

Tao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,080
citations

471061

17
h-index

433756

31
g-index

43
all docs

43
docs citations

43
times ranked

1371
citing authors

#	ARTICLE	IF	CITATIONS
1	Stratospheric water vapor feedback. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18087-18091.	3.3	227
2	Variations of stratospheric water vapor over the past three decades. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,588.	1.2	75
3	Assessment of upper tropospheric and stratospheric water vapor and ozone in reanalyses as part of S-RIP. Atmospheric Chemistry and Physics, 2017, 17, 12743-12778.	1.9	74
4	Simulation of stratospheric water vapor and trends using three reanalyses. Atmospheric Chemistry and Physics, 2012, 12, 6475-6487.	1.9	73
5	Improving stratospheric transport trend analysis based on SF ₆ and CO ₂ measurements. Journal of Geophysical Research D: Atmospheres, 2014, 119, 14,110.	1.2	57
6	Validation of MODIS cloud mask and multilayer flag using CloudSat-CALIPSO cloud profiles and a cross-reference of their cloud classifications. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,620.	1.2	52
7	Transport of ice into the stratosphere and the humidification of the stratosphere over the 21st century. Geophysical Research Letters, 2016, 43, 2323-2329.	1.5	50
8	Cirrus feedback on interannual climate fluctuations. Geophysical Research Letters, 2014, 41, 9166-9173.	1.5	47
9	How Tropical Pacific Surface Cooling Contributed to Accelerated Sea Ice Melt from 2007 to 2012 as Ice Is Thinned by Anthropogenic Forcing. Journal of Climate, 2019, 32, 8583-8602.	1.2	41
10	Comparison of positive and negative compact intracloud discharges. Journal of Geophysical Research, 2011, 116, .	3.3	38
11	Analysis of cirrus in the tropical tropopause layer from CALIPSO and MLS data: A water perspective. Journal of Geophysical Research, 2012, 117, .	3.3	36
12	Cloud formation, convection, and stratospheric dehydration. Earth and Space Science, 2014, 1, 1-17.	1.1	35
13	Water Vapor, Clouds, and Saturation in the Tropical Tropopause Layer. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3984-4003.	1.2	34
14	Modeling upper tropospheric and lower stratospheric water vapor anomalies. Atmospheric Chemistry and Physics, 2013, 13, 7783-7793.	1.9	32
15	Structural diagnostics of the tropopause inversion layer and its evolution. Journal of Geophysical Research D: Atmospheres, 2015, 120, 46-62.	1.2	25
16	Increasing Water Vapor in the Stratosphere and Mesosphere After 2002. Geophysical Research Letters, 2019, 46, 13452-13460.	1.5	24
17	Trajectory model simulations of ozone (O ₃) and carbon monoxide (CO) in the lower stratosphere. Atmospheric Chemistry and Physics, 2014, 14, 7135-7147.	1.9	19
18	The impact of temperature vertical structure on trajectory modeling of stratospheric water vapor. Atmospheric Chemistry and Physics, 2015, 15, 3517-3526.	1.9	17

#	ARTICLE	IF	CITATIONS
19	The impact of gravity waves and cloud nucleation threshold on stratospheric water and tropical tropospheric cloud fraction. <i>Earth and Space Science</i> , 2016, 3, 295-305.	1.1	17
20	Sprite produced by consecutive impulse charge transfers following a negative stroke: Observation and simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4082-4092.	1.2	15
21	Cloud regime evolution in the Indian monsoon intraseasonal oscillation: Connection to large-scale dynamical conditions and the atmospheric water budget. <i>Geophysical Research Letters</i> , 2015, 42, 9465-9472.	1.5	13
22	Impact of geographic variations of the convective and dehydration center on stratospheric water vapor over the Asian monsoon region. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7825-7835.	1.9	12
23	Impact of convectively lofted ice on the seasonal cycle of water vapor in the tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14621-14636.	1.9	12
24	More frequent showers and thunderstorm days under a warming climate: evidence observed over Northern Eurasia from 1966 to 2000. <i>Climate Dynamics</i> , 2017, 49, 1933-1944.	1.7	11
25	Responses of Tropical Ocean Clouds and Precipitation to the Large-Scale Circulation: Atmospheric-Water-Budget-Related Phase Space and Dynamical Regimes. <i>Journal of Climate</i> , 2016, 29, 7127-7143.	1.2	10
26	Tropopause Laminar Cirrus and Its Role in the Lower Stratosphere Total Water Budget. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7034-7052.	1.2	9
27	Erythemal Radiation, Column Ozone, and the North American Monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032283.	1.2	7
28	Moist convection: a key to tropical wave moisture interaction in Indian monsoon intraseasonal oscillation. <i>Climate Dynamics</i> , 2018, 51, 3673-3684.	1.7	5
29	Cloud and Aerosol Distributions From SAGE III/ISS Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035550.	1.2	4
30	Study of Antarctic Blowing Snow Storms Using MODIS and CALIOP Observations With a Machine Learning Model. <i>Earth and Space Science</i> , 2021, 8, e2020EA001310.	1.1	3
31	Long-Term Observations of Upper-Tropospheric Cloud Ice From the MLS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034058.	1.2	1
32	MISR Radiance Anomalies Induced by Stratospheric Volcanic Aerosols. <i>Remote Sensing</i> , 2018, 10, 1875.	1.8	0