

Bruce H Vaughn

List of Publications by Year in descending order

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47
papers

4,532
citations

172457

29
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233421

45
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67
all docs

67
docs citations

67
times ranked

6747
citing authors

#	ARTICLE	IF	CITATIONS
1	Eemian interglacial reconstructed from a Greenland folded ice core. <i>Nature</i> , 2013, 493, 489-494.	27.8	565
2	Upward revision of global fossil fuel methane emissions based on isotope database. <i>Nature</i> , 2016, 538, 88-91.	27.8	400
3	The 8.2ka event from Greenland ice cores. <i>Quaternary Science Reviews</i> , 2007, 26, 70-81.	3.0	386
4	Very Strong Atmospheric Methane Growth in the 4 Years 2014–2017: Implications for the Paris Agreement. <i>Global Biogeochemical Cycles</i> , 2019, 33, 318-342.	4.9	353
5	A 21st-century shift from fossil-fuel to biogenic methane emissions indicated by ^{13}C 4 . <i>Science</i> , 2016, 352, 80-84.	12.6	336
6	Rising atmospheric methane: 2007–2014 growth and isotopic shift. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1356-1370.	4.9	317
7	Onset of deglacial warming in West Antarctica driven by local orbital forcing. <i>Nature</i> , 2013, 500, 440-444.	27.8	276
8	Demonstration of high-precision continuous measurements of water vapor isotopologues in laboratory and remote field deployments using wavelength-scanned cavity ring-down spectroscopy (WS-CRDS) technology. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2534-2542.	1.5	273
9	Compiled records of carbon isotopes in atmospheric CO_2 for historical simulations in CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 4405-4417.	3.6	154
10	Recent climate and ice-sheet changes in West Antarctica compared with the past 2,000 years. <i>Nature Geoscience</i> , 2013, 6, 372-375.	12.9	140
11	Increased water-use efficiency and reduced CO_2 uptake by plants during droughts at a continental scale. <i>Nature Geoscience</i> , 2018, 11, 744-748.	12.9	139
12	Variations in global methane sources and sinks during 1910–2010. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2595-2612.	4.9	108
13	Determining long time-scale hyporheic zone flow paths in Antarctic streams. <i>Hydrological Processes</i> , 2003, 17, 1691-1710.	2.6	97
14	Interpreting methane variations in the past two decades using measurements of CH_4 mixing ratio and isotopic composition. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9141-9153.	4.9	95
15	Surface glaciochemistry of Taylor Valley, southern Victoria Land, Antarctica and its relationship to stream chemistry. <i>Hydrological Processes</i> , 2003, 17, 115-130.	2.6	74
16	Monthly precipitation isoscapes (^{18}O) of the United States: Connections with surface temperatures, moisture source conditions, and air mass trajectories. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	63
17	A Stable Isotopic Investigation of a Polar Desert Hydrologic System, McMurdo Dry Valleys, Antarctica. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 60-71.	1.1	61
18	No inter-hemispheric ^{13}C trend observed. <i>Nature</i> , 2012, 486, E3-E4.	27.8	60

