Xun Jiang

List of Publications by Year
in descending order

48 papers	1,173 citations	471509 17 h-index	395702 33 g-index
48 all docs	48 docs citations	48 times ranked	1821 citing authors

#	Article	IF	Citations
1	Satellite remote sounding of midâ€tropospheric CO₂. Geophysical Research Letters, 2008, 35, .	4.0	151
2	Global variability of midtropospheric carbon dioxide as measured by the Atmospheric Infrared Sounder. Journal of Applied Remote Sensing, 2014, 8, 1.	1.3	151
3	Multimodel evaluation of cloud phase transition using satellite and reanalysis data. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7871-7892.	3.3	100
4	Toward consistency between trends in bottom-up CO₂ emissions and top-down atmospheric measurements in the Los Angeles megacity. Atmospheric Chemistry and Physics, 2016, 16, 3843-3863.	4.9	72
5	Extratropical signature of the quasi-biennial oscillation. Journal of Geophysical Research, 2005, 110, .	3.3	61
6	Lorenz energy cycle of the global atmosphere based on reanalysis datasets. Geophysical Research Letters, 2007, 34, .	4.0	54
7	Interannual variability of midâ€tropospheric CO₂ from Atmospheric Infrared Sounder. Geophysical Research Letters, 2010, 37, .	4.0	52
8	Less absorbed solar energy and more internal heat for Jupiter. Nature Communications, 2018, 9, 3709.	12.8	50
9	Quasi-biennial oscillation and quasi-biennial oscillationâ€“annual beat in the tropical total column ozone: A two-dimensional model simulation. Journal of Geophysical Research, 2004, 109, .	3.3	31
10	Earthâ€™s changing global atmospheric energy cycle in response to climate change. Nature Communications, 2017, 8, 14367.	12.8	30
11	CO₂ annual and semiannual cycles from multiple satellite retrievals and models. Earth and Space Science, 2016, 3, 78-87.	2.6	25
12	Influence of Doubled CO2 on Ozone via Changes in the Breweâ€“Dobson Circulation. Journals of the Atmospheric Sciences, 2007, 64, 2751-2755.	1.7	23
13	CO 2 semiannual oscillation in the middle troposphere and at the surface. Global Biogeochemical Cycles, 2012, 26, .	4.9	21
14	Interannual Variability and Trends of Extratropical Ozone. Part II: Southern Hemisphere. Journals of the Atmospheric Sciences, 2008, 65, 3030-3041.	1.7	20
15	Interannual Variability and Trends of Extratropical Ozone. Part I: Northern Hemisphere. Journals of the Atmospheric Sciences, 2008, 65, 3013-3029.	1.7	20
16	Nonstationary Synchronization of Equatorial QBO with SAO in Observations and a Model. Journals of the Atmospheric Sciences, 2009, 66, 1654-1664.	1.7	19
17	The recycling rate of atmospheric moisture over the past two decades (1988â€“2009). Environmental Research Letters, 2011, 6, 034018.	5.2	19
18	Simulation of upper tropospheric CO₂ from chemistry and transport models. Global Biogeochemical Cycles, 2008, 22, .	4.9	18

