

Xin Lan

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Constructing a Spatially Resolved Methane Emission Inventory for the Barnett Shale Region. Environmental Science & Technology, 2015, 49, 8147-8157.	10.0	133
3	Toward a Functional Definition of Methane Super-Emitters: Application to Natural Gas Production Sites. Environmental Science & Technology, 2015, 49, 8167-8174.	10.0	116
4	Aircraft-Based Measurements of Point Source Methane Emissions in the Barnett Shale Basin. Environmental Science & Technology, 2015, 49, 7904-7913.	10.0	93
5	Characterizing Fugitive Methane Emissions in the Barnett Shale Area Using a Mobile Laboratory. Environmental Science & Technology, 2015, 49, 8139-8146.	10.0	85
6	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
7	Advancing Scientific Understanding of the Global Methane Budget in Support of the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 1475-1512.	4.9	73
8	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	3.3	61
9	Improved Constraints on Global Methane Emissions and Sinks Using $\delta^{13}\text{C}$. Global Biogeochemical Cycles, 2021, 35, e2021GB007000.	4.9	50
10	Long-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	Influence of Climate Change and Meteorological Factors on Houston's Air Pollution: Ozone a Case Study. Atmosphere, 2015, 6, 623-640.	2.3	27
12	What do we know about the global methane budget? Results from four decades of atmospheric CH_4 observations and the way forward. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200440.	3.4	23
13	The added value of satellite observations of methane for understanding the contemporary methane budget. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20210106.	3.4	21
14	Sustained methane emissions from China after 2012 despite declining coal production and rice-cultivated area. Environmental Research Letters, 2021, 16, 104018.	5.2	19
15	Seasonal and Diurnal Variations of Total Gaseous Mercury in Urban Houston, TX, USA. Atmosphere, 2014, 5, 399-419.	2.3	16
16	Interannual variability on methane emissions in monsoon Asia derived from GOSAT and surface observations. Environmental Research Letters, 2021, 16, 024040.	5.2	14
17	Gradients of column CO_2 across North America from the NOAA Global Greenhouse Gas Reference Network. Atmospheric Chemistry and Physics, 2017, 17, 15151-15165.	4.9	12
18	Improved global wetland carbon isotopic signatures support post-2006 microbial methane emission increase. Communications Earth & Environment, 2022, 3, .	6.8	11

#	ARTICLE	IF	CITATIONS
19	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
20	Characterizing anthropogenic methane sources in the Houston and Barnett Shale areas of Texas using the isotopic signature $\delta^{13}\text{C}$ in CH_4 . Science of the Total Environment, 2019, 696, 133856.	8.0	7
21	Comparison of Atmospheric Mercury Speciation at a Coastal and an Urban Site in Southeastern Texas, USA. Atmosphere, 2020, 11, 73.	2.3	6
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