

# Itay Halevy

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,787  
citations

236925

25  
h-index

175258

52  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2939  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of sulfate reduction rates on the Phanerozoic sulfur isotope record. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11244-11249.	7.1	279
2	The geologic history of seawater pH. Science, 2017, 355, 1069-1071.	12.6	234
3	Intracellular metabolite levels shape sulfur isotope fractionation during microbial sulfate respiration. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18116-18125.	7.1	210
4	A Sulfur Dioxide Climate Feedback on Early Mars. Science, 2007, 318, 1903-1907.	12.6	168
5	A key role for green rust in the Precambrian oceans and the genesis of iron formations. Nature Geoscience, 2017, 10, 135-139.	12.9	163
6	Episodic warming of early Mars by punctuated volcanism. Nature Geoscience, 2014, 7, 865-868.	12.9	147
7	Sulfate Burial Constraints on the Phanerozoic Sulfur Cycle. Science, 2012, 337, 331-334.	12.6	130
8	Explaining the Structure of the Archean Mass-Independent Sulfur Isotope Record. Science, 2010, 329, 204-207.	12.6	128
9	Frontiers of stable isotope geoscience. Chemical Geology, 2014, 372, 119-143.	3.3	99
10	Seasonal melting and the formation of sedimentary rocks on Mars, with predictions for the Gale Crater mound. Icarus, 2013, 223, 181-210.	2.5	95
11	Carbonates in the Martian meteorite Allan Hills 84001 formed at $18 \pm 4^\circ\text{C}$ in a near-surface aqueous environment. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16895-16899.	7.1	94
12	Biologically induced initiation of Neoproterozoic snowball-Earth events. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15091-15096.	7.1	90
13	The geologic history of seawater oxygen isotopes from marine iron oxides. Science, 2019, 365, 469-473.	12.6	81
14	Dynamics of pyrite formation and organic matter sulfurization in organic-rich carbonate sediments. Geochimica Et Cosmochimica Acta, 2018, 241, 219-239.	3.9	75
15	Production, preservation, and biological processing of mass-independent sulfur isotope fractionation in the Archean surface environment. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17644-17649.	7.1	74
16	Greenhouse warming by nitrous oxide and methane in the Proterozoic Eon. Geobiology, 2011, 9, 313-320.	2.4	64
17	Radiative transfer in $\text{CO}_2$ -rich paleoatmospheres. Journal of Geophysical Research, 2009, 114, .	3.3	55
18	Strong local, not global, controls on marine pyrite sulfur isotopes. Science Advances, 2021, 7, .	10.3	43

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19	Dust Aerosol Important for Snowball Earth Deglaciation. <i>Journal of Climate</i> , 2010, 23, 4121-4132.	3.2	38
20	Nutrient ratios in marine particulate organic matter are predicted by the population structure of well-adapted phytoplankton. <i>Science Advances</i> , 2020, 6, eaaw9371.	10.3	38
21	Electron carriers in microbial sulfate reduction inferred from experimental and environmental sulfur isotope fractionations. <i>ISME Journal</i> , 2018, 12, 495-507.	9.8	36
22	Sedimentary pyrite sulfur isotopes track the local dynamics of the Peruvian oxygen minimum zone. <i>Nature Communications</i> , 2021, 12, 4403.	12.8	34
23	New constraints on kinetic isotope effects during CO <sub>2</sub> (aq) hydration and hydroxylation: Revisiting theoretical and experimental data. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 214, 246-265.	3.9	31
24	Sulfur isotope fractionation between aqueous and carbonate-associated sulfate in abiotic calcite and aragonite. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 317-339.	3.9	28
25	Sulfur dioxide inhibits calcium carbonate precipitation: Implications for early Mars and Earth. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	27
26	Reconstructing Neoproterozoic seawater chemistry from early diagenetic dolomite. <i>Geology</i> , 2021, 49, 442-446.	4.4	26
27	The fate of fluviially-deposited organic carbon during transient floodplain storage. <i>Earth and Planetary Science Letters</i> , 2021, 561, 116822.	4.4	23
28	Formation of green rust and elemental sulfur in an analogue for oxygenated ferro-euxinic transition zones of Precambrian oceans. <i>Geology</i> , 2019, 47, 211-214.	4.4	22
29	Deciphering the atmospheric signal in marine sulfate oxygen isotope composition. <i>Earth and Planetary Science Letters</i> , 2019, 522, 12-19.	4.4	18
30	Oxygen isotope effects during microbial sulfate reduction: applications to sediment cell abundances. <i>ISME Journal</i> , 2020, 14, 1508-1519.	9.8	17
31	Theoretical estimates of equilibrium carbon and hydrogen isotope effects in microbial methane production and anaerobic oxidation of methane. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 295, 237-264.	3.9	17
32	Is Enceladus' plume tidally controlled?. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	16
33	Kinetics of Decomposition of Thiocyanate in Natural Aquatic Systems. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1234-1243.	10.0	16
34	Sulfate-dependent reversibility of intracellular reactions explains the opposing isotope effects in the anaerobic oxidation of methane. <i>Science Advances</i> , 2021, 7, .	10.3	16
35	Controls on the isotopic composition of microbial methane. <i>Science Advances</i> , 2022, 8, eabm5713.	10.3	16
36	Strong evidence for a weakly oxygenated ocean-atmosphere system during the Proterozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	15

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37	The thermodynamic effect of atmospheric mass on early Earth's temperature. <i>Geophysical Research Letters</i> , 2016, 43, 11,414.	4.0	14
38	Sulfur Isotope Fractionation by Sulfate-Reducing Microbes Can Reflect Past Physiology. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4013-4022.	10.0	11
39	Deconstructing the Dissimilatory Sulfate Reduction Pathway: Isotope Fractionation of a Mutant Unable of Growth on Sulfate. <i>Frontiers in Microbiology</i> , 2018, 9, 3110.	3.5	11
40	Geologic controls on phytoplankton elemental composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	11
41	Kinetic isotope effect in siderite growth: Implications for the origin of banded iron formation siderite. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 322, 260-273.	3.9	10
42	The Effect of Ocean Salinity on Climate and Its Implications for Earth's Habitability. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
43	The effects of drip rate and geometry on the isotopic composition of speleothems: Evaluation with an advection-diffusion-reaction model. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 317, 409-432.	3.9	8
44	Radiative transfer in CO <sub>2</sub> -rich atmospheres: 1. Collisional line mixing implies a colder early Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 965-985.	3.6	7
45	Kinetic fractionation of carbon and oxygen isotopes during BaCO <sub>3</sub> precipitation. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 395-422.	3.9	7
46	Statistical Uncertainty in Paleoclimate Proxy Reconstructions. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092773.	4.0	7
47	A case study for late Archean and Proterozoic biogeochemical iron and sulphur cycling in a modern habitat—the Arvadi Spring. <i>Geobiology</i> , 2018, 16, 353-368.	2.4	5
48	The Isotopic Imprint of Life on an Evolving Planet. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	3
49	An improved pyrite pretreatment protocol for kinetic and isotopic studies. <i>Geochemical Transactions</i> , 2014, 15, 10.	0.7	2
50	Reply to Comment on “Radiative Transfer in CO <sub>2</sub> -Rich Atmospheres: 1. Collisional Line Mixing Implies a Colder Early Mars” • <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2366-2367.	3.6	2
51	Geologic controls on phytoplankton elemental composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2113263119.	7.1	2
52	Equilibration Times of Dissolved Inorganic Carbon During pH Transitions. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	0