Zhaoyong Guan

List of Publications by Year
in descending order

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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	Modulation of a long-lasting extreme cold event in Siberia by a minor sudden stratospheric warming and the dynamical mechanism involved. Climate Dynamics, 2023, 60, 797-811.	3.8	3
2	The interdecadal variations and causes of the relationship between Autumn Precipitation Anomalies in Eastern China and SSTA over the Southeastern tropical Indian Ocean. Climate Dynamics, 2023, 60, 899-911.	3.8	3
3	Dynamical mechanisms for the recent ozone depletion in the Arctic stratosphere linked to North Pacific sea surface temperatures. Climate Dynamics, 2022, 58, 2663-2679.	3.8	8
4	An Isentropic Mass Circulation View on the Extreme Cold Events in the 2020/21 Winter. Advances in Atmospheric Sciences, 2022, 39, 643-657.	4.3	19
5	Winter anticyclone activities in Siberia and their relationship to the regional temperature anomaly. International Journal of Climatology, 2022, 42, 6293-6310.	3.5	2
6	Carrier Doping Modulates 2D Intrinsic Ferromagnetic Mn₂Ge₂Te₆ Monolayer, High Curie Temperature, Large Magnetic Crystal Anisotropy. Journal of Physical Chemistry C, 2022, 126, 11330-11340.	3.1	9
7	Relative Effects of the Greenhouse Gases and Stratospheric Ozone Increases on Temperature and Circulation in the Stratosphere over the Arctic. Remote Sensing, 2022, 14, 3447.	4.0	3
8	Role of the Moist and Dry Components of Moist Isentropic Mass Circulation in Changing the Extratropical Surface Temperature in Winter. Geophysical Research Letters, 2021, 48, e2020GL091587.	4.0	2
9	Summer Regional Dailyâ€Precipitation Extreme Events in Huangâ€Huai Rivers Region of China and Their Relationships With Rossby Wave Packet Activities. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034065.	3.3	2
10	An unusual high ozone event over the North and Northeast China during the record-breaking summer in 2018. Journal of Environmental Sciences, 2021, 104, 264-276.	6.1	6
11	Strain-Controllable High Curie Temperature and Magnetic Crystal Anisotropy in a 2D Ferromagnetic Semiconductive FeI₃ Monolayer. ACS Applied Electronic Materials, 2021, 3, 3147-3157.	4.3	30
12	Prediction of High Curie Temperature, Large Magnetic Crystal Anisotropy, and Carrier Doping-Induced Half-Metallicity in Two-Dimensional Ferromagnetic FeX₃ (X = F, Cl, Br, and I) Monolayers. Journal of Physical Chemistry C, 2021, 125, 16700-16710.	3.1	29
13	Is the Relationship Between Stratospheric Arctic Vortex and Arctic Oscillation Steady?. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035759.	3.3	9
14	A Common Base Mode of Asian Summer Monsoon Variability across Timescales. Journal of Climate, 2021, 34, 7359-7371.	3.2	9
15	East Asian Summer Monsoon Rainfall Anomalies in 2020 and the Role of Northwest Pacific Anticyclone on the Intraseasonalâ€toâ€Interannual Timescales. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034607.	3.3	5
16	Rossby wave packets in the upper troposphere and their associations with climatological summertime daily precipitation in MLRYR of China. Atmospheric Science Letters, 2021, 22, e1023.	1.9	2
17	Relationships between convective activity in the Maritime Continent and precipitation anomalies in Southwest China during boreal summer. Climate Dynamics, 2020, 54, 973-986.	3.8	13
18	Facilitating International Collaboration on Climate Change Research. Bulletin of the American Meteorological Society, 2020, 101, E650-E654.	3.3	0

