

# Hyungjun Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

8,994  
citations

109321

35  
h-index

58581

82  
g-index

118  
all docs

118  
docs citations

118  
times ranked

11621  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global flood risk under climate change. <i>Nature Climate Change</i> , 2013, 3, 816-821.	18.8	1,892
2	Multimodel assessment of water scarcity under climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3245-3250.	7.1	1,282
3	Hydrological droughts in the 21st century, hotspots and uncertainties from a global multimodel ensemble experiment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3262-3267.	7.1	583
4	A physically based description of floodplain inundation dynamics in a global river routing model. <i>Water Resources Research</i> , 2011, 47, .	4.2	527
5	Global terrestrial water storage and drought severity under climate change. <i>Nature Climate Change</i> , 2021, 11, 226-233.	18.8	345
6	Water scarcity hotspots travel downstream due to human interventions in the 20th and 21st century. <i>Nature Communications</i> , 2017, 8, 15697.	12.8	287
7	First look at changes in flood hazard in the Inter-Sectoral Impact Model Intercomparison Project ensemble. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3257-3261.	7.1	246
8	Incorporating Anthropogenic Water Regulation Modules into a Land Surface Model. <i>Journal of Hydrometeorology</i> , 2012, 13, 255-269.	1.9	226
9	Observed controls on resilience of groundwater to climate variability in sub-Saharan Africa. <i>Nature</i> , 2019, 572, 230-234.	27.8	168
10	State-of-the-art global models underestimate impacts from climate extremes. <i>Nature Communications</i> , 2019, 10, 1005.	12.8	168
11	LS3MIP (v1.0) contribution to CMIP6: the Land Surface, Snow and Soil moisture Model Intercomparison Project "aims, setup and expected outcome. <i>Geoscientific Model Development</i> , 2016, 9, 2809-2832.	3.6	152
12	Variations of global and continental water balance components as impacted by climate forcing uncertainty and human water use. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2877-2898.	4.9	151
13	Multisectoral climate impact hotspots in a warming world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3233-3238.	7.1	149
14	State of the Climate in 2015. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, S1-S275.	3.3	142
15	Abrupt shift to hotter and drier climate over inner East Asia beyond the tipping point. <i>Science</i> , 2020, 370, 1095-1099.	12.6	141
16	Role of rivers in the seasonal variations of terrestrial water storage over global basins. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	140
17	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, S1-S279.	3.3	138
18	ORCHIDEE-MICT (v8.4.1), a land surface model for the high latitudes: model description and validation. <i>Geoscientific Model Development</i> , 2018, 11, 121-163.	3.6	135

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19	Observed changes in dry-season water availability attributed to human-induced climate change. <i>Nature Geoscience</i> , 2020, 13, 477-481.	12.9	132
20	State of the Climate in 2016. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, Si-S280.	3.3	132
21	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks. <i>Geoscientific Model Development</i> , 2018, 11, 5027-5049.	3.6	119
22	Recent progresses in incorporating human land-water management into global land surface models toward their integration into Earth system models. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 548-574.	6.5	110
23	The critical role of the routing scheme in simulating peak river discharge in global hydrological models. <i>Environmental Research Letters</i> , 2017, 12, 075003.	5.2	105
24	Analysis of the water level dynamics simulated by a global river model: A case study in the Amazon River. <i>Water Resources Research</i> , 2012, 48, .	4.2	94
25	Worldwide evaluation of mean and extreme runoff from six global-scale hydrological models that account for human impacts. <i>Environmental Research Letters</i> , 2018, 13, 065015.	5.2	85
26	The timing of unprecedented hydrological drought under climate change. <i>Nature Communications</i> , 2022, 13, .	12.8	77
27	Evapotranspiration seasonality across the Amazon Basin. <i>Earth System Dynamics</i> , 2017, 8, 439-454.	7.1	71
28	Event-to-event intensification of the hydrologic cycle from 1.5‰ $\hat{C}$ to a 2‰ $\hat{C}$ warmer world. <i>Scientific Reports</i> , 2019, 9, 3483.	3.3	67
29	Dynamics of surface water storage in the Amazon inferred from measurements of inter-satellite distance change. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	56
30	Estimating monthly total nitrogen concentration in streams by using artificial neural network. <i>Journal of Environmental Management</i> , 2011, 92, 172-177.	7.8	51
31	Relative contributions of weather systems to mean and extreme global precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 152-167.	3.3	51
32	Water Governance Contribution to Water and Sanitation Access Equality in Developing Countries. <i>Water Resources Research</i> , 2020, 56, e2019WR025330.	4.2	43
33	Consecutive extreme flooding and heat wave in Japan: Are they becoming a norm?. <i>Atmospheric Science Letters</i> , 2019, 20, e933.	1.9	42
34	Evapotranspiration simulations in ISIMIP2a-Evaluation of spatio-temporal characteristics with a comprehensive ensemble of independent datasets. <i>Environmental Research Letters</i> , 2018, 13, 075001.	5.2	38
35	Scientific and Human Errors in a Snow Model Intercomparison. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E61-E79.	3.3	38
36	GMD perspective: The quest to improve the evaluation of groundwater representation in continental-to global-scale models. <i>Geoscientific Model Development</i> , 2021, 14, 7545-7571.	3.6	38

