

Dong-Hyun Cha

List of Publications by Year in descending order

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82
papers

1,993
citations

218677

26
h-index

289244

40
g-index

92
all docs

92
docs citations

92
times ranked

1582
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of multiple regional climate models for summer climate extremes over East Asia. <i>Climate Dynamics</i> , 2016, 46, 2469-2486.	3.8	130
2	Assessing Future Changes in the East Asian Summer Monsoon Using CMIP5 Coupled Models. <i>Journal of Climate</i> , 2013, 26, 7662-7675.	3.2	108
3	Comparative Assessment of Various Machine Learning-Based Bias Correction Methods for Numerical Weather Prediction Model Forecasts of Extreme Air Temperatures in Urban Areas. <i>Earth and Space Science</i> , 2020, 7, e2019EA000740.	2.6	88
4	Development of New Ensemble Methods Based on the Performance Skills of Regional Climate Models over South Korea. <i>Journal of Climate</i> , 2012, 25, 7067-7082.	3.2	84
5	A Dynamical Initialization Scheme for Real-Time Forecasts of Tropical Cyclones Using the WRF Model*. <i>Monthly Weather Review</i> , 2013, 141, 964-986.	1.4	80
6	Impact of intermittent spectral nudging on regional climate simulation using Weather Research and Forecasting model. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	74
7	Regional Climate Simulation of the 1998 Summer Flood over East Asia. <i>Journal of the Meteorological Society of Japan</i> , 2004, 82, 1735-1753.	1.8	72
8	Reduction of systematic errors in regional climate simulations of the summer monsoon over East Asia and the western North Pacific by applying the spectral nudging technique. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	71
9	Tropical Cyclone Intensity Estimation Using Multi-Dimensional Convolutional Neural Networks from Geostationary Satellite Data. <i>Remote Sensing</i> , 2020, 12, 108.	4.0	60
10	Future changes in extreme precipitation indices over Korea. <i>International Journal of Climatology</i> , 2018, 38, e862.	3.5	46
11	Projections of high resolution climate changes for South Korea using multiple-regional climate models based on four RCP scenarios. Part 1: surface air temperature. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2016, 52, 151-169.	2.3	45
12	Evaluation of the mesoscale model/land surface model (MM5/LSM) coupled model for East Asian summer monsoon simulations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	44
13	Evaluation of climatological tropical cyclone activity over the western North Pacific in the CORDEX-East Asia multi-RCM simulations. <i>Climate Dynamics</i> , 2016, 47, 765-778.	3.8	44
14	Future changes in summer precipitation in regional climate simulations over the Korean Peninsula forced by multi-RCP scenarios of HadGEM2-AO. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2016, 52, 139-149.	2.3	39
15	Evaluating the influence of climate change on the fate and transport of fecal coliform bacteria using the modified SWAT model. <i>Science of the Total Environment</i> , 2019, 658, 753-762.	8.0	39
16	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.	3.2	37
17	Impact of boundary layer processes on seasonal simulation of the East Asian summer monsoon using a Regional Climate Model. <i>Meteorology and Atmospheric Physics</i> , 2008, 100, 53-72.	2.0	35
18	Improvement of regional climate simulation of East Asian summer monsoon by coupled air-sea interaction and large-scale nudging. <i>International Journal of Climatology</i> , 2016, 36, 334-345.	3.5	35

