Wenshou Tian

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Effects of the Tibetan Plateau on total column ozone distribution. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 622.	1.6	68
2	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
3	A commentary of â€œAntarctic ozone layer is gradually recoveringâ€•in 10 remarkable discoveries from 2020 in Nature. Fundamental Research, 2022, 2, 337-338.	3.3	2
4	Impacts of stratospheric polar vortex changes on wintertime precipitation over the northern hemisphere. Climate Dynamics, 2022, 58, 3155-3171.	3.8	14
5	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
6	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
7	Surface ocean current variations in the North Pacific related to Arctic stratospheric ozone. Climate Dynamics, 2022, 59, 3087-3111.	3.8	9
8	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
9	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
10	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
11	Increasing trend of lightning activity in the South Asia region. Science Bulletin, 2021, 66, 78-84.	9.0	38
12	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
13	Northern hemisphere cold air outbreaks are more likely to be severe during weak polar vortex conditions. Communications Earth & Environment, 2021, 2, .	6.8	37
14	Distinct Tropospheric and Stratospheric Mechanisms Linking Historical Barentsâ€Kara Seaâ€Ice Loss and Late Winter Eurasian Temperature Variability. Geophysical Research Letters, 2021, 48, e2021GL095262.	4.0	11
15	Analysis of convective and stratiform precipitation characteristics in the summers of 2014â€“2019 over Northwest China based on GPM observations. Atmospheric Research, 2021, 262, 105762.	4.1	12
16	Contrasting Effects of Indian Ocean Basin and Dipole Modes on the Stratosphere. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035156.	3.3	1
17	Increase in Lower Stratospheric Water Vapor in the Past 100ÂYears Related to Tropical Atlantic Warming. Geophysical Research Letters, 2020, 47, e2020GL090539.	4.0	10
18	Diagnosing Mixing Properties in Model Simulations for CH₄ in the Stratosphere. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032524.	3.3	2

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19	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
20	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
21	Regional trends of lightning activity in the tropics and subtropics. Atmospheric Research, 2020, 242, 104960.	4.1	15
22	The Influence of Zonally Asymmetric Stratospheric Ozone Changes on the Arctic Polar Vortex Shift. Journal of Climate, 2020, 33, 4641-4658.	3.2	14
23	Zonally asymmetric trends of winter total column ozone in the northern middle latitudes. Climate Dynamics, 2019, 52, 4483-4500.	3.8	19
24	Large Uncertainties in Estimation of Tropical Tropopause Temperature Variabilities Due to Model Vertical Resolution. Geophysical Research Letters, 2019, 46, 10043-10052.	4.0	14
25	Interannual Variations in Lower Stratospheric Ozone During the Period 1984â€“2016. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8225-8241.	3.3	10
26	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
27	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
28	The effects of stratospheric meridional circulation on surface pressure and tropospheric meridional circulation. Climate Dynamics, 2019, 53, 6961-6977.	3.8	4
29	Eurasian Cold Air Outbreaks under Different Arctic Stratospheric Polar Vortex Strengths. Journals of the Atmospheric Sciences, 2019, 76, 1245-1264.	1.7	29
30	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
31	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
32	Signatures of the Arctic Stratospheric Ozone in Northern Hadley Circulation Extent and Subtropical Precipitation. Geophysical Research Letters, 2019, 46, 12340-12349.	4.0	12
33	Solar impacts on decadal variability of tropopause temperature and lower stratospheric (LS) water vapour: a mechanism through oceanâ€“atmosphere coupling. Climate Dynamics, 2019, 52, 5585-5604.	3.8	17
34	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. Nature Communications, 2018, 9, 206.	12.8	69
35	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
36	Recent strengthening of the stratospheric Arctic vortex response to warming in the central North Pacific. Nature Communications, 2018, 9, 1697.	12.8	86