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37	Impact of Pacific and Atlantic sea surface temperatures on interannual and decadal variations of GRACE land water storage in tropical South America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,811.	3.3	37
38	Meteorological and evaluation datasets for snow modelling at 10 reference sites: description of in situ and bias-corrected reanalysis data. <i>Earth System Science Data</i> , 2019, 11, 865-880.	9.9	36
39	Disruption of hydroecological equilibrium in southwest Amazon mediated by drought. <i>Geophysical Research Letters</i> , 2015, 42, 7546-7553.	4.0	34
40	The PROFOUND Database for evaluating vegetation models and simulating climate impacts on European forests. <i>Earth System Science Data</i> , 2020, 12, 1295-1320.	9.9	33
41	Impacts of spatial resolution and representation of flow connectivity on large-scale simulation of floods. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5143-5163.	4.9	32
42	Biogeophysical Impacts of Land Use Change on Climate Extremes in Low Emission Scenarios: Results From HAPPI Land. <i>Earth's Future</i> , 2018, 6, 396-409.	6.3	31
43	Vapor Pressure Deficit and Sunlight Explain Seasonality of Leaf Phenology and Photosynthesis Across Amazonian Evergreen Broadleaved Forest. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006893.	4.9	31
44	Emergent constraints on future precipitation changes. <i>Nature</i> , 2022, 602, 612-616.	27.8	29
45	Movement of Amazon surface water from time-variable satellite gravity measurements and implications for water cycle parameters in land surface models. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	27
46	On the use of the GRACE normal equation of inter-satellite tracking data for estimation of soil moisture and groundwater in Australia. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1811-1829.	4.9	27
47	Observed influence of anthropogenic climate change on tropical cyclone heavy rainfall. <i>Nature Climate Change</i> , 2022, 12, 436-440.	18.8	27
48	Assessment of Chlorophyll-a Algorithms Considering Different Trophic Statuses and Optimal Bands. <i>Sensors</i> , 2017, 17, 1746.	3.8	26
49	Intensification of the East Asian summer monsoon lifecycle based on observation and CMIP6. <i>Environmental Research Letters</i> , 2020, 15, 0940b9.	5.2	25
50	The Diurnal Cycle of Precipitation in Regional Spectral Model Simulations over West Africa: Sensitivities to Resolution and Cumulus Schemes. <i>Weather and Forecasting</i> , 2015, 30, 424-445.	1.4	22
51	Evaluation of MERIS Chlorophyll-a Retrieval Processors in a Complex Turbid Lake Kasumigaura over a 10-Year Mission. <i>Remote Sensing</i> , 2017, 9, 1022.	4.0	22
52	Which weather systems are projected to cause future changes in mean and extreme precipitation in CMIP5 simulations?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,522.	3.3	21
53	Multi-Algorithm Indices and Look-Up Table for Chlorophyll-a Retrieval in Highly Turbid Water Bodies Using Multispectral Data. <i>Remote Sensing</i> , 2017, 9, 556.	4.0	18
54	Development of a Global River Water Temperature Model Considering Fluvial Dynamics and Seasonal Freeze-Thaw Cycle. <i>Water Resources Research</i> , 2019, 55, 1366-1383.	4.2	17

