

Anna Karion

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

5,148
citations

147801

31
h-index

155660

55
g-index

83
all docs

83
docs citations

83
times ranked

4429
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of methane emissions from the U.S. oil and gas supply chain. <i>Science</i> , 2018, 361, 186-188.	12.6	519
2	Methane emissions estimate from airborne measurements over a western United States natural gas field. <i>Geophysical Research Letters</i> , 2013, 40, 4393-4397.	4.0	414
3	Hydrocarbon emissions characterization in the Colorado Front Range: A pilot study. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	359
4	Cold season emissions dominate the Arctic tundra methane budget. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 40-45.	7.1	278
5	A new look at methane and nonmethane hydrocarbon emissions from oil and natural gas operations in the Colorado Denver Julesburg Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6836-6852.	3.3	257
6	High-resolution atmospheric inversion of urban CO ₂ emissions during the dormant season of the Indianapolis Flux Experiment (INFLUX). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5213-5236.	3.3	219
7	Reconciling divergent estimates of oil and gas methane emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15597-15602.	7.1	209
8	Aircraft-Based Estimate of Total Methane Emissions from the Barnett Shale Region. <i>Environmental Science & Technology</i> , 2015, 49, 8124-8131.	10.0	190
9	Aircraft-Based Measurements of the Carbon Footprint of Indianapolis. <i>Environmental Science & Technology</i> , 2009, 43, 7816-7823.	10.0	167
10	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 411-429.	4.9	154
11	Seasonal climatology of CO ₂ across North America from aircraft measurements in the NOAA/ESRL Global Greenhouse Gas Reference Network. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5155-5190.	3.3	153
12	High accuracy measurements of dry mole fractions of carbon dioxide and methane in humid air. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 837-860.	3.1	151
13	Carbon dioxide sources from Alaska driven by increasing early winter respiration from Arctic tundra. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5361-5366.	7.1	149
14	Assessment of fossil fuel carbon dioxide and other anthropogenic trace gas emissions from airborne measurements over Sacramento, California in spring 2009. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 705-721.	4.9	148
15	Toward quantification and source sector identification of fossil fuel CO ₂ emissions from an urban area: Results from the INFLUX experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 292-312.	3.3	140
16	Linking emissions of fossil fuel CO ₂ and other anthropogenic trace gases using atmospheric ¹⁴ CO ₂ . <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	121
17	Assessment of uncertainties of an aircraft-based mass balance approach for quantifying urban greenhouse gas emissions. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9029-9050.	4.9	109
18	Airborne Ethane Observations in the Barnett Shale: Quantification of Ethane Flux and Attribution of Methane Emissions. <i>Environmental Science & Technology</i> , 2015, 49, 8158-8166.	10.0	100

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19	Quantifying atmospheric methane emissions from oil and natural gas production in the Bakken shale region of North Dakota. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6101-6111.	3.3	99
20	Carbon dioxide and methane measurements from the Los Angeles Megacity Carbon Project – Part 1: calibration, urban enhancements, and uncertainty estimates. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8313-8341.	4.9	96
21	Aircraft-Based Measurements of Point Source Methane Emissions in the Barnett Shale Basin. <i>Environmental Science & Technology</i> , 2015, 49, 7904-7913.	10.0	93
22	Long-term greenhouse gas measurements from aircraft. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 511-526.	3.1	87
23	Evaluation and environmental correction of ambient CO ₂ measurements from a low-cost NDIR sensor. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2383-2395.	3.1	72
24	Accurate measurements of carbon monoxide in humid air using the cavity ring-down spectroscopy (CRDS) technique. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1031-1040.	3.1	64
25	The Indianapolis Flux Experiment (INFLUX): A test-bed for developing urban greenhouse gas emission measurements. <i>Elementa</i> , 2017, 5, .	3.2	59
26	Methane emissions from Alaska in 2012 from CARVE airborne observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16694-16699.	7.1	58
27	Quantifying methane emissions from natural gas production in north-eastern Pennsylvania. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13941-13966.	4.9	54
28	Synthesis of Urban CO ₂ Emission Estimates from Multiple Methods from the Indianapolis Flux Project (INFLUX). <i>Environmental Science & Technology</i> , 2019, 53, 287-295.	10.0	50
29	Quantification and source apportionment of the methane emission flux from the city of Indianapolis. <i>Elementa</i> , 2015, 3, .	3.2	50
30	Assessing the optimized precision of the aircraft mass balance method for measurement of urban greenhouse gas emission rates through averaging. <i>Elementa</i> , 2017, 5, .	3.2	46
31	A multiyear estimate of methane fluxes in Alaska from CARVE atmospheric observations. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1441-1453.	4.9	36
32	An integrated flask sample collection system for greenhouse gas measurements. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2321-2327.	3.1	33
33	The Impact of COVID-19 on CO ₂ Emissions in the Los Angeles and Washington DC/Baltimore Metropolitan Areas. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092744.	4.0	32
34	Investigating sources of variability and error in simulations of carbon dioxide in an urban region. <i>Atmospheric Environment</i> , 2019, 199, 55-69.	4.1	28
35	Siting Background Towers to Characterize Incoming Air for Urban Greenhouse Gas Estimation: A Case Study in the Washington, DC/Baltimore Area. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2910-2926.	3.3	27
36	Greenhouse gas observations from the Northeast Corridor tower network. <i>Earth System Science Data</i> , 2020, 12, 699-717.	9.9	27