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19	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.	3.3	34
20	Extratropical cyclones over East Asia: climatology, seasonal cycle, and long-term trend. <i>Climate Dynamics</i> , 2020, 54, 1131-1144.	3.8	33
21	Critical Role of Northern Off-Equatorial Sea Surface Temperature Forcing Associated with Central Pacific El Niño in More Frequent Tropical Cyclone Movements toward East Asia. <i>Journal of Climate</i> , 2013, 26, 2534-2545.	3.2	32
22	Recent changes in heatwave characteristics over Korea. <i>Climate Dynamics</i> , 2020, 55, 1685-1696.	3.8	32
23	Changes of precipitation extremes over South Korea projected by the 5 RCMs under RCP scenarios. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2016, 52, 223-236.	2.3	31
24	Projections of high resolution climate changes for South Korea using multiple-regional climate models based on four RCP scenarios. Part 2: precipitation. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2016, 52, 171-189.	2.3	30
25	Enhanced water vapor in Asian dust layer: Entrainment processes and implication for aerosol optical properties. <i>Atmospheric Environment</i> , 2006, 40, 2409-2421.	4.1	27
26	Impact of lateral boundary conditions on precipitation and temperature extremes over South Korea in the CORDEX regional climate simulation using RegCM4. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2013, 49, 497-509.	2.3	27
27	Evaluation and Projection of Regional Climate over East Asia in CORDEX-East Asia Phase I Experiment. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2021, 57, 119-134.	2.3	27
28	A regional climate change simulation over East Asia. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2013, 49, 655-664.	2.3	26
29	Thermodynamic and dynamic contributions to future changes in summer precipitation over Northeast Asia and Korea: a multi-RCM study. <i>Climate Dynamics</i> , 2017, 49, 4121-4139.	3.8	26
30	A Sensitivity Study of Regional Climate Simulation to Convective Parameterization Schemes for the 1998 East Asian Summer Monsoon. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2005, 16, 989.	0.6	26
31	Time of emergence of anthropogenic warming signals in the Northeast Asia assessed from multi-regional climate models. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2016, 52, 129-137.	2.3	22
32	A novel ensemble learning for post-processing of NWP Model's next-day maximum air temperature forecast in summer using deep learning and statistical approaches. <i>Weather and Climate Extremes</i> , 2022, 35, 100410.	4.1	21
33	Future changes in drought characteristics over South Korea using multi regional climate models with the standardized precipitation index. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2016, 52, 209-222.	2.3	20
34	Evaluation and projection of summer extreme precipitation over East Asia in the Regional Model Inter-comparison Project. <i>Climate Research</i> , 2016, 69, 45-58.	1.1	20
35	Impact of Spectral Nudging on Real-time Tropical Cyclone Forecast. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,647.	3.3	19
36	The Köppen-Trewartha Climate Type Changes Over the CORDEX-East Asia Phase 2 Domain Under 2 and 3 Å°C Global Warming. <i>Geophysical Research Letters</i> , 2019, 46, 14030-14041.	4.0	18

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37	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.	3.8	17
38	Long-term trends in tropical cyclone tracks around Korea and Japan in late summer and early fall. <i>Atmospheric Science Letters</i> , 2019, 20, e939.	1.9	16
39	The Role of the Pacific-Japan Pattern in Extreme Heatwaves Over Korea and Japan. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093990.	4.0	16
40	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.	2.3	15
41	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.	3.8	15
42	Future changes in precipitation for identified sub-regions in East Asia using bias-corrected multi-RCMs. <i>International Journal of Climatology</i> , 2021, 41, 1889-1904.	3.5	15
43	Impact of local sea surface temperature anomaly over the western North Pacific on extreme East Asian summer monsoon. <i>Climate Dynamics</i> , 2011, 37, 1691-1705.	3.8	14
44	Future Change in Tropical Cyclone Activity over the Western North Pacific in CORDEX-East Asia Multi-RCMs Forced by HadGEM2-AO. <i>Journal of Climate</i> , 2019, 32, 5053-5067.	3.2	14
45	Synoptic characteristics of extreme heatwaves over the Korean Peninsula based on ERA Interim reanalysis data. <i>International Journal of Climatology</i> , 2020, 40, 3179-3195.	3.5	14
46	Projection of future precipitation change over South Korea by regional climate models and bias correction methods. <i>Theoretical and Applied Climatology</i> , 2020, 141, 1415-1429.	2.8	14
47	Record-breaking summer rainfall in South Korea in 2020: Synoptic characteristics and the role of large-scale circulations. <i>Monthly Weather Review</i> , 2021, , .	1.4	14
48	Regional climate modeling for Asia. <i>Geoscience Letters</i> , 2020, 7, .	3.3	14
49	Evaluation of summer precipitation over Far East Asia and South Korea simulated by multiple regional climate models. <i>International Journal of Climatology</i> , 2020, 40, 2270-2284.	3.5	13
50	Impact of Cloud Microphysics Schemes on Tropical Cyclone Forecast Over the Western North Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032288.	3.3	12
51	Comparison of Tropical Cyclone Activities over the Western North Pacific in CORDEX-East Asia Phase I and II Experiments. <i>Journal of Climate</i> , 2020, 33, 10593-10607.	3.2	12
52	What determines future changes in photovoltaic potential over East Asia?. <i>Renewable Energy</i> , 2022, 185, 338-347.	8.9	12
53	How Does Pacific Decadal Oscillation Affect Tropical Cyclone Activity Over Far East Asia?. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	12
54	Diverse Synoptic Weather Patterns of Warm-Season Heavy Rainfall Events in South Korea. <i>Monthly Weather Review</i> , 2021, 149, 3875-3893.	1.4	11

