

Hyun-Han Kwon

List of Publications by Year in descending order

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107
papers

2,899
citations

147801

31
h-index

206112

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123
all docs

123
docs citations

123
times ranked

3014
citing authors

#	ARTICLE	IF	CITATIONS
1	Changing Frequency and Intensity of Rainfall Extremes over India from 1951 to 2003. Journal of Climate, 2009, 22, 4737-4746.	3.2	160
2	A Streamflow Forecasting Framework using Multiple Climate and Hydrological Models¹. Journal of the American Water Resources Association, 2009, 45, 828-843.	2.4	156
3	Spatial scaling in a changing climate: A hierarchical bayesian model for non-stationary multi-site annual maximum and monthly streamflow. Journal of Hydrology, 2010, 383, 307-318.	5.4	115
4	Climate informed flood frequency analysis and prediction in Montana using hierarchical Bayesian modeling. Geophysical Research Letters, 2008, 35, .	4.0	109
5	A copulaâ€based nonstationary frequency analysis for the 2012â€2015 drought in California. Water Resources Research, 2016, 52, 5662-5675.	4.2	106
6	Quantifying Changes in Future Intensityâ€Durationâ€Frequency Curves Using Multimodel Ensemble Simulations. Water Resources Research, 2018, 54, 1751-1764.	4.2	105
7	Stochastic simulation model for nonstationary time series using an autoregressive wavelet decomposition: Applications to rainfall and temperature. Water Resources Research, 2007, 43, .	4.2	89
8	Performance Comparison of an LSTM-based Deep Learning Model versus Conventional Machine Learning Algorithms for Streamflow Forecasting. Water Resources Management, 2021, 35, 4167-4187.	3.9	79
9	Drought frequency analysis using cluster analysis and bivariate probability distribution. Journal of Hydrology, 2012, 420-421, 102-111.	5.4	71
10	A climate informed model for nonstationary flood risk prediction: Application to Negro River at Manaus, Amazonia. Journal of Hydrology, 2015, 522, 594-602.	5.4	64
11	South Asian perspective on temperature and rainfall extremes: A review. Atmospheric Research, 2019, 225, 110-120.	4.1	63
12	Improvement of overtopping risk evaluations using probabilistic concepts for existing dams. Stochastic Environmental Research and Risk Assessment, 2006, 20, 223-237.	4.0	56
13	Assessment of the impact of climate change on the flow regime of the Han River basin using indicators of hydrologic alteration. Hydrological Processes, 2011, 25, 691-704.	2.6	53
14	The unusual 2013â€2015 drought in South Korea in the context of a multicentury precipitation record: Inferences from a nonstationary, multivariate, Bayesian copula model. Geophysical Research Letters, 2016, 43, 8534-8544.	4.0	52
15	A modified support vector machine based prediction model on streamflow at the Shihmen Reservoir, Taiwan. International Journal of Climatology, 2010, 30, 1256-1268.	3.5	51
16	A Bayesian beta distribution model for estimating rainfall IDF curves in a changing climate. Journal of Hydrology, 2016, 540, 744-756.	5.4	50
17	Assessment of change in design flood frequency under climate change using a multivariate downscaling model and a precipitation-runoff model. Stochastic Environmental Research and Risk Assessment, 2011, 25, 567-581.	4.0	49
18	El NiÃ±oâ€Southern Oscillationâ€based index insurance for floods: Statistical risk analyses and application to Peru. Water Resources Research, 2007, 43, .	4.2	48

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19	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.	4.0	47
20	Locally weighted polynomial regression: Parameter choice and application to forecasts of the Great Salt Lake. <i>Water Resources Research</i> , 2006, 42, .	4.2	46
21	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.	5.4	46
22	Climate teleconnections to Yangtze river seasonal streamflow at the Three Gorges Dam, China. <i>International Journal of Climatology</i> , 2007, 27, 771-780.	3.5	44
23	A hierarchical Bayesian GEV model for improving local and regional flood quantile estimates. <i>Journal of Hydrology</i> , 2016, 541, 816-823.	5.4	44
24	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.	5.4	44
25	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.	2.6	43
26	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.	5.4	42
27	Exploration of warm-up period in conceptual hydrological modelling. <i>Journal of Hydrology</i> , 2018, 556, 194-210.	5.4	42
28	Drought in South Asia: A Review of Drought Assessment and Prediction in South Asian Countries. <i>Atmosphere</i> , 2021, 12, 369.	2.3	39
29	Statistical Prediction of ENSO from Subsurface Sea Temperature Using a Nonlinear Dimensionality Reduction. <i>Journal of Climate</i> , 2009, 22, 4501-4519.	3.2	35
30	Uncertainty assessment of hydrologic and climate forecast models in Northeastern Brazil. <i>Hydrological Processes</i> , 2012, 26, 3875-3885.	2.6	35
31	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.	5.4	35
32	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.	12.4	34
33	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.	3.5	33
34	Five Decadal Trends in Averages and Extremes of Rainfall and Temperature in Sri Lanka. <i>Advances in Meteorology</i> , 2018, 2018, 1-13.	1.6	32
35	Predictive downscaling based on non-homogeneous hidden Markov models. <i>Hydrological Sciences Journal</i> , 2010, 55, 333-350.	2.6	30
36	Droughts in Amazonia: Spatiotemporal Variability, Teleconnections, and Seasonal Predictions. <i>Water Resources Research</i> , 2017, 53, 10824-10840.	4.2	26

