Wenshou Tian

List of Publications by Year in descending order

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		279798	315739
77	1,927	23	38
papers	citations	h-index	g-index
78	78	78	1493
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Persistent shift of the Arctic polar vortex towards the Eurasian continent in recent decades. Nature Climate Change, 2016, 6, 1094-1099.	18.8	207
2	Recent strengthening of the stratospheric Arctic vortex response to warming in the central North Pacific. Nature Communications, 2018, 9, 1697.	12.8	86
3	A new coupled chemistry–climate model for the stratosphere: The importance of coupling for future O ₃ -climate predictions. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 281-303.	2.7	81
4	A connection from Arctic stratospheric ozone to El Ni $\tilde{A}\pm$ o-Southern oscillation. Environmental Research Letters, 2016, 11, 124026.	5.2	80
5	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. Nature Communications, 2018, 9, 206.	12.8	69
6	Effects of the Tibetan Plateau on total column ozone distribution. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 622.	1.6	68
7	The Influence of ENSO on Northern Midlatitude Ozone during the Winter to Spring Transition. Journal of Climate, 2015, 28, 4774-4793.	3.2	60
8	Quasi-biennial oscillation and tracer distributions in a coupled chemistry-climate model. Journal of Geophysical Research, 2006, 111, .	3.3	59
9	The relative impacts of El Niñ0 Modoki, canonical El Niñ0, and QBO on tropical ozone changes since the 1980s. Environmental Research Letters, 2014, 9, 064020.	5.2	59
10	Variations in North Pacific sea surface temperature caused by Arctic stratospheric ozone anomalies. Environmental Research Letters, 2017, 12, 114023.	5.2	49
11	Impacts of stratospheric ozone depletion and recovery on wave propagation in the boreal winter stratosphere. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8299-8317.	3.3	48
12	Effects of meridional sea surface temperature changes on stratospheric temperature and circulation. Advances in Atmospheric Sciences, 2014, 31, 888-900.	4.3	45
13	Radiative effect of ozone change on stratosphereâ€troposphere exchange. Journal of Geophysical Research, 2008, 113, .	3.3	42
14	Impact of increasing stratospheric water vapor on ozone depletion and temperature change. Advances in Atmospheric Sciences, 2009, 26, 423-437.	4.3	40
15	Increasing trend of lightning activity in the South Asia region. Science Bulletin, 2021, 66, 78-84.	9.0	38
16	The impacts of two types of El Ni \tilde{A} ±o on global ozone variations in the last three decades. Advances in Atmospheric Sciences, 2014, 31, 1113-1126.	4.3	37
17	Northern hemisphere cold air outbreaks are more likely to be severe during weak polar vortex conditions. Communications Earth & Environment, 2021, 2, .	6.8	37
18	Climate warming and decreasing total column ozone over the Tibetan Plateau during winter and spring. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 23415.	1.6	35

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19	The connection between extreme stratospheric polar vortex events and tropospheric blockings. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 1148-1164.	2.7	32
20	Indo-Pacific Warm Pool Area Expansion, Modoki Activity and Tropical Cold-Point Tropopause Temperature Variations. Scientific Reports, 2014, 4, 4552.	3.3	31
21	Preconditioning of Arctic Stratospheric Polar Vortex Shift Events. Journal of Climate, 2018, 31, 5417-5436.	3.2	31
22	Eurasian Cold Air Outbreaks under Different Arctic Stratospheric Polar Vortex Strengths. Journals of the Atmospheric Sciences, 2019, 76, 1245-1264.	1.7	29
23	Longitudinal Asymmetric Trends of Tropical Cold-Point Tropopause Temperature and Their Link to Strengthened Walker Circulation. Journal of Climate, 2016, 29, 7755-7771.	3.2	25
24	The Corresponding Tropospheric Environments during Downward-Extending and Nondownward-Extending Events of Stratospheric Northern Annular Mode Anomalies. Journal of Climate, 2019, 32, 1857-1873.	3.2	25
25	An advanced impact of Arctic stratospheric ozone changes on spring precipitation in China. Climate Dynamics, 2018, 51, 4029-4041.	3.8	24
26	Impact of Sea Ice Reduction in the Barents and Kara Seas on the Variation of the East Asian Trough in Late Winter. Journal of Climate, 2021, 34, 1081-1097.	3.2	24
27	Observations and Numerical Simulation of Atmospheric Cellular Convection over Mesoscale Topography. Monthly Weather Review, 2003, 131, 222-235.	1.4	24
28	A study of upper troposphere and lower stratosphere water vapor above the Tibetan Plateau using AIRS and MLS data. Atmospheric Science Letters, 2011, 12, 233-239.	1.9	22
29	The connection between the second leading mode of the winter North Pacific sea surface temperature anomalies and stratospheric sudden warming events. Climate Dynamics, 2018, 51, 581-595.	3.8	22
30	A Modeling Study and Scaling Analysis of Orographic Effects on Boundary Layer Shallow Convection. Journals of the Atmospheric Sciences, 2003, 60, 1981-1991.	1.7	19
31	Influence of the El Ni $ ilde{A}\pm$ o southern oscillation on the total ozone column and clear-sky ultraviolet radiation over China. Atmospheric Environment, 2015, 120, 205-216.	4.1	19
32	Effect of Madden–Julian Oscillation Occurrence Frequency on the Interannual Variability of Northern Hemisphere Stratospheric Wave Activity in Winter. Journal of Climate, 2018, 31, 5031-5049.	3.2	19
33	Zonally asymmetric trends of winter total column ozone in the northern middle latitudes. Climate Dynamics, 2019, 52, 4483-4500.	3.8	19
34	Effects of stratosphereâ€troposphere chemistry coupling on tropospheric ozone. Journal of Geophysical Research, 2010, 115, .	3.3	17
35	Solar impacts on decadal variability of tropopause temperature and lower stratospheric (LS) water vapour: a mechanism through ocean–atmosphere coupling. Climate Dynamics, 2019, 52, 5585-5604.	3.8	17
36	Effects of sea surface temperature and greenhouse gas changes on the transport between the stratosphere and troposphere. Journal of Geophysical Research, 2011, 116, .	3.3	16

