Daniel Zavala-Araiza

List of Publications by Year
in descending order

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35 papers	2,533 citations	236925 25 h-index	377865 34 g-index
45 all docs	45 docs citations	45 times ranked	2101 citing authors

#	Article	IF	Citations
1	Satellites Detect Abatable Super-Emissions in One of the Worldâ€™s Largest Methane Hotspot Regions. Environmental Science & Technology, 2022, 56, 2143-2152.	10.0	40
2	Methane emissions from US low production oil and natural gas well sites. Nature Communications, 2022, 13, 2085.	12.8	28
3	Applications of top-down methods to anthropogenic GHG emission estimation. , 2022, , 455-481.		0
4	Satellites Detect a Methane Ultra-emission Event from an Offshore Platform in the Gulf of Mexico. Environmental Science and Technology Letters, 2022, 9, 520-525.	8.7	25
5	A tale of two regions: methane emissions from oil and gas production in offshore/onshore Mexico. Environmental Research Letters, 2021, 16, 024019.	5.2	30
6	Unravelling a large methane emission discrepancy in Mexico using satellite observations. Remote Sensing of Environment, 2021, 260, 112461.	11.0	49
7	New Mexico Permian Basin Measured Well Pad Methane Emissions Are a Factor of 5â€“9 Times Higher Than U.S. EPA Estimates. Environmental Science & Technology, 2020, 54, 13926-13934.	10.0	48
8	Quantifying methane emissions from the largest oil-producing basin in the United States from space. Science Advances, 2020, 6, eaaz5120.	10.3	155
9	A gridded inventory of anthropogenic methane emissions from Mexico based on Mexicoâ€™s national inventory of greenhouse gases and compounds. Environmental Research Letters, 2020, 15, 105015.	5.2	19
10	Methane mapping, emission quantification, and attribution in two European cities: Utrecht (NL) and Hamburg (DE). Atmospheric Chemistry and Physics, 2020, 20, 14717-14740.	4.9	29
11	Satelliteâ€Observed Changes in Mexico's Offshore Gas Flaring Activity Linked to Oil/Gas Regulations. Geophysical Research Letters, 2019, 46, 1879-1888.	4.0	32
12	Characterization of methane emissions from five cold heavy oil production with sands (CHOPS) facilities. Journal of the Air and Waste Management Association, 2018, 68, 671-684.	1.9	32
13	High nitrous oxide fluxes from rice indicate the need to manage water for both long- and short-term climate impacts. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9720-9725.	7.1	121
14	2010â€“2016 methane trends over Canada, the United States, and Mexico observed by the GOSAT satellite: contributions from different source sectors. Atmospheric Chemistry and Physics, 2018, 18, 12257-12267.	4.9	35
15	Assessment of methane emissions from the U.S. oil and gas supply chain. Science, 2018, 361, 186-188.	12.6	519
16	Methane emissions from oil and gas production sites in Alberta, Canada. Elementa, 2018, 6, .	3.2	45
17	Methane emissions in the Netherlands: The Groningen field. Elementa, 2018, 6, .	3.2	25
18	Super-emitters in natural gas infrastructure are caused by abnormal process conditions. Nature Communications, 2017, 8, 14012.	12.8	118

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19	A high-resolution (0.1Â°ÂÃ—Â0.1Â°) inventory of methane emissions from Canadian and Mexican oil and gas systems. Atmospheric Environment, 2017, 158, 211-215.	4.1	34
20	Comparisons of Airborne Measurements and Inventory Estimates of Methane Emissions in the Alberta Upstream Oil and Gas Sector. Environmental Science & Technology, 2017, 51, 13008-13017.	10.0	102
21	Night-time lights: A global, long term look at links to socio-economic trends. PLoS ONE, 2017, 12, e0174610.	2.5	79
22	Aerial Surveys of Elevated Hydrocarbon Emissions from Oil and Gas Production Sites. Environmental Science & Technology, 2016, 50, 4877-4886.	10.0	105
23	Reconciling divergent estimates of oil and gas methane emissions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15597-15602.	7.1	209
24	Allocating Methane Emissions to Natural Gas and Oil Production from Shale Formations. ACS Sustainable Chemistry and Engineering, 2015, 3, 492-498.	6.7	29
25	Methane Emissions from Process Equipment at Natural Gas Production Sites in the United States: Pneumatic Controllers. Environmental Science & Technology, 2015, 49, 633-640.	10.0	123
26	Methane Emissions from Process Equipment at Natural Gas Production Sites in the United States: Liquid Unloadings. Environmental Science & Technology, 2015, 49, 641-648.	10.0	86
27	Toward a Functional Definition of Methane Super-Emitters: Application to Natural Gas Production Sites. Environmental Science & Technology, 2015, 49, 8167-8174.	10.0	116
28	Using Multi-Scale Measurements to Improve Methane Emission Estimates from Oil and Gas Operations in the Barnett Shale Region, Texas. Environmental Science & Technology, 2015, 49, 7524-7526.	10.0	48
29	Constructing a Spatially Resolved Methane Emission Inventory for the Barnett Shale Region. Environmental Science & Technology, 2015, 49, 8147-8157.	10.0	133
30	Atmospheric Hydrocarbon Emissions and Concentrations in the Barnett Shale Natural Gas Production Region. Environmental Science & Technology, 2014, 48, 5314-5321.	10.0	40
31	A Demonstration of Simultaneous Electrochemiluminescence. Journal of Chemical Education, 2013, 90, 470-472.	2.3	5
32	Simultaneous Electroluminescence. Journal of the Chinese Chemical Society, 2013, 60, 407-411.	1.4	1
33	Regional Air Quality Impacts of Increased Natural Gas Production and Use in Texas. Environmental Science & Technology, 2013, 47, 3521-3527.	10.0	50
34	Electrochemical Paired Convergent Production of ClO₂ from NaClO₂ and NaClO₃. ECS Transactions, 2009, 20, 91-101.	0.5	9
35	Cathodic Production of ClO[sub 2] from NaClO[sub 3]. Journal of the Electrochemical Society, 2009, 156, E113.	2.9	8