

Edwin A Schauble

List of Publications by Year in descending order

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38
papers

5,072
citations

159358

30
h-index

315357

38
g-index

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docs citations

38
times ranked

3880
citing authors

#	ARTICLE	IF	CITATIONS
1	¹³ C- ¹⁸ O bonds in carbonate minerals: A new kind of paleothermometer. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1439-1456.	1.6	707
2	Role of nuclear volume in driving equilibrium stable isotope fractionation of mercury, thallium, and other very heavy elements. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2170-2189.	1.6	405
3	Preferential formation of ¹³ C- ¹⁸ O bonds in carbonate minerals, estimated using first-principles lattice dynamics. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2510-2529.	1.6	395
4	¹⁸ O/ ¹³ C/ ¹⁶ O in Earth's atmosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4767-4777.	1.6	291
5	Equilibrium thermodynamics of multiply substituted isotopologues of molecular gases. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4779-4797.	1.6	279
6	Silicon in the Earth's core. <i>Nature</i> , 2007, 447, 1102-1106.	13.7	278
7	First-principles estimates of equilibrium magnesium isotope fractionation in silicate, oxide, carbonate and hexaaquamagnesium(2+) crystals. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 844-869.	1.6	225
8	Mass Fractionation Laws, Mass-Independent Effects, and Isotopic Anomalies. <i>Annual Review of Earth and Planetary Sciences</i> , 2016, 44, 709-783.	4.6	190
9	Theoretical estimates of equilibrium chromium-isotope fractionations. <i>Chemical Geology</i> , 2004, 205, 99-114.	1.4	165
10	High-temperature equilibrium isotope fractionation of non-traditional stable isotopes: Experiments, theory, and applications. <i>Chemical Geology</i> , 2015, 395, 176-195.	1.4	163
11	Theoretical estimates of equilibrium chlorine-isotope fractionations. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3267-3281.	1.6	143
12	Body temperatures of modern and extinct vertebrates from ¹³ C- ¹⁸ O bond abundances in bioapatite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10377-10382.	3.3	138
13	Estimation of nuclear volume dependent fractionation of mercury isotopes in equilibrium liquid-vapor evaporation experiments. <i>Chemical Geology</i> , 2013, 336, 5-12.	1.4	138
14	Theoretical constraints on the effects of pH, salinity, and temperature on clumped isotope signatures of dissolved inorganic carbon species and precipitating carbonate minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 610-652.	1.6	123
15	Experimentally determined Si isotope fractionation between silicate and Fe metal and implications for Earth's core formation. <i>Earth and Planetary Science Letters</i> , 2009, 288, 228-234.	1.8	115
16	Beyond temperature: Clumped isotope signatures in dissolved inorganic carbon species and the influence of solution chemistry on carbonate mineral composition. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 166, 344-371.	1.6	104
17	Frontiers of stable isotope geoscience. <i>Chemical Geology</i> , 2014, 372, 119-143.	1.4	99
18	A Stable Isotope Study of Anorogenic Magmatism in East Central Asia. <i>Journal of Petrology</i> , 1996, 37, 1063-1095.	1.1	97

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19	Modeling the effects of bond environment on equilibrium iron isotope fractionation in ferric aquo-chloro complexes. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1939-1958.	1.6	97
20	Isotopic Evidence of Cr Partitioning into Earth's Core. <i>Science</i> , 2011, 331, 1417-1420.	6.0	92
21	Metal-silicate silicon isotope fractionation in enstatite meteorites and constraints on Earth's core formation. <i>Earth and Planetary Science Letters</i> , 2010, 295, 487-496.	1.8	90
22	Silicon isotope fractionation in silicate minerals: Insights from first-principles models of phyllosilicates, albite and pyrope. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 134, 137-154.	1.6	85
23	Calculation of equilibrium stable isotope partition function ratios for aqueous zinc complexes and metallic zinc. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 769-783.	1.6	83
24	Equilibrium Fractionation of Non-traditional Isotopes: a Molecular Modeling Perspective. <i>Reviews in Mineralogy and Geochemistry</i> , 2017, 82, 27-63.	2.2	71
25	Effects of changing solution chemistry on Fe ³⁺ /Fe ²⁺ isotope fractionation in aqueous Fe-Cl solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6669-6689.	1.6	66
26	Polymerization of aqueous silica in H ₂ O-K ₂ O solutions at 25-200°C and 1bar to 20kbar. <i>Chemical Geology</i> , 2011, 283, 161-170.	1.4	59
27	Kinetic and equilibrium Ca isotope effects in high-T rocks and minerals. <i>Earth and Planetary Science Letters</i> , 2019, 517, 71-82.	1.8	59
28	Characterization of calcium isotopes in natural and synthetic barite. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5641-5658.	1.6	57
29	Experimental studies of equilibrium iron isotope fractionation in ferric aquo-chloro complexes. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2366-2381.	1.6	51
30	Stable strontium isotope fractionation in synthetic barite. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 147, 58-75.	1.6	43
31	Extreme enrichment in atmospheric ¹⁵ N. <i>Science Advances</i> , 2017, 3, eaao6741.	4.7	31
32	Modeling nuclear volume isotope effects in crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17714-17719.	3.3	29
33	Theoretical modeling of rhenium isotope fractionation, natural variations across a black shale weathering profile, and potential as a paleoredox proxy. <i>Earth and Planetary Science Letters</i> , 2015, 430, 339-348.	1.8	25
34	Mass Dependence of Equilibrium Oxygen Isotope Fractionation in Carbonate, Nitrate, Oxide, Perchlorate, Phosphate, Silicate, and Sulfate Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , 2021, 86, 137-178.	2.2	23
35	A model for ¹² CH ₂ D ₂ and ¹³ CH ₃ D as complementary tracers for the budget of atmospheric CH ₄ . <i>Global Biogeochemical Cycles</i> , 2017, 31, 1387-1407.	1.9	19
36	Theoretical constraints on the effects of added cations on clumped, oxygen, and carbon isotope signatures of dissolved inorganic carbon species and minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 496-539.	1.6	17

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37	Stable Te isotope fractionation in tellurium-bearing minerals from precious metal hydrothermal ore deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 202, 215-230.	1.6	15
38	Spectroscopic and X-ray diffraction investigation of the behavior of hanksite and tychite at high pressures, and a model for the compressibility of sulfate minerals. <i>American Mineralogist</i> , 2013, 98, 1543-1549.	0.9	5