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37	Effects of Arctic stratospheric ozone changes on spring precipitation in the northwestern United States. Atmospheric Chemistry and Physics, 2019, 19, 861-875.	4.9	16
38	Stratospheric water vapor trends in a coupled chemistry-climate model. Geophysical Research Letters, 2006, 33, .	4.0	15
39	Simulations of the effects of surface heat flux anomalies on stratification, convective growth, and vertical transport within the Saharan boundary layer. Journal of Geophysical Research, 2010, 115, .	3.3	15
40	Effects of the Quasi-Biennial Oscillation and Stratospheric Semiannual Oscillation on Tracer Transport in the Upper Stratosphere. Journals of the Atmospheric Sciences, 2013, 70, 1370-1389.	1.7	15
41	A Large Eddy Model Study on the Effect of Overshooting Convection on Lower Stratospheric Water Vapor. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,023.	3.3	15
42	Role of the quasi-biennial oscillation in the downward extension of stratospheric northern annular mode anomalies. Climate Dynamics, 2020, 55, 595-612.	3.8	15
43	Regional trends of lightning activity in the tropics and subtropics. Atmospheric Research, 2020, 242, 104960.	4.1	15
44	Cross-tropopause mass exchange associated with a tropopause fold event over the northeastern Tibetan Plateau. Advances in Atmospheric Sciences, 2010, 27, 1344-1360.	4.3	14
45	Influence of the Arctic Oscillation on the Vertical Distribution of Wintertime Ozone in the Stratosphere and Upper Troposphere over the Northern Hemisphere. Journal of Climate, 2017, 30, 2905-2919.	3.2	14
46	Large Uncertainties in Estimation of Tropical Tropopause Temperature Variabilities Due to Model Vertical Resolution. Geophysical Research Letters, 2019, 46, 10043-10052.	4.0	14
47	Comparisons of AGRI/FY-4A Cloud Fraction and Cloud Top Pressure with MODIS/Terra Measurements over East Asia. Journal of Meteorological Research, 2019, 33, 705-719.	2.4	14
48	The Influence of Zonally Asymmetric Stratospheric Ozone Changes on the Arctic Polar Vortex Shift. Journal of Climate, 2020, 33, 4641-4658.	3.2	14
49	Impacts of stratospheric polar vortex changes on wintertime precipitation over the northern hemisphere. Climate Dynamics, 2022, 58, 3155-3171.	3.8	14
50	Characteristics of stratosphereâ€troposphere exchange during the Meiyu season. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2058-2072.	3.3	13
51	Climatology of crossâ€tropopause mass exchange over the Tibetan Plateau and its surroundings. International Journal of Climatology, 2017, 37, 3999-4014.	3 . 5	12
52	Different impact of central Pacific and eastern Pacific El Ni $\tilde{A}\pm 0$ on the duration of sudden stratospheric warming. Advances in Atmospheric Sciences, 2017, 34, 771-782.	4.3	12
53	Attribution of the Hemispheric Asymmetries in Trends of Stratospheric Trace Gases Inferred From Microwave Limb Sounder (MLS) Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6283-6293.	3.3	12
54	Signatures of the Arctic Stratospheric Ozone in Northern Hadley Circulation Extent and Subtropical Precipitation. Geophysical Research Letters, 2019, 46, 12340-12349.	4.0	12

