

Yanluan Lin

List of Publications by Year in descending order

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95
papers

3,696
citations

201385

27
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143772

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99
all docs

99
docs citations

99
times ranked

4974
citing authors

#	ARTICLE	IF	CITATIONS
1	The Dynamical Core, Physical Parameterizations, and Basic Simulation Characteristics of the Atmospheric Component AM3 of the GFDL Global Coupled Model CM3. <i>Journal of Climate</i> , 2011, 24, 3484-3519.	1.2	887
2	Recently amplified arctic warming has contributed to a continual global warming trend. <i>Nature Climate Change</i> , 2017, 7, 875-879.	8.1	218
3	Summer rainfall over the southwestern Tibetan Plateau controlled by deep convection over the Indian subcontinent. <i>Nature Communications</i> , 2016, 7, 10925.	5.8	160
4	The Southern China Monsoon Rainfall Experiment (SCMREX). <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 999-1013.	1.7	144
5	CLOUDS AND MORE: ARM Climate Modeling Best Estimate Data. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 13-20.	1.7	139
6	Tropical cyclone rainfall area controlled by relative sea surface temperature. <i>Nature Communications</i> , 2015, 6, 6591.	5.8	139
7	A New Bulk Microphysical Scheme That Includes Riming Intensity and Temperature-Dependent Ice Characteristics. <i>Monthly Weather Review</i> , 2011, 139, 1013-1035.	0.5	135
8	Clouds, Aerosols, and Precipitation in the Marine Boundary Layer: An Arm Mobile Facility Deployment. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 419-440.	1.7	117
9	Observed Tropical Cyclone Size Revisited. <i>Journal of Climate</i> , 2016, 29, 2923-2939.	1.2	97
10	Enlarging Rainfall Area of Tropical Cyclones by Atmospheric Aerosols. <i>Geophysical Research Letters</i> , 2018, 45, 8604-8611.	1.5	94
11	Causes of model dry and warm bias over central U.S. and impact on climate projections. <i>Nature Communications</i> , 2017, 8, 881.	5.8	92
12	Development of a global gridded Argo data set with Barnes successive corrections. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 866-889.	1.0	90
13	Development of a land surface model with coupled snow and frozen soil physics. <i>Water Resources Research</i> , 2017, 53, 5085-5103.	1.7	76
14	Mesoscale Convective Systems in the Asian Monsoon Region From Advanced Himawari Imager: Algorithms and Preliminary Results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2210-2234.	1.2	57
15	The 4â€“5 December 2001 IMPROVE-2 Event: Observed Microphysics and Comparisons with the Weather Research and Forecasting Model. <i>Monthly Weather Review</i> , 2009, 137, 1372-1392.	0.5	54
16	A long-term tropical mesoscale convective systems dataset based on a novel objective automatic tracking algorithm. <i>Climate Dynamics</i> , 2018, 51, 3145-3159.	1.7	50
17	Development of Climate and Earth System Models in China: Past Achievements and New CMIP6 Results. <i>Journal of Meteorological Research</i> , 2020, 34, 1-19.	0.9	46
18	Community Integrated Earth System Model (CIesm): Description and Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002036.	1.3	44

