

Michelle Cain

List of Publications by Year in descending order

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36
papers

2,600
citations

331670
21
h-index

345221
36
g-index

48
all docs

48
docs citations

48
times ranked

3836
citing authors

#	ARTICLE	IF	CITATIONS
1	Indicate separate contributions of long-lived and short-lived greenhouse gases in emission targets. Npj Climate and Atmospheric Science, 2022, 5, 5.	6.8	36
2	Isotopic signatures of methane emissions from tropical fires, agriculture and wetlands: the MOYA and ZWAMPS flights. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210112.	3.4	6
3	Methane and the Paris Agreement temperature goals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200456.	3.4	14
4	Transformations to regenerative food systems—An outline of the FixOurFood project. Nutrition Bulletin, 2022, 47, 106-114.	1.8	4
5	Large Methane Emission Fluxes Observed From Tropical Wetlands in Zambia. Global Biogeochemical Cycles, 2022, 36, .	4.9	14
6	Agriculture's Contribution to Climate Change and Role in Mitigation Is Distinct From Predominantly Fossil CO ₂ -Emitting Sectors. Frontiers in Sustainable Food Systems, 2021, 4, 518039.	3.9	139
7	Further improvement of warming-equivalent emissions calculation. Npj Climate and Atmospheric Science, 2021, 4, .	6.8	44
8	FaIRv2.0.0: a generalized impulse response model for climate uncertainty and future scenario exploration. Geoscientific Model Development, 2021, 14, 3007-3036.	3.6	34
9	Ensuring that offsets and other internationally transferred mitigation outcomes contribute effectively to limiting global warming. Environmental Research Letters, 2021, 16, 074009.	5.2	33
10	Comment on “Unintentional unfairness when applying new greenhouse gas emissions metrics at country level”. Environmental Research Letters, 2021, 16, 068001.	5.2	7
11	Quantifying non-CO ₂ contributions to remaining carbon budgets. Npj Climate and Atmospheric Science, 2021, 4, .	6.8	10
12	Demonstrating GWP*: a means of reporting warming-equivalent emissions that captures the contrasting impacts of short- and long-lived climate pollutants. Environmental Research Letters, 2020, 15, 044023.	5.2	161
13	Methane Mitigation: Methods to Reduce Emissions, on the Path to the Paris Agreement. Reviews of Geophysics, 2020, 58, e2019RG000675.	23.0	163
14	Improved calculation of warming-equivalent emissions for short-lived climate pollutants. Npj Climate and Atmospheric Science, 2019, 2, 29.	6.8	162
15	What is the El Niño–Southern Oscillation?. Weather, 2019, 74, 250-251.	0.7	5
16	Very Strong Atmospheric Methane Growth in the 4 Years 2014–2017: Implications for the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 318-342.	4.9	353
17	Isoprene hotspots at the Western Coast of Antarctic Peninsula during MASEC ² 16. Polar Science, 2019, 20, 63-74.	1.2	9
18	Implications of possible interpretations of “greenhouse gas balance” in the Paris Agreement. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160445.	3.4	72

#	ARTICLE	IF	CITATIONS
19	The many possible climates from the Paris Agreement's aim of 1.5 °C warming. <i>Nature</i> , 2018, 558, 41-49.	27.8	116
20	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, .	6.8	230
21	Measurement of the ¹³ C isotopic signature of methane emissions from northern European wetlands. <i>Global Biogeochemical Cycles</i> , 2017, 31, 605-623.	4.9	52
22	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.	3.3	22
23	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.	4.0	11
24	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.	4.0	74
25	Methane mole fraction and ¹³ 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.	4.0	14
26	Measurements of ¹³ 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.	3.3	22
27	Rising atmospheric methane: 2007-2014 growth and isotopic shift. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1356-1370.	4.9	317
28	Using ¹³ C-CH ₄ and ¹³ C-D-CH ₄ to constrain Arctic methane emissions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14891-14908.	4.9	34
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.	3.3	10
30	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.	4.9	11
31	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.	4.1	61
32	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.	4.9	39
33	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.	3.6	24
34	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.	4.9	6
35	Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7737-7754.	4.9	48
36	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