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	Assessment of methane emissions from the U.S. oil and gas supply chain. Science, 2018, 361, 186-188.	12.6	519
2	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
3	Quantifying methane emissions from the largest oil-producing basin in the United States from space. Science Advances, 2020, 6, eaaz5120.	10.3	155
4	Constructing a Spatially Resolved Methane Emission Inventory for the Barnett Shale Region. Environmental Science & Technology, 2015, 49, 8147-8157.	10.0	133
5	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
6	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
7	Super-emitters in natural gas infrastructure are caused by abnormal process conditions. Nature Communications, 2017, 8, 14012.	12.8	118
8	Toward a Functional Definition of Methane Super-Emitters: Application to Natural Gas Production Sites. Environmental Science & Technology, 2015, 49, 8167-8174.	10.0	116
9	Aerial Surveys of Elevated Hydrocarbon Emissions from Oil and Gas Production Sites. Environmental Science & Technology, 2016, 50, 4877-4886.	10.0	105
10	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
11	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
12	Night-time lights: A global, long term look at links to socio-economic trends. PLoS ONE, 2017, 12, e0174610.	2.5	79
13	Regional Air Quality Impacts of Increased Natural Gas Production and Use in Texas. Environmental Science & Technology, 2013, 47, 3521-3527.	10.0	50
14	Unravelling a large methane emission discrepancy in Mexico using satellite observations. Remote Sensing of Environment, 2021, 260, 112461.	11.0	49
15	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
16	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
17	Methane emissions from oil and gas production sites in Alberta, Canada. Elementa, 2018, 6, .	3.2	45
18	Atmospheric Hydrocarbon Emissions and Concentrations in the Barnett Shale Natural Gas Production Region. Environmental Science & Technology, 2014, 48, 5314-5321.	10.0	40

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	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
24	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
25	Allocating Methane Emissions to Natural Gas and Oil Production from Shale Formations. ACS Sustainable Chemistry and Engineering, 2015, 3, 492-498.	6.7	29
26	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
27	Methane emissions from US low production oil and natural gas well sites. Nature Communications, 2022, 13, 2085.	12.8	28
28	Methane emissions in the Netherlands: The Groningen field. Elementa, 2018, 6, .	3.2	25
29	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
30	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
31	Electrochemical Paired Convergent Production of ClO₂ from NaClO₂ and NaClO₃. ECS Transactions, 2009, 20, 91-101.	0.5	9
32	Cathodic Production of ClO[sub 2] from NaClO[sub 3]. Journal of the Electrochemical Society, 2009, 156, E113.	2.9	8
33	A Demonstration of Simultaneous Electrochemiluminescence. Journal of Chemical Education, 2013, 90, 470-472.	2.3	5
34	Simultaneous Electroluminescence. Journal of the Chinese Chemical Society, 2013, 60, 407-411.	1.4	1
35	Applications of top-down methods to anthropogenic GHG emission estimation. , 2022, , 455-481.		0