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55	Analysis of convective and stratiform precipitation characteristics in the summers of 2014–2019 over Northwest China based on GPM observations. Atmospheric Research, 2021, 262, 105762.	4.1	12
56	The relationship between lower-stratospheric ozone at southern high latitudes and sea surface temperature in the East Asian marginal seas in austral spring. Atmospheric Chemistry and Physics, 2017, 17, 6705-6722.	4.9	11
57	Connections between Spring Arctic Ozone and the Summer Circulation and Sea Surface Temperatures over the Western North Pacific. Journal of Climate, 2020, 33, 2907-2923.	3.2	11
58	Distinct Tropospheric and Stratospheric Mechanisms Linking Historical Barentsâ€Kara Seaâ€kce Loss and Late Winter Eurasian Temperature Variability. Geophysical Research Letters, 2021, 48, e2021GL095262.	4.0	11
59	Interannual Variations in Lower Stratospheric Ozone During the Period 1984–2016. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8225-8241.	3.3	10
60	Increase in Lower Stratospheric Water Vapor in the Past 100ÂYears Related to Tropical Atlantic Warming. Geophysical Research Letters, 2020, 47, e2020GL090539.	4.0	10
61	Surface ocean current variations in the North Pacific related to Arctic stratospheric ozone. Climate Dynamics, 2022, 59, 3087-3111.	3.8	9
62	Properties of a simulated convective boundary layer over inhomogeneous vegetation. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 99-117.	2.7	7
63	Stratospheric Influence on the Development of the 2018 Late Winter European Cold Air Outbreak. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	6
64	Weakening of Antarctic stratospheric planetary wave activities in early austral spring since the early 2000s: a response to sea surface temperature trends. Atmospheric Chemistry and Physics, 2022, 22, 1575-1600.	4.9	5
65	Effect of methane emission increases in East Asia on atmospheric circulation and ozone. Advances in Atmospheric Sciences, 2015, 32, 1617-1627.	4.3	4
66	The effects of stratospheric meridional circulation on surface pressure and tropospheric meridional circulation. Climate Dynamics, 2019, 53, 6961-6977.	3.8	4
67	A Quantitative Estimation of the Transport of Surface Emissions from Different Regions into the Stratosphere. Scientific Online Letters on the Atmosphere, 2016, 12, 65-69.	1.4	3
68	The Variations in Middle and Upper Stratospheric Water Vapour over the Past Two Decades. Scientific Online Letters on the Atmosphere, 2016, 12, 127-134.	1.4	3
69	Enhanced upward motion through the troposphere over the tropical western Pacific and its implications for the transport of trace gases from the troposphere to the stratosphere. Atmospheric Chemistry and Physics, 2022, 22, 4393-4411.	4.9	3
70	Direct and indirect effects of solar variations on stratospheric ozone and temperature. Science Bulletin, 2013, 58, 3840-3846.	1.7	2
71	Diagnosing Mixing Properties in Model Simulations for CH ₄ in the Stratosphere. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032524.	3.3	2
72	Model study of the impacts of emissions, chemical and dynamical processes on the CO variability in the tropical upper troposphere and lower stratosphere. Tellus, Series B: Chemical and Physical Meteorology, 2015, 67, 27475.	1.6	2

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73	A commentary of "Antarctic ozone layer is gradually recovering―in 10 remarkable discoveries from 2020 in Nature. Fundamental Research, 2022, 2, 337-338.	3.3	2
74	Changes in the Relationship between ENSO and the Winter Arctic Stratospheric Polar Vortex in Recent Decades. Journal of Climate, 2022, 35, 5399-5414.	3.2	2
75	Contrasting Effects of Indian Ocean Basin and Dipole Modes on the Stratosphere. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035156.	3.3	1
76	The Spatiotemporal Patterns of the Upper-Tropospheric Water Vapor over the Tibetan Plateau in Summer Based on EOF Analysis. Journal of Climate, 2022, 35, 5033-5051.	3.2	1
77	A differential optical absorption spectroscopy method for \$\${X_{CO_2}}\$\$ retrieval from ground-based Fourier transform spectrometers measurements of the direct solar beam. Advances in Atmospheric Sciences, 2015, 32, 1119-1128.	4.3	O