

# Edwin A Schauble

## List of Publications by Year in descending order

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38  
papers

5,072  
citations

159585

30  
h-index

315739

38  
g-index

38  
all docs

38  
docs citations

38  
times ranked

3880  
citing authors

#	ARTICLE	IF	CITATIONS
1	<sup>13</sup> C- <sup>18</sup> O bonds in carbonate minerals: A new kind of paleothermometer. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1439-1456.	3.9	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.	3.9	405
3	Preferential formation of <sup>13</sup> C- <sup>18</sup> O bonds in carbonate minerals, estimated using first-principles lattice dynamics. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2510-2529.	3.9	395
4	<sup>18</sup> O/ <sup>13</sup> C/ <sup>16</sup> O in Earth's atmosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4767-4777.	3.9	291
5	Equilibrium thermodynamics of multiply substituted isotopologues of molecular gases. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4779-4797.	3.9	279
6	Silicon in the Earth's core. <i>Nature</i> , 2007, 447, 1102-1106.	27.8	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.	3.9	225
8	Mass Fractionation Laws, Mass-Independent Effects, and Isotopic Anomalies. <i>Annual Review of Earth and Planetary Sciences</i> , 2016, 44, 709-783.	11.0	190
9	Theoretical estimates of equilibrium chromium-isotope fractionations. <i>Chemical Geology</i> , 2004, 205, 99-114.	3.3	165
10	High-temperature equilibrium isotope fractionation of non-traditional stable isotopes: Experiments, theory, and applications. <i>Chemical Geology</i> , 2015, 395, 176-195.	3.3	163
11	Theoretical estimates of equilibrium chlorine-isotope fractionations. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3267-3281.	3.9	143
12	Body temperatures of modern and extinct vertebrates from <sup>13</sup> C- <sup>18</sup> O bond abundances in bioapatite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10377-10382.	7.1	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.	3.3	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.	3.9	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.	4.4	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.	3.9	104
17	Frontiers of stable isotope geoscience. <i>Chemical Geology</i> , 2014, 372, 119-143.	3.3	99
18	A Stable Isotope Study of Anorogenic Magmatism in East Central Asia. <i>Journal of Petrology</i> , 1996, 37, 1063-1095.	2.8	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.	3.9	97
20	Isotopic Evidence of Cr Partitioning into Earth's Core. <i>Science</i> , 2011, 331, 1417-1420.	12.6	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.	4.4	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.	3.9	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.	3.9	83
24	Equilibrium Fractionation of Non-traditional Isotopes: a Molecular Modeling Perspective. <i>Reviews in Mineralogy and Geochemistry</i> , 2017, 82, 27-63.	4.8	71
25	Effects of changing solution chemistry on Fe <sup>3+</sup> /Fe <sup>2+</sup> isotope fractionation in aqueous Fe-Cl solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6669-6689.	3.9	66
26	Polymerization of aqueous silica in H <sub>2</sub> O-K <sub>2</sub> O solutions at 25-200°C and 1bar to 20kbar. <i>Chemical Geology</i> , 2011, 283, 161-170.	3.3	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.	4.4	59
28	Characterization of calcium isotopes in natural and synthetic barite. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5641-5658.	3.9	57
29	Experimental studies of equilibrium iron isotope fractionation in ferric aquo-chloro complexes. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2366-2381.	3.9	51
30	Stable strontium isotope fractionation in synthetic barite. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 147, 58-75.	3.9	43
31	Extreme enrichment in atmospheric <sup>15</sup> N. <i>Science Advances</i> , 2017, 3, eaao6741.	10.3	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.	7.1	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.	4.4	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.	4.8	23
35	A model for <sup>12</sup> CH <sub>2</sub> D <sub>2</sub> and <sup>13</sup> CH <sub>3</sub> D as complementary tracers for the budget of atmospheric CH <sub>4</sub> . <i>Global Biogeochemical Cycles</i> , 2017, 31, 1387-1407.	4.9	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.	3.9	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.	3.9	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.	1.9	5