

# Yimin Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4813397/publications.pdf>

Version: 2024-02-01

114  
papers

6,688  
citations

94381

37  
h-index

66879

78  
g-index

117  
all docs

117  
docs citations

117  
times ranked

4706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Controls on the Asian Summer Monsoon. <i>Scientific Reports</i> , 2012, 2, 404.	1.6	615
2	The Influence of Mechanical and Thermal Forcing by the Tibetan Plateau on Asian Climate. <i>Journal of Hydrometeorology</i> , 2007, 8, 770-789.	0.7	611
3	Recent Third Pole's Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 423-444.	1.7	590
4	Tibetan Plateau warming and precipitation changes in East Asia. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	543
5	Tibetan Plateau climate dynamics: recent research progress and outlook. <i>National Science Review</i> , 2015, 2, 100-116.	4.6	342
6	The flexible global ocean-atmosphere-land system model, Grid-point Version 2: FGOALS-g2. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 543-560.	1.9	253
7	The Flexible Global Ocean-Atmosphere-Land system model, Spectral Version 2: FGOALS-s2. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 561-576.	1.9	210
8	Intensification of Northern Hemisphere subtropical highs in a warming climate. <i>Nature Geoscience</i> , 2012, 5, 830-834.	5.4	190
9	New proofs of the recent climate warming over the Tibetan Plateau as a result of the increasing greenhouse gases emissions. <i>Science Bulletin</i> , 2006, 51, 1396-1400.	1.7	151
10	Weather and climate effects of the Tibetan Plateau. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 978-992.	1.9	140
11	The Third Atmospheric Scientific Experiment for Understanding the Earth's Atmosphere Coupled System over the Tibetan Plateau and Its Effects. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 757-776.	1.7	128
12	Revisiting Asian monsoon formation and change associated with Tibetan Plateau forcing: I. Formation. <i>Climate Dynamics</i> , 2012, 39, 1169-1181.	1.7	125
13	Land-atmosphere-ocean coupling associated with the Tibetan Plateau and its climate impacts. <i>National Science Review</i> , 2020, 7, 534-552.	4.6	119
14	Summertime quadruplet heating pattern in the subtropics and the associated atmospheric circulation. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	116
15	Revisiting Asian monsoon formation and change associated with Tibetan Plateau forcing: II. Change. <i>Climate Dynamics</i> , 2012, 39, 1183-1195.	1.7	116
16	CAS FGOALS-f3-L Model Datasets for CMIP6 Historical Atmospheric Model Intercomparison Project Simulation. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 771-778.	1.9	109
17	Anomalous summer climate in China influenced by the tropical Indo-Pacific Oceans. <i>Climate Dynamics</i> , 2011, 36, 769-782.	1.7	86
18	Recent progress in the impact of the Tibetan Plateau on climate in China. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 1060-1076.	1.9	83

