

# Hyun-Han Kwon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1749001/publications.pdf>

Version: 2024-02-01

107  
papers

2,899  
citations

147726

31  
h-index

206029

48  
g-index

123  
all docs

123  
docs citations

123  
times ranked

3014  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating Optimal Design Frequency and Future Hydrological Risk in Local River Basins According to RCP Scenarios. <i>Water (Switzerland)</i> , 2022, 14, 945.	1.2	2
2	Analysis of CMIP 5 simulations of key climate indices associated with the South America monsoon system. <i>International Journal of Climatology</i> , 2021, 41, 404-422.	1.5	8
3	Calibration of the reflectivity-rainfall rate (Z-R) relationship using long-term radar reflectivity factor over the entire South Korea region in a Bayesian perspective. <i>Journal of Hydrology</i> , 2021, 593, 125790.	2.3	9
4	Bias-correction schemes for calibrated flow in a conceptual hydrological model. <i>Hydrology Research</i> , 2021, 52, 196-211.	1.1	7
5	Drought in South Asia: A Review of Drought Assessment and Prediction in South Asian Countries. <i>Atmosphere</i> , 2021, 12, 369.	1.0	39
6	Uncertainty Quantification of Water Level Predictions from Radar-based Areal Rainfall Using an Adaptive MCMC Algorithm. <i>Water Resources Management</i> , 2021, 35, 2197-2213.	1.9	4
7	Strategic disposal of flood debris via CO <sub>2</sub> -assisted catalytic pyrolysis. <i>Journal of Hazardous Materials</i> , 2021, 412, 125242.	6.5	6
8	A Bayesian Kriging model applied for spatial downscaling of daily rainfall from GCMs. <i>Journal of Hydrology</i> , 2021, 597, 126095.	2.3	21
9	A Bernoulli-Gamma hierarchical Bayesian model for daily rainfall forecasts. <i>Journal of Hydrology</i> , 2021, 599, 126317.	2.3	4
10	Performance Comparison of an LSTM-based Deep Learning Model versus Conventional Machine Learning Algorithms for Streamflow Forecasting. <i>Water Resources Management</i> , 2021, 35, 4167-4187.	1.9	79
11	Reassessing the frequency and severity of meteorological drought considering non-stationarity and copula-based bivariate probability. <i>Journal of Hydrology</i> , 2021, 603, 126948.	2.3	26
12	A review on water governance in Sri Lanka: the lessons learnt for future water policy formulation. <i>Water Policy</i> , 2021, 23, 255-273.	0.7	9
13	Exploring the Combined Risk of Sea Level Rise and Storm Surges Using a Bayesian Network Model: Application to Saemangeum Seawall. <i>Journal of Coastal Research</i> , 2021, 114, .	0.1	1
14	A Nonstationary Wind Speed Frequency Model over South Korea: In the Context of Bayesian Mixture Distribution Model. <i>Journal of Coastal Research</i> , 2021, 114, .	0.1	0
15	Predictability of Coastal Extreme Wave Heights Based on a Nonstationary Hierarchical Bayesian Model: The Role of the Sea Surface Temperature. <i>Journal of Coastal Research</i> , 2021, 114, .	0.1	0
16	A Novel Spatial Downscaling Approach for Climate Change Assessment in Regions With Sparse Ground Data Networks. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095729.	1.5	3
17	Intercomparison of joint bias correction methods for precipitation and flow from a hydrological perspective. <i>Journal of Hydrology</i> , 2021, 604, 127261.	2.3	4
18	Probabilistic long-term hydrological drought forecast using Bayesian networks and drought propagation. <i>Meteorological Applications</i> , 2020, 27, e1827.	0.9	22