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37	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
38	An advanced impact of Arctic stratospheric ozone changes on spring precipitation in China. Climate Dynamics, 2018, 51, 4029-4041.	3.8	24
39	Effect of Maddenâ€“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
40	Preconditioning of Arctic Stratospheric Polar Vortex Shift Events. Journal of Climate, 2018, 31, 5417-5436.	3.2	31
41	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
42	Climatology of crossâ€tropopause mass exchange over the Tibetan Plateau and its surroundings. International Journal of Climatology, 2017, 37, 3999-4014.	3.5	12
43	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
44	Different impact of central Pacific and eastern Pacific El NiÃ±o on the duration of sudden stratospheric warming. Advances in Atmospheric Sciences, 2017, 34, 771-782.	4.3	12
45	Variations in North Pacific sea surface temperature caused by Arctic stratospheric ozone anomalies. Environmental Research Letters, 2017, 12, 114023.	5.2	49
46	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
47	A connection from Arctic stratospheric ozone to El NiÃ±o-Southern oscillation. Environmental Research Letters, 2016, 11, 124026.	5.2	80
48	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
49	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
50	Persistent shift of the Arctic polar vortex towards the Eurasian continent in recent decades. Nature Climate Change, 2016, 6, 1094-1099.	18.8	207
51	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
52	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
53	Effect of methane emission increases in East Asia on atmospheric circulation and ozone. Advances in Atmospheric Sciences, 2015, 32, 1617-1627.	4.3	4
54	The Influence of ENSO on Northern Midlatitude Ozone during the Winter to Spring Transition. Journal of Climate, 2015, 28, 4774-4793.	3.2	60

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55	Influence of the El NiÃ±o southern oscillation on the total ozone column and clear-sky ultraviolet radiation over China. Atmospheric Environment, 2015, 120, 205-216.	4.1	19
56	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	0
57	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
58	The relative impacts of El NiÃ±o Modoki, canonical El NiÃ±o, and QBO on tropical ozone changes since the 1980s. Environmental Research Letters, 2014, 9, 064020.	5.2	59
59	The impacts of two types of El NiÃ±o on global ozone variations in the last three decades. Advances in Atmospheric Sciences, 2014, 31, 1113-1126.	4.3	37
60	Effects of meridional sea surface temperature changes on stratospheric temperature and circulation. Advances in Atmospheric Sciences, 2014, 31, 888-900.	4.3	45
61	Indo-Pacific Warm Pool Area Expansion, Modoki Activity and Tropical Cold-Point Tropopause Temperature Variations. Scientific Reports, 2014, 4, 4552.	3.3	31
62	Direct and indirect effects of solar variations on stratospheric ozone and temperature. Science Bulletin, 2013, 58, 3840-3846.	1.7	2
63	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
64	Characteristics of stratosphereâ€troposphere exchange during the Meiyu season. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2058-2072.	3.3	13
65	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
66	Properties of a simulated convective boundary layer over inhomogeneous vegetation. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 99-117.	2.7	7
67	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
68	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
69	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
70	Effects of stratosphereâ€troposphere chemistry coupling on tropospheric ozone. Journal of Geophysical Research, 2010, 115, .	3.3	17
71	Impact of increasing stratospheric water vapor on ozone depletion and temperature change. Advances in Atmospheric Sciences, 2009, 26, 423-437.	4.3	40
72	Radiative effect of ozone change on stratosphereâ€troposphere exchange. Journal of Geophysical Research, 2008, 113, .	3.3	42

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73	Stratospheric water vapor trends in a coupled chemistry-climate model. Geophysical Research Letters, 2006, 33, .	4.0	15
74	Quasi-biennial oscillation and tracer distributions in a coupled chemistry-climate model. Journal of Geophysical Research, 2006, 111, .	3.3	59
75	A new coupled chemistryâ€“climate model for the stratosphere: The importance of coupling for future O₃-climate predictions. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 281-303.	2.7	81
76	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
77	Observations and Numerical Simulation of Atmospheric Cellular Convection over Mesoscale Topography. Monthly Weather Review, 2003, 131, 222-235.	1.4	24