#	ARTICLE	IF	CITATIONS
19	Global energy and water balance: Characteristics from a volume atmospheric model of the IAP/LASG (FAMIL1). Journal of Advances in Modeling Earth Systems, 2015, 7, 1-20.	1.3	78
20	Two types of summertime heating over the Asian large-scale orography and excitation of potential-vorticity forcing I. Over Tibetan Plateau. Science China Earth Sciences, 2016, 59, 1996-2008.	2.3	76
21	Location and variation of the summertime upper-troposphere temperature maximum over South Asia. Climate Dynamics, 2015, 45, 2757-2774.	1.7	70
22	Cloud vertical structure, precipitation, and cloud radiative effects over Tibetan Plateau and its neighboring regions. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5864-5877.	1.2	69
23	An introduction to the coupled model FGOALS1.1-s and its performance in East Asia. Advances in Atmospheric Sciences, 2010, 27, 1131-1142.	1.9	64
24	Air-sea interaction and formation of the Asian summer monsoon onset vortex over the Bay of Bengal. Climate Dynamics, 2012, 38, 261-279.	1.7	64
25	Interannual variability of the spring atmospheric heat source over the Tibetan Plateau forced by the North Atlantic SSTA. Climate Dynamics, 2015, 45, 1617-1634.	1.7	64
26	An assessment of summer sensible heat flux on the Tibetan Plateau from eight data sets. Science China Earth Sciences, 2012, 55, 779-786.	2.3	62
27	The possible impact of urbanization on a heavy rainfall event in Beijing. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8132-8143.	1.2	61
28	Understanding the surface temperature cold bias in CMIP5 AGCMs over the Tibetan Plateau. Advances in Atmospheric Sciences, 2017, 34, 1447-1460.	1.9	59
29	Asian summer monsoon onset barrier and its formation mechanism. Climate Dynamics, 2015, 45, 711-726.	1.7	53
30	Roles of Anomalous Tibetan Plateau Warming on the Severe 2008 Winter Storm in Central-Southern China. Monthly Weather Review, 2010, 138, 2375-2384.	0.5	52
31	Formation and variation of the atmospheric heat source over the Tibetan Plateau and its climate effects. Advances in Atmospheric Sciences, 2017, 34, 1169-1184.	1.9	51
32	Impact of Mongolian Plateau versus Tibetan Plateau on the westerly jet over North Pacific Ocean. Climate Dynamics, 2015, 44, 3067-3076.	1.7	50
33	Heating status of the Tibetan Plateau from April to June and rainfall and atmospheric circulation anomaly over East Asia in midsummer. Science in China Series D: Earth Sciences, 2005, 48, 250-257.	0.9	49
34	Evaluation of FAMIL2 in Simulating the Climatology and Seasonal Interannual Variability of Tropical Cyclone Characteristics. Journal of Advances in Modeling Earth Systems, 2019, 11, 1117-1136.	1.3	49
35	Science and Prediction of Heavy Rainfall over China: Research Progress since the Reform and Opening-Up of New China. Journal of Meteorological Research, 2020, 34, 427-459.	0.9	47
36	Outlook for El Niño and the Indian Ocean Dipole in autumn-winter 2018&ndash;2019. Chinese Science Bulletin, 2019, 64, 73-78.	0.4	46

#	ARTICLE	IF	CITATIONS
37	Two types of summertime heating over Asian large-scale orography and excitation of potential-vorticity forcing II. Sensible heating over Tibetan-Iranian Plateau. <i>Science China Earth Sciences</i> , 2017, 60, 733-744.	2.3	41
38	Clustering of Tibetan Plateau Vortices by 10°-30-Day Intraseasonal Oscillation*. <i>Monthly Weather Review</i> , 2014, 142, 290-300.	0.5	39
39	Intensification of the Southern Hemisphere summertime subtropical anticyclones in a warming climate. <i>Geophysical Research Letters</i> , 2013, 40, 5959-5964.	1.5	36
40	The Tibetan Plateau Surface-Atmosphere Coupling System and Its Weather and Climate Effects: The Third Tibetan Plateau Atmospheric Science Experiment. <i>Journal of Meteorological Research</i> , 2019, 33, 375-399.	0.9	36
41	Sensitivity of ITCZ configuration to cumulus convective parameterizations on an aqua planet. <i>Climate Dynamics</i> , 2010, 34, 223-240.	1.7	33
42	Vortex genesis over the Bay of Bengal in spring and its role in the onset of the Asian Summer Monsoon. <i>Science China Earth Sciences</i> , 2011, 54, 1-9.	2.3	33
43	CAS FGOALS-f3-L Model Datasets for CMIP6 GMMIP Tier-1 and Tier-3 Experiments. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 18-28.	1.9	32
44	Impact of North Atlantic SST and Tibetan Plateau forcing on seasonal transition of springtime South Asian monsoon circulation. <i>Climate Dynamics</i> , 2021, 56, 559-579.	1.7	32
45	Dynamical and thermal problems in vortex development and movement. Part I: A PV-Q view. <i>Journal of Meteorological Research</i> , 2013, 27, 1-14.	1.0	31
46	Astronomical and Hydrological Perspective of Mountain Impacts on the Asian Summer Monsoon. <i>Scientific Reports</i> , 2015, 5, 17586.	1.6	31
47	Impact of urbanization on boundary layer structure in Beijing. <i>Climatic Change</i> , 2013, 120, 123-136.	1.7	30
48	The role of air-sea interactions in regulating the thermal effect of the Tibetan-Iranian Plateau on the Asian summer monsoon. <i>Climate Dynamics</i> , 2019, 52, 4227-4245.	1.7	30
49	PV-Q Perspective of Cyclogenesis and Vertical Velocity Development Downstream of the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD030912.	1.2	26
50	Influences of external forcing changes on the summer cooling trend over East Asia. <i>Climatic Change</i> , 2013, 117, 829-841.	1.7	25
51	Impacts of the Tibetan Plateau on Asian Climate. <i>Meteorological Monographs</i> , 2016, 56, 7.1-7.29.	5.0	25
52	An evaluation of cloud vertical structure in three reanalyses against CloudSat/cloud-aerosol lidar and infrared pathfinder satellite observations. <i>Atmospheric Science Letters</i> , 2019, 20, e906.	0.8	24
53	The role of land-sea distribution in the formation of the Asian summer monsoon. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	22
54	Improvement of land surface temperature simulation over the Tibetan Plateau and the associated impact on circulation in East Asia. <i>Atmospheric Science Letters</i> , 2016, 17, 162-168.	0.8	22

