

Tao Wang

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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 | Cloud and Aerosol Distributions From SAGE III/ISS Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035550 | 4.4 | 0 |
| 33 | 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 |
| 32 | 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 |
| 31 | Erythemal Radiation, Column Ozone, and the North American Monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032283 | 4.4 | 5 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | Increasing Water Vapor in the Stratosphere and Mesosphere After 2002. <i>Geophysical Research Letters</i> , 2019 , 46, 13452-13460 | 4.9 | 12 |
| 25 | 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 |
| 24 | MISR Radiance Anomalies Induced by Stratospheric Volcanic Aerosols. <i>Remote Sensing</i> , 2018 , 10, 1875 | 5 | |
| 23 | 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 |
| 22 | 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 |
| 21 | Assessment of upper tropospheric and stratospheric water vapour and ozone in reanalyses as part of S-RIP 2017 , | | 4 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |

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| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | Cirrus feedback on interannual climate fluctuations. <i>Geophysical Research Letters</i> , 2014 , 41, 9166-9173 | 4.9 | 34 |
| 9 | 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 |
| 8 | Cloud formation, convection, and stratospheric dehydration. <i>Earth and Space Science</i> , 2014 , 1, 1-17 | 3.1 | 27 |
| 7 | 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 |
| 6 | 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 |
| 5 | Modeling upper tropospheric and lower stratospheric water vapor anomalies. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7783-7793 | 6.8 | 23 |
| 4 | 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 |
| 3 | Simulation of stratospheric water vapor and trends using three reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6475-6487 | 6.8 | 61 |
| 2 | Comparison of positive and negative compact intracloud discharges. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 33 |
| 1 | The impact of temperature resolution on trajectory modeling of stratospheric water vapour | | 1 |