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55	Impact of Boundary Conditions and Cumulus Parameterization Schemes on Regional Climate Simulation over South-Korea in the CORDEX-East Asia Domain Using the RegCM4 Model. Journal of the Korean Earth Science Society, 2011, 32, 373-387.	0.2	10
56	Simulation Skills of RegCM4 for Regional Climate over CORDEX East Asia driven by HadGEM2-AO. Journal of the Korean Earth Science Society, 2011, 32, 732-749.	0.2	10
57	Impacts of the East Asian Winter Monsoon and Local Sea Surface Temperature on Heavy Snowfall over the Yeongdong Region. Journal of Climate, 2019, 32, 6783-6802.	3.2	9
58	How Does Indian Monsoon Regulate the Northern Hemisphere Stationary Wave Pattern?. Frontiers in Earth Science, 2021, 8, .	1.8	9
59	Comparison of Regional Climate Model Performances for Different Types of Heat Waves over South Korea. Journal of Climate, 2021, 34, 2157-2174.	3.2	9
60	Impacts of Anthropogenic Heat and Building Height on Urban Precipitation Over the Seoul Metropolitan area in Regional Climate Modeling. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035348.	3.3	9
61	Changes in heat stress considering temperature, humidity, and wind over East Asia under <sc>RCP8.5</sc> and <sc>SSP5.8.5</sc> scenarios. International Journal of Climatology, 2022, 42, 6579-6595.	3.5	8
62	Climate Change Projections over CORDEX East Asia Domain using Multi-RCMs. Journal of Climate Research, 2014, 9, 257-268.	0.1	7
63	Simulation of the 18-day summer heavy rainfall over East Asia using a regional climate model. Journal of Geophysical Research, 2008, 113, .	3.3	6
64	Tuning of length-scale and observation-error for radar data assimilation using four dimensional variational (4D-Var) method. Atmospheric Science Letters, 2017, 18, 441-448.	1.9	6
65	Uncertainty Quantification of Future Design Rainfall Depths in Korea. Atmosphere, 2020, 11, 22.	2.3	6
66	Investigating the Role of MODIS Leaf Area Index and Vegetation-Climate Interaction in Regional Climate Simulations over Asia. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 377.	0.6	5
67	Climatic yield potential of Japonica type rice in the Korean Peninsula under RCP scenarios using the ensemble of multi-GCM and multi-RCM chains. International Journal of Climatology, 2021, 41, E1287.	3.5	5
68	Has Global Warming Contributed to the Largest Number of Typhoons Affecting South Korea in September 2019?. Bulletin of the American Meteorological Society, 2021, 102, S51-S57.	3.3	5
69	Effect of a Scale-Aware Convective Parameterization Scheme on the Simulation of Convective Cells-Related Heavy Rainfall in South Korea. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	5
70	Land-Based Convection Effects on Formation of Tropical Cyclone Mekkhala (2008). Monthly Weather Review, 2017, 145, 1315-1337.	1.4	4
71	Does Increasing Model Resolution Improve the Real-Time Forecasts of Western North Pacific Tropical Cyclones?. Atmosphere, 2021, 12, 776.	2.3	4
72	Five-day track forecast skills of WRF model for the western North Pacific tropical cyclones. Weather and Forecasting, 2021, , .	1.4	3

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73	Improvement of Extreme Summer Precipitation over South Korea in APHRODITE Data. Journal of Climate Research, 2017, 12, 41-51.	0.1	3
74	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.	2.7	3
75	Performance Evaluation and Future Projection of East Asian Climate using SSP Scenario-based CORDEX-East Asia Phase 2 Multi-RCM Simulations. Journal of Climate Change Research, 2022, 13, 339-354.	0.4	3
76	The impact of coupled airâ€sea interaction on extreme East Asian summer monsoon simulation in CMIP5 models. International Journal of Climatology, 2021, 41, 6336.	3.5	2
77	Impact of Horizontal Resolution on Precipitation Simulation over South Korea with Multi Regional Climate Models. Journal of Climate Research, 2016, 11, 169-181.	0.1	2
78	A Study of Future Changes of Climate Classification and Extreme Temperature Events over South Korea in Multi Regional Climate Model Simulations. Journal of Climate Research, 2017, 12, 149-164.	0.1	2
79	Long-term Variability of Summer Heavy Rainfall in the Seoul Metropolitan Area. Journal of Climate Research, 2019, 14, 209-219.	0.1	2
80	An Estimation of Ocean Surface Heat Fluxes during the Passage of Typhoon at the Jeju Ocean Research Station: Typhoon Lingling Case Study 2019. Asia-Pacific Journal of Atmospheric Sciences, 0, , 1.	2.3	1
81	Forecast of the Rapidly-Intensified Typhoon Nepartak (T201601) in the Eddy-rich Northwestern Pacific Region. Journal of Coastal Research, 2019, 91, 166.	0.3	1
82	What Determines Future Changes in Photovoltaic Potential Over East Asia?. SSRN Electronic Journal, 0, , .	0.4	0