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19	Strain-Controllable High Curie Temperature, Large Valley Polarization, and Magnetic Crystal Anisotropy in a 2D Ferromagnetic Janus VSeTe Monolayer. ACS Applied Materials & Interfaces, 2020, 12, 53067-53075.	8.0	59
20	A mask R-CNN model for reidentifying extratropical cyclones based on quasi-supervised thought. Scientific Reports, 2020, 10, 15011.	3.3	19
21	Predicted 2D ferromagnetic Janus VSeTe monolayer with high Curie temperature, large valley polarization and magnetic crystal anisotropy. Nanoscale, 2020, 12, 22735-22742.	5.6	64
22	Roles of Double Lowâ€Level Jets in the Generation of Coexisting Inland and Coastal Heavy Rainfall Over South China During the Presummer Rainy Season. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032890.	3.3	22
23	Atmospheric Internal Variability in the Summer Indoâ€“Northwestern Pacific: Role of the Intraseasonal Oscillation. Journal of Climate, 2020, 33, 3395-3410.	3.2	11
24	East Asian-Australian Monsoon Variations and their Impacts on Regional Climate during Boreal Summer. Journal of the Meteorological Society of Japan, 2020, 98, 283-297.	1.8	6
25	Variation of Anomalous Convergence Around Kalimantan Island in Lower Troposphere and Its Role in Connecting the East Asian Summer Monsoon and Australian Winter Monsoon. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6892-6903.	3.3	6
26	Regional Characteristics of Interannual Variability of Summer Rainfall in the Maritime Continent and Their Related Anomalous Circulation Patterns. Journal of Climate, 2019, 32, 4179-4192.	3.2	16
27	On the Interrelation between Spring Bihemispheric Circulations at Middle and High Latitudes. Advances in Atmospheric Sciences, 2019, 36, 1371-1380.	4.3	0
28	Dynamical connection between the stratospheric Arctic vortex and sea surface temperatures in the North Atlantic. Climate Dynamics, 2019, 53, 6979-6993.	3.8	11
29	Interannual Relationship between the Boreal Spring Arctic Oscillation and the Northern Hemisphere Hadley Circulation Extent. Journal of Climate, 2019, 32, 4395-4408.	3.2	14
30	Climatic features of summertime baroclinic wave packets over Eurasia and the associated possible impacts on precipitation in southern China. Atmospheric Science Letters, 2019, 20, e889.	1.9	3
31	Impacts of April snow cover extent over Tibetan Plateau and the central Eurasia on Indian Ocean Dipole. International Journal of Climatology, 2019, 39, 1756-1767.	3.5	10
32	Recent Weakening in the Stratospheric Planetary Wave Intensity in Early Winter. Geophysical Research Letters, 2019, 46, 3953-3962.	4.0	13
33	The asymmetric eddyâ€“background flow interaction in the North Pacific storm track. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 575-596.	2.7	6
34	Anomalous Circulation Patterns in Association with Summertime Regional Daily Precipitation Extremes over Northeast China. Advances in Meteorology, 2019, 2019, 1-9.	1.6	7
35	Signatures of the Arctic Stratospheric Ozone in Northern Hadley Circulation Extent and Subtropical Precipitation. Geophysical Research Letters, 2019, 46, 12340-12349.	4.0	12
36	Interdecadal variability of El NiÃ±o onset and its impact on monsoon systems over areas encircling the Pacific Ocean. Climate Dynamics, 2019, 52, 7173-7188.	3.8	8

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37	Recent strengthening of the stratospheric Arctic vortex response to warming in the central North Pacific. Nature Communications, 2018, 9, 1697.	12.8	86
38	Decadal Relationship between the Stratospheric Arctic Vortex and Pacific Decadal Oscillation. Journal of Climate, 2018, 31, 3371-3386.	3.2	47
39	The Eurasiaâ€“North Pacific Oscillation in atmospheric mass variations independent of both IHO and AO and its possible impacts on winter climate. Climate Dynamics, 2018, 50, 4303-4322.	3.8	3
40	Potential influence of the Atlantic Multiâ€decadal Oscillation in modulating the biennial relationship between Indian and Australian summer monsoons. International Journal of Climatology, 2018, 38, 5220-5230.	3.5	7
41	Two new sea surface temperature anomalies indices for capturing the eastern and central equatorial Pacific type El NiÃ±oâ€Southern Oscillation events during boreal summer. International Journal of Climatology, 2018, 38, 4066-4076.	3.5	12
42	Joint Impacts of SSTA in Tropical Pacific and Indian Oceans on Variations of the WPSH. Journal of Meteorological Research, 2018, 32, 548-559.	2.4	8
43	Seasonal Variations of Aerosol Optical Depth over East China and India in Relationship to the Asian Monsoon Circulation. Journal of Meteorological Research, 2018, 32, 648-660.	2.4	10
44	An Extreme Rainfall Event in Coastal South China During SCMREXâ€2014: Formation and Roles of Rainband and Echo Trainings. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9256-9278.	3.3	58
45	Summer Rainfall Seesaw between Hetao and the Middle and Lower Reaches of the Yangtze River and Its Relationship with the North Atlantic Oscillation. Journal of Climate, 2017, 30, 6629-6643.	3.2	22
46	A joint monsoon index for East Asianâ€“Australian monsoons during boreal summer. Atmospheric Science Letters, 2017, 18, 403-408.	1.9	14
47	Possible impacts of spring sea surface temperature anomalies over South Indian Ocean on summer rainfall in Guangdong-Guangxi region of China. Climate Dynamics, 2017, 49, 3075-3090.	3.8	15
48	Interdecadal change in the Eurasiaâ€“Pacific anti-phase relation of atmospheric mass and its possible link with PDO. Journal of Meteorological Research, 2017, 31, 126-141.	2.4	3
49	Interannual variability of summertime outgoing longwave radiation over the Maritime Continent in relation to East Asian summer monsoon anomalies. Journal of Meteorological Research, 2017, 31, 665-677.	2.4	19
50	Anomalous circulation patterns in association with two types of daily precipitation extremes over southeastern China during boreal summer. Journal of Meteorological Research, 2016, 30, 183-202.	2.4	8
51	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. Journal of Meteorological Research, 2016, 30, 927-943.	2.4	7
52	A PNN prediction scheme for local tropical cyclone intensity over the South China Sea. Natural Hazards, 2016, 81, 1249-1267.	3.4	8
53	ENSO-independent contemporaneous variations of anomalous circulations in the Northern and Southern Hemispheres: The polar-tropical seesaw mode. Journal of Meteorological Research, 2015, 29, 917-934.	2.4	3
54	Interannual Variations of Regional Summer Precipitation in Mainland China and their Possible Relationships with Different Teleconnections in the Past Five Decades. Journal of the Meteorological Society of Japan, 2015, 93, 265-283.	1.8	18

