Myong-In Lee

List of Publications by Citations

85 papers	2,464 citations	26 h-index	48 g-index
97 ext. papers	2,778 ext. citations	4.3 avg, IF	4.9 L-index

#	Paper	IF	Citations
85	Application of MJO Simulation Diagnostics to Climate Models. *Journal of Climate*, **2009**, 22, 6413-6436	4.4	303
84	AGCM simulations of intraseasonal variability associated with the Asian summer monsoon. *Climate Dynamics*, **2003**, 21, 423-446	4.2	189
83	Midweek increase in U.S. summer rain and storm heights suggests air pollution invigorates rainstorms. *Journal of Geophysical Research*, **2008**, 113,		163
82	Subseasonal Variability Associated with Asian Summer Monsoon Simulated by 14 IPCC AR4 Coupled GCMs. *Journal of Climate*, **2008**, 21, 4541-4567	4.4	105
81	The Impacts of Convective Parameterization and Moisture Triggering on AGCM-Simulated Convectively Coupled Equatorial Waves. *Journal of Climate*, **2008**, 21, 883-909	4.4	104
80	Influence of cloud-radiation interaction on simulating tropical intraseasonal oscillation with an atmospheric general circulation model. *Journal of Geophysical Research*, **2001**, 106, 14219-14233		91
79	The NAME 2004 Field Campaign and Modeling Strategy. *Bulletin of the American Meteorological Society*, **2006**, 87, 79-94	6.1	90
78	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	4.4	83
77	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	2.8	79
76	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	3.7	77
75	Assessing the Skill of an All-Season Statistical Forecast Model for the Madden□ulian Oscillation. *Monthly Weather Review*, **2008**, 136, 1940-1956	2.4	69
74	Why does the MJO detour the Maritime Continent during austral summer?. *Geophysical Research Letters*, **2017**, 44, 2579-2587	4.9	57
73	Interannual variability of heat waves in South Korea and their connection with large-scale atmospheric circulation patterns. *International Journal of Climatology*, **2016**, 36, 4815-4830	3.5	56
72	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,		55
71	Changes in weather and climate extremes over Korea and possible causes: A review. *Asia-Pacific Journal of Atmospheric Sciences*, **2015**, 51, 103-121	2.1	54
70	The Aqua-Planet Experiment (APE): CONTROL SST Simulation. *Journal of the Meteorological Society of Japan*, **2013**, 91A, 17-56	2.8	53
69	Prediction of the Arctic Oscillation in boreal winter by dynamical seasonal forecasting systems. *Geophysical Research Letters*, **2014**, 41, 3577-3585	4.9	49

