

Michelle Cain

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

2,600
citations

331259

21
h-index

344852

36
g-index

48
all docs

48
docs citations

48
times ranked

3836
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.9	353
2	Rising atmospheric methane: 2007–2014 growth and isotopic shift. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1356-1370.	1.9	317
3	Evidence for chorus-driven electron acceleration to relativistic energies from a survey of geomagnetically disturbed periods. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	234
4	A solution to the misrepresentations of CO ₂ -equivalent emissions of short-lived climate pollutants under ambitious mitigation. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	2.6	230
5	Methane Mitigation: Methods to Reduce Emissions, on the Path to the Paris Agreement. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000675.	9.0	163
6	Improved calculation of warming-equivalent emissions for short-lived climate pollutants. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, 29.	2.6	162
7	Demonstrating GWP*: a means of reporting warming-equivalent emissions that captures the contrasting impacts of short- and long-lived climate pollutants. <i>Environmental Research Letters</i> , 2020, 15, 044023.	2.2	161
8	Agriculture's Contribution to Climate Change and Role in Mitigation Is Distinct From Predominantly Fossil CO ₂ -Emitting Sectors. <i>Frontiers in Sustainable Food Systems</i> , 2021, 4, 518039.	1.8	139
9	The many possible climates from the Paris Agreement's aim of 1.5 °C warming. <i>Nature</i> , 2018, 558, 41-49.	13.7	116
10	Extensive release of methane from Arctic seabed west of Svalbard during summer 2014 does not influence the atmosphere. <i>Geophysical Research Letters</i> , 2016, 43, 4624-4631.	1.5	74
11	Implications of possible interpretations of "greenhouse gas balance" in the Paris Agreement. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20160445.	1.6	72
12	Evaluation of the performance of different atmospheric chemical transport models and inter-comparison of nitrogen and sulphur deposition estimates for the UK. <i>Atmospheric Environment</i> , 2015, 119, 131-143.	1.9	61
13	Measurement of the ¹³ C isotopic signature of methane emissions from northern European wetlands. <i>Global Biogeochemical Cycles</i> , 2017, 31, 605-623.	1.9	52
14	Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7737-7754.	1.9	48
15	Further improvement of warming-equivalent emissions calculation. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	44
16	Methane and carbon dioxide fluxes and their regional scalability for the European Arctic wetlands during the MAMM project in summer 2012. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13159-13174.	1.9	39
17	Indicate separate contributions of long-lived and short-lived greenhouse gases in emission targets. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, 5.	2.6	36
18	Using $\delta^{13}\text{C-CH}_4$ and $\delta^{13}\text{C-D-CH}_4$ to constrain Arctic methane emissions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14891-14908.	1.9	34

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19	FalRv2.0.0: a generalized impulse response model for climate uncertainty and future scenario exploration. <i>Geoscientific Model Development</i> , 2021, 14, 3007-3036.	1.3	34
20	Ensuring that offsets and other internationally transferred mitigation outcomes contribute effectively to limiting global warming. <i>Environmental Research Letters</i> , 2021, 16, 074009.	2.2	33
21	A Lagrangian model of air-mass photochemistry and mixing using a trajectory ensemble: the Cambridge Tropospheric Trajectory model of Chemistry And Transport (CiTTYCAT) version 4.2. <i>Geoscientific Model Development</i> , 2012, 5, 193-221.	1.3	24
22	Measurements of $\hat{\chi}^{13}\text{C}$ in CH_4 and using particle dispersion modeling to characterize sources of Arctic methane within an air mass. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14257-14270.	1.2	22
23	A cautionary tale: A study of a methane enhancement over the North Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7630-7645.	1.2	22
24	Methane mole fraction and $\hat{\chi}^{13}\text{C}$ above and below the trade wind inversion at Ascension Island in air sampled by aerial robotics. <i>Geophysical Research Letters</i> , 2016, 43, 11,893.	1.5	14
25	Methane and the Paris Agreement temperature goals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20200456.	1.6	14
26	Large Methane Emission Fluxes Observed From Tropical Wetlands in Zambia. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	14
27	Night-time measurements of HO_2 during the RONOCO project and analysis of the sources of HO_2 . <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8179-8200.	1.9	11
28	Sensitivity of tropospheric ozone to chemical kinetic uncertainties in air masses influenced by anthropogenic and biomass burning emissions. <i>Geophysical Research Letters</i> , 2017, 44, 7472-7481.	1.5	11
29	Constraints on oceanic methane emissions west of Svalbard from atmospheric in situ measurements and Lagrangian transport modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14188-14200.	1.2	10
30	Quantifying non-CO2 contributions to remaining carbon budgets. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	10
31	Isoprene hotspots at the Western Coast of Antarctic Peninsula during MASEC2016. <i>Polar Science</i> , 2019, 20, 63-74.	0.5	9
32	Comment on "Unintentional unfairness when applying new greenhouse gas emissions metrics at country level". <i>Environmental Research Letters</i> , 2021, 16, 068001.	2.2	7
33	Quantification of chemical and physical processes influencing ozone during long-range transport using a trajectory ensemble. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7015-7039.	1.9	6
34	Isotopic signatures of methane emissions from tropical fires, agriculture and wetlands: the MOYA and ZWAMPS flights. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210112.	1.6	6
35	What is the El Niño "Southern Oscillation?". <i>Weather</i> , 2019, 74, 250-251.	0.6	5
36	Transformations to regenerative food systems: An outline of the FixOurFood project. <i>Nutrition Bulletin</i> , 2022, 47, 106-114.	0.8	4