David R Lyon

List of Publications by Year
in descending order

24 papers	2,555 citations	304743 22 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	1717 citing authors

#	Article	IF	Citations
1	Methane emissions from US low production oil and natural gas well sites. Nature Communications, 2022, 13, 2085.	12.8	28
2	Methane, carbon dioxide, hydrogen sulfide, and isotopic ratios of methane observations from the Permian Basin tower network. Earth System Science Data, 2022, 14, 2401-2417.	9.9	6
3	Mobile Measurement System for the Rapid and Cost-Effective Surveillance of Methane and Volatile Organic Compound Emissions from Oil and Gas Production Sites. Environmental Science & Technology, 2021, 55, 581-592.	10.0	14
4	Concurrent variation in oil and gas methane emissions and oil price during the COVID-19 pandemic. Atmospheric Chemistry and Physics, 2021, 21, 6605-6626.	4.9	55
5	Satellite-based survey of extreme methane emissions in the Permian basin. Science Advances, 2021, 7, .	10.3	66
6	Closing the methane gap in US oil and natural gas production emissions inventories. Nature Communications, 2021, 12, 4715.	12.8	77
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	Aerial Interyear Comparison and Quantification of Methane Emissions Persistence in the Bakken Formation of North Dakota, USA. Environmental Science & Technology, 2018, 52, 8947-8953.	10.0	28
10	Assessment of methane emissions from the U.S. oil and gas supply chain. Science, 2018, 361, 186-188.	12.6	519
11	Super-emitters in natural gas infrastructure are caused by abnormal process conditions. Nature Communications, 2017, 8, 14012.	12.8	118
12	Spatiotemporal Variability of Methane Emissions at Oil and Natural Gas Operations in the Eagle Ford Basin. Environmental Science & Technology, 2017, 51, 8001-8009.	10.0	42
13	Emissions of coalbed and natural gas methane from abandoned oil and gas wells in the United States. Geophysical Research Letters, 2016, 43, 2283-2290.	4.0	100
14	Aerial Surveys of Elevated Hydrocarbon Emissions from Oil and Gas Production Sites. Environmental Science & Technology, 2016, 50, 4877-4886.	10.0	105
15	Estimating Emissions of Toxic Hydrocarbons from Natural Gas Production Sites in the Barnett Shale Region of Northern Texas. Environmental Science & Technology, 2016, 50, 10756-10764.	10.0	41
16	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
17	Integrating Source Apportionment Tracers into a Bottom-up Inventory of Methane Emissions in the Barnett Shale Hydraulic Fracturing Region. Environmental Science & Technology, 2015, 49, 8175-8182.	10.0	55
18	Toward a Functional Definition of Methane Super-Emitters: Application to Natural Gas Production Sites. Environmental Science & Technology, 2015, 49, 8167-8174.	10.0	116

#	Article	IF	Citations
19	Aircraft-Based Estimate of Total Methane Emissions from the Barnett Shale Region. Environmental Science & Technology, 2015, 49, 8124-8131.	10.0	190
20	Aircraft-Based Measurements of Point Source Methane Emissions in the Barnett Shale Basin. Environmental Science & Technology, 2015, 49, 7904-7913.	10.0	93
21	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
22	Mobile Laboratory Observations of Methane Emissions in the Barnett Shale Region. Environmental Science & Technology, 2015, 49, 7889-7895.	10.0	128
23	Constructing a Spatially Resolved Methane Emission Inventory for the Barnett Shale Region. Environmental Science & Technology, 2015, 49, 8147-8157.	10.0	133
24	Assessment of Methane Emissions from Oil and Gas Production Pads using Mobile Measurements. Environmental Science & Technology, 2014, 48, 14508-14515.	10.0	175