Michelle Cain

List of Publications by Year
in descending order

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	Indicate separate contributions of long-lived and short-lived greenhouse gases in emission targets. Npj Climate and Atmospheric Science, 2022, 5, 5.	2.6	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.	1.6	6
3	Methane and the Paris Agreement temperature goals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200456.	1.6	14
4	Transformations to regenerative food systemsâ€"An outline of the FixOurFood project. Nutrition Bulletin, 2022, 47, 106-114.	0.8	4
5	Large Methane Emission Fluxes Observed From Tropical Wetlands in Zambia. Global Biogeochemical Cycles, 2022, 36, .	1.9	14
6	Agriculture's Contribution to Climate Change and Role in Mitigation Is Distinct From Predominantly Fossil CO2-Emitting Sectors. Frontiers in Sustainable Food Systems, 2021, 4, 518039.	1.8	139
7	Further improvement of warming-equivalent emissions calculation. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	44
8	FaIRv2.0.0: a generalized impulse response model for climate uncertainty and future scenario exploration. Geoscientific Model Development, 2021, 14, 3007-3036.	1.3	34
9	Ensuring that offsets and other internationally transferred mitigation outcomes contribute effectively to limiting global warming. Environmental Research Letters, 2021, 16, 074009.	2.2	33
10	Comment on â€˜Unintentional unfairness when applying new greenhouse gas emissions metrics at country levelâ€™. Environmental Research Letters, 2021, 16, 068001.	2.2	7
11	Quantifying non-CO2 contributions to remaining carbon budgets. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	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.	2.2	161
13	Methane Mitigation: Methods to Reduce Emissions, on the Path to the Paris Agreement. Reviews of Geophysics, 2020, 58, e2019RG000675.	9.0	163
14	Improved calculation of warming-equivalent emissions for short-lived climate pollutants. Npj Climate and Atmospheric Science, 2019, 2, 29.	2.6	162
15	What is the El NiÃ±oâ€"Southern Oscillation?. Weather, 2019, 74, 250-251.	0.6	5
16	Very Strong Atmospheric Methane Growth in the 4Â Years 2014â€"2017: Implications for the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 318-342.	1.9	353
17	Isoprene hotspots at the Western Coast of Antarctic Peninsula during MASECâ€²16. Polar Science, 2019, 20, 63-74.	0.5	9
18	Implications of possible interpretations of â€˜greenhouse gas balanceâ€™ in the Paris Agreement. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160445.	1.6	72

#	Article	IF	Citations
19	The many possible climates from the Paris Agreementâ€™s aim of 1.5 Â°C warming. Nature, 2018, 558, 41-49.	13.7	116
20	A solution to the misrepresentations of CO2-equivalent emissions of short-lived climate pollutants under ambitious mitigation. Npj Climate and Atmospheric Science, 2018, 1, .	2.6	230
21	Measurement of the ¹³C isotopic signature of methane emissions from northern European wetlands. Global Biogeochemical Cycles, 2017, 31, 605-623.	1.9	52
22	A cautionary tale: A study of a methane enhancement over the North Sea. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7630-7645.	1.2	22
23	Sensitivity of tropospheric ozone to chemical kinetic uncertainties in air masses influenced by anthropogenic and biomass burning emissions. Geophysical Research Letters, 2017, 44, 7472-7481.	1.5	11
24	Extensive release of methane from Arctic seabed west of Svalbard during summer 2014 does not influence the atmosphere. Geophysical Research Letters, 2016, 43, 4624-4631.	1.5	74
25	Methane mole fraction and Î´¹³C above and below the trade wind inversion at Ascension Island in air sampled by aerial robotics. Geophysical Research Letters, 2016, 43, 11,893.	1.5	14
26	Measurements of Î´¹³C in CH₄ and using particle dispersion modeling to characterize sources of Arctic methane within an air mass. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14257-14270.	1.2	22
27	Rising atmospheric methane: 2007â€“2014 growth and isotopic shift. Global Biogeochemical Cycles, 2016, 30, 1356-1370.	1.9	317
28	Using <i>Î´</i>¹³C-CH₄ and <i>Î´</i>D-CH₄ to constrain Arctic methane emissions. Atmospheric Chemistry and Physics, 2016, 16, 14891-14908.	1.9	34
29	Constraints on oceanic methane emissions west of Svalbard from atmospheric in situ measurements and Lagrangian transport modeling. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14188-14200.	1.2	10
30	Night-time measurements of HO_{<i>x</i>} during the RONOCO project and analysis of the sources of HO₂;. Atmospheric Chemistry and Physics, 2015, 15, 8179-8200.	1.9	11
31	Evaluation of the performance of different atmospheric chemical transport models and inter-comparison of nitrogen and sulphur deposition estimates for the UK. Atmospheric Environment, 2015, 119, 131-143.	1.9	61
32	Methane and carbon dioxide fluxes and their regional scalability for the European Arctic wetlands during the MAMM project in summer 2012. Atmospheric Chemistry and Physics, 2014, 14, 13159-13174.	1.9	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. Geoscientific Model Development, 2012, 5, 193-221.	1.3	24
34	Quantification of chemical and physical processes influencing ozone during long-range transport using a trajectory ensemble. Atmospheric Chemistry and Physics, 2012, 12, 7015-7039.	1.9	6
35	Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. Atmospheric Chemistry and Physics, 2008, 8, 7737-7754.	1.9	48
36	Evidence for chorus-driven electron acceleration to relativistic energies from a survey of geomagnetically disturbed periods. Journal of Geophysical Research, 2003, 108, .	3.3	234