

Myong-In Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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. <i>Remote Sensing</i> , 2022 , 14, 389	5	1
84	Air Quality Forecasts Improved by Combining Data Assimilation and Machine Learning With Satellite AOD. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
83	Seasonal Dependence of Aerosol Data Assimilation and Forecasting Using Satellite and Ground-Based Observations. <i>Remote Sensing</i> , 2022 , 14, 2123	5	0
82	Impacts of urbanization on atmospheric circulation and aerosol transport in a coastal environment simulated by the WRF-Chem coupled with urban canopy model. <i>Atmospheric Environment</i> , 2021 , 249, 118253	5.3	6
81	Korea Institute of Ocean Science and Technology Earth System Model and Its Simulation Characteristics. <i>Ocean Science Journal</i> , 2021 , 56, 18-45	1.1	5
80	Comparison of Regional Climate Model Performances for Different Types of Heat Waves over South Korea. <i>Journal of Climate</i> , 2021 , 34, 2157-2174	4.4	3
79	Relationship between circum-Arctic atmospheric wave patterns and large-scale wildfires in boreal summer. <i>Environmental Research Letters</i> , 2021 , 16, 064009	6.2	4
78	Representation of Tropical Cyclones by the Modern-Era Retrospective Analysis for Research and Applications Version 2. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2021 , 57, 35-49	2.1	2
77	Assimilation of SMAP and ASCAT soil moisture retrievals into the JULES land surface model using the Local Ensemble Transform Kalman Filter. <i>Remote Sensing of Environment</i> , 2021 , 253, 112222	13.2	14
76	The Origin of Systematic Forecast Errors of Extreme 2020 East Asian Summer Monsoon Rainfall in GloSea5. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094179	4.9	1
75	Numerical Modeling for the Accidental Dispersion of Hazardous Air Pollutants in the Urban Metropolitan Area. <i>Atmosphere</i> , 2020 , 11, 477	2.7	3
74	Interannual Variation of the East Asia Jet Stream and Its Impact on the Horizontal Distribution of Aerosol in Boreal Spring. <i>Atmospheric Environment</i> , 2020 , 223, 117296-117296	5.3	5
73	Decadal Changes in the Interannual Variability of Heat Waves in East Asia Caused by Atmospheric Teleconnection Changes. <i>Journal of Climate</i> , 2020 , 33, 1505-1522	4.4	13
72	Population ageing determines changes in heat vulnerability to future warming. <i>Environmental Research Letters</i> , 2020 , 15, 114043	6.2	3
71	Investigation of the 2016 Eurasia heat wave as an event of the recent warming. <i>Environmental Research Letters</i> , 2020 , 15, 114018	6.2	5
70	Effects of surface vegetation on the intensity of East Asian summer monsoon as revealed by observation and model experiments. <i>International Journal of Climatology</i> , 2020 , 40, 3634-3648	3.5	2
69	Recent changes in heatwave characteristics over Korea. <i>Climate Dynamics</i> , 2020 , 55, 1685-1696	4.2	9

68	Improved representation of the diurnal variation of warm season precipitation by an atmospheric general circulation model at a 10 km horizontal resolution. <i>Climate Dynamics</i> , 2019 , 53, 6523-6542	4.2	6
67	Machine Learning Approaches for Detecting Tropical Cyclone Formation Using Satellite Data. <i>Remote Sensing</i> , 2019 , 11, 1195	5	15
66	Inter-annual variation of tropical cyclones simulated by GEOS-5 AGCM with modified convection scheme. <i>International Journal of Climatology</i> , 2019 , 39, 4041-4057	3.5	1
65	Spatial Variability and Long-Term Trend in the Occurrence Frequency of Heatwave and Tropical Night in Korea. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2019 , 55, 101-114	2.1	6