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37	Reassessing the frequency and severity of meteorological drought considering non-stationarity and copula-based bivariate probability. <i>Journal of Hydrology</i> , 2021, 603, 126948.	5.4	26
38	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.	5.4	23
39	Valorization of sewage sludge via non-catalytic transesterification. <i>Environment International</i> , 2019, 131, 105035.	10.0	23
40	Analysis of Extreme Summer Rainfall Using Climate Teleconnections and Typhoon Characteristics in South Korea. <i>Journal of the American Water Resources Association</i> , 2008, 44, 436-448.	2.4	22
41	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.	2.2	22
42	Probabilistic long-term hydrological drought forecast using Bayesian networks and drought propagation. <i>Meteorological Applications</i> , 2020, 27, e1827.	2.1	22
43	Episodic interannual climate oscillations and their influence on seasonal rainfall in the Everglades National Park. <i>Water Resources Research</i> , 2006, 42, .	4.2	21
44	Climate informed long term seasonal forecasts of hydroenergy inflow for the Brazilian hydropower system. <i>Journal of Hydrology</i> , 2010, 381, 65-75.	5.4	21
45	Energy recovery from microalgal biomass via enhanced thermo-chemical process. <i>Biomass and Bioenergy</i> , 2014, 63, 46-53.	5.7	21
46	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.	5.4	21
47	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.	4.0	21
48	A Bayesian Kriging model applied for spatial downscaling of daily rainfall from GCMs. <i>Journal of Hydrology</i> , 2021, 597, 126095.	5.4	21
49	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.	5.4	20
50	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.	5.4	20
51	Integrating nonstationary behaviors of typhoon and non-typhoon extreme rainfall events in East Asia. <i>Scientific Reports</i> , 2017, 7, 5097.	3.3	19
52	Unraveling the Role of Temperature and Rainfall on Active Fires in the Brazilian Amazon Using a Nonlinear Poisson Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 117-128.	3.0	17
53	Thermo-chemical process with sewage sludge by using CO ₂ . <i>Journal of Environmental Management</i> , 2013, 128, 435-440.	7.8	16
54	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.	4.9	16

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55	Regionalization of the Modified Bartlett's Lewis rectangular pulse stochastic rainfall model across the Korean Peninsula. <i>Journal of Hydro-Environment Research</i> , 2016, 11, 123-137.	2.2	16
56	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.	2.3	16
57	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.	0.6	16
58	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.	2.4	15
59	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.	2.7	15
60	Future Changes in Drought Characteristics under Extreme Climate Change over South Korea. <i>Advances in Meteorology</i> , 2016, 2016, 1-19.	1.6	13
61	Investigation of trend variations in annual maximum rainfalls in South Korea. <i>KSCE Journal of Civil Engineering</i> , 2012, 16, 215-221.	1.9	12
62	Hydrological modelling under climate change considering nonstationarity and seasonal effects. <i>Hydrology Research</i> , 2016, 47, 260-273.	2.7	12
63	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.	4.0	11
64	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.	7.1	11
65	Monitoring Water Resources over the Kotmale Reservoir in Sri Lanka Using ENSO Phases. <i>Advances in Meteorology</i> , 2017, 2017, 1-9.	1.6	11
66	Changes in extreme rainfall and its implications for design rainfall using a Bayesian quantile regression approach. <i>Hydrology Research</i> , 2020, 51, 699-719.	2.7	11
67	Influence of evapotranspiration on future drought risk using bivariate drought frequency curves. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 2059-2069.	1.9	10
68	Non-parametric short-term forecasts of the Great Salt Lake using atmospheric indices. <i>International Journal of Climatology</i> , 2007, 28, 361.	3.5	9
69	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.	5.4	9
70	A review on water governance in Sri Lanka: the lessons learnt for future water policy formulation. <i>Water Policy</i> , 2021, 23, 255-273.	1.5	9
71	Constructing rainfall depth-frequency curves considering a linear trend in rainfall observations. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012, 26, 419-427.	4.0	8
72	Links between different classes of storm tracks and the flood trends in Spain. <i>Journal of Hydrology</i> , 2018, 567, 71-85.	5.4	8

