Myong-In Lee

List of Publications by Year
in descending order

86 papers	3,185 citations	147726 31 h-index	161767 54 g-index
97 all docs	97 docs citations	97 times ranked	2986 citing authors

#	Article	IF	Citations
1	Application of MJO Simulation Diagnostics to Climate Models. Journal of Climate, 2009, 22, 6413-6436.	1.2	331
2	AGCM simulations of intraseasonal variability associated with the Asian summer monsoon. Climate Dynamics, 2003, 21, 423-446.	1.7	209
3	Midweek increase in U.S. summer rain and storm heights suggests air pollution invigorates rainstorms. Journal of Geophysical Research, 2008, 113, .	3.3	189
4	Subseasonal Variability Associated with Asian Summer Monsoon Simulated by 14 IPCC AR4 Coupled GCMs. Journal of Climate, 2008, 21, 4541-4567.	1.2	116
5	The Impacts of Convective Parameterization and Moisture Triggering on AGCM-Simulated Convectively Coupled Equatorial Waves. Journal of Climate, 2008, 21, 883-909.	1.2	111
6	The NAME 2004 Field Campaign and Modeling Strategy. Bulletin of the American Meteorological Society, 2006, 87, 79-94.	1.7	98
7	Influence of cloud-radiation interaction on simulating tropical intraseasonal oscillation with an atmospheric general circulation model. Journal of Geophysical Research, 2001, 106, 14219-14233.	3.3	94
8	An Analysis of the Warm-Season Diurnal Cycle over the Continental United States and Northern Mexico in General Circulation Models. Journal of Hydrometeorology, 2007, 8, 344-366.	0.7	93
9	Why does the MJO detour the Maritime Continent during austral summer?. Geophysical Research Letters, 2017, 44, 2579-2587.	1.5	91
10	Interannual variability of heat waves in South Korea and their connection with largeâ€scale atmospheric circulation patterns. International Journal of Climatology, 2016, 36, 4815-4830.	1.5	87
11	Sensitivity to Horizontal Resolution in the AGCM Simulations of Warm Season Diurnal Cycle of Precipitation over the United States and Northern Mexico. Journal of Climate, 2007, 20, 1862-1881.	1.2	86
12	Impacts of Cumulus Convection Parameterization on Aqua-planet AGCM Simulations of Tropical Intraseasonal Variability. Journal of the Meteorological Society of Japan, 2003, 81, 963-992.	0.7	86
13	Changes in weather and climate extremes over Korea and possible causes: A review. Asia-Pacific Journal of Atmospheric Sciences, 2015, 51, 103-121.	1.3	82
14	Assessing the Skill of an All-Season Statistical Forecast Model for the Maddenâ€“Julian Oscillation. Monthly Weather Review, 2008, 136, 1940-1956.	0.5	74
15	Role of convection triggers in the simulation of the diurnal cycle of precipitation over the United States Great Plains in a general circulation model. Journal of Geophysical Research, 2008, 113, .	3.3	65
16	The Aqua-Planet Experiment (APE): CONTROL SST Simulation. Journal of the Meteorological Society of Japan, 2013, 91A, 17-56.	0.7	64
17	Prediction of the Arctic Oscillation in boreal winter by dynamical seasonal forecasting systems. Geophysical Research Letters, 2014, 41, 3577-3585.	1.5	57
18	Spatiotemporal variations of air pollutants (O₃,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 72 Td and Physics, 2015, 15, 10857-10885.	1.9	53

