

Tae-Woong Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3254112/publications.pdf>

Version: 2024-02-01

118
papers

2,760
citations

236925

25
h-index

223800

46
g-index

118
all docs

118
docs citations

118
times ranked

2310
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Model for Drought Forecasting Based on a Conjunction of Wavelet Transforms and Neural Networks. <i>Journal of Hydrologic Engineering - ASCE</i> , 2003, 8, 319-328.	1.9	360
2	Nonparametric Approach for Estimating Return Periods of Droughts in Arid Regions. <i>Journal of Hydrologic Engineering - ASCE</i> , 2003, 8, 237-246.	1.9	129
3	Assessment of drought hazard, vulnerability, and risk: A case study for Administrative districts in South Korea. <i>Journal of Hydro-Environment Research</i> , 2015, 9, 28-35.	2.2	111
4	Development of a new composite drought index for multivariate drought assessment. <i>Journal of Hydrology</i> , 2015, 527, 30-37.	5.4	94
5	Investigating effect of climate change on drought propagation from meteorological to hydrological drought using multi-model ensemble projections. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 7-21.	4.0	81
6	Investigating the impacts of climate change and human activities on hydrological drought using non-stationary approaches. <i>Journal of Hydrology</i> , 2020, 588, 125052.	5.4	80
7	Frequency and Spatial Characteristics of Droughts in the Conchos River Basin, Mexico. <i>Water International</i> , 2002, 27, 420-430.	1.0	76
8	Nonparametric Approach for Bivariate Drought Characterization Using Palmer Drought Index. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006, 11, 134-143.	1.9	72
9	Drought frequency analysis using cluster analysis and bivariate probability distribution. <i>Journal of Hydrology</i> , 2012, 420-421, 102-111.	5.4	71
10	Non-stationary frequency analysis of extreme precipitation in South Korea using peaks-over-threshold and annual maxima. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 583-606.	4.0	71
11	Probabilistic Characteristics of Drought Propagation from Meteorological to Hydrological Drought in South Korea. <i>Water Resources Management</i> , 2019, 33, 2439-2452.	3.9	62
12	Investigation of SCS-CN and its inspired modified models for runoff estimation in South Korean watersheds. <i>Journal of Hydro-Environment Research</i> , 2015, 9, 592-603.	2.2	55
13	Quantification of linkages between large-scale climatic patterns and precipitation in the Colorado River Basin. <i>Journal of Hydrology</i> , 2006, 321, 173-186.	5.4	52
14	Drought Risk Analysis, Forecasting and Assessment under Climate Change. <i>Water (Switzerland)</i> , 2020, 12, 1862.	2.7	51
15	Quantifying Excess Stormwater Using SCS-CN-Based Rainfall Runoff Models and Different Curve Number Determination Methods. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2015, 141, .	1.0	48
16	Improved Runoff Estimation Using Event-Based Rainfall-Runoff Models. <i>Water Resources Management</i> , 2015, 29, 1995-2010.	3.9	46
17	Rainfall frequency analysis using a mixed Gamma distribution: evaluation of the global warming effect on daily rainfall. <i>Hydrological Processes</i> , 2005, 19, 3851-3861.	2.6	44
18	Exploring the influence of climate change-induced drought propagation on wetlands. <i>Ecological Engineering</i> , 2020, 149, 105799.	3.6	41