#	ARTICLE	IF	CITATIONS
55	Eurasian Cooling Linked with Arctic Warming: Insights from PV Dynamics. <i>Journal of Climate</i> , 2020, 33, 2627-2644.	1.2	22
56	Impact of tropical cyclone development on the instability of South Asian High and the summer monsoon onset over Bay of Bengal. <i>Climate Dynamics</i> , 2013, 41, 2603-2616.	1.7	19
57	Quasi-biweekly impact of the atmospheric heat source over the Tibetan Plateau on summer rainfall in Eastern China. <i>Climate Dynamics</i> , 2019, 53, 4489-4504.	1.7	19
58	A dynamic and thermodynamic coupling view of the linkages between Eurasian cooling and Arctic warming. <i>Climate Dynamics</i> , 2022, 58, 2725-2744.	1.7	19
59	Vertical Structures of Convective and Stratiform Clouds in Boreal Summer over the Tibetan Plateau and Its Neighboring Regions. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 1089-1102.	1.9	18
60	CAS FGOALS-f3-L model dataset descriptions for CMIP6 DECK experiments. <i>Atmospheric and Oceanic Science Letters</i> , 2020, 13, 582-588.	0.5	18
61	Comparisons of soil moisture datasets over the Tibetan Plateau and application to the simulation of Asia summer monsoon onset. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 303-314.	1.9	17
62	Large-scale Dynamics and Moisture Sources of the Precipitation Over the Western Tibetan Plateau in Boreal Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032133.	1.2	17
63	Effect of horizontal resolution on the simulation of tropical cyclones in the Chinese Academy of Sciences FGOALS-f3 climate system model. <i>Geoscientific Model Development</i> , 2021, 14, 6113-6133.	1.3	17
64	Cloud radiative forcing in Asian monsoon region simulated by IPCC AR4 AMIP models. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 923-939.	1.9	16
65	Coupling of the Quasi-biweekly Oscillation of the Tibetan Plateau Summer Monsoon With the Arctic Oscillation. <i>Geophysical Research Letters</i> , 2018, 45, 7756-7764.	1.5	16
66	The effects of asymmetric potential vorticity forcing on the instability of South Asia High and Indian summer monsoon onset. <i>Science China Earth Sciences</i> , 2014, 57, 337-350.	2.3	15
67	CAS FGOALS-f3-H and CAS FGOALS-f3-L outputs for the high-resolution model intercomparison project simulation of CMIP6. <i>Atmospheric and Oceanic Science Letters</i> , 2020, 13, 576-581.	0.5	15
68	Abnormal warm sea-surface temperature in the Indian Ocean, active potential vorticity over the Tibetan Plateau, and severe flooding along the Yangtze River in summer 2020. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 1001-1019.	1.0	15
69	On the incident solar radiation in CMIP5 models. <i>Geophysical Research Letters</i> , 2015, 42, 1930-1935.	1.5	14
70	Warm season heavy rainfall events over the Huaihe River Valley and their linkage with wintertime thermal condition of the tropical oceans. <i>Climate Dynamics</i> , 2016, 46, 71-82.	1.7	13
71	Characteristics of the potential vorticity and its budget in the surface layer over the Tibetan plateau. <i>International Journal of Climatology</i> , 2021, 41, 439-455.	1.5	13
72	Top-of-atmosphere Radiation Budget and Cloud Radiative Effects Over the Tibetan Plateau and Adjacent Monsoon Regions From CMIP6 Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034345.	1.2	13