#	ARTICLE	IF	CITATIONS
19	Application of the Hidden Markov Bayesian Classifier and Propagation Concept for Probabilistic Assessment of Meteorological and Hydrological Droughts in South Korea. <i>Atmosphere</i> , 2020, 11, 1000.	1.0	16
20	Changes in extreme rainfall and its implications for design rainfall using a Bayesian quantile regression approach. <i>Hydrology Research</i> , 2020, 51, 699-719.	1.1	11
21	Exploration of Daily Rainfall Intensity Change in South Korea 1900–2010 Using Bias-Corrected ERA-20C. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, 05020009.	0.8	2
22	A Hybrid Approach Combining Conceptual Hydrological Models, Support Vector Machines and Remote Sensing Data for Rainfall-Runoff Modeling. <i>Remote Sensing</i> , 2020, 12, 1801.	1.8	21
23	Stochastic modeling of chlorophyll-a for probabilistic assessment and monitoring of algae blooms in the Lower Nakdong River, South Korea. <i>Journal of Hazardous Materials</i> , 2020, 400, 123066.	6.5	34
24	Data Driven Water Surface Elevation Forecasting Model with Hybrid Activation Function—A Case Study for Hangang River, South Korea. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1424.	1.3	5
25	A Multiscale Precipitation Forecasting Framework: Linking Teleconnections and Climate Dipoles to Seasonal and 24-hr Extreme Rainfall Prediction. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085418.	1.5	4
26	Caracterizaç�o Espa�o-Temporal das Secas no Nordeste a partir da An�lise do �ndice SPI. <i>Revista Brasileira De Meteorologia</i> , 2020, 35, 233-242.	0.2	4
27	Investigating the influence of natural events and anthropogenic activities on hydrological drought in South Korea. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2020, 31, 85-96.	0.3	16
28	Categorization of precipitation changes in China under 1.5 �C and 3 �C global warming using the bivariate joint distribution from a multi-model perspective. <i>Environmental Research Letters</i> , 2020, 15, 124043.	2.2	2
29	Valorization of sewage sludge via non-catalytic transesterification. <i>Environment International</i> , 2019, 131, 105035.	4.8	23
30	South Asian perspective on temperature and rainfall extremes: A review. <i>Atmospheric Research</i> , 2019, 225, 110-120.	1.8	63
31	Estimation of Maximum Daily Fresh Snow Accumulation Using an Artificial Neural Network Model. <i>Advances in Meteorology</i> , 2019, 2019, 1-11.	0.6	6
32	Spatio-temporal drought patterns of multiple drought indices based on precipitation and soil moisture: A case study in South Korea. <i>International Journal of Climatology</i> , 2019, 39, 4669-4687.	1.5	33
33	Bias correction of daily precipitation over South Korea from the long-term reanalysis using a composite Gamma-Pareto distribution approach. <i>Hydrology Research</i> , 2019, 50, 1138-1161.	1.1	15
34	Quantifying Changes in Future Intensity-Duration-Frequency Curves Using Multimodel Ensemble Simulations. <i>Water Resources Research</i> , 2018, 54, 1751-1764.	1.7	105
35	Unraveling the Role of Temperature and Rainfall on Active Fires in the Brazilian Amazon Using a Nonlinear Poisson Model. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2018, 123, 117-128.	1.3	17
36	An integrated Bayesian approach to the probabilistic tsunami risk model for the location and magnitude of earthquakes: application to the eastern coast of the Korean Peninsula. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1243-1257.	1.9	5