64	Impact of soil moisture initialization on boreal summer subseasonal forecasts: mid-latitude surface air temperature and heat wave events. <i>Climate Dynamics</i> , 2019 , 52, 1695-1709	4.2	21
63	Decadal changes in the leading patterns of sea level pressure in the Arctic and their impacts on the sea ice variability in boreal summer. <i>Cryosphere</i> , 2019 , 13, 3007-3021	5.5	3
62	Improvement of Soil Respiration Parameterization in a Dynamic Global Vegetation Model and Its Impact on the Simulation of Terrestrial Carbon Fluxes. <i>Journal of Climate</i> , 2019 , 32, 127-143	4.4	4
61	ENSO influence on the dynamical seasonal prediction of the East Asian Winter Monsoon. <i>Climate Dynamics</i> , 2019 , 53, 7479-7495	4.2	6
60	Prediction of Drought on Pentad Scale Using Remote Sensing Data and MJO Index through Random Forest over East Asia. <i>Remote Sensing</i> , 2018 , 10, 1811	5	27
59	Intercomparison of Terrestrial Carbon Fluxes and Carbon Use Efficiency Simulated by CMIP5 Earth System Models. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2018 , 54, 145-163	2.1	9
58	Representation of Boreal Winter MJO and Its Teleconnection in a Dynamical Ensemble Seasonal Prediction System. <i>Journal of Climate</i> , 2018 , 31, 8803-8818	4.4	2
57	Impacts of Synoptic and Local Factors on Heat Wave Events Over Southeastern Region of Korea in 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,081-12,096	4.4	17
56	Dynamical-statistical seasonal prediction for western North Pacific typhoons based on APCC multi-models. <i>Climate Dynamics</i> , 2017 , 48, 71-88	4.2	12
55	Land-Based Convection Effects on Formation of Tropical Cyclone Mekkhala (2008). <i>Monthly Weather Review</i> , 2017 , 145, 1315-1337	2.4	2
54	CO2 concentration and its spatiotemporal variation in the troposphere using multi-sensor satellite data, carbon tracker, and aircraft observations. <i>GIScience and Remote Sensing</i> , 2017 , 54, 592-613	4.8	1
53	Satellite radiance data assimilation for binary tropical cyclone cases over the western North Pacific. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 832-853	7.1	10
52	Why does the MJO detour the Maritime Continent during austral summer?. <i>Geophysical Research Letters</i> , 2017 , 44, 2579-2587	4.9	57
51	Increase in the potential predictability of the Arctic Oscillation via intensified teleconnection with ENSO after the mid-1990s. <i>Climate Dynamics</i> , 2017 , 49, 2147-2160	4.2	5

50	Cloud radiative effects and changes simulated by the Coupled Model Intercomparison Project Phase 5 models. <i>Advances in Atmospheric Sciences</i> , 2017 , 34, 859-876	2.9	1
49	Detection of deterministic and probabilistic convection initiation using Himawari-8 Advanced Himawari Imager data. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1859-1874	4	31
48	Detection of Tropical Overshooting Cloud Tops Using Himawari-8 Imagery. <i>Remote Sensing</i> , 2017 , 9, 6855		11
47	Spatial and diurnal variations of storm heights in the East Asia summer monsoon: storm height regimes and large-scale diurnal modulation. <i>Climate Dynamics</i> , 2016 , 46, 745-763	4.2	6
46	Interannual variability of heat waves in South Korea and their connection with large-scale atmospheric circulation patterns. <i>International Journal of Climatology</i> , 2016 , 36, 4815-4830	3.5	56
45	El Niño and Indian summer monsoon rainfall relationship in retrospective seasonal prediction runs: experiments with coupled global climate models and MMEs. <i>Meteorology and Atmospheric Physics</i> , 2016 , 128, 97-115	2	3
44	Accidental benzene release risk assessment in an urban area using an atmospheric dispersion model. <i>Atmospheric Environment</i> , 2016 , 144, 146-159	5.3	12
