

Yuzhong Zhang

List of Publications by Year in descending order

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39
papers

2,852
citations

218381

26
h-index

301761

39
g-index

72
all docs

72
docs citations

72
times ranked

3147
citing authors

#	ARTICLE	IF	CITATIONS
1	Methane emissions in the United States, Canada, and Mexico: evaluation of national methane emission inventories and 2010–2017 sectoral trends by inverse analysis of in situ (GLOBALVIEWplus) Tj ETQq1 1 0.784314. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 395-418.	1.9	25
2	Updated Global Fuel Exploitation Inventory (GFEI) for methane emissions from the oil, gas, and coal sectors: evaluation with inversions of atmospheric methane observations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3235-3249.	1.9	22
3	The 2019 methane budget and uncertainties at 1° resolution and each country through Bayesian integration Of GOSAT total column methane data and a priori inventory estimates. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6811-6841.	1.9	24
4	Global methane budget and trend, 2010–2017: complementarity of inverse analyses using in situ (GLOBALVIEWplus CH ₄ and ObsPack) and satellite (GOSAT) observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4637-4657.	1.9	55
5	2010–2015 North American methane emissions, sectoral contributions, and trends: a high-resolution inversion of GOSAT observations of atmospheric methane. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4339-4356.	1.9	45
6	Attribution of the accelerating increase in atmospheric methane during 2010–2018 by inverse analysis of GOSAT observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3643-3666.	1.9	68
7	Control of particulate nitrate air pollution in China. <i>Nature Geoscience</i> , 2021, 14, 389-395.	5.4	139
8	Satellite-based survey of extreme methane emissions in the Permian basin. <i>Science Advances</i> , 2021, 7, .	4.7	66
9	Unravelling a large methane emission discrepancy in Mexico using satellite observations. <i>Remote Sensing of Environment</i> , 2021, 260, 112461.	4.6	49
10	Reduced-cost construction of Jacobian matrices for high-resolution inversions of satellite observations of atmospheric composition. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5521-5534.	1.2	5
11	Satellite Constraints on the Latitudinal Distribution and Temperature Sensitivity of Wetland Methane Emissions. <i>AGU Advances</i> , 2021, 2, e2021AV000408.	2.3	31
12	Global distribution of methane emissions: a comparative inverse analysis of observations from the TROPOMI and GOSAT satellite instruments. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14159-14175.	1.9	54
13	Sustained methane emissions from China after 2012 despite declining coal production and rice-cultivated area. <i>Environmental Research Letters</i> , 2021, 16, 104018.	2.2	19
14	Global modeling of heterogeneous hydroxymethanesulfonate chemistry. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 457-481.	1.9	17
15	A Bayesian framework for deriving sector-based methane emissions from top-down fluxes. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	12
16	COVID-19 Impact on the Concentration and Composition of Submicron Particulate Matter in a Typical City of Northwest China. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089035.	1.5	33
17	Ozone pollution over China and India: seasonality and sources. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4399-4414.	1.9	79
18	Rapid Increases in Warm-Season Surface Ozone and Resulting Health Impact in China Since 2013. <i>Environmental Science and Technology Letters</i> , 2020, 7, 240-247.	3.9	255

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19	Modeling the global radiative effect of brown carbon: a potentially larger heating source in the tropical free troposphere than black carbon. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1901-1920.	1.9	70
20	NO _x Emission Reduction and Recovery during COVID-19 in East China. <i>Atmosphere</i> , 2020, 11, 433.	1.0	160
21	Quantifying methane emissions from the largest oil-producing basin in the United States from space. <i>Science Advances</i> , 2020, 6, eaaz5120.	4.7	155
22	Global distribution of methane emissions, emission trends, and OH concentrations and trends inferred from an inversion of GOSAT satellite data for 2010–2015. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7859-7881.	1.9	111
23	Thermodynamic Modeling Suggests Declines in Water Uptake and Acidity of Inorganic Aerosols in Beijing Winter Haze Events during 2014/2015–2018/2019. <i>Environmental Science and Technology Letters</i> , 2019, 6, 752-760.	3.9	56
24	Fine particulate matter (PM _{2.5}) trends in China, 2013–2018: separating contributions from anthropogenic emissions and meteorology. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11031-11041.	1.9	442
25	Bottom-Up Estimates of Coal Mine Methane Emissions in China: A Gridded Inventory, Emission Factors, and Trends. <i>Environmental Science and Technology Letters</i> , 2019, 6, 473-478.	3.9	52
26	Possible heterogeneous chemistry of hydroxymethanesulfonate (HMS) in northern China winter haze. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1357-1371.	1.9	97
27	Satellite-Observed Changes in Mexico's Offshore Gas Flaring Activity Linked to Oil/Gas Regulations. <i>Geophysical Research Letters</i> , 2019, 46, 1879-1888.	1.5	32
28	Improve observation-based ground-level ozone spatial distribution by compositing satellite and surface observations: A simulation experiment. <i>Atmospheric Environment</i> , 2018, 180, 226-233.	1.9	8
29	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. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6379-6388.	1.2	17
30	Monitoring global tropospheric OH concentrations using satellite observations of atmospheric methane. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15959-15973.	1.9	34
31	Estimator of Surface Ozone Using Formaldehyde and Carbon Monoxide Concentrations Over the Eastern United States in Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7642-7655.	1.2	11
32	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. <i>Nature Geoscience</i> , 2017, 10, 486-489.	5.4	168
33	Arctic sea ice, Eurasia snow, and extreme winter haze in China. <i>Science Advances</i> , 2017, 3, e1602751.	4.7	181
34	Large biogenic contribution to boundary layer O ₃ regression slope in summer. <i>Geophysical Research Letters</i> , 2017, 44, 7061-7068.	1.5	14
35	Enhanced trans-Himalaya pollution transport to the Tibetan Plateau by cut-off low systems. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3083-3095.	1.9	38
36	Improving PM _{2.5} Air Quality Model Forecasts in China Using a Bias-Correction Framework. <i>Atmosphere</i> , 2017, 8, 147.	1.0	37

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37	Inverse modelling of NO _x emissions over eastern China: uncertainties due to chemical non-linearity. Atmospheric Measurement Techniques, 2016, 9, 5193-5201.	1.2	22
38	Climate-driven ground-level ozone extreme in the fall over the Southeast United States. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10025-10030.	3.3	87
39	Large vertical gradient of reactive nitrogen oxides in the boundary layer: Modeling analysis of DISCOVER-AQ 2011 observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1922-1934.	1.2	38