#	ARTICLE	IF	CITATIONS
37	Estimation of return period and its uncertainty for the recent 2013–2015 drought in the Han River watershed in South Korea. <i>Hydrology Research</i> , 2018, 49, 1313-1329.	1.1	3
38	Probabilistic assessment of meteorological drought over South Korea under RCP scenarios using a hidden Markov model. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 365-372.	0.9	3
39	A spatial downscaling of soil moisture from rainfall, temperature, and AMSR2 using a Gaussian-mixture nonstationary hidden Markov model. <i>Journal of Hydrology</i> , 2018, 564, 1194-1207.	2.3	20
40	Exploration of warm-up period in conceptual hydrological modelling. <i>Journal of Hydrology</i> , 2018, 556, 194-210.	2.3	42
41	Analysis of atmospheric moisture transport to the Upper Parana River basin. <i>International Journal of Climatology</i> , 2018, 38, 5153-5167.	1.5	7
42	Five Decadal Trends in Averages and Extremes of Rainfall and Temperature in Sri Lanka. <i>Advances in Meteorology</i> , 2018, 2018, 1-13.	0.6	32
43	Coastal Flood Disaster in Sri Lanka-May 2017: Exploring Distributional Changes in Rainfall and Their Impacts on Flood Risk. <i>Journal of Coastal Research</i> , 2018, 85, 1476-1480.	0.1	7
44	Links between different classes of storm tracks and the flood trends in Spain. <i>Journal of Hydrology</i> , 2018, 567, 71-85.	2.3	8
45	A Bivariate Frequency Analysis of Extreme Wave Heights and Periods Using a Copula Function in South Korea. <i>Journal of Coastal Research</i> , 2018, 85, 566-570.	0.1	1
46	Stochastic Analysis of Typhoon-Induced Storm Surge in the Coastal Area of the Korean Peninsula: Inference from a Nonstationary, Bayesian, Poisson, Generalized Pareto Distribution. <i>Journal of Coastal Research</i> , 2018, 85, 896-900.	0.1	0
47	A local-regional scaling-invariant Bayesian GEV model for estimating rainfall IDF curves in a future climate. <i>Journal of Hydrology</i> , 2018, 566, 73-88.	2.3	44
48	Assessment of regional drought risk under climate change using bivariate frequency analysis. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 3439-3453.	1.9	7
49	Estimates of Sediment Pickup Rate induced by Surge Wave within a Multilevel Bayesian Regression Framework. <i>Journal of Coastal Research</i> , 2018, 85, 286-290.	0.1	1
50	A Bayesian Quantile Regression Approach for Nonstationary Frequency Analysis of Annual Maximum Sea Level in a Changing Climate. <i>Journal of Coastal Research</i> , 2018, 85, 536-540.	0.1	5
51	A Bayesian partial pooling approach to mean field bias correction of weather radar rainfall estimates: Application to Osungsan weather radar in South Korea. <i>Journal of Hydrology</i> , 2018, 565, 14-26.	2.3	23
52	Stochastic extreme downscaling model for an assessment of changes in rainfall intensity-duration-frequency curves over South Korea using multiple regional climate models. <i>Journal of Hydrology</i> , 2017, 553, 321-337.	2.3	46
53	Integrating nonstationary behaviors of typhoon and non-typhoon extreme rainfall events in East Asia. <i>Scientific Reports</i> , 2017, 7, 5097.	1.6	19
54	A hierarchical Bayesian approach to the modified Bartlett-Lewis rectangular pulse model for a joint estimation of model parameters across stations. <i>Journal of Hydrology</i> , 2017, 544, 210-223.	2.3	20

#	ARTICLE	IF	CITATIONS
55	Droughts in Amazonia: Spatiotemporal Variability, Teleconnections, and Seasonal Predictions. <i>Water Resources Research</i> , 2017, 53, 10824-10840.	1.7	26
56	Classification of mechanisms, climatic context, areal scaling, and synchronization of floods: the hydroclimatology of floods in the Upper Paraná River basin, Brazil. <i>Earth System Dynamics</i> , 2017, 8, 1071-1091.	2.7	11
57	Monitoring Water Resources over the Kotmale Reservoir in Sri Lanka Using ENSO Phases. <i>Advances in Meteorology</i> , 2017, 2017, 1-9.	0.6	11
58	Estimating the Accelerated Sea Level Rise along the Korean Peninsula Using Multiscale Analysis. <i>Journal of Coastal Research</i> , 2016, 75, 770-774.	0.1	2
59	Precipitation ensembles conforming to natural variations derived from a regional climate model using a new bias correction scheme. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2019-2034.	1.9	16
60	Future Changes in Drought Characteristics under Extreme Climate Change over South Korea. <i>Advances in Meteorology</i> , 2016, 2016, 1-19.	0.6	13
61	A Bayesian beta distribution model for estimating rainfall IDF curves in a changing climate. <i>Journal of Hydrology</i> , 2016, 540, 744-756.	2.3	50
62	Development of Hazard Map with Probable Maximum Tsunamis. <i>Journal of Coastal Research</i> , 2016, 75, 1057-1061.	0.1	5
63	Development of Tracking Technique for the Short Term Rainfall Field Forecasting. <i>Procedia Engineering</i> , 2016, 154, 1058-1063.	1.2	2
64	A hierarchical Bayesian GEV model for improving local and regional flood quantile estimates. <i>Journal of Hydrology</i> , 2016, 541, 816-823.	2.3	44
65	A copula-based nonstationary frequency analysis for the 2012–2015 drought in California. <i>Water Resources Research</i> , 2016, 52, 5662-5675.	1.7	106
66	The unusual 2013–2015 drought in South Korea in the context of a multicentury precipitation record: Inferences from a nonstationary, multivariate, Bayesian copula model. <i>Geophysical Research Letters</i> , 2016, 43, 8534-8544.	1.5	52
67	A Hierarchical Bayesian Model based Nonstationary Frequency Analysis of Extreme Sea Level under Climate Change along the Shorelines in South Korea. <i>Journal of Coastal Research</i> , 2016, 75, 745-749.	0.1	1
68	A Hierarchical Bayesian Model-Based Uncertainty Analysis for Tsunami Heights along Shorelines in Korea. <i>Journal of Coastal Research</i> , 2016, 75, 1157-1161.	0.1	1
69	Hydrological modelling under climate change considering nonstationarity and seasonal effects. <i>Hydrology Research</i> , 2016, 47, 260-273.	1.1	12
70	Regionalization of the Modified Bartlett–Lewis rectangular pulse stochastic rainfall model across the Korean Peninsula. <i>Journal of Hydro-Environment Research</i> , 2016, 11, 123-137.	1.0	16
71	Influence of evapotranspiration on future drought risk using bivariate drought frequency curves. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 2059-2069.	0.9	10
72	Identifying the role of typhoons as drought busters in South Korea based on hidden Markov chain models. <i>Geophysical Research Letters</i> , 2015, 42, 2797-2804.	1.5	11

