List of Publications by Year in descending order

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		19657	24982
107	29,531	61	109
papers	citations	h-index	g-index
113	113	113	24476
all docs	docs citations	times ranked	citing authors

#	Article	lF	CITATIONS
1	Recent Eurasian winter cooling partly caused by internal multidecadal variability amplified by Arctic sea ice-air interactions. Climate Dynamics, 2022, 58, 3261-3277.	3.8	15
2	Arctic amplification is the main cause of the Atlantic meridional overturning circulation weakening under large CO2 increases. Climate Dynamics, 2022, 58, 3243-3259.	3.8	5
3	Influence of Anthropogenic Warming on the Atlantic Multidecadal Variability and Its Impact on Global Climate in the Twenty-First Century in the MPI-GE Simulations. Journal of Climate, 2022, 35, 2805-2821.	3.2	3
4	The modulation of Interdecadal Pacific Oscillation and Atlantic Multidecadal Oscillation on winter Eurasian cold anomaly via the Ural blocking change. Climate Dynamics, 2022, 59, 127-150.	3.8	10
5	Decadal Variability of Winter Warm Arcticâ€Cold Eurasia Dipole Patterns Modulated by Pacific Decadal Oscillation and Atlantic Multidecadal Oscillation. Earth's Future, 2022, 10, .	6.3	20
6	Little Influence of Asian Anthropogenic Aerosols on Summer Temperature in Central East Asia Since 1960. Geophysical Research Letters, 2022, 49, .	4.0	9
7	Sea ice–air interactions amplify multidecadal variability in the North Atlantic and Arctic region. Nature Communications, 2022, 13, 2100.	12.8	15
8	Reconciling Roles of External Forcing and Internal Variability in Indian Ocean Decadal Variability Since 1920. Geophysical Research Letters, 2022, 49, .	4.0	2
9	Anchoring of atmospheric teleconnection patterns by Arctic Sea ice loss and its link to winter cold anomalies in East Asia. International Journal of Climatology, 2021, 41, 547-558.	3.5	43
10	Hydroclimatic trends during 1950–2018 over global land. Climate Dynamics, 2021, 56, 4027-4049.	3.8	43
11	Arctic Amplification Weakens the Variability of Daily Temperatures over Northern Middle-High Latitudes. Journal of Climate, 2021, 34, 2591-2609.	3.2	14
12	Contributions of Arctic Seaâ€ice Loss and East Siberian Atmospheric Blocking to 2020 Recordâ€Breaking Meiyuâ€Baiu Rainfall. Geophysical Research Letters, 2021, 48, e2021GL092748.	4.0	29
13	Snowfall and snowpack in the Western U.S. as captured by convection permitting climate simulations: current climate and pseudo global warming future climate. Climate Dynamics, 2021, 57, 2191-2215.	3.8	27
14	Reconciling Human and Natural Drivers of the Tripole Pattern of Multidecadal Summer Temperature Variations Over Eurasia. Geophysical Research Letters, 2021, 48, e2021GL093971.	4.0	10
15	The joint impacts of Atlantic and Pacific multidecadal variability on South American precipitation and temperature. Journal of Climate, 2021, , 1-55.	3.2	7
16	The Impact of Seaâ€Ice Loss on Arctic Climate Feedbacks and Their Role for Arctic Amplification. Geophysical Research Letters, 2021, 48, e2021GL094599.	4.0	33
17	The Convectiveâ€Toâ€Total Precipitation Ratio and the "Drizzling―Bias in Climate Models. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034198	3.3	30
18	A Connection of Winter Eurasian Cold Anomaly to the Modulation of Ural Blocking by ENSO. Geophysical Research Letters, 2021, 48, e2021GL094304.	4.0	32