43	Detection of tropical cyclone genesis via quantitative satellite ocean surface wind pattern and intensity analyses using decision trees. <i>Remote Sensing of Environment</i> , 2016 , 183, 205-214	13.2	24
42	Changes in weather and climate extremes over Korea and possible causes: A review. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2015 , 51, 103-121	2.1	54
41	Tropical Cyclone Mekkhala᳚ (2008) Formation over the South China Sea: Mesoscale, Synoptic-Scale, and Large-Scale Contributions. <i>Monthly Weather Review</i> , 2015 , 143, 88-110	2.4	11
40	Spatiotemporal variations of air pollutants (O ₃ , NO ₂ , SO ₂ , CO, PM ₁₀ , and VOCs) with land-use types. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10857-10885	6.8	41
39	Detection of Convective Initiation Using Meteorological Imager Onboard Communication, Ocean, and Meteorological Satellite Based on Machine Learning Approaches. <i>Remote Sensing</i> , 2015 , 7, 9184-9204	5	30
38	Sensitivity of Tropical Cyclones to Parameterized Convection in the NASA GEOS-5 Model. <i>Journal of Climate</i> , 2015 , 28, 551-573	4.4	37
37	Examinations of cloud variability and future change in the coupled model intercomparison project phase 3 simulations. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2014 , 50, 481-495	2.1	1
36	Prediction of the Arctic Oscillation in boreal winter by dynamical seasonal forecasting systems. <i>Geophysical Research Letters</i> , 2014 , 41, 3577-3585	4.9	49
35	The MODIS ice surface temperature product as an indicator of sea ice minimum over the Arctic Ocean. <i>Remote Sensing of Environment</i> , 2014 , 152, 99-108	13.2	15
34	The modulation of tropical storm activity in the Western North Pacific by the Madden-Julian Oscillation in GEOS-5 AGCM experiments. <i>Atmospheric Science Letters</i> , 2014 , 15, n/a-n/a	2.4	6
33	Representation of tropical subseasonal variability of precipitation in global reanalyses. <i>Climate Dynamics</i> , 2014 , 43, 517-534	4.2	21

32	Validation of the experimental hindcasts produced by the GloSea4 seasonal prediction system. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2014 , 50, 307-326	2.1	7
31	A Physical Basis for the Probabilistic Prediction of the Accumulated Tropical Cyclone Kinetic Energy in the Western North Pacific. <i>Journal of Climate</i> , 2013 , 26, 7981-7991	4.4	16
30	The Aqua-Planet Experiment (APE): Response to Changed Meridional SST Profile. <i>Journal of the Meteorological Society of Japan</i> , 2013 , 91A, 57-89	2.8	26
29	The Aqua-Planet Experiment (APE): CONTROL SST Simulation. <i>Journal of the Meteorological Society of Japan</i> , 2013 , 91A, 17-56	2.8	53
28	Simulation of the intraseasonal variability over the Eastern Pacific ITCZ in climate models. <i>Climate Dynamics</i> , 2012 , 39, 617-636	4.2	19
27	Diurnal Characteristics of Rainfall over the Contiguous United States and Northern Mexico in the Dynamically Downscaled Reanalysis Dataset (US10). <i>Journal of Hydrometeorology</i> , 2012 , 13, 1142-1148	3.7	13
26	Representation of tropical storms in the northwestern pacific by the Modern-Era Retrospective analysis for research and applications. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2011 , 47, 245-253	2.1	3
25	Structure of AGCM-Simulated Convectively Coupled Kelvin Waves and Sensitivity to Convective Parameterization. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 26-45	2.1	37
24	Ten-year climatology of summertime diurnal rainfall rate over the conterminous U.S.. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	17
23	Mechanisms of diurnal precipitation over the US Great Plains: a cloud resolving model perspective. <i>Climate Dynamics</i> , 2010 , 34, 419-437	4.2	17