#	ARTICLE	IF	CITATIONS
73	Bias correction methods for regional climate model simulations considering the distributional parametric uncertainty underlying the observations. <i>Journal of Hydrology</i> , 2015, 530, 568-579.	2.3	35
74	A climate informed model for nonstationary flood risk prediction: Application to Negro River at Manaus, Amazonia. <i>Journal of Hydrology</i> , 2015, 522, 594-602.	2.3	64
75	Modeling of daily rainfall sequence and extremes based on a semiparametric Pareto tail approach at multiple locations. <i>Journal of Hydrology</i> , 2015, 529, 1442-1450.	2.3	21
76	Energy recovery from microalgal biomass via enhanced thermo-chemical process. <i>Biomass and Bioenergy</i> , 2014, 63, 46-53.	2.9	21
77	Thermo-chemical process with sewage sludge by using CO <sub>2</sub> . <i>Journal of Environmental Management</i> , 2013, 128, 435-440.	3.8	16
78	Different Impacts of the Two Phases of El Niño on Variability of Warm Season Rainfall and Frequency of Extreme Events over the Han River Basin. <i>Journal of Korea Water Resources Association</i> , 2013, 46, 123-137.	0.3	1
79	Spatio-temporal analysis of extreme precipitation regimes across South Korea and its application to regionalization. <i>Journal of Hydro-Environment Research</i> , 2012, 6, 101-110.	1.0	22
80	Drought frequency analysis using cluster analysis and bivariate probability distribution. <i>Journal of Hydrology</i> , 2012, 420-421, 102-111.	2.3	71
81	Uncertainty assessment of hydrologic and climate forecast models in Northeastern Brazil. <i>Hydrological Processes</i> , 2012, 26, 3875-3885.	1.1	35
82	Investigation of trend variations in annual maximum rainfalls in South Korea. <i>KSCE Journal of Civil Engineering</i> , 2012, 16, 215-221.	0.9	12
83	Constructing rainfall depth-frequency curves considering a linear trend in rainfall observations. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012, 26, 419-427.	1.9	8
84	Predicting foraging wading bird populations in Everglades National Park from seasonal hydrologic statistics under different management scenarios. <i>Water Resources Research</i> , 2011, 47, .	1.7	6
85	Assessment of change in design flood frequency under climate change using a multivariate downscaling model and a precipitation-runoff model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011, 25, 567-581.	1.9	49
86	Assessment of the impact of climate change on the flow regime of the Han River basin using indicators of hydrologic alteration. <i>Hydrological Processes</i> , 2011, 25, 691-704.	1.1	53
87	Evaluation of typhoon-induced rainfall using nonparametric Monte Carlo simulation and locally weighted polynomial regression. <i>Hydrological Processes</i> , 2011, 25, 1765-1777.	1.1	7
88	Climate informed monthly streamflow forecasts for the Brazilian hydropower network using a periodic ridge regression model. <i>Journal of Hydrology</i> , 2010, 380, 438-449.	2.3	42
89	Climate informed long term seasonal forecasts of hydroenergy inflow for the Brazilian hydropower system. <i>Journal of Hydrology</i> , 2010, 381, 65-75.	2.3	21
90	Spatial scaling in a changing climate: A hierarchical bayesian model for non-stationary multi-site annual maximum and monthly streamflow. <i>Journal of Hydrology</i> , 2010, 383, 307-318.	2.3	115

