Eugeni Barkan

List of Publications by Year
in descending order

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21 papers	1,847 citations	471509 17 h-index	713466 21 g-index
21 all docs	21 docs citations	21 times ranked	1636 citing authors

#	Article	IF	Citations
1	Carbonate 17Oexcess as a paleo-hydrology proxy: Triple oxygen isotope fractionation between H2O and biogenic aragonite, derived from freshwater mollusks. Geochimica Et Cosmochimica Acta, 2020, 275, 36-47.	3.9	25
2	Triple oxygen isotope fractionation between CaCO3 and H2O in inorganically precipitated calcite and aragonite. Chemical Geology, 2020, 539, 119500.	3.3	17
3	Calibration of Î´¹⁷O and ¹⁷O_{excess} values of three international standards: IAEAâ€603, NBS19 and NBS18. Rapid Communications in Mass Spectrometry, 2019, 33, 737-740.	1.5	26
4	A new method for highâ€precision measurements of ¹⁷O/¹⁶O ratios in H₂O. Rapid Communications in Mass Spectrometry, 2018, 32, 2096-2097.	1.5	13
5	Species-specific imprint of the phytoplankton assemblage on carbon isotopes and the carbon cycle in Lake Kinneret, Israel. Inland Waters, 2016, 6, 211-223.	2.2	2
6	Acquisition of isotopic composition for surface snow in East Antarctica and the links to climatic parameters. Cryosphere, 2016, 10, 837-852.	3.9	56
7	High-precision measurements of Î´¹⁷O and¹⁷O_{excess}of NBS19 and NBS18. Rapid Communications in Mass Spectrometry, 2015, 29, 2219-2224.	1.5	37
8	Mixing processes in the deep water of the Gulf of Elat (Aqaba): Evidence from measurements and modeling of the triple isotopic composition of dissolved oxygen. Limnology and Oceanography, 2013, 58, 1373-1386.	3.1	4
9	Highâ€precision measurements of ¹⁷O/¹⁶O and ¹⁸O/¹⁶O ratios in CO₂. Rapid Communications in Mass Spectrometry, 2012, 26, 2733-2738.	1.5	87
10	Enrichment of oxygen heavy isotopes during photosynthesis in phytoplankton. Photosynthesis Research, 2010, 103, 97-103.	2.9	62
11	Variations of 17O/16O and 18O/16O in meteoric waters. Geochimica Et Cosmochimica Acta, 2010, 74, 6276-6286.	3.9	251
12	Fractionation of oxygen and hydrogen isotopes in evaporating water. Geochimica Et Cosmochimica Acta, 2009, 73, 6697-6703.	3.9	147
13	Unexpected underestimation of primary productivity by 18 O and 14 C methods in a lake: Implications for slow diffusion of isotope tracers in and out of cells. Limnology and Oceanography, 2007, 52, 329-337.	3.1	8
14	Fractionation of the Three Stable Oxygen Isotopes by Oxygen-Producing and Oxygen-Consuming Reactions in Photosynthetic Organisms. Plant Physiology, 2005, 138, 2292-2298.	4.8	140
15	The isotopic ratios 17O/16O and 18O/16O in molecular oxygen and their significance in biogeochemistry. Geochimica Et Cosmochimica Acta, 2005, 69, 1099-1110.	3.9	175
16	High-precision measurements of17O/16O and18O/16O of O2 and O2/Ar ratio in air. Rapid Communications in Mass Spectrometry, 2003, 17, 2809-2814.	1.5	110
17	Evaluation of community respiratory mechanisms with oxygen isotopes: A case study in Lake Kinneret. Limnology and Oceanography, 2002, 47, 33-42.	3.1	77
18	Dynamics of the carbon dioxide system in the Dead Sea. Geochimica Et Cosmochimica Acta, 2001, 65, 355-368.	3.9	89

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19	Assessment of Oceanic Productivity with the Triple-Isotope Composition of Dissolved Oxygen. Science, 2000, 288, 2028-2031.	12.6	217
20	Triple-isotope composition of atmospheric oxygen as a tracer of biosphere productivity. Nature, 1999, 400, 547-550.	27.8	281
21	Conversion of O2into CO2for High-Precision Oxygen Isotope Measurements. Analytical Chemistry, 1996, 68, 3507-3510.	6.5	23