22	Application of MJO Simulation Diagnostics to Climate Models. <i>Journal of Climate</i> , 2009 , 22, 6413-6436	4.4	303
21	Simulations of the 2004 North American Monsoon: NAMAP2. <i>Journal of Climate</i> , 2009 , 22, 6716-6740	4.4	30
20	Note on the weekly cycle of storm heights over the southeast United States. <i>Journal of Geophysical Research</i> , 2009 , 114,		13
19	Midweek increase in U.S. summer rain and storm heights suggests air pollution invigorates rainstorms. <i>Journal of Geophysical Research</i> , 2008 , 113,		163
18	Role of convection triggers in the simulation of the diurnal cycle of precipitation over the United States Great Plains in a general circulation model. <i>Journal of Geophysical Research</i> , 2008 , 113,		55
17	The Impacts of Convective Parameterization and Moisture Triggering on AGCM-Simulated Convectively Coupled Equatorial Waves. <i>Journal of Climate</i> , 2008 , 21, 883-909	4.4	104
16	A Moist Benchmark Calculation for Atmospheric General Circulation Models. <i>Journal of Climate</i> , 2008 , 21, 4934-4954	4.4	25
15	Assessing the Skill of an All-Season Statistical Forecast Model for the Madden-Julian Oscillation. <i>Monthly Weather Review</i> , 2008 , 136, 1940-1956	2.4	69

14	North American Monsoon and Convectively Coupled Equatorial Waves Simulated by IPCC AR4 Coupled GCMs. <i>Journal of Climate</i> , 2008 , 21, 2919-2937	4.4	31
13	Subseasonal Variability Associated with Asian Summer Monsoon Simulated by 14 IPCC AR4 Coupled GCMs. <i>Journal of Climate</i> , 2008 , 21, 4541-4567	4.4	105
12	Effects of cloud-radiative heating on atmospheric general circulation model (AGCM) simulations of convectively coupled equatorial waves. <i>Journal of Geophysical Research</i> , 2007 , 112,		16
11	Diurnal cycle of precipitation in the NASA Seasonal to Interannual Prediction Project atmospheric general circulation model. <i>Journal of Geophysical Research</i> , 2007 , 112,		25
10	Sensitivity to Horizontal Resolution in the AGCM Simulations of Warm Season Diurnal Cycle of Precipitation over the United States and Northern Mexico. <i>Journal of Climate</i> , 2007 , 20, 1862-1881	4.4	83
9	An Analysis of the Warm-Season Diurnal Cycle over the Continental United States and Northern Mexico in General Circulation Models. <i>Journal of Hydrometeorology</i> , 2007 , 8, 344-366	3.7	77
8	Characteristics of Diurnal and Seasonal Cycles in Global Monsoon Systems. <i>Journal of the Meteorological Society of Japan</i> , 2007 , 85A, 403-416	2.8	8
7	The NAME 2004 Field Campaign and Modeling Strategy. <i>Bulletin of the American Meteorological Society</i> , 2006 , 87, 79-94	6.1	90
6	AGCM simulations of intraseasonal variability associated with the Asian summer monsoon. <i>Climate Dynamics</i> , 2003 , 21, 423-446	4.2	189
5	Impacts of Cumulus Convection Parameterization on Aqua-planet AGCM Simulations of Tropical Intraseasonal Variability. <i>Journal of the Meteorological Society of Japan</i> , 2003 , 81, 963-992	2.8	79
4	Influence of cloud-radiation interaction on simulating tropical intraseasonal oscillation with an atmospheric general circulation model. <i>Journal of Geophysical Research</i> , 2001 , 106, 14219-14233		91
3	Importance of ocean initial conditions of late autumn on winter seasonal prediction skill in atmosphere–ocean&sea ice coupled forecast system. <i>Climate Dynamics</i> , 1	4.2	
2	Spatiotemporal variations of air pollutants (O ₃ , NO ₂ , SO ₂ , CO, PM ₁₀ , and VOCs) with land-use types		2
1	Aerosol data assimilation and forecast using Geostationary Ocean Color Imager aerosol optical depth and in-situ observations during the KORUS-AQ observing period. <i>GIScience and Remote Sensing</i> , 1-20	4.8	5