#	ARTICLE	IF	CITATIONS
73	Features of rainfall and latent heating structure simulated by two convective parameterization schemes. <i>Science China Earth Sciences</i> , 2011, 54, 1779-1788.	2.3	12
74	The application of flux-form semi-Lagrangian transport scheme in a spectral atmosphere model. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 89-100.	1.9	12
75	Comparisons of GCM cloud cover parameterizations with cloud-resolving model explicit simulations. <i>Science China Earth Sciences</i> , 2015, 58, 604-614.	2.3	12
76	Impact of potential vorticity anomalies around the eastern Tibetan Plateau on quasi-biweekly oscillations of summer rainfall within and south of the Yangtze Basin in 2016. <i>Climate Dynamics</i> , 2021, 56, 813-835.	1.7	12
77	ADAPTATION OF THE ATMOSPHERIC CIRCULATION TO THERMAL FORCING OVER THE TIBETAN PLATEAU. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2004, , 92-114.	0.2	12
78	A study on sulfate optical properties and direct radiative forcing using LASG-IAP general circulation model. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 1185-1199.	1.9	11
79	Impact of Surface Potential Vorticity Density Forcing over the Tibetan Plateau on the South China Extreme Precipitation in January 2008. Part I: Data Analysis. <i>Journal of Meteorological Research</i> , 2019, 33, 400-415.	0.9	11
80	Climate sensitivity and cloud feedback processes imposed by two different external forcings in an aquaplanet GCM. <i>Theoretical and Applied Climatology</i> , 2012, 110, 1-10.	1.3	10
81	Dynamical Seasonal Prediction of Tropical Cyclone Activity Using the FGOALS-f2 Ensemble Prediction System. <i>Weather and Forecasting</i> , 2021, 36, 1759-1778.	0.5	10
82	Dynamical and thermal problems in vortex development and movement. Part II: Generalized slantwise vorticity development. <i>Journal of Meteorological Research</i> , 2013, 27, 15-25.	1.0	9
83	Seasonal evolution of subtropical anticyclones in the climate system model FGOALS-s2. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 593-606.	1.9	9
84	PV Perspective of Impacts on Downstream Extreme Rainfall Event of a Tibetan Plateau Vortex Collaborating with a Southwest China Vortex. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 1835-1851.	1.9	9
85	Impact of Surface Potential Vorticity Density Forcing over the Tibetan Plateau on the South China Extreme Precipitation in January 2008. Part II: Numerical Simulation. <i>Journal of Meteorological Research</i> , 2019, 33, 416-432.	0.9	7
86	Comparison of mixed-phase clouds over the Arctic and the Tibetan Plateau: seasonality and vertical structure of cloud radiative effects. <i>Climate Dynamics</i> , 2020, 54, 4811-4822.	1.7	7
87	Dependence of cloud radiation on cloud overlap, horizontal inhomogeneity, and vertical alignment in stratiform and convective regions. <i>Atmospheric Research</i> , 2021, 249, 105358.	1.8	7
88	A Regime-Based Investigation Into the Errors of CMIP6 Simulated Cloud Radiative Effects Using Satellite Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095399.	1.5	7
89	Potential vorticity perspective of the genesis of a Tibetan Plateau vortex in June 2016. <i>Climate Dynamics</i> , 2022, 58, 3351-3367.	1.7	7
90	Earth System Model FGOALS-s2: Coupling a dynamic global vegetation and terrestrial carbon model with the physical climate system model. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 1549-1559.	1.9	6

