167, 161-167.	1.4	42
119	Spatial and temporal variations of base cation release from chemical weathering on a hillslope scale. <i>Chemical Geology</i> , 2016, 441, 1-13.	1.4	41
120	The effect of permafrost, vegetation, and lithology on Mg and Si isotope composition of the Yenisey River and its tributaries at the end of the spring flood. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 191, 32-46.	1.6	41
121	The role of silicate surfaces on calcite precipitation kinetics. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 231-250.	1.6	40
122	An Experimental Investigation of the Effect of <i>Bacillus megaterium</i> on Apatite Dissolution. <i>Geomicrobiology Journal</i> , 2006, 23, 177-182.	1.0	39
123	Experimental quantification of the effect of Mg on calcite aqueous fluid oxygen isotope fractionation. <i>Chemical Geology</i> , 2012, 310-311, 97-105.	1.4	39
124	Riverine particulate material dissolution in seawater and its implications for the global cycles of the elements. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 646-651.	0.4	39
125	Dissolution rates of actinolite and chlorite from a whole-rock experimental study of metabasalt dissolution from 2 to 12 at 25°C. <i>Chemical Geology</i> , 2014, 390, 100-108.	1.4	39
126	The direct precipitation of rhabdophane (RE ₂ PO ₄ ·nH ₂ O) nano-rods from acidic aqueous solutions at 5-100°C. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4049-4062.	0.8	38

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127	The efficient long-term inhibition of forsterite dissolution by common soil bacteria and fungi at Earth surface conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 168, 222-235.	1.6	38
128	An EXAFS spectroscopic study of aqueous antimony(III)-chloride complexation at temperatures from 25 to 250Å°C. <i>Chemical Geology</i> , 1998, 151, 21-27.	1.4	37
129	An experimental study of magnesite dissolution rates at neutral to alkaline conditions and 150 and 200Å°C as a function of pH, total dissolved carbonate concentration, and chemical affinity. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6344-6356.	1.6	37
130	Experimental determination of rhyolitic glass dissolution rates at 40â€“200Å°C and 2pH10.1. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 100, 251-263.	1.6	37
131	Experimental determination of aqueous sodium-acetate dissociation constants at temperatures from 20 to 240Å°C. <i>Chemical Geology</i> , 1998, 151, 69-84.	1.4	36
132	Dissolution of diopside and basaltic glass: the effect of carbonate coating. <i>Mineralogical Magazine</i> , 2008, 72, 135-139.	0.6	36
133	Biotite surface chemistry as a function of aqueous fluid composition. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 58-70.	1.6	35
134	Do organic ligands affect forsterite dissolution rates?. <i>Applied Geochemistry</i> , 2013, 39, 69-77.	1.4	33
135	An experimental study of the dissolution rates of Nd-britholite, an apatite-structured actinide-bearing waste storage host analogue. <i>Journal of Nuclear Materials</i> , 2006, 354, 14-27.	1.3	31
136	The temporal evolution of magnesium isotope fractionation during hydromagnesite dissolution, precipitation, and at equilibrium. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 36-49.	1.6	31
137	Does the presence of heterotrophic bacterium <i>Pseudomonas reactans</i> affect basaltic glass dissolution rates?. <i>Chemical Geology</i> , 2012, 296-297, 1-18.	1.4	30
138	Convective mixing fingers and chemistry interaction in carbon storage. <i>International Journal of Greenhouse Gas Control</i> , 2017, 58, 52-61.	2.3	30
139	Ca and Mg isotope fractionation during the stoichiometric dissolution of dolomite at temperatures from 51 to 126 Å°C and 5 bars CO ₂ pressure. <i>Chemical Geology</i> , 2017, 467, 76-88.	1.4	30
140	The rapid resetting of the Ca isotopic signatures of calcite at ambient temperature during its congruent dissolution, precipitation, and at equilibrium. <i>Chemical Geology</i> , 2019, 512, 1-10.	1.4	30
141	A comprehensive and internally consistent mineral dissolution rate database: Part I: Primary silicate minerals and glasses. <i>Chemical Geology</i> , 2022, 597, 120807.	1.4	30
142	Phosphate mineral reactivity: from global cycles to sustainable development. <i>Mineralogical Magazine</i> , 2008, 72, 337-340.	0.6	29
143	Direct evidence of the feedback between climate and nutrient, major, and trace element transport to the oceans. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 166, 249-266.	1.6	29
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