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19	Structure of AGCM-Simulated Convectively Coupled Kelvin Waves and Sensitivity to Convective Parameterization. Journals of the Atmospheric Sciences, 2011, 68, 26-45.	0.6	48
20	Impact of soil moisture initialization on boreal summer subseasonal forecasts: mid-latitude surface air temperature and heat wave events. Climate Dynamics, 2019, 52, 1695-1709.	1.7	47
21	Sensitivity of Tropical Cyclones to Parameterized Convection in the NASA GEOS-5 Model. Journal of Climate, 2015, 28, 551-573.	1.2	45
22	Machine Learning Approaches for Detecting Tropical Cyclone Formation Using Satellite Data. Remote Sensing, 2019, 11, 1195.	1.8	45
23	Detection of deterministic and probabilistic convection initiation using Himawari-8 Advanced Himawari Imager data. Atmospheric Measurement Techniques, 2017, 10, 1859-1874.	1.2	44
24	Prediction of Drought on Pentad Scale Using Remote Sensing Data and MJO Index through Random Forest over East Asia. Remote Sensing, 2018, 10, 1811.	1.8	43
25	Assimilation of SMAP and ASCAT soil moisture retrievals into the JULES land surface model using the Local Ensemble Transform Kalman Filter. Remote Sensing of Environment, 2021, 253, 112222.	4.6	43
26	Detection of Convective Initiation Using Meteorological Imager Onboard Communication, Ocean, and Meteorological Satellite Based on Machine Learning Approaches. Remote Sensing, 2015, 7, 9184-9204.	1.8	39
27	Detection of tropical cyclone genesis via quantitative satellite ocean surface wind pattern and intensity analyses using decision trees. Remote Sensing of Environment, 2016, 183, 205-214.	4.6	39
28	Decadal Changes in the Interannual Variability of Heat Waves in East Asia Caused by Atmospheric Teleconnection Changes. Journal of Climate, 2020, 33, 1505-1522.	1.2	37
29	The Aqua-Planet Experiment (APE): Response to Changed Meridional SST Profile. Journal of the Meteorological Society of Japan, 2013, 91A, 57-89.	0.7	34
30	Impacts of Synoptic and Local Factors on Heat Wave Events Over Southeastern Region of Korea in 2015. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,081.	1.2	34
31	North American Monsoon and Convectively Coupled Equatorial Waves Simulated by IPCC AR4 Coupled GCMs. Journal of Climate, 2008, 21, 2919-2937.	1.2	33
32	Simulations of the 2004 North American Monsoon: NAMAP2. Journal of Climate, 2009, 22, 6716-6740.	1.2	33
33	Recent changes in heatwave characteristics over Korea. Climate Dynamics, 2020, 55, 1685-1696.	1.7	32
34	Korea Institute of Ocean Science and Technology Earth System Model and Its Simulation Characteristics. Ocean Science Journal, 2021, 56, 18-45.	0.6	28
35	A Moist Benchmark Calculation for Atmospheric General Circulation Models. Journal of Climate, 2008, 21, 4934-4954.	1.2	26
36	Diurnal cycle of precipitation in the NASA Seasonal to Interannual Prediction Project atmospheric general circulation model. Journal of Geophysical Research, 2007, 112, .	3.3	25