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19	CMIP6 Model-projected Hydroclimatic and Drought Changes and Their Causes in the 21st Century. Journal of Climate, 2021, , 1-58.	3.2	19
20	A new mechanism for warm-season precipitation response to global warming based on convection-permitting simulations. Climate Dynamics, 2020, 55, 343-368.	3.8	84
21	A new approach to construct representative future forcing data for dynamic downscaling. Climate Dynamics, 2020, 55, 315-323.	3.8	28
22	Nonlinear Climate Responses to Increasing CO2 and Anthropogenic Aerosols Simulated by CESM1. Journal of Climate, 2020, 33, 281-301.	3.2	32
23	Understanding the interâ€decadal variability of autumn precipitation over North Central China using model simulations. International Journal of Climatology, 2020, 40, 874-886.	3.5	5
24	Changes in Convective Available Potential Energy and Convective Inhibition under Global Warming. Journal of Climate, 2020, 33, 2025-2050.	3.2	90
25	Quantifying Contributions of Internal Variability and External Forcing to Atlantic Multidecadal Variability Since 1870. Geophysical Research Letters, 2020, 47, e2020GL089504.	4.0	35
26	Aerosol-forced multidecadal variations across all ocean basins in models and observations since 1920. Science Advances, 2020, 6, eabb0425.	10.3	46
27	Trends in northern midlatitude atmospheric wave power from 1950 to 2099. Climate Dynamics, 2020, 54, 2903-2918.	3.8	15
28	South Asian summer monsoon projections constrained by the interdecadal Pacific oscillation. Science Advances, 2020, 6, eaay6546.	10.3	58
29	Little influence of Arctic amplification on mid-latitude climate. Nature Climate Change, 2020, 10, 231-237.	18.8	80
30	Improved methods for estimating equilibrium climate sensitivity from transient warming simulations. Climate Dynamics, 2020, 54, 4515-4543.	3.8	11
31	The Recent Decline and Recovery of Indian Summer Monsoon Rainfall: Relative Roles of External Forcing and Internal Variability. Journal of Climate, 2020, 33, 5035-5060.	3.2	65
32	Northern Hemisphere Winter Air Temperature Patterns and Their Associated Atmospheric and Ocean Conditions. Journal of Climate, 2020, 33, 6165-6186.	3.2	11
33	Linkage between Projected Precipitation and Atmospheric Thermodynamic Changes. Journal of Climate, 2020, 33, 7155-7178.	3.2	5
34	Are the Transient and Equilibrium Climate Change Patterns Similar in Response to Increased CO2?. Journal of Climate, 2020, 33, 8003-8023.	3.2	8
35	The winter midlatitude-Arctic interaction: effects of North Atlantic SST and high-latitude blocking on Arctic sea ice and Eurasian cooling. Climate Dynamics, 2019, 52, 2981-3004.	3.8	69
36	Precipitation Characteristics in the Community Atmosphere Model and Their Dependence on Model Physics and Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2352-2374.	3.8	47

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37	Projected Changes in Daily Variability and Seasonal Cycle of Near-Surface Air Temperature over the Globe during the Twenty-First Century. Journal of Climate, 2019, 32, 8537-8561.	3.2	26
38	A Nonlinear Theory of Atmospheric Blocking: A Potential Vorticity Gradient View. Journals of the Atmospheric Sciences, 2019, 76, 2399-2427.	1.7	53
39	Detection and Attribution of Atmospheric Precipitable Water Changes since the 1970s over China. Scientific Reports, 2019, 9, 17609.	3.3	20
40	An Externally Forced Decadal Rainfall Seesaw Pattern Over the Sahel and Southeast Amazon. Geophysical Research Letters, 2019, 46, 923-932.	4.0	31
41	Arctic amplification is caused by sea-ice loss under increasing CO2. Nature Communications, 2019, 10, 121.	12.8	350
42	Impacts of internal variability on temperature and precipitation trends in large ensemble simulations by two climate models. Climate Dynamics, 2019, 52, 289-306.	3.8	84
43	Floridian heatwaves and extreme precipitation: future climate projections. Climate Dynamics, 2019, 52, 495-508.	3.8	46
44	Dependence of estimated precipitation frequency and intensity on data resolution. Climate Dynamics, 2018, 50, 3625-3647.	3.8	38
45	Changes in Atmospheric Blocking Circulations Linked with Winter Arctic Warming: A New Perspective. Journal of Climate, 2018, 31, 7661-7678.	3.2	95
46	Contributions of Internal Variability and External Forcing to the Recent Pacific Decadal Variations. Geophysical Research Letters, 2018, 45, 7084-7092.	4.0	47
47	Climate Change and Drought: a Precipitation and Evaporation Perspective. Current Climate Change Reports, 2018, 4, 301-312.	8.6	303
48	Asymmetric Modulation of ENSO Teleconnections by the Interdecadal Pacific Oscillation. Journal of Climate, 2018, 31, 7337-7361.	3.2	48
49	Uncertainties in historical changes and future projections of drought. Part I: estimates of historical drought changes. Climatic Change, 2017, 144, 519-533.	3.6	191
50	Increased Quasi Stationarity and Persistence of Winter Ural Blocking and Eurasian Extreme Cold Events in Response to Arctic Warming. Part I: Insights from Observational Analyses. Journal of Climate, 2017, 30, 3549-3568.	3.2	193
51	Increased Quasi Stationarity and Persistence of Winter Ural Blocking and Eurasian Extreme Cold Events in Response to Arctic Warming. Part II: A Theoretical Explanation. Journal of Climate, 2017, 30, 3569-3587.	3.2	83
52	Drylands face potential threat under 2 °C global warming target. Nature Climate Change, 2017, 7, 417-422.	18.8	450
53	Continental-scale convection-permitting modeling of the current and future climate of North America. Climate Dynamics, 2017, 49, 71-95.	3.8	362
54	Winter Eurasian cooling linked with the Atlantic Multidecadal Oscillation. Environmental Research Letters, 2017, 12, 125002.	5.2	49

