

# Daniel A Stolper

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,182  
citations

430874

18  
h-index

610901

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerobic growth at nanomolar oxygen concentrations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18755-18760.	7.1	178
2	A record of deep-ocean dissolved O <sub>2</sub> from the oxidation state of iron in submarine basalts. <i>Nature</i> , 2018, 553, 323-327.	27.8	124
3	Methane clumped isotopes: Progress and potential for a new isotopic tracer. <i>Organic Geochemistry</i> , 2017, 113, 262-282.	1.8	100
4	Frontiers of stable isotope geoscience. <i>Chemical Geology</i> , 2014, 372, 119-143.	3.3	99
5	Fluctuations in late Neoproterozoic atmospheric oxidation $\delta^{13}\text{C}$ Cr isotope chemostratigraphy and iron speciation of the late Ediacaran lower Arroyo del Soldado Group (Uruguay). <i>Gondwana Research</i> , 2013, 23, 797-811.	6.0	88
6	A high-resolution gas-source isotope ratio mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2013, 335, 45-56.	1.5	83
7	Methane on Mars and Habitability: Challenges and Responses. <i>Astrobiology</i> , 2018, 18, 1221-1242.	3.0	50
8	Neoproterozoic to early Phanerozoic rise in island arc redox state due to deep ocean oxygenation and increased marine sulfate levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8746-8755.	7.1	50
9	Nitrogen isotope evidence for expanded ocean suboxia in the early Cenozoic. <i>Science</i> , 2019, 364, 386-389.	12.6	43
10	Comparison of Experimental vs Theoretical Abundances of $^{13}\text{C}$ and $^{12}\text{C}$ for Isotopically Equilibrated Systems from 1 to 500 $^{\circ}\text{C}$ . <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2747-2764.	2.7	41
11	Modeling the effects of diagenesis on carbonate clumped-isotope values in deep- and shallow-water settings. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 227, 264-291.	3.9	38
12	Deciphering the diagenetic history of the El Abra Formation of eastern Mexico using reordered clumped isotope temperatures and U-Pb dating. <i>Bulletin of the Geological Society of America</i> , 2018, 130, 617-629.	3.3	36
13	The utility of methane clumped isotopes to constrain the origins of methane in natural gas accumulations. <i>Geological Society Special Publication</i> , 2018, 468, 23-52.	1.3	33
14	Equilibrium and non-equilibrium controls on the abundances of clumped isotopologues of methane during thermogenic formation in laboratory experiments: Implications for the chemistry of pyrolysis and the origins of natural gases. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 223, 159-174.	3.9	32
15	Kinetics of CO <sub>2</sub> (g) $\leftrightarrow$ H <sub>2</sub> O(l) isotopic exchange, including mass 47 isotopologues. <i>Chemical Geology</i> , 2015, 395, 1-10.	3.3	28
16	Clumped Isotopes Link Older Carbon Substrates With Slower Rates of Methanogenesis in Northern Lakes. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086756.	4.0	27
17	Influence of water on clumped-isotope bond reordering kinetics in calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 224, 42-63.	3.9	26
18	Experimental and theoretical determinations of hydrogen isotopic equilibrium in the system CH <sub>4</sub> H <sub>2</sub> O from 3 to 200 $^{\circ}\text{C}$ . <i>Geochimica Et Cosmochimica Acta</i> , 2021, 314, 223-269.	3.9	23

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19	Paleoecology and paleoceanography of the Athel silicilyte, Ediacaran–Cambrian boundary, Sultanate of Oman. <i>Geobiology</i> , 2017, 15, 401-426.	2.4	20
20	Constraints on the formation and diagenesis of phosphorites using carbonate clumped isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 181, 238-259.	3.9	18
21	Effects of temperature and carbon source on the isotopic fractionations associated with O <sub>2</sub> respiration for 17O/16O and 18O/16O ratios in <i>E. coli</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2018, 240, 152-172.	3.9	18
22	Final inversion of the Midcontinent Rift during the Rigolet Phase of the Grenvillian Orogeny. <i>Geology</i> , 2022, 50, 547-551.	4.4	14
23	Clumped 13CH <sub>2</sub> D and 12CHD <sub>2</sub> compositions of methyl groups from wood and synthetic monomers: Methods, experimental and theoretical calibrations, and initial results. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 297, 233-275.	3.9	8
24	The role of the solid earth in regulating atmospheric O <sub>2</sub> levels. <i>Numerische Mathematik</i> , 2021, 321, 1381-1444.	1.4	5
25	Acceptance of the 2020 F.W. Clarke Award to Daniel Stolper. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 298, 246-247.	3.9	0
26	Constraints on Early Paleozoic deep-ocean oxygen concentrations from the iron geochemistry of the Bay of Islands ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 0, , .	2.5	0