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19	TWPâ€ICE global atmospheric model intercomparison: Convection responsiveness and resolution impact. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
20	Parameterization of Riming Intensity and Its Impact on Ice Fall Speed Using ARM Data. <i>Monthly Weather Review</i> , 2011, 139, 1036-1047.	0.5	36
21	The Climatology of Lowâ€Level Jet in Beijing and Guangzhou, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2816-2830.	1.2	34
22	A singleâ€column model ensemble approach applied to the TWPâ€ICE experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6544-6563.	1.2	33
23	Modulation of Clouds and Rainfall by Tropical Cyclone's Cold Wakes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088873.	1.5	33
24	Orographic Modification of Convection and Flow Kinematics by the Oregon Coast Range and Cascades during IMPROVE-2. <i>Monthly Weather Review</i> , 2008, 136, 3894-3916.	0.5	32
25	Evaluation of Precipitation Simulated by Seven SCMs against the ARM Observations at the SGP Site*. <i>Journal of Climate</i> , 2013, 26, 5467-5492.	1.2	31
26	Precipitable water and CAPE dependence of rainfall intensities in China. <i>Climate Dynamics</i> , 2019, 52, 3357-3368.	1.7	31
27	Impact of Initialized Land Surface Temperature and Snowpack on Subseasonal to Seasonal Prediction Project, Phase I (LS4P-I): organization and experimental design. <i>Geoscientific Model Development</i> , 2021, 14, 4465-4494.	1.3	31
28	Precipitation Partitioning, Tropical Clouds, and Intraseasonal Variability in GFDL AM2. <i>Journal of Climate</i> , 2013, 26, 5453-5466.	1.2	30
29	A Diagnostic <sc>PDF</sc> Cloud Scheme to Improve Subtropical Low Clouds in <sc>NCAR</sc> Community Atmosphere Model (<sc>CAM</sc>5). <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 320-341.	1.3	29
30	Clinical Significance of <i>CDH13</i> Promoter Methylation in Serum Samples from Patients with Bladder Transitional Cell Carcinoma. <i>Journal of International Medical Research</i> , 2011, 39, 179-186.	0.4	26
31	Technique for Combined Dynamic Compressionâ€Shear Testing of PBXs. <i>Experimental Mechanics</i> , 2012, 52, 205-213.	1.1	26
32	Low probability of tropical cyclones on ocean planets in the habitable zones of M dwarfs. <i>Icarus</i> , 2018, 299, 364-369.	1.1	26
33	Prediction of Tropical Cyclone Genesis from Mesoscale Convective Systems Using Machine Learning. <i>Weather and Forecasting</i> , 2019, 34, 1035-1049.	0.5	26
34	Sensitivity of a Simulated Squall Line During Southern China Monsoon Rainfall Experiment to Parameterization of Microphysics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4197-4220.	1.2	25
35	Temporal evolution of nearâ€surface chlorophyll over cyclonic eddy lifecycles in the southeastern Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6165-6179.	1.0	23
36	Indian Monsoon Lowâ€Pressure Systems Feed Upâ€andâ€Over Moisture Transport to the Southwestern Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,140.	1.2	23

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37	Observational Relationship Between Entrainment Rate and Environmental Relative Humidity and Implications for Convection Parameterization. <i>Geophysical Research Letters</i> , 2018, 45, 13,495.	1.5	23
38	Impacts of pre-existing ocean cyclonic circulation on sea surface chlorophyll concentrations off northeastern Taiwan following episodic typhoon passages. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6482-6497.	1.0	21
39	A single ice approach using varying ice particle properties in global climate model microphysics. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2138-2157.	1.3	21
40	Revisiting the Dynamics of Eyewall Contraction of Tropical Cyclones. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 3229-3245.	0.6	21
41	Tropical Cyclone Cold Wake Size and Its Applications to Power Dissipation and Ocean Heat Uptake Estimates. <i>Geophysical Research Letters</i> , 2019, 46, 10177-10185.	1.5	19
42	Elucidating the Life Cycle of Warm-Season Mesoscale Convective Systems in Eastern China from the Himawari-8 Geostationary Satellite. <i>Remote Sensing</i> , 2020, 12, 2307.	1.8	19
43	Evaluation of intercomparisons of four different types of model simulating TWP-ICE. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 826-837.	1.0	18
44	Contribution of atmospheric moisture transport to winter Arctic warming. <i>International Journal of Climatology</i> , 2019, 39, 2697-2710.	1.5	18
45	Significant Land Contributions to Interannual Predictability of East Asian Summer Monsoon Rainfall. <i>Earth's Future</i> , 2021, 9, e2020EF001762.	2.4	18
46	Impact of Moisture Flux and Freezing Level on Simulated Orographic Precipitation Errors over the Pacific Northwest. <i>Journal of Hydrometeorology</i> , 2013, 14, 140-152.	0.7	15
47	Comparison of various methods of detection of different forms of dengue virus type 2 RNA in cultured cells. <i>Acta Virologica</i> , 1997, 41, 317-24.	0.3	15
48	Regional disparities in warm season rainfall changes over arid eastern-central Asia. <i>Scientific Reports</i> , 2018, 8, 13051.	1.6	14
49	Strengthened Indian summer monsoon brought more rainfall to the western Tibetan Plateau during the early Holocene. <i>Science Bulletin</i> , 2019, 64, 1482-1485.	4.3	14
50	Investigation of ice cloud modeling capabilities for the irregularly shaped Voronoi ice scattering models in climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4809-4825.	1.9	14
51	Connections Between a Late Summer Snowstorm Over the Southwestern Tibetan Plateau and a Concurrent Indian Monsoon Low-Pressure System. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,676.	1.2	13
52	Subtropical High Affects Interdecadal Variability of Tropical Cyclone Genesis in the South China Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6379-6392.	1.2	13
53	How Much Does the Upward Advection of the Supergradient Component of Boundary Layer Wind Contribute to Tropical Cyclone Intensification and Maximum Intensity?. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 2649-2664.	0.6	13
54	Comparison of three ice cloud optical schemes in climate simulations with community atmospheric model version 5. <i>Atmospheric Research</i> , 2018, 204, 37-53.	1.8	12