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19	The global energy balance of Titan. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	17
20	Equatorial winds on Saturn and the stratosphericÂoscillation. Nature Geoscience, 2011, 4, 750-752.	12.9	16
21	Influence of El NiÃ±o on Midtropospheric CO2 from Atmospheric Infrared Sounder and Model. Journals of the Atmospheric Sciences, 2013, 70, 223-230.	1.7	16
22	Influence of Stratospheric Sudden Warming on AIRS Midtropospheric CO2. Journals of the Atmospheric Sciences, 2013, 70, 2566-2573.	1.7	16
23	The influence of tropospheric biennial oscillation on mid-tropospheric CO₂. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	15
24	El NiÃ±oâ€“Southern Oscillation in Tropical and Midlatitude Column Ozone. Journals of the Atmospheric Sciences, 2011, 68, 1911-1921.	1.7	14
25	The global vortex analysis of Jupiter and Saturn based on Cassini Imaging Science Subsystem. Icarus, 2014, 242, 122-129.	2.5	13
26	Saturn's giant storm and global radiant energy. Geophysical Research Letters, 2015, 42, 2144-2148.	4.0	12
27	Saturn's Global Zonal Winds Explored by Cassini/VIMS 5â€Î¼m Images. Geophysical Research Letters, 2018, 45, 6823-6831.	4.0	11
28	Impact of Amazonian Fires on Atmospheric CO₂. Geophysical Research Letters, 2021, 48, e2020GL091875.	4.0	11
29	Spatial patterns and mechanisms of the quasi-biennial oscillationâ€“annual beat of ozone. Journal of Geophysical Research, 2005, 110, .	3.3	10
30	Global Patterns of Carbon Dioxide Variability from Satellite Observations. Annual Review of Earth and Planetary Sciences, 2019, 47, 225-245.	11.0	10
31	Vortices in Saturn's Northern Hemisphere (2008â€“2015) observed by Cassini ISS. Journal of Geophysical Research E: Planets, 2016, 121, 1814-1826.	3.6	9
32	The Mechanical Energies of the Global Atmosphere in El NiÃ±o and La NiÃ±a Years. Journals of the Atmospheric Sciences, 2011, 68, 3072-3078.	1.7	8
33	Modulation of Midtropospheric CO2 by the South Atlantic Walker Circulation*. Journals of the Atmospheric Sciences, 2015, 72, 2241-2247.	1.7	8
34	Distribution of CO₂ in Western Pacific, Studied Using Isotope Data Made in Taiwan, OCOâ€2 Satellite Retrievals, and CarbonTracker Products. Earth and Space Science, 2018, 5, 827-842.	2.6	8
35	Seasonal Variations of Solarâ€Induced Fluorescence, Precipitation, and Carbon Dioxide Over the Amazon. Earth and Space Science, 2022, 9, .	2.6	8
36	Modulation of the Period of the Quasi-Biennial Oscillation by the Solar Cycle. Journals of the Atmospheric Sciences, 2009, 66, 2418-2428.	1.7	7

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37	Investigation of Precipitation Variations over Wet and Dry Areas from Observation and Model. Advances in Meteorology, 2015, 2015, 1-9.	1.6	7
38	Precipitation, circulation, and cloud variability over the past two decades. Earth and Space Science, 2017, 4, 597-606.	2.6	7
39	Temporal and Spatial Variability of Precipitation from Observations and Models*. Journal of Climate, 2016, 29, 2543-2555.	3.2	6
40	A Comparative Study of Atmospheric Moisture Recycling Rate between Observations and Models. Journal of Climate, 2018, 31, 2389-2398.	3.2	6
41	Influence of Droughts on Mid-Tropospheric CO2. Remote Sensing, 2017, 9, 852.	4.0	5
42	Modulation of midtropospheric methane by El NiÃ±o. Earth and Space Science, 2017, 4, 590-596.	2.6	4
43	Seasonal Variations of Titan's Brightness. Geophysical Research Letters, 2019, 46, 13649-13657.	4.0	4
44	Titan's Global Radiant Energy Budget During the Cassini Epoch (2004â€“2017). Geophysical Research Letters, 2021, 48, e2021GL095356.	4.0	3
45	Monthly representations of mid-tropospheric carbon dioxide from the atmospheric infrared sounder. , 2011, , .		2
46	Marsâ€™ emitted energy and seasonal energy imbalance. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121084119.	7.1	2
47	Effect of the Quasiâ€Biennial Oscillation on Carbon Monoxide in the Stratosphere. Earth and Space Science, 2019, 6, 1273-1283.	2.6	1
48	Earth Rotation and El NiÃ±oâ€”Theory of Airâ€Sea Coupling. Chinese Journal of Geophysics, 2001, 44, 476-487.	0.2	0