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37	A Physical Basis for the Probabilistic Prediction of the Accumulated Tropical Cyclone Kinetic Energy in the Western North Pacific. Journal of Climate, 2013, 26, 7981-7991.	1.2	24
38	Representation of tropical subseasonal variability of precipitation in global reanalyses. Climate Dynamics, 2014, 43, 517-534.	1.7	23
39	The MODIS ice surface temperature product as an indicator of sea ice minimum over the Arctic Ocean. Remote Sensing of Environment, 2014, 152, 99-108.	4.6	22
40	Impacts of urbanization on atmospheric circulation and aerosol transport in a coastal environment simulated by the WRF-Chem coupled with urban canopy model. Atmospheric Environment, 2021, 249, 118253.	1.9	22
41	Simulation of the intraseasonal variability over the Eastern Pacific ITCZ in climate models. Climate Dynamics, 2012, 39, 617-636.	1.7	19
42	Tenâ€year climatology of summertime diurnal rainfall rate over the conterminous U.S.. Geophysical Research Letters, 2010, 37, .	1.5	18
43	Accidental benzene release risk assessment in an urban area using an atmospheric dispersion model. Atmospheric Environment, 2016, 144, 146-159.	1.9	18
44	Dynamicalâ€“statistical seasonal prediction for western North Pacific typhoons based on APCC multi-models. Climate Dynamics, 2017, 48, 71-88.	1.7	18
45	Mechanisms of diurnal precipitation over the US Great Plains: a cloud resolving model perspective. Climate Dynamics, 2010, 34, 419-437.	1.7	17
46	Satellite radiance data assimilation for binary tropical cyclone cases over the western <scp>N</scp>orth <scp>P</scp>acific. Journal of Advances in Modeling Earth Systems, 2017, 9, 832-853.	1.3	17
47	Detection of Tropical Overshooting Cloud Tops Using Himawari-8 Imagery. Remote Sensing, 2017, 9, 685.	1.8	17
48	Relationship between circum-Arctic atmospheric wave patterns and large-scale wildfires in boreal summer. Environmental Research Letters, 2021, 16, 064009.	2.2	17
49	Effects of cloudâ€radiative heating on atmospheric general circulation model (AGCM) simulations of convectively coupled equatorial waves. Journal of Geophysical Research, 2007, 112, .	3.3	16
50	Spatial Variability and Long-Term Trend in the Occurrence Frequency of Heatwave and Tropical Night in Korea. Asia-Pacific Journal of Atmospheric Sciences, 2019, 55, 101-114.	1.3	16
51	Investigation of the 2016 Eurasia heat wave as an event of the recent warming. Environmental Research Letters, 2020, 15, 114018.	2.2	16
52	Intercomparison of Terrestrial Carbon Fluxes and Carbon Use Efficiency Simulated by CMIP5 Earth System Models. Asia-Pacific Journal of Atmospheric Sciences, 2018, 54, 145-163.	1.3	15
53	Improved representation of the diurnal variation of warm season precipitation by an atmospheric general circulation model at a 10Âkm horizontal resolution. Climate Dynamics, 2019, 53, 6523-6542.	1.7	15
54	Diurnal Characteristics of Rainfall over the Contiguous United States and Northern Mexico in the Dynamically Downscaled Reanalysis Dataset (US10). Journal of Hydrometeorology, 2012, 13, 1142-1148.	0.7	14

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55	Tropical Cyclone Mekkhalaâ€™s (2008) Formation over the South China Sea: Mesoscale, Synoptic-Scale, and Large-Scale Contributions. Monthly Weather Review, 2015, 143, 88-110.	0.5	14
56	Population ageing determines changes in heat vulnerability to future warming. Environmental Research Letters, 2020, 15, 114043.	2.2	14
57	Note on the weekly cycle of storm heights over the southeast United States. Journal of Geophysical Research, 2009, 114, .	3.3	13
58	Aerosol data assimilation and forecast using Geostationary Ocean Color Imager aerosol optical depth and in-situ observations during the KORUS-AQ observing period. GIScience and Remote Sensing, 2021, 58, 1175-1194.	2.4	11
59	El NiÃ±o and Indian summer monsoon rainfall relationship in retrospective seasonal prediction runs: experiments with coupled global climate models and MMEs. Meteorology and Atmospheric Physics, 2016, 128, 97-115.	0.9	10
60	Air Quality Forecasts Improved by Combining Data Assimilation and Machine Learning With Satellite AOD. Geophysical Research Letters, 2022, 49, .	1.5	10
61	Decadal changes in the leading patterns of sea level pressure in the Arctic and their impacts on the sea ice variability in boreal summer. Cryosphere, 2019, 13, 3007-3021.	1.5	9
62	ENSO influence on the dynamical seasonal prediction of the East Asian Winter Monsoon. Climate Dynamics, 2019, 53, 7479-7495.	1.7	9
63	Interannual variation of the East Asia Jet Stream and its impact on the horizontal distribution of aerosol in boreal spring. Atmospheric Environment, 2020, 223, 117296.	1.9	9
64	Comparison of Regional Climate Model Performances for Different Types of Heat Waves over South Korea. Journal of Climate, 2021, 34, 2157-2174.	1.2	9
65	Improvement of Soil Respiration Parameterization in a Dynamic Global Vegetation Model and Its Impact on the Simulation of Terrestrial Carbon Fluxes. Journal of Climate, 2019, 32, 127-143.	1.2	8
66	Characteristics of Diurnal and Seasonal Cycles in Global Monsoon Systems. Journal of the Meteorological Society of Japan, 2007, 85A, 403-416.	0.7	8
67	The modulation of tropical storm activity in the Western North Pacific by the Maddenâ€“Julian Oscillation in <scp>GEOS</scp>â€5 <scp>AGCM</scp> experiments. Atmospheric Science Letters, 2014, 15, 335-341.	0.8	7
68	Validation of the experimental hindcasts produced by the GloSea4 seasonal prediction system. Asia-Pacific Journal of Atmospheric Sciences, 2014, 50, 307-326.	1.3	7
69	Spatial and diurnal variations of storm heights in the East Asia summer monsoon: storm height regimes and large-scale diurnal modulation. Climate Dynamics, 2016, 46, 745-763.	1.7	7
70	Increase in the potential predictability of the Arctic Oscillation via intensified teleconnection with ENSO after the mid-1990s. Climate Dynamics, 2017, 49, 2147-2160.	1.7	5
71	Interâ€annual variation of tropical cyclones simulated by GEOSâ€5 AGCM with modified convection scheme. International Journal of Climatology, 2019, 39, 4041-4057.	1.5	5
72	Numerical Modeling for the Accidental Dispersion of Hazardous Air Pollutants in the Urban Metropolitan Area. Atmosphere, 2020, 11, 477.	1.0	5