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55	Interannual variations in atmospheric mass over liquid water oceans, continents, and seaâ€iceâ€covered arctic regions and their possible impacts on the boreal winter climate. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,846.	3.3	5
56	An atmospheric origin of the multi-decadal bipolar seesaw. Scientific Reports, 2015, 5, 8909.	3.3	40
57	Correlation between the Onset of the East Asian Subtropical Summer Monsoon and the Eastward Propagation of the Maddenâ€"Julian Oscillation. Journals of the Atmospheric Sciences, 2015, 72, 1200-1214.	1.7	19
58	Variations in regional mean daily precipitation extremes and related circulation anomalies over central China during boreal summer. Journal of Meteorological Research, 2014, 28, 524-539.	2.4	9
59	The seasonal cycle of redistribution of atmospheric mass between continent and ocean in the Northern Hemisphere. Science China Earth Sciences, 2014, 57, 1501-1512.	5.2	7
60	å†¬å£æžèµæ¸©å·®å¹´é™…å•Œåžå…¶ä¸Žä¸œäºšæ°”å€™å¼‚å„¸çš„è”ç³». Chinese Science Bulletin, 2014, 59, 2720-2727.	2	2
61	Climatological characteristics of frontogenesis and related circulations over East China in June and July. Journal of Meteorological Research, 2013, 27, 144-169.	1.0	4
62	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. Journal of Climate, 2013, 26, 8210-8222.	3.2	55
63	Weakened cyclones, intensified anticyclones and recent extreme cold winter weather events in Eurasia. Environmental Research Letters, 2012, 7, 044044.	5.2	103
64	Relationship between the western Pacific subtropical high and the subtropical East Asian diabatic heating during south China heavy rains in June 2005. Journal of Meteorological Research, 2011, 25, 203-210.	1.0	5
65	Seasonality of interannual inter-hemispheric oscillations over the past five decades. Advances in Atmospheric Sciences, 2010, 27, 1043-1050.	4.3	11
66	West Pacific subtropical high double ridges and intraseasonal variability of the South China Sea summer monsoon. Theoretical and Applied Climatology, 2010, 100, 385-396.	2.8	3
67	Interhemispheric atmospheric mass oscillation and its relation to interannual variations of the Asian monsoon in boreal summer. Science China Earth Sciences, 2010, 53, 1343-1350.	5.2	7
68	Summertime temperature variations in the middle and lower reaches of Yangtze River and their related circulation anomalies in the past five decades. Journal of Chinese Geography, 2010, 20, 581-598.	3.9	3
69	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
70	On the interannual variation in spring atmospheric inter-hemispheric oscillation linked to synchronous climate in China. Progress in Natural Science: Materials International, 2009, 19, 1125-1131.	4.4	8
71	Detecting the relationship between summer rainfall anomalies in eastern china and the SSTA in the global domain with a new significance test method. Journal of Ocean University of China, 2009, 8, 15-22.	1.2	2
72	The seasonal cycle of interhemispheric oscillations in mass field of the global atmosphere. Science Bulletin, 2008, 53, 3226-3234.	9.0	14

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73	Comparison of the Hadley cells calculated from two reanalysis data sets. Science Bulletin, 2006, 51, 1741-1746.	1.7	5
74	The unusual summer of 1994 in East Asia: IOD teleconnections. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	275
75	Influence of the Indian Ocean Dipole on the Australian winter rainfall. Geophysical Research Letters, 2003, 30, .	4.0	392
76	A Look at the Relationship between the ENSO and the Indian Ocean Dipole.. Journal of the Meteorological Society of Japan, 2003, 81, 41-56.	1.8	225
77	Summertime Response of the Tropical Atmosphere to the Indian Ocean Dipole Sea Surface Temperature Anomalies. Journal of the Meteorological Society of Japan, 2003, 81, 533-561.	1.8	95
78	Interhemispheric oscillations in the surface air pressure field. Geophysical Research Letters, 2001, 28, 263-266.	4.0	22
79	Impact of the Indian Ocean dipole on the relationship between the Indian monsoon rainfall and ENSO. Geophysical Research Letters, 2001, 28, 4499-4502.	4.0	862