Itay Halevy

List of Publications by Year
in descending order

52	2,787	236925 25	175258 52
papers	citations	h-index	g-index

61	61	61	2939
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effects of drip rate and geometry on the isotopic composition of speleothems: Evaluation with an advection-diffusion-reaction model. Geochimica Et Cosmochimica Acta, 2022, 317, 409-432.	3.9	8
2	Equilibration Times of Dissolved Inorganic Carbon During pH Transitions. Frontiers in Earth Science, 2022, 9, .	1.8	0
3	Strong evidence for a weakly oxygenated oceanâ€“atmosphere system during the Proterozoic. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	15
4	Kinetic isotope effect in siderite growth: Implications for the origin of banded iron formation siderite. Geochimica Et Cosmochimica Acta, 2022, 322, 260-273.	3.9	10
5	Controls on the isotopic composition of microbial methane. Science Advances, 2022, 8, eabm5713.	10.3	16
6	Geologic controls on phytoplankton elemental composition. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113263119.	7.1	2
7	Geologic controls on phytoplankton elemental composition. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	11
8	The Effect of Ocean Salinity on Climate and Its Implications for Earth's Habitability. Geophysical Research Letters, 2022, 49, .	4.0	9
9	Theoretical estimates of equilibrium carbon and hydrogen isotope effects in microbial methane production and anaerobic oxidation of methane. Geochimica Et Cosmochimica Acta, 2021, 295, 237-264.	3.9	17
10	Reconstructing Neoproterozoic seawater chemistry from early diagenetic dolomite. Geology, 2021, 49, 442-446.	4.4	26
11	Strong local, not global, controls on marine pyrite sulfur isotopes. Science Advances, 2021, 7, .	10.3	43
12	Sulfate-dependent reversibility of intracellular reactions explains the opposing isotope effects in the anaerobic oxidation of methane. Science Advances, 2021, 7, .	10.3	16
13	The fate of fluvially-deposited organic carbon during transient floodplain storage. Earth and Planetary Science Letters, 2021, 561, 116822.	4.4	23
14	Sedimentary pyrite sulfur isotopes track the local dynamics of the Peruvian oxygen minimum zone. Nature Communications, 2021, 12, 4403.	12.8	34
15	Statistical Uncertainty in Paleoclimate Proxy Reconstructions. Geophysical Research Letters, 2021, 48, e2021GL092773.	4.0	7
16	The Isotopic Imprint of Life on an Evolving Planet. Space Science Reviews, 2020, 216, 1.	8.1	3
17	Nutrient ratios in marine particulate organic matter are predicted by the population structure of well-adapted phytoplankton. Science Advances, 2020, 6, eaaw9371.	10.3	38
18	Oxygen isotope effects during microbial sulfate reduction: applications to sediment cell abundances. ISME Journal, 2020, 14, 1508-1519.	9.8	17

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19	Kinetic fractionation of carbon and oxygen isotopes during BaCO3 precipitation. Geochimica Et Cosmochimica Acta, 2020, 280, 395-422.	3.9	7
20	Sulfur isotope fractionation between aqueous and carbonate-associated sulfate in abiotic calcite and aragonite. Geochimica Et Cosmochimica Acta, 2020, 280, 317-339.	3.9	28
21	The geologic history of seawater oxygen isotopes from marine iron oxides. Science, 2019, 365, 469-473.	12.6	81
22	Deciphering the atmospheric signal in marine sulfate oxygen isotope composition. Earth and Planetary Science Letters, 2019, 522, 12-19.	4.4	18
23	Formation of green rust and elemental sulfur in an analogue for oxygenated ferro-euxinic transition zones of Precambrian oceans. Geology, 2019, 47, 211-214.	4.4	22
24	Sulfur Isotope Fractionation by Sulfate-Reducing Microbes Can Reflect Past Physiology. Environmental Science & Technology, 2018, 52, 4013-4022.	10.0	11
25	Kinetics of Decomposition of Thiocyanate in Natural Aquatic Systems. Environmental Science & Technology, 2018, 52, 1234-1243.	10.0	16
26	Electron carriers in microbial sulfate reduction inferred from experimental and environmental sulfur isotope fractionations. ISME Journal, 2018, 12, 495-507.	9.8	36
27	Deconstructing the Dissimilatory Sulfate Reduction Pathway: Isotope Fractionation of a Mutant Unable of Growth on Sulfate. Frontiers in Microbiology, 2018, 9, 3110.	3.5	11
28	Dynamics of pyrite formation and organic matter sulfurization in organic-rich carbonate sediments. Geochimica Et Cosmochimica Acta, 2018, 241, 219-239.	3.9	75
29	A case study for late Archean and Proterozoic biogeochemical ironâ€•and sulphur cycling in a modern habitatâ€”the Arvadi Spring. Geobiology, 2018, 16, 353-368.	2.4	5
30	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
31	The geologic history of seawater pH. Science, 2017, 355, 1069-1071.	12.6	234
32	New constraints on kinetic isotope effects during CO2(aq) hydration and hydroxylation: Revisiting theoretical and experimental data. Geochimica Et Cosmochimica Acta, 2017, 214, 246-265.	3.9	31
33	Reply to Comment on â€œRadiative Transfer in CO₂â€Rich Atmospheres: 1. Collisional Line Mixing Implies a Colder Early Marsâ€• Journal of Geophysical Research E: Planets, 2017, 122, 2366-2367.	3.6	2
34	Radiative transfer in CO₂â€rich atmospheres: 1. Collisional line mixing implies a colder early Mars. Journal of Geophysical Research E: Planets, 2016, 121, 965-985.	3.6	7
35	The thermodynamic effect of atmospheric mass on early Earth's temperature. Geophysical Research Letters, 2016, 43, 11,414.	4.0	14
36	Episodic warming of early Mars by punctuatedÂvolcanism. Nature Geoscience, 2014, 7, 865-868.	12.9	147

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37	Frontiers of stable isotope geoscience. Chemical Geology, 2014, 372, 119-143.	3.3	99
38	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
39	An improved pyrite pretreatment protocol for kinetic and isotopic studies. Geochemical Transactions, 2014, 15, 10.	0.7	2
40	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
41	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
42	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
43	Sulfate Burial Constraints on the Phanerozoic Sulfur Cycle. Science, 2012, 337, 331-334.	12.6	130
44	Greenhouse warming by nitrous oxide and methane in the Proterozoic Eon. Geobiology, 2011, 9, 313-320.	2.4	64
45	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
46	Carbonates in the Martian meteorite Allan Hills 84001 formed at 18ÂÂ±Â4ÂÂ°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
47	Dust Aerosol Important for Snowball Earth Deglaciation. Journal of Climate, 2010, 23, 4121-4132.	3.2	38
48	Explaining the Structure of the Archean Mass-Independent Sulfur Isotope Record. Science, 2010, 329, 204-207.	12.6	128
49	Sulfur dioxide inhibits calcium carbonate precipitation: Implications for early Mars and Earth. Geophysical Research Letters, 2009, 36, .	4.0	27
50	Radiative transfer in CO₂â€rich paleoatmospheres. Journal of Geophysical Research, 2009, 114, .	3.3	55
51	Is Enceladus' plume tidally controlled?. Geophysical Research Letters, 2008, 35, .	4.0	16
52	A Sulfur Dioxide Climate Feedback on Early Mars. Science, 2007, 318, 1903-1907.	12.6	168