#	ARTICLE	IF	CITATIONS
19	Drought in South Asia: A Review of Drought Assessment and Prediction in South Asian Countries. <i>Atmosphere</i> , 2021, 12, 369.	2.3	39
20	Application of spatial EOF and multivariate time series model for evaluating agricultural drought vulnerability in Korea. <i>Advances in Water Resources</i> , 2011, 34, 340-350.	3.8	35
21	Hydrological modeling to simulate streamflow under changing climate in a scarcely gauged cryosphere catchment. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	33
22	Application of bivariate frequency analysis to the derivation of rainfall frequency curves. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 389-397.	4.0	29
23	A Pragmatic Slope-Adjusted Curve Number Model to Reduce Uncertainty in Predicting Flood Runoff from Steep Watersheds. <i>Water (Switzerland)</i> , 2020, 12, 1469.	2.7	29
24	Investigation of drought propagation in South Korea using drought index and conditional probability. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2018, 29, 231-241.	0.6	27
25	Evaluation of Machine Learning Techniques for Hydrological Drought Modeling: A Case Study of the Wadi Ouahrane Basin in Algeria. <i>Water (Switzerland)</i> , 2022, 14, 431.	2.7	27
26	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
27	Comprehensive evaluation of machine learning models for suspended sediment load inflow prediction in a reservoir. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 1805-1823.	4.0	25
28	Comprehensive Evaluation of Machine Learning Techniques for Hydrological Drought Forecasting. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2021, 147, .	1.0	25
29	Runoff Estimation Using the NRCS Slope-Adjusted Curve Number in Mountainous Watersheds. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2016, 142, .	1.0	24
30	Synthetic Generation of Hydrologic Time Series Based on Nonparametric Random Generation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2005, 10, 395-404.	1.9	22
31	Spatial rainfall model using a pattern classifier for estimating missing daily rainfall data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 367-376.	4.0	22
32	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
33	Ensemble hydrological prediction of streamflow percentile at ungauged basins in Pakistan. <i>Journal of Hydrology</i> , 2015, 525, 130-137.	5.4	22
34	Probabilistic long-term hydrological drought forecast using Bayesian networks and drought propagation. <i>Meteorological Applications</i> , 2020, 27, e1827.	2.1	22
35	Comprehensive Drought Assessment Using a Modified Composite Drought index: A Case Study in Hubei Province, China. <i>Water (Switzerland)</i> , 2020, 12, 462.	2.7	22
36	Assessment of regional drought vulnerability and risk using principal component analysis and a Gaussian mixture model. <i>Natural Hazards</i> , 2021, 109, 707-724.	3.4	22

#	ARTICLE	IF	CITATIONS
37	Rainfall frequency analysis using a mixed GEV distribution: a case study for annual maximum rainfalls in South Korea. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 1143-1153.	4.0	21
38	Evolution of a parsimonious rainfall-runoff model using soil moisture proxies. <i>Journal of Hydrology</i> , 2015, 530, 623-633.	5.4	21
39	Probabilistic characteristics of lag time between meteorological and hydrological droughts using a Bayesian model. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2018, 29, 709-720.	0.6	21
40	Quantification of drought using a rectangular pulses Poisson process model. <i>Journal of Hydrology</i> , 2008, 355, 34-48.	5.4	20
41	A Bayesian Network-Based Probabilistic Framework for Drought Forecasting and Outlook. <i>Advances in Meteorology</i> , 2016, 2016, 1-10.	1.6	20
42	Precipitation threshold for urban flood warning - an analysis using the satellite-based flooded area and radar-gauge composite rainfall data. <i>Journal of Hydro-Environment Research</i> , 2020, 32, 48-61.	2.2	20
43	Influence of climate variation on seasonal precipitation in the Colorado River Basin. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008, 22, 411-420.	4.0	19
44	A CN-Based Ensembled Hydrological Model for Enhanced Watershed Runoff Prediction. <i>Water (Switzerland)</i> , 2016, 8, 20.	2.7	19
45	Probabilistic forecasting of drought: a hidden Markov model aggregated with the RCP 8.5 precipitation projection. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 1061-1076.	4.0	19
46	Remote Sensing-based Agricultural Drought Monitoring using Hydrometeorological Variables. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 5244-5256.	1.9	19
47	Application of copula functions to construct confidence intervals of bivariate drought frequency curve. <i>Journal of Hydro-Environment Research</i> , 2016, 11, 113-122.	2.2	17
48	Experimental Analysis of the Scour Pattern Modeling of Scour Depth Around Bridge Piers. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 4111-4130.	3.0	17
49	Bivariate drought frequency curves and confidence intervals: a case study using monthly rainfall generation. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 285-295.	4.0	16
50	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
51	Drought risk assessment for future climate projections in the Nakdong River Basin, Korea. <i>International Journal of Climatology</i> , 2020, 40, 4528-4540.	3.5	16
52	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
53	Assessment of drought vulnerability based on the soil moisture PDF. <i>Stochastic Environmental Research and Risk Assessment</i> , 2006, 21, 131-141.	4.0	15
54	System dynamics modeling approach to water supply system. <i>KSCE Journal of Civil Engineering</i> , 2008, 12, 275-280.	1.9	15

