Stefan Schwietzke

List of Publications by Year
in descending order

34	1,998	257450 24	361022 35
papers	citations	h-index	g-index

52	52	52	2390
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantification and assessment of methane emissions from offshore oil and gas facilities on the Norwegian continental shelf. Atmospheric Chemistry and Physics, 2022, 22, 4303-4322.	4.9	23
2	Improved global wetland carbon isotopic signatures support post-2006 microbial methane emission increase. Communications Earth & Environment, 2022, 3, .	6.8	11
3	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
4	Improved Constraints on Global Methane Emissions and Sinks Using Î´¹³Câ€CH₄. Global Biogeochemical Cycles, 2021, 35, e2021GB007000.	4.9	50
5	Isotopic signatures of major methane sources in the coal seam gas fields and adjacent agricultural districts, Queensland, Australia. Atmospheric Chemistry and Physics, 2021, 21, 10527-10555.	4.9	14
6	Coal seam gas industry methane emissions in the Surat Basin, Australia: comparing airborne measurements with inventories. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200458.	3.4	7
7	Conflicting estimates of natural geologic methane emissions. Elementa, 2021, 9, .	3.2	3
8	Using global isotopic data to constrain the role of shale gas production in recent increases in atmospheric methane. Scientific Reports, 2020, 10, 4199.	3.3	29
9	Investigating large methane enhancements in the U.S. San Juan Basin. Elementa, 2020, 8, .	3.2	8
10	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
11	Chinaâ€™s coal mine methane regulations have not curbed growing emissions. Nature Communications, 2019, 10, 303.	12.8	125
12	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
13	Characterizing Regional Methane Emissions from Natural Gas Liquid Unloading. Environmental Science & Technology, 2019, 53, 4619-4629.	10.0	17
14	Advancing Scientific Understanding of the Global Methane Budget in Support of the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 1475-1512.	4.9	73
15	Aerially guided leak detection and repair: A pilot field study for evaluating the potential of methane emission detection and cost-effectiveness. Journal of the Air and Waste Management Association, 2019, 69, 71-88.	1.9	36
16	Methane source attribution in a U.S. dry gas basin using spatial patterns of ground and airborne ethane and methane measurements. Elementa, 2019, 7, .	3.2	10
17	Global geological methane emissions: An update of top-down and bottom-up estimates. Elementa, 2019, 7, .	3.2	37
18	Gridded maps of geological methane emissions and their isotopic signature. Earth System Science Data, 2019, 11, 1-22.	9.9	102

#	Article	IF	Citations
19	Discrepancy between simulated and observed ethane and propane levels explained by underestimated fossil emissions. Nature Geoscience, 2018, 11, 178-184.	12.9	56
20	Isotopic source signatures: Impact of regional variability on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mi>Î´</mml:mi><mml:mrow><mml:mn>13</mml:mn></mml:mrow></mml:msup><m trend and spatial distribution. Atmospheric Environment, 2018, 174, 99-111.	4.1	24
21	Temporal variability largely explains top-down/bottom-up difference in methane emission estimates from a natural gas production region. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11712-11717.	7.1	87
22	Airborne Quantification of Methane Emissions over the Four Corners Region. Environmental Science & Technology, 2017, 51, 5832-5837.	10.0	52
23	Improved Mechanistic Understanding of Natural Gas Methane Emissions from Spatially Resolved Aircraft Measurements. Environmental Science & Technology, 2017, 51, 7286-7294.	10.0	83
24	U.S. CH₄ emissions from oil and gas production: Have recent large increases been detected?. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4070-4083.	3.3	47
25	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
26	Quantifying methane emissions from natural gas production in north-eastern Pennsylvania. Atmospheric Chemistry and Physics, 2017, 17, 13941-13966.	4.9	54
27	Comparing facility-level methane emission rate estimates at natural gas gathering and boosting stations. Elementa, 2017, 5, .	3.2	29
28	Application of Gauss's theorem to quantify localized surface emissions from airborne measurements of wind and trace gases. Atmospheric Measurement Techniques, 2017, 10, 3345-3358.	3.1	86
29	Global Inventory of Gas Geochemistry Data from Fossil Fuel, Microbial and Burning Sources, version 2017. Earth System Science Data, 2017, 9, 639-656.	9.9	125
30	Upward revision of global fossil fuel methane emissions based on isotope database. Nature, 2016, 538, 88-91.	27.8	400
31	Global Bottom-Up Fossil Fuel Fugitive Methane and Ethane Emissions Inventory for Atmospheric Modeling. ACS Sustainable Chemistry and Engineering, 2014, 2, 1992-2001.	6.7	40
32	Natural Gas Fugitive Emissions Rates Constrained by Global Atmospheric Methane and Ethane. Environmental Science & Technology, 2014, 48, 7714-7722.	10.0	71
33	Relevance of Emissions Timing in Biofuel Greenhouse Gases and Climate Impacts. Environmental Science & Technology, 2011, 45, 8197-8203.	10.0	40
34	Ethanol Production from Maize. Biotechnology in Agriculture and Forestry, 2009, , 347-364.	0.2	25