

# 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	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , 2015, 12, 653-679.	1.3	587
2	Global ocean storage of anthropogenic carbon. <i>Biogeosciences</i> , 2013, 10, 2169-2191.	1.3	348
3	Enhanced Seasonal Exchange of CO <sub>2</sub> by Northern Ecosystems Since 1960. <i>Science</i> , 2013, 341, 1085-1089.	6.0	329
4	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
5	Global ocean carbon uptake: magnitude, variability and trends. <i>Biogeosciences</i> , 2013, 10, 1983-2000.	1.3	276
6	CMIP6 – The Coupled Climate – Carbon Cycle Model Intercomparison Project: experimental protocol for CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 2853-2880.	1.3	186
7	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
8	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
9	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). <i>Geoscientific Model Development</i> , 2017, 10, 2169-2199.	1.3	137
10	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
11	Changing controls on oceanic radiocarbon: New insights on shallow–deep ocean exchange and anthropogenic CO <sub>2</sub> uptake. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	99
12	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
13	Continental-scale enrichment of atmospheric <sup>14</sup> CO <sub>2</sub> from the nuclear power industry: potential impact on the estimation of fossil fuel-derived CO <sub>2</sub> . <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12339-12349.	1.9	74
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Evaluating transport in the WRF model along the California coast. Atmospheric Chemistry and Physics, 2013, 13, 1837-1852.	1.9	32
20	Simulating estimation of California fossil fuel and biosphere carbon dioxide exchanges combining in situ tower and satellite column observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3653-3671.	1.2	32
21	Assessing fossil fuel CO <sub>2</sub> emissions in California using atmospheric observations and models. Environmental Research Letters, 2018, 13, 065007.	2.2	27
22	Designing optimal greenhouse gas observing networks that consider performance and cost. Geoscientific Instrumentation, Methods and Data Systems, 2015, 4, 121-137.	0.6	25
23	Initial Results of an Intercomparison of AMS-Based Atmospheric <sup>14</sup> CO <sub>2</sub> Measurements. Radiocarbon, 2013, 55, 1475-1483.	0.8	16
24	Global and Regional Emissions of Radiocarbon from Nuclear Power Plants from 1972 to 2016. Radiocarbon, 2018, 60, 1067-1081.	0.8	15
25	Detection of Fossil and Biogenic Methane at Regional Scales Using Atmospheric Radiocarbon. Earth's Future, 2019, 7, 283-299.	2.4	15
26	Characterizing uncertainties in atmospheric inversions of fossil fuel CO <sub>2</sub> emissions in California. Atmospheric Chemistry and Physics, 2019, 19, 2991-3006.	1.9	14
27	Global decadal variability of plant carbon isotope discrimination and its link to gross primary production. Global Change Biology, 2022, 28, 524-541.	4.2	13
28	Changes to the Air-Sea Flux and Distribution of Radiocarbon in the Ocean Over the 21st Century. Geophysical Research Letters, 2018, 45, 5617-5626.	1.5	11
29	Atmospheric observation-based estimation of fossil fuel CO <sub>2</sub> emissions from regions of central and southern California. Science of the Total Environment, 2019, 664, 381-391.	3.9	10
30	Efficient Sampling of Atmospheric Methane for Radiocarbon Analysis and Quantification of Fossil Methane. Environmental Science & Technology, 2021, 55, 8535-8541.	4.6	7
31	Initial Results of an Intercomparison of AMS-Based Atmospheric <sup>14</sup> CO <sub>2</sub> Measurements. Radiocarbon, 2013, 55, .	0.8	7
32	Radiocarbon dating: going back in time. Nature, 2022, 607, 449-449.	13.7	7
33	Comparison of Independent <sup>14</sup> CO <sub>2</sub> Records at Point Barrow, Alaska. Radiocarbon, 2013, 55, 1541-1545.	0.8	6
34	Atmospheric Radiocarbon Workshop Report. Radiocarbon, 2013, 55, 1470-1474.	0.8	3
35	Internal Variability Dominates Over Externally Forced Ocean Circulation Changes Seen Through <sup>14</sup> CFCs. Geophysical Research Letters, 2020, 47, e2020GL087585.	1.5	3
36	Radiocarbon in the Atmosphere. , 2016, , 83-137.		2

#	ARTICLE	IF	CITATIONS
37	Future Changes in $\delta^{13}\text{C}$ of Dissolved Inorganic Carbon in the Ocean. <i>Earth's Future</i> , 2021, 9, e2021EF002173.	2.4	1
38	Atmospheric Radiocarbon Workshop Report. <i>Radiocarbon</i> , 2013, 55, .	0.8	1