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55	Dryland climate change: Recent progress and challenges. Reviews of Geophysics, 2017, 55, 719-778.	23.0	507
56	Uncertainties in historical changes and future projections of drought. Part II: model-simulated historical and future drought changes. Climatic Change, 2017, 144, 535-548.	3.6	133
57	The uncertainties and causes of the recent changes in global evapotranspiration from 1982 to 2010. Climate Dynamics, 2017, 49, 279-296.	3.8	38
58	Global Water Vapor Trend from 1988 to 2011 and Its Diurnal Asymmetry Based on GPS, Radiosonde, and Microwave Satellite Measurements. Journal of Climate, 2016, 29, 5205-5222.	3.2	86
59	Metrics for the Diurnal Cycle of Precipitation: Toward Routine Benchmarks for Climate Models. Journal of Climate, 2016, 29, 4461-4471.	3.2	73
60	Impact of Ural Blocking on Winter Warm Arctic–Cold Eurasian Anomalies. Part I: Blocking-Induced Amplification. Journal of Climate, 2016, 29, 3925-3947.	3.2	270
61	Impact of Ural Blocking on Winter Warm Arctic–Cold Eurasian Anomalies. Part II: The Link to the North Atlantic Oscillation. Journal of Climate, 2016, 29, 3949-3971.	3.2	152
62	The Footprint of the Inter-decadal Pacific Oscillation in Indian Ocean Sea Surface Temperatures. Scientific Reports, 2016, 6, 21251.	3.3	56
63	Challenges in Quantifying Changes in the Global Water Cycle. Bulletin of the American Meteorological Society, 2015, 96, 1097-1115.	3.3	212
64	Evaluation of atmospheric precipitable water from reanalysis products using homogenized radiosonde observations over China. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,703.	3.3	35
65	The influence of the Interdecadal Pacific Oscillation on Temperature and Precipitation over the Globe. Climate Dynamics, 2015, 45, 2667-2681.	3.8	223
66	Decadal Relationship between European Blocking and the North Atlantic Oscillation during 1978–2011. Part I: Atlantic Conditions. Journals of the Atmospheric Sciences, 2015, 72, 1152-1173.	1.7	30
67	Observed Changes in the Distributions of Daily Precipitation Frequency and Amount over China from 1960 to 2013. Journal of Climate, 2015, 28, 6960-6978.	3.2	159
68	The Magnitude and Causes of Global Drought Changes in the Twenty-First Century under a Low–Moderate Emissions Scenario. Journal of Climate, 2015, 28, 4490-4512.	3.2	226
69	Decadal modulation of global surface temperature by internal climate variability. Nature Climate Change, 2015, 5, 555-559.	18.8	368
70	Climate Change Impacts on the Water Balance of the Colorado Headwaters: High-Resolution Regional Climate Model Simulations. Journal of Hydrometeorology, 2014, 15, 1091-1116.	1.9	166
71	A nonlinear multiscale interaction model for atmospheric blocking: The eddy-blocking matching mechanism. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1785-1808.	2.7	75
72	Global warming and changes in drought. Nature Climate Change, 2014, 4, 17-22.	18.8	2,231