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37	Investigating Alaskan methane and carbon dioxide fluxes using measurements from the CARVE tower. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5383-5398.	4.9	26
38	Wintertime CO ₂ , CH ₄ , and CO Emissions Estimation for the Washington, DC–Baltimore Metropolitan Area Using an Inverse Modeling Technique. <i>Environmental Science & Technology</i> , 2020, 54, 2606-2614.	10.0	25
39	Intercomparison of atmospheric trace gas dispersion models: Barnett Shale case study. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2561-2576.	4.9	24
40	Atmospheric transport simulations in support of the Carbon in Arctic Reservoirs Vulnerability Experiment (CARVE). <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4093-4116.	4.9	22
41	An emerging GHG estimation approach can help cities achieve their climate and sustainability goals. <i>Environmental Research Letters</i> , 2021, 16, 084003.	5.2	22
42	Seasonally Resolved Excess Urban Methane Emissions from the Baltimore/Washington, DC Metropolitan Region. <i>Environmental Science & Technology</i> , 2019, 53, 11285-11293.	10.0	21
43	A Modified Vegetation Photosynthesis and Respiration Model (VPRM) for the Eastern USA and Canada, Evaluated With Comparison to Atmospheric Observations and Other Biospheric Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, e2021JG006290.	3.0	13
44	Bootstrap inversion technique for atmospheric trace gas source detection and quantification using long open-path laser measurements. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1565-1582.	3.1	12
45	Reducing errors in aircraft atmospheric inversion estimates of point-source emissions: the Aliso Canyon natural gas leak as a natural tracer experiment. <i>Environmental Research Letters</i> , 2018, 13, 045003.	5.2	10
46	Background conditions for an urban greenhouse gas network in the Washington, DC, and Baltimore metropolitan region. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6257-6273.	4.9	10
47	The influence of daily meteorology on boreal fire emissions and regional trace gas variability. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2793-2810.	3.0	9
48	O ₃ , CH ₄ , CO ₂ , CO, NO ₂ and NMHC aircraft measurements in the Uinta Basin oil and gas region under low and high ozone conditions in winter 2012 and 2013. <i>Elementa</i> , 2016, 4, .	3.2	8
49	New York City greenhouse gas emissions estimated with inverse modeling of aircraft measurements. <i>Elementa</i> , 2022, 10, .	3.2	8
50	Carbon Monoxide Emissions from the Washington, DC, and Baltimore Metropolitan Area: Recent Trend and COVID-19 Anomaly. <i>Environmental Science & Technology</i> , 2022, 56, 2172-2180.	10.0	7
51	Assessment of Planetary Boundary Layer Parameterizations and Urban Heat Island Comparison: Impacts and Implications for Tracer Transport. <i>Journal of Applied Meteorology and Climatology</i> , 2020, 59, 1637-1653.	1.5	5
52	A multi-city urban atmospheric greenhouse gas measurement data synthesis. <i>Scientific Data</i> , 2022, 9, .	5.3	5
53	Greenhouse gas observations from the Northeast Corridor tower network. <i>Earth System Science Data</i> , 2020, 12, .	9.9	3
54	The impact of the COVID-19 lockdown on greenhouse gases: a multi-city analysis of in situ atmospheric observations. <i>Environmental Research Communications</i> , 2022, 4, 041004.	2.3	2

#	ARTICLE	IF	CITATIONS
55	Lidar Characterization of Boundary Layer Transport and Mixing for Estimating Urban-Scale Greenhouse Gas Emissions. EPJ Web of Conferences, 2016, 119, 09001.	0.3	1