68	Spatiotemporal variations of air pollutants (O₃, NO₂, SO₂, CO, PM₁₀, and VOCs) with land-use types. *Atmospheric Chemistry and Physics*, **2015**, 15, 10857-10885	6.8	41
67	Sensitivity of Tropical Cyclones to Parameterized Convection in the NASA GEOS-5 Model. *Journal of Climate*, **2015**, 28, 551-573	4.4	37
66	Structure of AGCM-Simulated Convectively Coupled Kelvin Waves and Sensitivity to Convective Parameterization. *Journals of the Atmospheric Sciences*, **2011**, 68, 26-45	2.1	37
65	Detection of deterministic and probabilistic convection initiation using Himawari-8 Advanced Himawari Imager data. *Atmospheric Measurement Techniques*, **2017**, 10, 1859-1874	4	31
64	North American Monsoon and Convectively Coupled Equatorial Waves Simulated by IPCC AR4 Coupled GCMs. *Journal of Climate*, **2008**, 21, 2919-2937	4.4	31
63	Detection of Convective Initiation Using Meteorological Imager Onboard Communication, Ocean, and Meteorological Satellite Based on Machine Learning Approaches. *Remote Sensing*, **2015**, 7, 9184-9204	5	30
62	Simulations of the 2004 North American Monsoon: NAMAP2. *Journal of Climate*, **2009**, 22, 6716-6740	4.4	30
61	Prediction of Drought on Pentad Scale Using Remote Sensing Data and MJO Index through Random Forest over East Asia. *Remote Sensing*, **2018**, 10, 1811	5	27
60	The Aqua-Planet Experiment (APE): Response to Changed Meridional SST Profile. *Journal of the Meteorological Society of Japan*, **2013**, 91A, 57-89	2.8	26
59	A Moist Benchmark Calculation for Atmospheric General Circulation Models. *Journal of Climate*, **2008**, 21, 4934-4954	4.4	25
58	Diurnal cycle of precipitation in the NASA Seasonal to Interannual Prediction Project atmospheric general circulation model. *Journal of Geophysical Research*, **2007**, 112,		25
57	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	13.2	24
56	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	4.2	21
55	Representation of tropical subseasonal variability of precipitation in global reanalyses. *Climate Dynamics*, **2014**, 43, 517-534	4.2	21
54	Simulation of the intraseasonal variability over the Eastern Pacific ITCZ in climate models. *Climate Dynamics*, **2012**, 39, 617-636	4.2	19
53	Ten-year climatology of summertime diurnal rainfall rate over the conterminous U.S.. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	17
52	Mechanisms of diurnal precipitation over the US Great Plains: a cloud resolving model perspective. *Climate Dynamics*, **2010**, 34, 419-437	4.2	17
51	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, 12,081-12,096	4.4	17

50	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	4.4	16
49	Effects of cloud-radiative heating on atmospheric general circulation model (AGCM) simulations of convectively coupled equatorial waves. *Journal of Geophysical Research*, **2007**, 112,		16
48	Machine Learning Approaches for Detecting Tropical Cyclone Formation Using Satellite Data. *Remote Sensing*, **2019**, 11, 1195	5	15
47	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	13.2	15
46	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	13.2	14
45	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	3.7	13
44	Note on the weekly cycle of storm heights over the southeast United States. *Journal of Geophysical Research*, **2009**, 114,		13
43	Decadal Changes in the Interannual Variability of Heat Waves in East Asia Caused by Atmospheric Teleconnection Changes. *Journal of Climate*, **2020**, 33, 1505-1522	4.4	13
42	Dynamical–statistical seasonal prediction for western North Pacific typhoons based on APCC multi-models. *Climate Dynamics*, **2017**, 48, 71-88	4.2	12
41	Accidental benzene release risk assessment in an urban area using an atmospheric dispersion model. *Atmospheric Environment*, **2016**, 144, 146-159	5.3	12
40	Tropical Cyclone Mekkhala (2008) Formation over the South China Sea: Mesoscale, Synoptic-Scale, and Large-Scale Contributions. *Monthly Weather Review*, **2015**, 143, 88-110	2.4	11
39	Detection of Tropical Overshooting Cloud Tops Using Himawari-8 Imagery. *Remote Sensing*, **2017**, 9, 685	5	11
38	Satellite radiance data assimilation for binary tropical cyclone cases over the western North Pacific. *Journal of Advances in Modeling Earth Systems*, **2017**, 9, 832-853	7.1	10
37	Recent changes in heatwave characteristics over Korea. *Climate Dynamics*, **2020**, 55, 1685-1696	4.2	9
36	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	2.1	9
35	Characteristics of Diurnal and Seasonal Cycles in Global Monsoon Systems. *Journal of the Meteorological Society of Japan*, **2007**, 85A, 403-416	2.8	8
34	Validation of the experimental hindcasts produced by the GloSea4 seasonal prediction system. *Asia-Pacific Journal of Atmospheric Sciences*, **2014**, 50, 307-326	2.1	7
33	Improved representation of the diurnal variation of warm season precipitation by an atmospheric general circulation model at a 10 km horizontal resolution. *Climate Dynamics*, **2019**, 53, 6523-6542	4.2	6

