

Tao Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34
papers

820
citations

16
h-index

28
g-index

43
ext. papers

949
ext. citations

5.1
avg, IF

4.13
L-index

#	Paper	IF	Citations
34	Stratospheric water vapor feedback. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18087-91	11.5	167
33	Variations of stratospheric water vapor over the past three decades. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,588-12,598	4.4	61
32	Simulation of stratospheric water vapor and trends using three reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6475-6487	6.8	61
31	Improving stratospheric transport trend analysis based on SF6 and CO2 measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 14,110-14,128	4.4	52
30	Assessment of upper tropospheric and stratospheric water vapor and ozone in reanalyses as part of S-RIP. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12743-12778	6.8	47
29	Validation of MODIS cloud mask and multilayer flag using CloudSat-CALIPSO cloud profiles and a cross-reference of their cloud classifications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 11,620-11,635	4.4	43
28	Transport of ice into the stratosphere and the humidification of the stratosphere over the 21 century. <i>Geophysical Research Letters</i> , 2016 , 43, 2323-2329	4.9	37
27	Cirrus feedback on interannual climate fluctuations. <i>Geophysical Research Letters</i> , 2014 , 41, 9166-9173	4.9	34
26	Comparison of positive and negative compact intracloud discharges. <i>Journal of Geophysical Research</i> , 2011 , 116,		33
25	Analysis of cirrus in the tropical tropopause layer from CALIPSO and MLS data: A water perspective. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		30
24	Water Vapor, Clouds, and Saturation in the Tropical Tropopause Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 3984-4003	4.4	27
23	Cloud formation, convection, and stratospheric dehydration. <i>Earth and Space Science</i> , 2014 , 1, 1-17	3.1	27
22	How Tropical Pacific Surface Cooling Contributed to Accelerated Sea Ice Melt from 2007 to 2012 as Ice Is Thinned by Anthropogenic Forcing. <i>Journal of Climate</i> , 2019 , 32, 8583-8602	4.4	24
21	Modeling upper tropospheric and lower stratospheric water vapor anomalies. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7783-7793	6.8	23
20	Trajectory model simulations of ozone (O ₃) and carbon monoxide (CO) in the lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7135-7147	6.8	19
19	Structural diagnostics of the tropopause inversion layer and its evolution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 46-62	4.4	19
18	The impact of temperature vertical structure on trajectory modeling of stratospheric water vapor. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3517-3526	6.8	15

17	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	3.1	15
16	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	4.9	12
15	Increasing Water Vapor in the Stratosphere and Mesosphere After 2002. <i>Geophysical Research Letters</i> , 2019 , 46, 13452-13460	4.9	12
14	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	4.4	9
13	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	4.2	9
12	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	6.8	8
11	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	4.4	8
10	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	6.8	8
9	Erythemal Radiation, Column Ozone, and the North American Monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032283	4.4	5
8	Moist convection: a key to tropical wave moisture interaction in Indian monsoon intraseasonal oscillation. <i>Climate Dynamics</i> , 2018 , 51, 3673-3684	4.2	4
7	Tropopause Laminar Cirrus and Its Role in the Lower Stratosphere Total Water Budget. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7034	4.4	4
6	Assessment of upper tropospheric and stratospheric water vapour and ozone in reanalyses as part of S-RIP 2017 ,		4
5	The impact of temperature resolution on trajectory modeling of stratospheric water vapour		1
4	Long-Term Observations of Upper-Tropospheric Cloud Ice From the MLS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034058	4.4	1
3	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	3.1	1
2	Cloud and Aerosol Distributions From SAGE III/ISS Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035550	4.4	0
1	MISR Radiance Anomalies Induced by Stratospheric Volcanic Aerosols. <i>Remote Sensing</i> , 2018 , 10, 1875		5