

Zhaoyong Guan

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,962
citations

430874

18
h-index

175258

52
g-index

81
all docs

81
docs citations

81
times ranked

2624
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of the Indian Ocean dipole on the relationship between the Indian monsoon rainfall and ENSO. <i>Geophysical Research Letters</i> , 2001, 28, 4499-4502.	4.0	862
2	Influence of the Indian Ocean Dipole on the Australian winter rainfall. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	392
3	The unusual summer of 1994 in East Asia: IOD teleconnections. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	275
4	A Look at the Relationship between the ENSO and the Indian Ocean Dipole.. <i>Journal of the Meteorological Society of Japan</i> , 2003, 81, 41-56.	1.8	225
5	Weakened cyclones, intensified anticyclones and recent extreme cold winter weather events in Eurasia. <i>Environmental Research Letters</i> , 2012, 7, 044044.	5.2	103
6	Summertime Response of the Tropical Atmosphere to the Indian Ocean Dipole Sea Surface Temperature Anomalies. <i>Journal of the Meteorological Society of Japan</i> , 2003, 81, 533-561.	1.8	95
7	Recent strengthening of the stratospheric Arctic vortex response to warming in the central North Pacific. <i>Nature Communications</i> , 2018, 9, 1697.	12.8	86
8	Predicted 2D ferromagnetic Janus VSeTe monolayer with high Curie temperature, large valley polarization and magnetic crystal anisotropy. <i>Nanoscale</i> , 2020, 12, 22735-22742.	5.6	64
9	Strain-Controllable High Curie Temperature, Large Valley Polarization, and Magnetic Crystal Anisotropy in a 2D Ferromagnetic Janus VSeTe Monolayer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53067-53075.	8.0	59
10	An Extreme Rainfall Event in Coastal South China During SCMREXâ€2014: Formation and Roles of Rainband and Echo Trainings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9256-9278.	3.3	58
11	The Extreme Drought Event during Winterâ€Spring of 2011 in East China: Combined Influences of Teleconnection in Midhigh Latitudes and Thermal Forcing in Maritime Continent Region. <i>Journal of Climate</i> , 2013, 26, 8210-8222.	3.2	55
12	Decadal Relationship between the Stratospheric Arctic Vortex and Pacific Decadal Oscillation. <i>Journal of Climate</i> , 2018, 31, 3371-3386.	3.2	47
13	An atmospheric origin of the multi-decadal bipolar seesaw. <i>Scientific Reports</i> , 2015, 5, 8909.	3.3	40
14	Strain-Controllable High Curie Temperature and Magnetic Crystal Anisotropy in a 2D Ferromagnetic Semiconductive Fe ₃ Monolayer. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3147-3157.	4.3	30
15	Prediction of High Curie Temperature, Large Magnetic Crystal Anisotropy, and Carrier Doping-Induced Half-Metallicity in Two-Dimensional Ferromagnetic FeX ₃ (X = F, Cl, Br, and I) Monolayers. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16700-16710.	3.1	29
16	Interhemispheric oscillations in the surface air pressure field. <i>Geophysical Research Letters</i> , 2001, 28, 263-266.	4.0	22
17	Summer Rainfall Seesaw between Hetao and the Middle and Lower Reaches of the Yangtze River and Its Relationship with the North Atlantic Oscillation. <i>Journal of Climate</i> , 2017, 30, 6629-6643.	3.2	22
18	Roles of Double Lowâ€Level Jets in the Generation of Coexisting Inland and Coastal Heavy Rainfall Over South China During the Presummer Rainy Season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032890.	3.3	22