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55	Climatological characteristics of fronts in the western North Pacific based on surface weather charts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9400-9418.	3.3	16
56	Modeling Surface Runoff and Water Fluxes over Contrasted Soils in the Pastoral Sahel: Evaluation of the ALMIP2 Land Surface Models over the Gourma Region in Mali. <i>Journal of Hydrometeorology</i> , 2017, 18, 1847-1866.	1.9	15
57	Sensitivity of Global Hydrological Simulations to Groundwater Capillary Flux Parameterizations. <i>Water Resources Research</i> , 2019, 55, 402-425.	4.2	15
58	Improvement of the Irrigation Scheme in the ORCHIDEE Land Surface Model and Impacts of Irrigation on Regional Water Budgets Over China. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001770.	3.8	15
59	Changes in fire weather climatology under 1.5 Å°C and 2.0 Å°C warming. <i>Environmental Research Letters</i> , 2021, 16, 034058.	5.2	14
60	Snow cover duration trends observed at sites and predicted by multiple models. <i>Cryosphere</i> , 2020, 14, 4687-4698.	3.9	14
61	Streamflows over a West African Basin from the ALMIP2 Model Ensemble. <i>Journal of Hydrometeorology</i> , 2017, 18, 1831-1845.	1.9	13
62	Evaluation of ORCHIDEE-MICT-simulated soil moisture over China and impacts of different atmospheric forcing data. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5463-5484.	4.9	13
63	Global aridity changes due to differences in surface energy and water balance between 1.5 Å°C and 2 Å°C warming. <i>Environmental Research Letters</i> , 2020, 15, 0940a7.	5.2	13
64	Impact of climate forcing uncertainty and human water use on global and continental water balance components. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 374, 53-62.	1.0	11
65	A study on the relationship between Atlantic sea surface temperature and Amazonian greenness. <i>Ecological Informatics</i> , 2010, 5, 367-378.	5.2	10
66	Seasonal Flooding Causes Intensification of the River Breeze in the Central Amazon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5178-5197.	3.3	10
67	Recurrent pattern of extreme fire weather in California. <i>Environmental Research Letters</i> , 2021, 16, 094031.	5.2	10
68	Emergence of significant soil moisture depletion in the near future. <i>Environmental Research Letters</i> , 2020, 15, 124048.	5.2	9
69	Impacts of Anthropogenic Heat and Building Height on Urban Precipitation Over the Seoul Metropolitan area in Regional Climate Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035348.	3.3	9
70	Difference in the Priestleyâ€Taylor coefficients at two different heights of a tall micrometeorological tower. <i>Agricultural and Forest Meteorology</i> , 2013, 180, 97-101.	4.8	7
71	Feasibility Study of the Reconstruction of Historical Weather with Data Assimilation. <i>Monthly Weather Review</i> , 2017, 145, 3563-3580.	1.4	7
72	Chronological Development of Terrestrial Mean Precipitation. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 2411-2428.	3.3	7

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73	Warm Season Satellite Precipitation Biases for Different Cloud Types Over Western North Pacific. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 808-812.	3.1	6
74	Empirical strategy for stretching probability distribution in neural-network-based regression. Neural Networks, 2021, 140, 113-120.	5.9	6
75	Improving Satellite-Based Subhourly Surface Rain Estimates Using Vertical Rain Profile Information. Journal of Hydrometeorology, 2019, 20, 1015-1026.	1.9	5
76	Development of a coupled simulation framework representing the lake and river continuum of mass and energy (TCHOIR v1.0). Geoscientific Model Development, 2021, 14, 5669-5693.	3.6	5
77	Toward global-scale data assimilation using SWOT: Requirements for global hydrodynamics models. , 2011, , .		3
78	Midlatitude mixed-phase stratocumulus clouds and their interactions with aerosols: how ice processes affect microphysical, dynamic, and thermodynamic development in those clouds and interactions?. Atmospheric Chemistry and Physics, 2021, 21, 16843-16868.	4.9	3
79	Development of a web application for examining climate data of global lake basins: CGLB. Hydrological Research Letters, 2015, 9, 125-132.	0.5	2
80	Evaluation of Groundwater Simulations in Benin from the ALMIP2 Project. Journal of Hydrometeorology, 2019, 20, 339-354.	1.9	2
81	PROJECTION OF THE CHANGES IN WEATHER POTENTIALLY AFFECTING TOURISM IN THE YAEYAMA ISLANDS UNDER GLOBAL WARMING. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2018, 74, I_19-I_24.	0.1	2
82	Conversion of surface water coverage to water volume using satellite data. Hydrological Research Letters, 2014, 8, 15-19.	0.5	1
83	VALIDATION OF RIVER DISCHARGE FROM A TERRESTRIAL MODEL WITH 1KM RESOLUTION OVER JAPAN. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2017, 73, I_71-I_79.	0.1	1
84	Estimation of glacier mass changes using GRACE satellite and numerical models. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2013, 69, I_53-I_59.	0.1	0
85	Validation of Gravity Recovery and Climate Experiment Data for Assessment of Terrestrial Water Storage Variations. , 2012, , 481-506.		0
86	DETERMINANTS OF WATER TEMPERATURE IN THE RIVERS OVER LOW-LATITUDE REGIONS. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2018, 74, I_583-I_588.	0.1	0
87	TOWARD THE GLOBAL-SCALE ESTIMATION OF WATER RESOURCES WITH A COUPLED MODEL FRAMEWORK OF HYDRO- AND THERMODYNAMICS IN RIVERS AND LAKES. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2021, 77, I_241-I_246.	0.1	0
88	EVALUATION OF SNOWFALL DETECTION PERFORMANCE OF SATELLITE- BASED RETRIEVAL PRODUCTS FOR FINNISH SNOWFALL CASES. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2021, 77, I_1201-I_1206.	0.1	0