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19	Improved Constraints on Global Methane Emissions and Sinks Using $\delta^{13}\text{C}$. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007000.	4.9	50
20	Isoscapes to Address Large-Scale Earth Science Challenges. <i>Eos</i> , 2009, 90, 109-110.	0.1	45
21	Moisture source temperatures and precipitation $\delta^{18}\text{O}$ -temperature relationships across the United States. <i>Water Resources Research</i> , 2010, 46, .	4.2	45
22	Enhanced North American carbon uptake associated with El Niño. <i>Science Advances</i> , 2019, 5, eaaw0076.	10.3	45
23	Long-term field performance of a tunable diode laser absorption spectrometer for analysis of carbon isotopes of CO_2 in forest air. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5263-5277.	4.9	40
24	Improved methodologies for continuous-flow analysis of stable water isotopes in ice cores. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 617-632.	3.1	37
25	Core handling and processing for the WAIS Divide ice-core project. <i>Annals of Glaciology</i> , 2014, 55, 15-26.	1.4	34
26	Using $\delta^{13}\text{C}$ - $\delta^{13}\text{C}$ and $\delta^{13}\text{C}$ - $\delta^{13}\text{C}$ to constrain Arctic methane emissions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14891-14908.	4.9	34
27	Background variations of atmospheric CO_2 and carbon stable isotopes at Waliguan and Shangdianzi stations in China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5602-5612.	3.3	31
28	Interlaboratory comparison of $\delta^{13}\text{C}$ and $\delta^{13}\text{C}$ measurements of atmospheric CH_4 for combined use of data sets from different laboratories. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1207-1231.	3.1	31
29	Evidence of Isotopic Fractionation During Vapor Exchange Between the Atmosphere and the Snow Surface in Greenland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2932-2945.	3.3	30
30	High-precision CO_2 isotopologue spectrometer with a difference-frequency-generation laser source. <i>Optics Letters</i> , 2009, 34, 172.	3.3	28
31	A 120,000-year long climate record from a NW-Greenland deep ice core at ultra-high resolution. <i>Scientific Data</i> , 2021, 8, 141.	5.3	28
32	Ecological processes dominate the C land disequilibrium in a Rocky Mountain subalpine forest. <i>Global Biogeochemical Cycles</i> , 2014, 28, 352-370.	4.9	27
33	Continuous-Flow Analysis of $\delta^{17}\text{O}$, $\delta^{18}\text{O}$, and $\delta^2\text{H}$ of H_2O on an Ice Core from the South Pole. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	18
34	Carbon monoxide isotopic measurements in Indianapolis constrain urban source isotopic signatures and support mobile fossil fuel emissions as the dominant wintertime CO source. <i>Elementa</i> , 2017, 5, .	3.2	13
35	Varying regional $\delta^{18}\text{O}$ -temperature relationship in high-resolution stable water isotopes from east Greenland. <i>Climate of the Past</i> , 2019, 15, 893-912.	3.4	10
36	Stable isotopes and electrical conductivity as keys to understanding water pathways and storage in South Cascade Glacier, Washington, USA. <i>Annals of Glaciology</i> , 2005, 40, 107-112.	1.4	9

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37	Global Network Measurements of Atmospheric Trace Gas Isotopes. , 2010, , 3-31.		9
38	Investigating large methane enhancements in the U.S. San Juan Basin. <i>Elementa</i> , 2020, 8, .	3.2	8
39	High-frequency climate variability in the Holocene from a coastal-dome ice core in east-central Greenland. <i>Climate of the Past</i> , 2020, 16, 1369-1386.	3.4	8
40	The CarbonTracker Data Assimilation System for CO ₂ and CH ₄ (CTDAS-C13 v1.0): retrieving information on "atmosphere exchange processes. <i>Geoscientific Model Development</i> , 2018, 11, 283-304.	3.6	6
41	An improved estimate for the CH ₄ and CO signatures of carbon monoxide produced from atmospheric oxidation of volatile organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8547-8562.	4.9	6
42	Reconstruction of Temperature, Accumulation Rate, and Layer Thinning From an Ice Core at South Pole, Using a Statistical Inverse Method. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033300.	3.3	6
43	Variational inverse modeling within the Community Inversion Framework v1.1 to assimilate CH ₄ and CH ₃ D: a case study with model LMDz-SACS. <i>Geoscientific Model Development</i> , 2022, 15, 4831-4851.	3.6	6
44	The Soil Water Isotope Storage System (SWISS): An integrated soil water vapor sampling and multiport storage system for stable isotope geochemistry. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8783.	1.5	5
45	Does vapor pressure deficit drive the seasonality of $\delta^{13}C$ of the net land-atmosphere CO ₂ exchange across the United States?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1969-1987.	3.0	3
46	An unmanned aerial vehicle sampling platform for atmospheric water vapor isotopes in polar environments. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7045-7067.	3.1	3
47	Envisioning and Sustaining Science at Summit Station, Greenland. <i>Eos</i> , 2017, , .	0.1	0