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19	Correlation between the Onset of the East Asian Subtropical Summer Monsoon and the Eastward Propagation of the Madden-Julian Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 1200-1214.	1.7	19
20	Interannual variability of summertime outgoing longwave radiation over the Maritime Continent in relation to East Asian summer monsoon anomalies. <i>Journal of Meteorological Research</i> , 2017, 31, 665-677.	2.4	19
21	A mask R-CNN model for reidentifying extratropical cyclones based on quasi-supervised thought. <i>Scientific Reports</i> , 2020, 10, 15011.	3.3	19
22	An Isentropic Mass Circulation View on the Extreme Cold Events in the 2020/21 Winter. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 643-657.	4.3	19
23	Interannual Variations of Regional Summer Precipitation in Mainland China and their Possible Relationships with Different Teleconnections in the Past Five Decades. <i>Journal of the Meteorological Society of Japan</i> , 2015, 93, 265-283.	1.8	18
24	Regional Characteristics of Interannual Variability of Summer Rainfall in the Maritime Continent and Their Related Anomalous Circulation Patterns. <i>Journal of Climate</i> , 2019, 32, 4179-4192.	3.2	16
25	Possible impacts of spring sea surface temperature anomalies over South Indian Ocean on summer rainfall in Guangdong-Guangxi region of China. <i>Climate Dynamics</i> , 2017, 49, 3075-3090.	3.8	15
26	The seasonal cycle of interhemispheric oscillations in mass field of the global atmosphere. <i>Science Bulletin</i> , 2008, 53, 3226-3234.	9.0	14
27	A joint monsoon index for East Asian and Australian monsoons during boreal summer. <i>Atmospheric Science Letters</i> , 2017, 18, 403-408.	1.9	14
28	Interannual Relationship between the Boreal Spring Arctic Oscillation and the Northern Hemisphere Hadley Circulation Extent. <i>Journal of Climate</i> , 2019, 32, 4395-4408.	3.2	14
29	Recent Weakening in the Stratospheric Planetary Wave Intensity in Early Winter. <i>Geophysical Research Letters</i> , 2019, 46, 3953-3962.	4.0	13
30	Relationships between convective activity in the Maritime Continent and precipitation anomalies in Southwest China during boreal summer. <i>Climate Dynamics</i> , 2020, 54, 973-986.	3.8	13
31	Two new sea surface temperature anomalies indices for capturing the eastern and central equatorial Pacific type El Niño-Southern Oscillation events during boreal summer. <i>International Journal of Climatology</i> , 2018, 38, 4066-4076.	3.5	12
32	Signatures of the Arctic Stratospheric Ozone in Northern Hadley Circulation Extent and Subtropical Precipitation. <i>Geophysical Research Letters</i> , 2019, 46, 12340-12349.	4.0	12
33	Seasonality of interannual inter-hemispheric oscillations over the past five decades. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 1043-1050.	4.3	11
34	Dynamical connection between the stratospheric Arctic vortex and sea surface temperatures in the North Atlantic. <i>Climate Dynamics</i> , 2019, 53, 6979-6993.	3.8	11
35	Atmospheric Internal Variability in the Summer Indo-Northwestern Pacific: Role of the Intraseasonal Oscillation. <i>Journal of Climate</i> , 2020, 33, 3395-3410.	3.2	11
36	Seasonal Variations of Aerosol Optical Depth over East China and India in Relationship to the Asian Monsoon Circulation. <i>Journal of Meteorological Research</i> , 2018, 32, 648-660.	2.4	10

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37	Impacts of April snow cover extent over Tibetan Plateau and the central Eurasia on Indian Ocean Dipole. <i>International Journal of Climatology</i> , 2019, 39, 1756-1767.	3.5	10
38	Variations in regional mean daily precipitation extremes and related circulation anomalies over central China during boreal summer. <i>Journal of Meteorological Research</i> , 2014, 28, 524-539.	2.4	9
39	Is the Relationship Between Stratospheric Arctic Vortex and Arctic Oscillation Steady?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035759.	3.3	9
40	A Common Base Mode of Asian Summer Monsoon Variability across Timescales. <i>Journal of Climate</i> , 2021, 34, 7359-7371.	3.2	9
41	Carrier Doping Modulates 2D Intrinsic Ferromagnetic Mn ₂ Ge ₂ Te ₆ Monolayer, High Curie Temperature, Large Magnetic Crystal Anisotropy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11330-11340.	3.1	9
42	On the interannual variation in spring atmospheric inter-hemispheric oscillation linked to synchronous climate in China. <i>Progress in Natural Science: Materials International</i> , 2009, 19, 1125-1131.	4.4	8
43	Anomalous circulation patterns in association with two types of daily precipitation extremes over southeastern China during boreal summer. <i>Journal of Meteorological Research</i> , 2016, 30, 183-202.	2.4	8
44	A PNN prediction scheme for local tropical cyclone intensity over the South China Sea. <i>Natural Hazards</i> , 2016, 81, 1249-1267.	3.4	8
45	Joint Impacts of SSTA in Tropical Pacific and Indian Oceans on Variations of the WPSH. <i>Journal of Meteorological Research</i> , 2018, 32, 548-559.	2.4	8
46	Interdecadal variability of El Niño onset and its impact on monsoon systems over areas encircling the Pacific Ocean. <i>Climate Dynamics</i> , 2019, 52, 7173-7188.	3.8	8
47	Dynamical mechanisms for the recent ozone depletion in the Arctic stratosphere linked to North Pacific sea surface temperatures. <i>Climate Dynamics</i> , 2022, 58, 2663-2679.	3.8	8
48	Interhemispheric atmospheric mass oscillation and its relation to interannual variations of the Asian monsoon in boreal summer. <i>Science China Earth Sciences</i> , 2010, 53, 1343-1350.	5.2	7
49	The seasonal cycle of redistribution of atmospheric mass between continent and ocean in the Northern Hemisphere. <i>Science China Earth Sciences</i> , 2014, 57, 1501-1512.	5.2	7
50	Possible combined influences of absorbing aerosols and anomalous atmospheric circulation on summertime diurnal temperature range variation over the middle and lower reaches of the Yangtze River. <i>Journal of Meteorological Research</i> , 2016, 30, 927-943.	2.4	7
51	Potential influence of the Atlantic Multi-decadal Oscillation in modulating the biennial relationship between Indian and Australian summer monsoons. <i>International Journal of Climatology</i> , 2018, 38, 5220-5230.	3.5	7
52	Anomalous Circulation Patterns in Association with Summertime Regional Daily Precipitation Extremes over Northeast China. <i>Advances in Meteorology</i> , 2019, 2019, 1-9.	1.6	7
53	Variation of Anomalous Convergence Around Kalimantan Island in Lower Troposphere and Its Role in Connecting the East Asian Summer Monsoon and Australian Winter Monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6892-6903.	3.3	6
54	The asymmetric eddy-background flow interaction in the North Pacific storm track. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 575-596.	2.7	6