#	ARTICLE	IF	CITATIONS
91	Assessment of reanalysis flux products based on eddy covariance observations over the Tibetan Plateau. <i>Theoretical and Applied Climatology</i> , 2019, 138, 275-292.	1.3	6
92	Impact of urbanization on rainfall of different strengths in the Beijing area. <i>Theoretical and Applied Climatology</i> , 2020, 139, 1097-1110.	1.3	6
93	Interannual Influences of the Surface Potential Vorticity Forcing over the Tibetan Plateau on East Asian Summer Rainfall. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 1050-1061.	1.9	6
94	Potential Impact of Spring Thermal Forcing Over the Tibetan Plateau on the Following Winter El Niño Southern Oscillation. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
95	An evaluation of the effects of cloud parameterization in the R42L9 GCM. <i>Advances in Atmospheric Sciences</i> , 2004, 21, 153-162.	1.9	5
96	Simulating and Evaluating Global Aerosol Distributions With the Online Aerosol-Coupled CAS-FOGOALS Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032097.	1.2	5
97	Linkage between cross-equatorial potential vorticity flux and surface air temperature over the mid-high latitudes of Eurasia during boreal spring. <i>Climate Dynamics</i> , 2022, 59, 3247-3263.	1.7	5
98	Contrasts of atmospheric circulation and associated tropical convection between Huaihe River valley and Yangtze River valley mei-yu flooding. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 755-768.	1.9	4
99	LASG Global AGCM with a Two-moment Cloud Microphysics Scheme: Energy Balance and Cloud Radiative Forcing Characteristics. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 697-710.	1.9	4
100	CAS FGOALS-f3-L Large-ensemble Simulations for the CMIP6 Polar Amplification Model Intercomparison Project. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 1028-1049.	1.9	4
101	Effects of Cloud Microphysics on the Vertical Structures of Cloud Radiative Effects over the Tibetan Plateau and the Arctic. <i>Remote Sensing</i> , 2021, 13, 2651.	1.8	4
102	Evaluation of the seasonality and spatial aspects of the Southern Annular Mode in CMIP6 models. <i>International Journal of Climatology</i> , 2022, 42, 3820-3837.	1.5	4
103	Quantification of Seasonal and Interannual Variations of the Tibetan Plateau Surface Thermodynamic Forcing Based on the Potential Vorticity. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
104	Interannual Impact of the North Atlantic Tripole SST Mode on the Surface Potential Vorticity Over the Tibetan Plateau During Boreal Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	4
105	FORMATION OF THE SUMMERTIME SUBTROPICAL ANTICYCLONES. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2004, , 499-544.	0.2	3
106	Comparisons of the temperature and humidity profiles of reanalysis products with shipboard GPS sounding measurements obtained during the 2018 Eastern Indian Ocean Open Cruise. <i>Atmospheric and Oceanic Science Letters</i> , 2019, 12, 177-183.	0.5	3
107	The climate variability in global land precipitation in FGOALS-f3-L: A comparison between GMMIP and historical simulations. <i>Atmospheric and Oceanic Science Letters</i> , 2020, 13, 559-567.	0.5	3
108	Modelling study on the source contribution to aerosol over the Tibetan Plateau. <i>International Journal of Climatology</i> , 2021, 41, 3247-3265.	1.5	3

#	ARTICLE	IF	CITATIONS
109	Modulation of land-sea thermal contrast on the energy source and sink of tropical cyclone activity and its annual cycle. <i>Science China Earth Sciences</i> , 2012, 55, 1855-1871.	2.3	2
110	Meridional Tripole Mode of Winter Precipitation over the Arctic and Continental North Africaâ€Eurasia. <i>Journal of Climate</i> , 2021, , 1.	1.2	1
111	The Nature of the Thermal Forcing of the Asian Summer Monsoon. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2021, , 27-36.	0.2	0
112	Monthly prediction of tropical cyclone activity over the South China Sea using the FGOALS-f2 ensemble prediction system. <i>Atmospheric and Oceanic Science Letters</i> , 2021, , 100116.	0.5	0
113	Sensitivities of simulated global aerosol optical depth and aerosol-radiation interactions to different horizontal resolutions in CAS-FGOALS-f3. <i>Atmospheric Environment</i> , 2022, 271, 118920.	1.9	0
114	Simulating Aerosol Optical Depth and Direct Radiative Effects over the Tibetan Plateau with a High-Resolution CAS FGOALS-f3 Model. <i>Advances in Atmospheric Sciences</i> , 0, , .	1.9	0