

# Stefan Schwietzke

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3275053/publications.pdf>

Version: 2024-02-01

34  
papers

1,998  
citations

257450

24  
h-index

361022

35  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2390  
citing authors

#	ARTICLE	IF	CITATIONS
1	Upward revision of global fossil fuel methane emissions based on isotope database. <i>Nature</i> , 2016, 538, 88-91.	27.8	400
2	China's coal mine methane regulations have not curbed growing emissions. <i>Nature Communications</i> , 2019, 10, 303.	12.8	125
3	Global Inventory of Gas Geochemistry Data from Fossil Fuel, Microbial and Burning Sources, version 2017. <i>Earth System Science Data</i> , 2017, 9, 639-656.	9.9	125
4	Comparisons of Airborne Measurements and Inventory Estimates of Methane Emissions in the Alberta Upstream Oil and Gas Sector. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13008-13017.	10.0	102
5	Gridded maps of geological methane emissions and their isotopic signature. <i>Earth System Science Data</i> , 2019, 11, 1-22.	9.9	102
6	Temporal variability largely explains top-down/bottom-up difference in methane emission estimates from a natural gas production region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11712-11717.	7.1	87
7	Application of Gauss's theorem to quantify localized surface emissions from airborne measurements of wind and trace gases. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3345-3358.	3.1	86
8	Improved Mechanistic Understanding of Natural Gas Methane Emissions from Spatially Resolved Aircraft Measurements. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7286-7294.	10.0	83
9	Advancing Scientific Understanding of the Global Methane Budget in Support of the Paris Agreement. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1475-1512.	4.9	73
10	Natural Gas Fugitive Emissions Rates Constrained by Global Atmospheric Methane and Ethane. <i>Environmental Science &amp; Technology</i> , 2014, 48, 7714-7722.	10.0	71
11	Discrepancy between simulated and observed ethane and propane levels explained by underestimated fossil emissions. <i>Nature Geoscience</i> , 2018, 11, 178-184.	12.9	56
12	Quantifying methane emissions from natural gas production in north-eastern Pennsylvania. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13941-13966.	4.9	54
13	Airborne Quantification of Methane Emissions over the Four Corners Region. <i>Environmental Science &amp; Technology</i> , 2017, 51, 5832-5837.	10.0	52
14	Improved Constraints on Global Methane Emissions and Sinks Using $\delta^{13}\text{C}$ . <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007000.	4.9	50
15	U.S. $\text{CH}_4$ emissions from oil and gas production: Have recent large increases been detected?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4070-4083.	3.3	47
16	Relevance of Emissions Timing in Biofuel Greenhouse Gases and Climate Impacts. <i>Environmental Science &amp; Technology</i> , 2011, 45, 8197-8203.	10.0	40
17	Global Bottom-Up Fossil Fuel Fugitive Methane and Ethane Emissions Inventory for Atmospheric Modeling. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1992-2001.	6.7	40
18	Global geological methane emissions: An update of top-down and bottom-up estimates. <i>Elementa</i> , 2019, 7, .	3.2	37

#	ARTICLE	IF	CITATIONS
19	Aerially guided leak detection and repair: A pilot field study for evaluating the potential of methane emission detection and cost-effectiveness. <i>Journal of the Air and Waste Management Association</i> , 2019, 69, 71-88.	1.9	36
20	Long-Term Measurements Show Little Evidence for Large Increases in Total U.S. Methane Emissions Over the Past Decade. <i>Geophysical Research Letters</i> , 2019, 46, 4991-4999.	4.0	35
21	A tale of two regions: methane emissions from oil and gas production in offshore/onshore Mexico. <i>Environmental Research Letters</i> , 2021, 16, 024019.	5.2	30
22	Comparing facility-level methane emission rate estimates at natural gas gathering and boosting stations. <i>Elementa</i> , 2017, 5, .	3.2	29
23	Using global isotopic data to constrain the role of shale gas production in recent increases in atmospheric methane. <i>Scientific Reports</i> , 2020, 10, 4199.	3.3	29
24	Methane mapping, emission quantification, and attribution in two European cities: Utrecht (NL) and Hamburg (DE). <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14717-14740.	4.9	29
25	Ethanol Production from Maize. <i>Biotechnology in Agriculture and Forestry</i> , 2009, , 347-364.	0.2	25
26	Isotopic source signatures: Impact of regional variability on the $\delta^{13}\text{C}$ trend and spatial distribution. <i>Atmospheric Environment</i> , 2018, 174, 99-111.	4.1	24
27	Quantification and assessment of methane emissions from offshore oil and gas facilities on the Norwegian continental shelf. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4303-4322.	4.9	23
28	Characterizing Regional Methane Emissions from Natural Gas Liquid Unloading. <i>Environmental Science &amp; Technology</i> , 2019, 53, 4619-4629.	10.0	17
29	Isotopic signatures of major methane sources in the coal seam gas fields and adjacent agricultural districts, Queensland, Australia. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10527-10555.	4.9	14
30	Improved global wetland carbon isotopic signatures support post-2006 microbial methane emission increase. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	11
31	Methane source attribution in a U.S. dry gas basin using spatial patterns of ground and airborne ethane and methane measurements. <i>Elementa</i> , 2019, 7, .	3.2	10
32	Investigating large methane enhancements in the U.S. San Juan Basin. <i>Elementa</i> , 2020, 8, .	3.2	8
33	Coal seam gas industry methane emissions in the Surat Basin, Australia: comparing airborne measurements with inventories. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200458.	3.4	7
34	Conflicting estimates of natural geologic methane emissions. <i>Elementa</i> , 2021, 9, .	3.2	3