#	ARTICLE	IF	CITATIONS
55	Stochastic multi-site generation of daily rainfall occurrence in south Florida. Stochastic Environmental Research and Risk Assessment, 2008, 22, 705-717.	4.0	15
56	Hydrologic Risk Assessment of Future Extreme Drought in South Korea Using Bivariate Frequency Analysis. Water (Switzerland), 2019, 11, 2052.	2.7	15
57	Feasible Ranges of Runoff Curve Numbers for Korean Watersheds Based on the Interior Point Optimization Algorithm. KSCE Journal of Civil Engineering, 2019, 23, 5257-5265.	1.9	14
58	Assessment of Drought Risk in Korea: Focused on Data-based Drought Risk Map. Journal of the Korean Society of Civil Engineers, 2012, 32, 203-211.	0.1	14
59	Future Changes in Drought Characteristics under Extreme Climate Change over South Korea. Advances in Meteorology, 2016, 2016, 1-19.	1.6	13
60	Drought Risk Analysis Using Stochastic Rainfall Generation Model and Copula Functions. Journal of Korea Water Resources Association, 2013, 46, 425-437.	0.2	13
61	Spatial Characterization of Droughts in the Conchos River Basin Based on Bivariate Frequency Analysis. Water International, 2006, 31, 50-58.	1.0	12
62	Investigation of trend variations in annual maximum rainfalls in South Korea. KSCE Journal of Civil Engineering, 2012, 16, 215-221.	1.9	12
63	Application of Bayesian Markov Chain Monte Carlo method with mixed gumbel distribution to estimate extreme magnitude of tsunamigenic earthquake. KSCE Journal of Civil Engineering, 2015, 19, 366-375.	1.9	12
64	Development of a PCA-Based Vulnerability and Copula-Based Hazard Analysis for Assessing Regional Drought Risk. KSCE Journal of Civil Engineering, 2021, 25, 1901-1908.	1.9	12
65	Identifying the role of typhoons as drought busters in South Korea based on hidden Markov chain models. Geophysical Research Letters, 2015, 42, 2797-2804.	4.0	11
66	Multivariate Drought Assessment Considering the Antecedent Drought Conditions. Water Resources Management, 2016, 30, 4221-4231.	3.9	11
67	Development and evaluation of an extended inverse distance weighting method for streamflow estimation at an ungauged site. Hydrology Research, 2016, 47, 333-343.	2.7	11
68	Future Hydrological Drought Risk Assessment Based on Nonstationary Joint Drought Management Index. Water (Switzerland), 2019, 11, 532.	2.7	11
69	Changes in extreme rainfall and its implications for design rainfall using a Bayesian quantile regression approach. Hydrology Research, 2020, 51, 699-719.	2.7	11
70	Exploring the Factors Affecting Streamflow Conditions in the Han River Basin from a Regional Perspective. KSCE Journal of Civil Engineering, 2021, 25, 4931-4941.	1.9	11
71	Investigation of the Effects of Climate Variability, Anthropogenic Activities, and Climate Change on Streamflow Using Multi-Model Ensembles. Water (Switzerland), 2022, 14, 512.	2.7	11
72	Modern Techniques to Modeling Reference Evapotranspiration in a Semiarid Area Based on ANN and GEP Models. Water (Switzerland), 2022, 14, 1210.	2.7	11

