

Eugeni Barkan

List of Publications by Year in descending order

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Version: 2024-02-01

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	Triple-isotope composition of atmospheric oxygen as a tracer of biosphere productivity. <i>Nature</i> , 1999, 400, 547-550.	27.8	281
2	Variations of $^{17}\text{O}/^{16}\text{O}$ and $^{18}\text{O}/^{16}\text{O}$ in meteoric waters. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6276-6286.	3.9	251
3	Assessment of Oceanic Productivity with the Triple-Isotope Composition of Dissolved Oxygen. <i>Science</i> , 2000, 288, 2028-2031.	12.6	217
4	The isotopic ratios $^{17}\text{O}/^{16}\text{O}$ and $^{18}\text{O}/^{16}\text{O}$ in molecular oxygen and their significance in biogeochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1099-1110.	3.9	175
5	Fractionation of oxygen and hydrogen isotopes in evaporating water. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6697-6703.	3.9	147
6	Fractionation of the Three Stable Oxygen Isotopes by Oxygen-Producing and Oxygen-Consuming Reactions in Photosynthetic Organisms. <i>Plant Physiology</i> , 2005, 138, 2292-2298.	4.8	140
7	High-precision measurements of $^{17}\text{O}/^{16}\text{O}$ and $^{18}\text{O}/^{16}\text{O}$ of O_2 and O_2/Ar ratio in air. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2809-2814.	1.5	110
8	Dynamics of the carbon dioxide system in the Dead Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 355-368.	3.9	89
9	High-precision measurements of $^{17}\text{O}/^{16}\text{O}$ and $^{18}\text{O}/^{16}\text{O}$ ratios in CO_2 . <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2733-2738.	1.5	87
10	Evaluation of community respiratory mechanisms with oxygen isotopes: A case study in Lake Kinneret. <i>Limnology and Oceanography</i> , 2002, 47, 33-42.	3.1	77
11	Enrichment of oxygen heavy isotopes during photosynthesis in phytoplankton. <i>Photosynthesis Research</i> , 2010, 103, 97-103.	2.9	62
12	Acquisition of isotopic composition for surface snow in East Antarctica and the links to climatic parameters. <i>Cryosphere</i> , 2016, 10, 837-852.	3.9	56
13	High-precision measurements of $\delta^{17}\text{O}$ and $\delta^{17}\text{O}_{\text{excess}}$ of NBS19 and NBS18. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2219-2224.	1.5	37
14	Calibration of $\delta^{17}\text{O}$ and $\delta^{17}\text{O}_{\text{excess}}$ values of three international standards: IAEA-603, NBS19 and NBS18. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 737-740.	1.5	26
15	Carbonate $^{17}\text{O}_{\text{excess}}$ as a paleo-hydrology proxy: Triple oxygen isotope fractionation between H_2O and biogenic aragonite, derived from freshwater mollusks. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 275, 36-47.	3.9	25
16	Conversion of O_2 into CO_2 for High-Precision Oxygen Isotope Measurements. <i>Analytical Chemistry</i> , 1996, 68, 3507-3510.	6.5	23
17	Triple oxygen isotope fractionation between CaCO_3 and H_2O in inorganically precipitated calcite and aragonite. <i>Chemical Geology</i> , 2020, 539, 119500.	3.3	17
18	A new method for high-precision measurements of $^{17}\text{O}/^{16}\text{O}$ ratios in H_2O . <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 2096-2097.	1.5	13

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19	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. <i>Limnology and Oceanography</i> , 2007, 52, 329-337.	3.1	8
20	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. <i>Limnology and Oceanography</i> , 2013, 58, 1373-1386.	3.1	4
21	Species-specific imprint of the phytoplankton assemblage on carbon isotopes and the carbon cycle in Lake Kinneret, Israel. <i>Inland Waters</i> , 2016, 6, 211-223.	2.2	2