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55	An unusual high ozone event over the North and Northeast China during the record-breaking summer in 2018. <i>Journal of Environmental Sciences</i> , 2021, 104, 264-276.	6.1	6
56	East Asian-Australian Monsoon Variations and their Impacts on Regional Climate during Boreal Summer. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 283-297.	1.8	6
57	Comparison of the Hadley cells calculated from two reanalysis data sets. <i>Science Bulletin</i> , 2006, 51, 1741-1746.	1.7	5
58	Relationship between the western Pacific subtropical high and the subtropical East Asian diabatic heating during south China heavy rains in June 2005. <i>Journal of Meteorological Research</i> , 2011, 25, 203-210.	1.0	5
59	Interannual variations in atmospheric mass over liquid water oceans, continents, and sea-ice-covered arctic regions and their possible impacts on the boreal winter climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,846.	3.3	5
60	East Asian Summer Monsoon Rainfall Anomalies in 2020 and the Role of Northwest Pacific Anticyclone on the Intraseasonal to Interannual Timescales. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034607.	3.3	5
61	Climatological characteristics of frontogenesis and related circulations over East China in June and July. <i>Journal of Meteorological Research</i> , 2013, 27, 144-169.	1.0	4
62	West Pacific subtropical high double ridges and intraseasonal variability of the South China Sea summer monsoon. <i>Theoretical and Applied Climatology</i> , 2010, 100, 385-396.	2.8	3
63	Summertime temperature variations in the middle and lower reaches of Yangtze River and their related circulation anomalies in the past five decades. <i>Journal of Chinese Geography</i> , 2010, 20, 581-598.	3.9	3
64	ENSO-independent contemporaneous variations of anomalous circulations in the Northern and Southern Hemispheres: The polar-tropical seesaw mode. <i>Journal of Meteorological Research</i> , 2015, 29, 917-934.	2.4	3
65	Interdecadal change in the Eurasia-Pacifica anti-phase relation of atmospheric mass and its possible link with PDO. <i>Journal of Meteorological Research</i> , 2017, 31, 126-141.	2.4	3
66	The Eurasia-North Pacific Oscillation in atmospheric mass variations independent of both IHO and AO and its possible impacts on winter climate. <i>Climate Dynamics</i> , 2018, 50, 4303-4322.	3.8	3
67	Climatic features of summertime baroclinic wave packets over Eurasia and the associated possible impacts on precipitation in southern China. <i>Atmospheric Science Letters</i> , 2019, 20, e889.	1.9	3
68	Modulation of a long-lasting extreme cold event in Siberia by a minor sudden stratospheric warming and the dynamical mechanism involved. <i>Climate Dynamics</i> , 2023, 60, 797-811.	3.8	3
69	The interdecadal variations and causes of the relationship between Autumn Precipitation Anomalies in Eastern China and SSTA over the Southeastern tropical Indian Ocean. <i>Climate Dynamics</i> , 2023, 60, 899-911.	3.8	3
70	Relative Effects of the Greenhouse Gases and Stratospheric Ozone Increases on Temperature and Circulation in the Stratosphere over the Arctic. <i>Remote Sensing</i> , 2022, 14, 3447.	4.0	3
71	Detecting the relationship between summer rainfall anomalies in eastern china and the SSTA in the global domain with a new significance test method. <i>Journal of Ocean University of China</i> , 2009, 8, 15-22.	1.2	2
72	Role of the Moist and Dry Components of Moist Isentropic Mass Circulation in Changing the Extratropical Surface Temperature in Winter. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091587.	4.0	2

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73	Summer Regional Daily Precipitation Extreme Events in Huang-Huai Rivers Region of China and Their Relationships With Rossby Wave Packet Activities. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034065.	3.3	2
74	å†-å¸æžèµæ, ©å·å¹´é™™...å~å€-åšå...¶ä,žä,œä°šæ°”å€™å¼¼,å¸çš,,è”ç³». <i>Chinese Science Bulletin</i> , 2014, 59, 2720-2727.	2.7	2
75	Rossby wave packets in the upper troposphere and their associations with climatological summertime daily precipitation in MLRYR of China. <i>Atmospheric Science Letters</i> , 2021, 22, e1023.	1.9	2
76	Winter anticyclone activities in Siberia and their relationship to the regional temperature anomaly. <i>International Journal of Climatology</i> , 2022, 42, 6293-6310.	3.5	2
77	Analyses of the Short-Term Position Change of the West Pacific Subtropical High during Severe Precipitation in South China Based on Diabatic Heating. , 2010, , .		0
78	On the Interrelation between Spring Bihemispheric Circulations at Middle and High Latitudes. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 1371-1380.	4.3	0
79	Facilitating International Collaboration on Climate Change Research. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E650-E654.	3.3	0