#	ARTICLE	IF	CITATIONS
73	Comparing Spatial Interpolation Schemes for Constructing a Flow Duration Curve in an Ungauged Basin. <i>Water Resources Management</i> , 2015, 29, 2249-2265.	3.9	10
74	Constructing confidence intervals of extreme rainfall quantiles using Bayesian, bootstrap, and profile likelihood approaches. <i>Science China Technological Sciences</i> , 2016, 59, 573-585.	4.0	10
75	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
76	Evaluation of Future Flood Risk According to RCP Scenarios Using a Regional Flood Frequency Analysis for Ungauged Watersheds. <i>Water (Switzerland)</i> , 2019, 11, 992.	2.7	10
77	Projected drought risk assessment from water balance perspectives in a changing climate. <i>International Journal of Climatology</i> , 2021, 41, 2765-2777.	3.5	10
78	Integrated Drought Monitoring and Evaluation through Multi-Sensor Satellite-Based Statistical Simulation. <i>Remote Sensing</i> , 2021, 13, 272.	4.0	10
79	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
80	Assessment of Probabilistic Multi-Index Drought Using a Dynamic Naive Bayesian Classifier. <i>Water Resources Management</i> , 2018, 32, 4359-4374.	3.9	8
81	Modified analogue forecasting in the hidden Markov framework for meteorological droughts. <i>Science China Technological Sciences</i> , 2019, 62, 151-162.	4.0	8
82	Investigating practical alternatives to the NRCS-CN method for direct runoff estimation using slope-adjusted curve numbers. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 3022-3030.	1.9	7
83	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
84	Estimating Design Floods at Ungauged Watersheds in South Korea Using Machine Learning Models. <i>Water (Switzerland)</i> , 2020, 12, 3022.	2.7	7
85	Nonparametric approach for estimating effects of ENSO on return periods of droughts. <i>KSCE Journal of Civil Engineering</i> , 2003, 7, 629-636.	1.9	6
86	Stability assessment of the curve number methodology used to estimate excess rainfall in forest-dominated watersheds. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	6
87	Excess Stormwater Quantification in Ungauged Watersheds Using an Event-Based Modified NRCS Model. <i>Water Resources Management</i> , 2016, 30, 1433-1448.	3.9	6
88	Seasonal Relationship between El Nino-Southern Oscillation and Hydrologic Variables in Korea. <i>Journal of Korea Water Resources Association</i> , 2007, 40, 299-311.	0.2	6
89	Spatial and Temporal Variation of Annual and Categorized Precipitation in the Han River Basin, South Korea. <i>KSCE Journal of Civil Engineering</i> , 2022, 26, 1990-2001.	1.9	6
90	Improving the flow duration curve predictability at ungauged sites using a constrained hydrologic regression technique. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 3012-3021.	1.9	5