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73	The influence of the inter-decadal Pacific oscillation on US precipitation during 1923–2010. Climate Dynamics, 2013, 41, 633-646.	3.8	242
74	Increasing drought under global warming in observations and models. Nature Climate Change, 2013, 3, 52-58.	18.8	3,342
75	Radiation Dry Bias Correction of Vaisala RS92 Humidity Data and Its Impacts on Historical Radiosonde Data. Journal of Atmospheric and Oceanic Technology, 2013, 30, 197-214.	1.3	91
76	Trends in Tropospheric Humidity from 1970 to 2008 over China from a Homogenized Radiosonde Dataset. Journal of Climate, 2012, 25, 4549-4567.	3.2	68
77	How much do precipitation extremes change in a warming climate?. Geophysical Research Letters, 2012, 39, .	4.0	91
78	Characteristics and trends in various forms of the Palmer Drought Severity Index during 1900–2008. Journal of Geophysical Research, 2011, 116, .	3.3	747
79	Drought under global warming: a review. Wiley Interdisciplinary Reviews: Climate Change, 2011, 2, 45-65.	8.1	2,354
80	A New Approach to Homogenize Daily Radiosonde Humidity Data. Journal of Climate, 2011, 24, 965-991.	3.2	118
81	Responses of East Asian summer monsoon to historical SST and atmospheric forcing during 1950–2000. Climate Dynamics, 2010, 34, 501-514.	3.8	353
82	A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. Journal of Climate, 2009, 22, 5251-5272.	3.2	282
83	Changes in Continental Freshwater Discharge from 1948 to 2004. Journal of Climate, 2009, 22, 2773-2792.	3.2	767
84	Summer Precipitation Frequency, Intensity, and Diurnal Cycle over China: A Comparison of Satellite Data with Rain Gauge Observations. Journal of Climate, 2008, 21, 3997-4010.	3.2	300
85	Hydroclimatic Trends in the Mississippi River Basin from 1948 to 2004. Journal of Climate, 2007, 20, 4599-4614.	3.2	77
86	Estimates of the Global Water Budget and Its Annual Cycle Using Observational and Model Data. Journal of Hydrometeorology, 2007, 8, 758-769.	1.9	716
87	Effects of Mount Pinatubo volcanic eruption on the hydrological cycle as an analog of geoengineering. Geophysical Research Letters, 2007, 34, .	4.0	366
88	How Often Will It Rain?. Journal of Climate, 2007, 20, 4801-4818.	3.2	323
89	The frequency, intensity, and diurnal cycle of precipitation in surface and satellite observations over low- and mid-latitudes. Climate Dynamics, 2007, 29, 727-744.	3.8	211
90	A Characterization of Tropical Transient Activity in the CAM3 Atmospheric Hydrologic Cycle. Journal of Climate, 2006, 19, 2222-2242.	3.2	39

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91	Precipitation Characteristics in Eighteen Coupled Climate Models. Journal of Climate, 2006, 19, 4605-4630.	3.2	902
92	How Often Does It Rain?. Journal of Climate, 2006, 19, 916-934.	3.2	371
93	Simulation of Global Land Surface Conditions from 1948 to 2004. Part I: Forcing Data and Evaluations. Journal of Hydrometeorology, 2006, 7, 953-975.	1.9	416
94	Recent Climatology, Variability, and Trends in Global Surface Humidity. Journal of Climate, 2006, 19, 3589-3606.	3.2	397
95	Atlantic Thermohaline Circulation in a Coupled General Circulation Model: Unforced Variations versus Forced Changes. Journal of Climate, 2005, 18, 3270-3293.	3.2	61
96	A Global Dataset of Palmer Drought Severity Index for 1870–2002: Relationship with Soil Moisture and Effects of Surface Warming. Journal of Hydrometeorology, 2004, 5, 1117-1130.	1.9	1,740
97	The recent Sahel drought is real. International Journal of Climatology, 2004, 24, 1323-1331.	3.5	343
98	The Diurnal Cycle and Its Depiction in the Community Climate System Model. Journal of Climate, 2004, 17, 930-951.	3.2	408
99	The Changing Character of Precipitation. Bulletin of the American Meteorological Society, 2003, 84, 1205-1218.	3.3	2,280
100	Estimates of Freshwater Discharge from Continents: Latitudinal and Seasonal Variations. Journal of Hydrometeorology, 2002, 3, 660-687.	1.9	912
101	Climates of the Twentieth and Twenty-First Centuries Simulated by the NCAR Climate System Model. Journal of Climate, 2001, 14, 485-519.	3.2	230
102	Global Precipitation and Thunderstorm Frequencies. Part II: Diurnal Variations. Journal of Climate, 2001, 14, 1112-1128.	3.2	373
103	Global Precipitation and Thunderstorm Frequencies. Part I: Seasonal and Interannual Variations. Journal of Climate, 2001, 14, 1092-1111.	3.2	130
104	Global patterns of ENSO-induced precipitation. Geophysical Research Letters, 2000, 27, 1283-1286.	4.0	533
105	Observed and model-simulated diurnal cycles of precipitation over the contiguous United States. Journal of Geophysical Research, 1999, 104, 6377-6402.	3.3	412
106	Global variations in droughts and wet spells: 1900-1995. Geophysical Research Letters, 1998, 25, 3367-3370.	4.0	346
107	Surface Observed Global Land Precipitation Variations during 1900–88. Journal of Climate, 1997, 10, 2943-2962.	3.2	551