32	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	2.1	6
31	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	4.2	6
30	The modulation of tropical storm activity in the Western North Pacific by the Madden□Julian Oscillation in GEOS-5 AGCM experiments. *Atmospheric Science Letters*, **2014**, 15, n/a-n/a	2.4	6
29	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	5.3	6
28	ENSO influence on the dynamical seasonal prediction of the East Asian Winter Monsoon. *Climate Dynamics*, **2019**, 53, 7479-7495	4.2	6
27	Increase in the potential predictability of the Arctic Oscillation via intensified teleconnection with ENSO after the mid-1990s. *Climate Dynamics*, **2017**, 49, 2147-2160	4.2	5
26	Interannual Variation of the East Asia Jet Stream and Its Impact on the Horizontal Distribution of Aerosol in Boreal Spring. *Atmospheric Environment*, **2020**, 223, 117296-117296	5.3	5
25	Investigation of the 2016 Eurasia heat wave as an event of the recent warming. *Environmental Research Letters*, **2020**, 15, 114018	6.2	5
24	Korea Institute of Ocean Science and Technology Earth System Model and Its Simulation Characteristics. *Ocean Science Journal*, **2021**, 56, 18-45	1.1	5
23	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*,1-20	4.8	5
22	Relationship between circum-Arctic atmospheric wave patterns and large-scale wildfires in boreal summer. *Environmental Research Letters*, **2021**, 16, 064009	6.2	4
21	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	4.4	4
20	Numerical Modeling for the Accidental Dispersion of Hazardous Air Pollutants in the Urban Metropolitan Area. *Atmosphere*, **2020**, 11, 477	2.7	3
19	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	2.1	3
18	Population ageing determines changes in heat vulnerability to future warming. *Environmental Research Letters*, **2020**, 15, 114043	6.2	3
17	Comparison of Regional Climate Model Performances for Different Types of Heat Waves over South Korea. *Journal of Climate*, **2021**, 34, 2157-2174	4.4	3
16	El Niꟷ 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	2	3
15	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	5.5	3

14	Land-Based Convection Effects on Formation of Tropical Cyclone Mekkhala (2008). *Monthly Weather Review*, **2017**, 145, 1315-1337	2.4	2
13	Spatiotemporal variations of air pollutants (O₃, NO₂, SO₂, CO, PM₁₀, and VOCs) with land-use types		2
12	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	3.5	2
11	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	2.1	2
10	Representation of Boreal Winter MJO and Its Teleconnection in a Dynamical Ensemble Seasonal Prediction System. *Journal of Climate*, **2018**, 31, 8803-8818	4.4	2
9	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	4.8	1
8	Inter-annual variation of tropical cyclones simulated by GEOS-5 AGCM with modified convection scheme. *International Journal of Climatology*, **2019**, 39, 4041-4057	3.5	1
7	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	2.1	1
6	Cloud radiative effects and changes simulated by the Coupled Model Intercomparison Project Phase 5 models. *Advances in Atmospheric Sciences*, **2017**, 34, 859-876	2.9	1
5	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	5	1
4	The Origin of Systematic Forecast Errors of Extreme 2020 East Asian Summer Monsoon Rainfall in GloSea5. *Geophysical Research Letters*, **2021**, 48, e2021GL094179	4.9	1
3	Air Quality Forecasts Improved by Combining Data Assimilation and Machine Learning With Satellite AOD. *Geophysical Research Letters*, **2022**, 49,	4.9	1
2	Seasonal Dependence of Aerosol Data Assimilation and Forecasting Using Satellite and Ground-Based Observations. *Remote Sensing*, **2022**, 14, 2123	5	0
1	Importance of ocean initial conditions of late autumn on winter seasonal prediction skill in atmosphere–land–ocean–sea ice coupled forecast system. *Climate Dynamics*,1	4.2	