Jian-Xiong Sheng

List of Publications by Year
in descending order

24 papers	1,303 citations	394421 19 h-index	610901 24 g-index
51 all docs	51 docs citations	51 times ranked	1565 citing authors

#	Article	IF	Citations
1	Global methane budget and trend, 2010â€“2017: complementarity of inverse analyses using in situ (GLOBALVIEWplus CH₄ ObsPack) and satellite (GOSAT) observations. Atmospheric Chemistry and Physics, 2021, 21, 4637-4657.	4.9	55
2	2010â€“2015 North American methane emissions, sectoral contributions, and trends: a high-resolution inversion of GOSAT observations of atmospheric methane. Atmospheric Chemistry and Physics, 2021, 21, 4339-4356.	4.9	45
3	Attribution of the accelerating increase in atmospheric methane during 2010â€“2018 by inverse analysis of GOSAT observations. Atmospheric Chemistry and Physics, 2021, 21, 3643-3666.	4.9	68
4	Unravelling a large methane emission discrepancy in Mexico using satellite observations. Remote Sensing of Environment, 2021, 260, 112461.	11.0	49
5	Satellite Constraints on the Latitudinal Distribution and Temperature Sensitivity of Wetland Methane Emissions. AGU Advances, 2021, 2, e2021AV000408.	5.4	31
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	Estimating 2010â€“2015 anthropogenic and natural methane emissions in Canada using ECCC surface and GOSAT satellite observations. Atmospheric Chemistry and Physics, 2021, 21, 18101-18121.	4.9	11
8	A global gridded (0.1Â°â€‰Ã—â€‰0.1Â°) inventory of methane emissions from oil, gas, and coal exploitation based on national reports to the United Nations Framework Convention on Climate Change. Earth System Science Data, 2020, 12, 563-575.	9.9	60
9	Global distribution of methane emissions, emission trends, and OH concentrations and trends inferred from an inversion of GOSAT satellite data for 2010â€“2015. Atmospheric Chemistry and Physics, 2019, 19, 7859-7881.	4.9	111
10	Bottom-Up Estimates of Coal Mine Methane Emissions in China: A Gridded Inventory, Emission Factors, and Trends. Environmental Science and Technology Letters, 2019, 6, 473-478.	8.7	52
11	Satelliteâ€Observed Changes in Mexico's Offshore Gas Flaring Activity Linked to Oil/Gas Regulations. Geophysical Research Letters, 2019, 46, 1879-1888.	4.0	32
12	Detecting high-emitting methane sources in oil/gas fields using satellite observations. Atmospheric Chemistry and Physics, 2018, 18, 16885-16896.	4.9	39
13	High-resolution inversion of methane emissions in the Southeast US using SEAC⁴RS aircraft observations of atmospheric methane: anthropogenic and wetland sources. Atmospheric Chemistry and Physics, 2018, 18, 6483-6491.	4.9	38
14	Comparative analysis of low-Earth orbit (TROPOMI) and geostationary (GeoCARB, GEO-CAPE) satellite instruments for constraining methane emissions on fine regional scales: application to the Southeast US. Atmospheric Measurement Techniques, 2018, 11, 6379-6388.	3.1	17
15	Monitoring global tropospheric OH concentrations using satellite observations of atmospheric methane. Atmospheric Chemistry and Physics, 2018, 18, 15959-15973.	4.9	34
16	The Interactive Stratospheric Aerosol Model Intercomparison ProjectÂ(ISA-MIP): motivation and experimental design. Geoscientific Model Development, 2018, 11, 2581-2608.	3.6	57
17	2010â€“2016 methane trends over Canada, the United States, and Mexico observed by the GOSAT satellite: contributions from different source sectors. Atmospheric Chemistry and Physics, 2018, 18, 12257-12267.	4.9	35
18	Stratospheric aerosol evolution after Pinatubo simulated with a coupled size-resolved aerosolâ€“chemistryâ€“climate model, SOCOL-AERv1.0. Geoscientific Model Development, 2018, 11, 2633-2647.	3.6	16

#	Article	IF	Citations
19	A high-resolution (0.1Â°ÂÃ—Â0.1Â°) inventory of methane emissions from Canadian and Mexican oil and gas systems. Atmospheric Environment, 2017, 158, 211-215.	4.1	34
20	Longâ€term (2005â€“2014) trends in formaldehyde (HCHO) columns across North America as seen by the OMI satellite instrument: Evidence of changing emissions of volatile organic compounds. Geophysical Research Letters, 2017, 44, 7079-7086.	4.0	68
21	Satellite observations of atmospheric methane and their value for quantifying methane emissions. Atmospheric Chemistry and Physics, 2016, 16, 14371-14396.	4.9	230
22	Global atmospheric sulfur budget under volcanically quiescent conditions: Aerosolâ€chemistryâ€climate model predictions and validation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 256-276.	3.3	81
23	A perturbed parameter model ensemble to investigate Mt. Pinatubo's 1991 initial sulfur mass emission. Atmospheric Chemistry and Physics, 2015, 15, 11501-11512.	4.9	16
24	Modeling the stratospheric warming following the Mt. Pinatubo eruption: uncertainties in aerosol extinctions. Atmospheric Chemistry and Physics, 2013, 13, 11221-11234.	4.9	68