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73	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.	3.5	8
74	Evaluation of typhoon-induced rainfall using nonparametric Monte Carlo simulation and locally weighted polynomial regression. <i>Hydrological Processes</i> , 2011, 25, 1765-1777.	2.6	7
75	Analysis of atmospheric moisture transport to the Upper Paraná River basin. <i>International Journal of Climatology</i> , 2018, 38, 5153-5167.	3.5	7
76	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.	0.3	7
77	Assessment of regional drought risk under climate change using bivariate frequency analysis. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 3439-3453.	4.0	7
78	Bias-correction schemes for calibrated flow in a conceptual hydrological model. <i>Hydrology Research</i> , 2021, 52, 196-211.	2.7	7
79	Predicting foraging wading bird populations in Everglades National Park from seasonal hydrologic statistics under different management scenarios. <i>Water Resources Research</i> , 2011, 47, .	4.2	6
80	Estimation of Maximum Daily Fresh Snow Accumulation Using an Artificial Neural Network Model. <i>Advances in Meteorology</i> , 2019, 2019, 1-11.	1.6	6
81	Strategic disposal of flood debris via CO ₂ -assisted catalytic pyrolysis. <i>Journal of Hazardous Materials</i> , 2021, 412, 125242.	12.4	6
82	Development of Hazard Map with Probable Maximum Tsunamis. <i>Journal of Coastal Research</i> , 2016, 75, 1057-1061.	0.3	5
83	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.	4.0	5
84	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.	0.3	5
85	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.	2.5	5
86	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.	4.0	4
87	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.	3.9	4
88	A Bernoulli-Gamma hierarchical Bayesian model for daily rainfall forecasts. <i>Journal of Hydrology</i> , 2021, 599, 126317.	5.4	4
89	Caracterização Espacio-Temporal das Secas no Nordeste a partir da Análise do Índice SPI. <i>Revista Brasileira De Meteorologia</i> , 2020, 35, 233-242.	0.5	4
90	Intercomparison of joint bias correction methods for precipitation and flow from a hydrological perspective. <i>Journal of Hydrology</i> , 2021, 604, 127261.	5.4	4

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91	Estimation of return period and its uncertainty for the recent 2013â€“2015 drought in the Han River watershed in South Korea. <i>Hydrology Research</i> , 2018, 49, 1313-1329.	2.7	3
92	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.	1.9	3
93	A Novel Spatial Downscaling Approach for Climate Change Assessment in Regions With Sparse Ground Data Networks. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095729.	4.0	3
94	Estimating the Accelerated Sea Level Rise along the Korean Peninsula Using Multiscale Analysis. <i>Journal of Coastal Research</i> , 2016, 75, 770-774.	0.3	2
95	Development of Tracking Technique for the Short Term Rainfall Field Forecasting. <i>Procedia Engineering</i> , 2016, 154, 1058-1063.	1.2	2
96	Exploration of Daily Rainfall Intensity Change in South Korea 1900â€“2010 Using Bias-Corrected ERA-20C. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, 05020009.	1.9	2
97	Categorization of precipitation changes in China under 1.5 Â°C and 3 Â°C global warming using the bivariate joint distribution from a multi-model perspective. <i>Environmental Research Letters</i> , 2020, 15, 124043.	5.2	2
98	Estimating Optimal Design Frequency and Future Hydrological Risk in Local River Basins According to RCP Scenarios. <i>Water (Switzerland)</i> , 2022, 14, 945.	2.7	2
99	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.	0.3	1
100	A Hierarchical Bayesian Model-Based Uncertainty Analysis for Tsunami Heights along Shorelines in Korea. <i>Journal of Coastal Research</i> , 2016, 75, 1157-1161.	0.3	1
101	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.	0.3	1
102	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.	0.3	1
103	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, .	0.3	1
104	Different Impacts of the Two Phases of El NiÃ±o 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.	0.2	1
105	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.	0.3	0
106	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, .	0.3	0
107	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, .	0.3	0