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55	Alleviated Double ITCZ Problem in the NCAR CESM1: A New Cloud Scheme and the Working Mechanisms. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2318-2332.	1.3	11
56	Automatic tuning of the Community Atmospheric Model (CAM5) by using short-term hindcasts with an improved downhill simplex optimization method. <i>Geoscientific Model Development</i> , 2018, 11, 5189-5201.	1.3	11
57	Evaluation of Cloud Fraction Simulated by Seven SCMs against the ARM Observations at the SGP Site*. <i>Journal of Climate</i> , 2014, 27, 6698-6719.	1.2	10
58	Moisture Sources for Wintertime Intense Precipitation Events Over the Three Snowy Subregions of the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12708-12725.	1.2	10
59	A Source of WRF Simulation Error for the Early Summer Warm Sector Heavy Rainfall Over South China Coast: Land-Sea Thermal Contrast in the Boundary Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	10
60	A Long-Lasting Vortex Rossby Wave-Induced Rainband of Typhoon Longwang (2005). <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1127-1134.	1.7	9
61	A DRP-4DVar-Based Coupled Data Assimilation System With a Simplified Off-Line Localization Technique for Decadal Predictions. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001768.	1.3	9
62	Dependence of Superintensity of Tropical Cyclones on SST in Axisymmetric Numerical Simulations. <i>Monthly Weather Review</i> , 2020, 148, 4767-4781.	0.5	9
63	Humidity variability revealed by a sounding array and its implications for cloud representation in GCMs. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10499-10514.	1.2	8
64	A new DRP-4DVar-based coupled data assimilation system for decadal predictions using a fast online localization technique. <i>Climate Dynamics</i> , 2020, 54, 3541-3559.	1.7	8
65	Declining hailstorm frequency in China during 1961-2015 and its potential influential factors. <i>International Journal of Climatology</i> , 2018, 38, 4116-4126.	1.5	7
66	Footprint of Tropical Mesoscale Convective System Variability on Stratospheric Water Vapor. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086320.	1.5	7
67	Dynamics of the spatiotemporal morphology of Mei-yu fronts: an initial survey. <i>Climate Dynamics</i> , 2021, 56, 2715-2728.	1.7	7
68	A Double-Moment SBU-LIN Cloud Microphysics Scheme and Its Impact on a Squall Line Simulation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002545.	1.3	7
69	Improved Climate Simulation by Using a Double-Plume Convection Scheme in a Global Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	7
70	Monthly variability of Luzon Strait tropical cyclone intensification over the Northern South China Sea in recent decades. <i>Climate Dynamics</i> , 2019, 52, 3631-3642.	1.7	6
71	A Numerical Study on the Formation and Maintenance of a Long-Lived Rainband in Typhoon Longwang (2005). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10401-10426.	1.2	6
72	Madden-Julian Oscillations Seen in the Upper-Troposphere Vorticity Field: Interactions with Rossby Wave Trains. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 1785-1807.	0.6	6