#	ARTICLE	IF	CITATIONS
91	A modified support vector machine based prediction model on streamflow at the Shihmen Reservoir, Taiwan. <i>International Journal of Climatology</i> , 2010, 30, 1256-1268.	1.5	51
92	Predictive downscaling based on non-homogeneous hidden Markov models. <i>Hydrological Sciences Journal</i> , 2010, 55, 333-350.	1.2	30
93	Statistical Prediction of ENSO from Subsurface Sea Temperature Using a Nonlinear Dimensionality Reduction. <i>Journal of Climate</i> , 2009, 22, 4501-4519.	1.2	35
94	Simulation of daily rainfall scenarios with interannual and multidecadal climate cycles for South Florida. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 879-896.	1.9	47
95	A Streamflow Forecasting Framework using Multiple Climate and Hydrological Models <sup>1</sup> . <i>Journal of the American Water Resources Association</i> , 2009, 45, 828-843.	1.0	156
96	Seasonal and annual maximum streamflow forecasting using climate information: application to the Three Gorges Dam in the Yangtze River basin, China / PrÃ©vision d'Ã©coulements saisonnier et maximum annuel Ã l'aide d'informations climatiques: application au Barrage des Trois Gorges dans le bassin du Fleuve Yangtze, Chine. <i>Hydrological Sciences Journal</i> , 2009, 54, 582-595.	1.2	43
97	Changing Frequency and Intensity of Rainfall Extremes over India from 1951 to 2003. <i>Journal of Climate</i> , 2009, 22, 4737-4746.	1.2	160
98	Analysis of Extreme Summer Rainfall Using Climate Teleconnections and Typhoon Characteristics in South Korea <sup>1</sup> . <i>Journal of the American Water Resources Association</i> , 2008, 44, 436-448.	1.0	22
99	Climate informed flood frequency analysis and prediction in Montana using hierarchical Bayesian modeling. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	109
100	Stochastic simulation model for nonstationary time series using an autoregressive wavelet decomposition: Applications to rainfall and temperature. <i>Water Resources Research</i> , 2007, 43, .	1.7	89
101	El NiÃ±o/Southern Oscillation-based index insurance for floods: Statistical risk analyses and application to Peru. <i>Water Resources Research</i> , 2007, 43, .	1.7	48
102	Climate teleconnections to Yangtze river seasonal streamflow at the Three Gorges Dam, China. <i>International Journal of Climatology</i> , 2007, 27, 771-780.	1.5	44
103	Non-parametric short-term forecasts of the Great Salt Lake using atmospheric indices. <i>International Journal of Climatology</i> , 2007, 28, 361.	1.5	9
104	Nonparametric Monte Carlo Simulation for Flood Frequency Curve Derivation: An Application to a Korean Watershed. <i>Journal of the American Water Resources Association</i> , 2007, 43, 1316-1328.	1.0	15
105	Locally weighted polynomial regression: Parameter choice and application to forecasts of the Great Salt Lake. <i>Water Resources Research</i> , 2006, 42, .	1.7	46
106	Episodic interannual climate oscillations and their influence on seasonal rainfall in the Everglades National Park. <i>Water Resources Research</i> , 2006, 42, .	1.7	21
107	Improvement of overtopping risk evaluations using probabilistic concepts for existing dams. <i>Stochastic Environmental Research and Risk Assessment</i> , 2006, 20, 223-237.	1.9	56