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73	Land-Based Convection Effects on Formation of Tropical Cyclone Mekkhala (2008). Monthly Weather Review, 2017, 145, 1315-1337.	0.5	4
74	Representation of Tropical Cyclones by the Modern-Era Retrospective Analysis for Research and Applications Version 2. Asia-Pacific Journal of Atmospheric Sciences, 2021, 57, 35-49.	1.3	4
75	Representation of tropical storms in the northwestern pacific by the Modern-Era Retrospective analysis for research and applications. Asia-Pacific Journal of Atmospheric Sciences, 2011, 47, 245-253.	1.3	3
76	The Origin of Systematic Forecast Errors of Extreme 2020 East Asian Summer Monsoon Rainfall in GloSea5. Geophysical Research Letters, 2021, 48, e2021GL094179.	1.5	3
77	Development of <scp>model output statistics</scp> based on <scp>the least absolute shrinkage and selection operator</scp> regression for forecasting nextâ€day maximum temperature in South Korea. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1929-1944.	1.0	3
78	CO2 concentration and its spatiotemporal variation in the troposphere using multi-sensor satellite data, carbon tracker, and aircraft observations. GIScience and Remote Sensing, 2017, 54, 592-613.	2.4	2
79	Representation of Boreal Winter MJO and Its Teleconnection in a Dynamical Ensemble Seasonal Prediction System. Journal of Climate, 2018, 31, 8803-8818.	1.2	2
80	Effects of surface vegetation on the intensity of East Asian summer monsoon as revealed by observation and model experiments. International Journal of Climatology, 2020, 40, 3634-3648.	1.5	2
81	Importance of ocean initial conditions of late autumn on winter seasonal prediction skill in atmosphereâ€“landâ€“oceanâ€“sea ice coupled forecast system. Climate Dynamics, 2022, 58, 3427-3440.	1.7	2
82	An Observing System Simulation Experiment Framework for Air Quality Forecasts in Northeast Asia: A Case Study Utilizing Virtual Geostationary Environment Monitoring Spectrometer and Surface Monitored Aerosol Data. Remote Sensing, 2022, 14, 389.	1.8	2
83	Seasonal Dependence of Aerosol Data Assimilation and Forecasting Using Satellite and Ground-Based Observations. Remote Sensing, 2022, 14, 2123.	1.8	2
84	Examinations of cloud variability and future change in the coupled model intercomparison project phase 3 simulations. Asia-Pacific Journal of Atmospheric Sciences, 2014, 50, 481-495.	1.3	1
85	Cloud radiative effects and changes simulated by the Coupled Model Intercomparison Project Phase 5 models. Advances in Atmospheric Sciences, 2017, 34, 859-876.	1.9	1
86	The spatiotemporal variations of CO2 in the troposphere using multi-sensor satellite data and aircraft observation. , 2015, , .		0