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73	An Extreme Heat Event Induced by Typhoon Lekima (2019) and Its Contributing Factors. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034760.	1.2	6
74	Why does rapid contraction of the radius of maximum wind precede rapid intensification in tropical cyclones?. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	0.6	6
75	Footprint of Tropical Cyclone Cold Wakes on Top-of-atmosphere Radiation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094705.	1.5	6
76	Impacts of Irrigation and Vegetation Growth on Summer Rainfall in the Taklimakan Desert. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 1863-1872.	1.9	5
77	The Impact of SST on the Zonal Variability of the Western Pacific Subtropical High in Boreal Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031720.	1.2	5
78	Decrease of Annually Accumulated Tropical Cyclone-induced Sea Surface Cooling and Diapycnal Mixing in Recent Decades. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5
79	Characteristics and Simulation Biases of Corkscrew Sea Breezes on the East Coast of China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 18-34.	1.2	4
80	A collaborative analysis framework for distributed gridded environmental data. <i>Environmental Modelling and Software</i> , 2019, 111, 324-339.	1.9	4
81	Potential Role of Irreversible Moist Processes in Modulating Tropical Cyclone Surface Wind Structure. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 709-725.	0.6	4
82	Reduced Tropical Cyclone Genesis in the Future as Predicted by a Machine Learning Model. <i>Earth's Future</i> , 2022, 10, .	2.4	4
83	Indirect effect of diabatic heating on Mei-yu frontogenesis. <i>Climate Dynamics</i> , 2022, 59, 851-868.	1.7	4
84	Response of eddy activities to localized diabatic heating in Held-Suarez simulations. <i>Climate Dynamics</i> , 2018, 51, 3421-3434.	1.7	3
85	Impact of Cumulus Microphysics and Entrainment Specification on Tropical Cloud and Radiation in GFDL AM2. <i>Earth Systems and Environment</i> , 2019, 3, 255-266.	3.0	3
86	Effects of Terrain and Landmass Near Fujian Province of China on the Structure and Propagation of a Long-lived Rainband in Typhoon Longwang (2005): A Numerical Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033393.	1.2	3
87	Implementation and evaluation of a double-plume convective parameterization in NCAR CAM5. <i>Journal of Climate</i> , 2021, , 1-51.	1.2	3
88	Narrowing the surface temperature range in CMIP5 simulations over the Arctic. <i>Theoretical and Applied Climatology</i> , 2018, 132, 1073-1088.	1.3	2
89	Is atmospheric convection organised?: information entropy analysis. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2019, 113, 553-573.	0.4	2
90	The impact of atmospheric moisture transport on winter Arctic warming: Radiation versus latent heat release. <i>International Journal of Climatology</i> , 2021, 41, 3982-3993.	1.5	2

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91	Potential Impacts of Aerosol on Diurnal Variation of Precipitation in Autumn Over the Sichuan Basin, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	2
92	Disentangling land model uncertainty via Matrix-based Ensemble Model Inter-comparison Platform (MEMIP). <i>Ecological Processes</i> , 2022, 11, .	1.6	1
93	Wet spells over the core monsoon domain of northern Pakistan during the summer season. <i>International Journal of Climatology</i> , 2021, 41, 1402-1420.	1.5	0
94	A dynamical pathway bridging African biomass burning and Asian summer monsoon. <i>Climate Dynamics</i> , 2021, 57, 1993-2004.	1.7	0
95	Evaluation of a Flexible Single Ice Microphysics and a Gaussian Probability-Density-Function Macrophysics Scheme in a Single Column Model. <i>Atmosphere</i> , 2021, 12, 638.	1.0	0