

# Heather Graven

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

3,383  
citations

331259

21  
h-index

329751

37  
g-index

46  
all docs

46  
docs citations

46  
times ranked

5975  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global decadal variability of plant carbon isotope discrimination and its link to gross primary production. <i>Global Change Biology</i> , 2022, 28, 524-541.	4.2	13
2	Radiocarbon dating: going back in time. <i>Nature</i> , 2022, 607, 449-449.	13.7	7
3	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO <sub>2</sub> . <i>New Phytologist</i> , 2021, 229, 2413-2445.	3.5	286
4	Efficient Sampling of Atmospheric Methane for Radiocarbon Analysis and Quantification of Fossil Methane. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8535-8541.	4.6	7
5	Future Changes in $\delta^{13}C$ of Dissolved Inorganic Carbon in the Ocean. <i>Earth's Future</i> , 2021, 9, e2021EF002173.	2.4	1
6	Historical changes in the stomatal limitation of photosynthesis: empirical support for an optimality principle. <i>New Phytologist</i> , 2020, 225, 2484-2497.	3.5	39
7	Impacts of soil water stress on the acclimated stomatal limitation of photosynthesis: Insights from stable carbon isotope data. <i>Global Change Biology</i> , 2020, 26, 7158-7172.	4.2	33
8	Changes to Carbon Isotopes in Atmospheric CO <sub>2</sub> Over the Industrial Era and Into the Future. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006170.	1.9	63
9	Internal Variability Dominates Over Externally Forced Ocean Circulation Changes Seen Through $\delta^{13}C$ in CFCs. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087585.	1.5	3
10	Detection of Fossil and Biogenic Methane at Regional Scales Using Atmospheric Radiocarbon. <i>Earth's Future</i> , 2019, 7, 283-299.	2.4	15
11	Atmospheric observation-based estimation of fossil fuel CO <sub>2</sub> emissions from regions of central and southern California. <i>Science of the Total Environment</i> , 2019, 664, 381-391.	3.9	10
12	Characterizing uncertainties in atmospheric inversions of fossil fuel CO <sub>2</sub> emissions in California. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2991-3006.	1.9	14
13	Observed and modelled historical trends in the water-use efficiency of plants and ecosystems. <i>Global Change Biology</i> , 2019, 25, 2242-2257.	4.2	85
14	Assessing fossil fuel CO <sub>2</sub> emissions in California using atmospheric observations and models. <i>Environmental Research Letters</i> , 2018, 13, 065007.	2.2	27
15	Global and Regional Emissions of Radiocarbon from Nuclear Power Plants from 1972 to 2016. <i>Radiocarbon</i> , 2018, 60, 1067-1081.	0.8	15
16	Changes to the Air-Sea Flux and Distribution of Radiocarbon in the Ocean Over the 21st Century. <i>Geophysical Research Letters</i> , 2018, 45, 5617-5626.	1.5	11
17	Atmospheric evidence for a global secular increase in carbon isotopic discrimination of land photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10361-10366.	3.3	166
18	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). <i>Geoscientific Model Development</i> , 2017, 10, 2169-2199.	1.3	137

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19	Compiled records of carbon isotopes in atmospheric CO <sub>2</sub> for historical simulations in CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 4405-4417.	1.3	154
20	Simulating estimation of California fossil fuel and biosphere carbon dioxide exchanges combining in situ tower and satellite column observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3653-3671.	1.2	32
21	CMIP “The Coupled Climate” Carbon Cycle Model Intercomparison Project: experimental protocol for CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 2853-2880.	1.3	186
22	Estimating methane emissions in California's urban and rural regions using multitower observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,031.	1.2	40
23	Increased light-use efficiency in northern terrestrial ecosystems indicated by CO <sub>2</sub> and greening observations. <i>Geophysical Research Letters</i> , 2016, 43, 11,339.	1.5	40
24	Radiocarbon in the Atmosphere. , 2016, , 83-137.		2
25	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , 2015, 12, 653-679.	1.3	587
26	Designing optimal greenhouse gas observing networks that consider performance and cost. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2015, 4, 121-137.	0.6	25
27	Impact of fossil fuel emissions on atmospheric radiocarbon and various applications of radiocarbon over this century. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9542-9545.	3.3	109
28	Enhanced Seasonal Exchange of CO <sub>2</sub> by Northern Ecosystems Since 1960. <i>Science</i> , 2013, 341, 1085-1089.	6.0	329
29	Evaluating transport in the WRF model along the California coast. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1837-1852.	1.9	32
30	Initial Results of an Intercomparison of AMS-Based Atmospheric <sup>14</sup> CO <sub>2</sub> Measurements. <i>Radiocarbon</i> , 2013, 55, 1475-1483.	0.8	16
31	Atmospheric Radiocarbon Workshop Report. <i>Radiocarbon</i> , 2013, 55, 1470-1474.	0.8	3
32	Comparison of Independent <sup>14</sup> CO <sub>2</sub> Records at Point Barrow, Alaska. <i>Radiocarbon</i> , 2013, 55, 1541-1545.	0.8	6
33	Global ocean carbon uptake: magnitude, variability and trends. <i>Biogeosciences</i> , 2013, 10, 1983-2000.	1.3	276
34	Global ocean storage of anthropogenic carbon. <i>Biogeosciences</i> , 2013, 10, 2169-2191.	1.3	348
35	Atmospheric Radiocarbon Workshop Report. <i>Radiocarbon</i> , 2013, 55, .	0.8	1
36	Initial Results of an Intercomparison of AMS-Based Atmospheric <sup>14</sup> CO <sub>2</sub> Measurements. <i>Radiocarbon</i> , 2013, 55, .	0.8	7

#	ARTICLE	IF	CITATIONS
37	Changing controls on oceanic radiocarbon: New insights on shallow-to-deep ocean exchange and anthropogenic CO <sub>2</sub> uptake. Journal of Geophysical Research, 2012, 117, .	3.3	99
38	Continental-scale enrichment of atmospheric <sup>14</sup> C/ <sup>13</sup> C/ <sup>12</sup> C from the nuclear power industry: potential impact on the estimation of fossil fuel-derived CO <sub>2</sub> . Atmospheric Chemistry and Physics, 2011, 11, 12339-12349.	1.9	74