#	ARTICLE	IF	CITATIONS
91	Evaluation of Extended Inverse Distance Weighting Method for Constructing a Flow Duration Curve at Ungauged Basin. Korean Society of Hazard Mitigation, 2015, 15, 329-337.	0.2	5
92	Monthly precipitation forecasting using rescaling errors. KSCE Journal of Civil Engineering, 2006, 10, 137-143.	1.9	4
93	Comprehensive Climatological Drought Projection over South Korea under Climate Change. Procedia Engineering, 2016, 154, 284-290.	1.2	4
94	Estimating RESCON model parameters for efficient sediment flushing in a dam reservoir. Environmental Earth Sciences, 2019, 78, 1.	2.7	4
95	Evaluating the Hydrologic Risk of n-Year Floods According to RCP Scenarios. Water (Switzerland), 2021, 13, 1805.	2.7	4
96	Predicting Hydrological Drought Alert Levels Using Supervised Machine-Learning Classifiers. KSCE Journal of Civil Engineering, 2022, 26, 3019-3030.	1.9	4
97	Analysis of water conservation and wastewater treatment options in the Geum River basin, South Korea. KSCE Journal of Civil Engineering, 2009, 13, 471-477.	1.9	3
98	Estimation of return period and its uncertainty for the recent 2013-2015 drought in the Han River watershed in South Korea. Hydrology Research, 2018, 49, 1313-1329.	2.7	3
99	Probabilistic assessment of meteorological drought over South Korea under RCP scenarios using a hidden Markov model. KSCE Journal of Civil Engineering, 2018, 22, 365-372.	1.9	3
100	Determination of drought events considering the possibility of relieving drought and estimation of design drought severity. Journal of Korea Water Resources Association, 2016, 49, 275-282.	0.2	3
101	Development of a Comprehensive Flood Index through Standardizing Distributions of Runoff Characteristics. Journal of Korea Water Resources Association, 2008, 41, 605-617.	0.2	3
102	Potential implications of pre-storm soil moisture on hydrological prediction. Journal of Hydro-Environment Research, 2016, 11, 1-15.	2.2	2
103	Complementary Modeling Approach for Estimating Sedimentation and Hydraulic Flushing Parameters Using Artificial Neural Networks and RESCON2 Model. KSCE Journal of Civil Engineering, 2021, 25, 3766-3778.	1.9	2
104	Comparative Study on Calculation Method for Design Flood Discharge of Dam. Journal of Korea Water Resources Association, 2011, 44, 941-954.	0.2	2
105	Estimating Optimal Design Frequency and Future Hydrological Risk in Local River Basins According to RCP Scenarios. Water (Switzerland), 2022, 14, 945.	2.7	2
106	Development of a Multiple-Drought Index for Comprehensive Drought Risk Assessment Using a Dynamic Naive Bayesian Classifier. Water (Switzerland), 2022, 14, 1516.	2.7	2
107	Application of Bivariate Frequency Analysis for Estimating Design Rainfalls. , 2008, , ,		1
108	Development of Water Supply Plans Using System Dynamics Approach in the Han River Basin, South Korea. , 2010, , ,		1

#	ARTICLE	IF	CITATIONS
109	Improving the flow duration curve predictability at ungauged sites using a constrained hydrologic regression technique. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 3012.	1.9	1
110	Soil moisture dynamics with hydro-climatological parameters at different soil depths. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	1
111	Developing Drought Planning Components to Secure Community Resilience. <i>KSCE Journal of Civil Engineering</i> , 2020, 24, 336-343.	1.9	1
112	DYNAMIC NAIVE BAYES CLASSIFIER FOR HYDROLOGICAL DROUGHT RISK ASSESSMENT. , 2022, , .		1
113	Application of Regional Frequency Analysis to Non-Stationary Rainfalls in Korea. , 2010, , .		0
114	Evaluation of Probabilistic Storage Prediction Model (PSPM) for Optimal Reservoir Operation during a Drought. <i>Journal of Coastal Research</i> , 2017, 79, 314-318.	0.3	0
115	Integrated Quality Control Process for Hydrological Database: A Case Study of Daecheong Dam Basin in South Korea. <i>Water (Switzerland)</i> , 2021, 13, 2820.	2.7	0
116	Evaluation of Influence of Climate Variation on Typhoon-Induced Hydrologic Extremes: Focused on Five Major Basins in South Korea. <i>Korean Society of Hazard Mitigation</i> , 2013, 13, 191-200.	0.2	0
117	Statistical Frequency Analysis of Earthquake Data at East Sea Using Mixed Distribution Functions. <i>Korean Society of Hazard Mitigation</i> , 2013, 13, 347-354.	0.2	0
118	A COMPREHENSIVE APPROACH TO RESERVOIR SEDIMENTATION ESTIMATION AND MANAGEMENT FOR LOW HEAD DAMS USING MACHINE LEARNING AND CONSERVATION MODELLING. , 2022, , .		0