Xin Lan

List of Publications by Year
in descending order

22 papers	1,099 citations	567281 15 h-index	713466 21 g-index
30 all docs	30 docs citations	30 times ranked	1435 citing authors

#	Article	IF	Citations
1	Improved global wetland carbon isotopic signatures support post-2006 microbial methane emission increase. Communications Earth & Environment, 2022, 3, .	6.8	11
2	Interannual variability on methane emissions in monsoon Asia derived from GOSAT and surface observations. Environmental Research Letters, 2021, 16, 024040.	5.2	14
3	Improved Constraints on Global Methane Emissions and Sinks Using <i>Î´</i>¹³Câ€CH₄. Global Biogeochemical Cycles, 2021, 35, e2021GB007000.	4.9	50
4	The added value of satellite observations of methane forunderstanding the contemporary methane budget. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20210106.	3.4	21
5	What do we know about the global methane budget? Results from four decades of atmospheric CH₄observations and the way forward. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200440.	3.4	23
6	Sustained methane emissions from China after 2012 despite declining coal production and rice-cultivated area. Environmental Research Letters, 2021, 16, 104018.	5.2	19
7	Comparison of Atmospheric Mercury Speciation at a Coastal and an Urban Site in Southeastern Texas, USA. Atmosphere, 2020, 11, 73.	2.3	6
8	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	3.3	61
9	Characterizing anthropogenic methane sources in the Houston and Barnett Shale areas of Texas using the isotopic signature Î´13C in CH4. Science of the Total Environment, 2019, 696, 133856.	8.0	7
10	Longâ€Term Measurements Show Little Evidence for Large Increases in Total U.S. Methane Emissions Over the Past Decade. Geophysical Research Letters, 2019, 46, 4991-4999.	4.0	35
11	Advancing Scientific Understanding of the Global Methane Budget in Support of the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 1475-1512.	4.9	73
12	Gradients of column CO₂ across North America from the NOAA Global Greenhouse Gas Reference Network. Atmospheric Chemistry and Physics, 2017, 17, 15151-15165.	4.9	12
13	Atmospheric Mercury in the Barnett Shale Area, Texas: Implications for Emissions from Oil and Gas Processing. Environmental Science & Technology, 2015, 49, 10692-10700.	10.0	9
14	Influence of Climate Change and Meteorological Factors on Houstonâ€™s Air Pollution: Ozone a Case Study. Atmosphere, 2015, 6, 623-640.	2.3	27
15	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
16	Toward a Functional Definition of Methane Super-Emitters: Application to Natural Gas Production Sites. Environmental Science & Technology, 2015, 49, 8167-8174.	10.0	116
17	Aircraft-Based Measurements of Point Source Methane Emissions in the Barnett Shale Basin. Environmental Science & Technology, 2015, 49, 7904-7913.	10.0	93
18	Characterizing Fugitive Methane Emissions in the Barnett Shale Area Using a Mobile Laboratory. Environmental Science & Technology, 2015, 49, 8139-8146.	10.0	85

#	ARTICLE	IF	CITATIONS
19	Constructing a Spatially Resolved Methane Emission Inventory for the Barnett Shale Region. Environmental Science & Technology, 2015, 49, 8147-8157.	10.0	133
20	Seasonal and Diurnal Variations of Total Gaseous Mercury in Urban Houston, TX, USA. Atmosphere, 2014, 5, 399-419.	2.3	16
21	Seasonal and diurnal variations of atmospheric mercury across the US determined from AMNet monitoring data. Atmospheric Chemistry and Physics, 2012, 12, 10569-10582.	4.9	75
22	Hydrocarbon Tracers Suggest Methane Emissions from Fossil Sources Occur Predominately Before Gas Processing and That Petroleum Plays Are a Significant Source. Environmental Science & Technology, 0, , .	10.0	3