# Tae-Woong Kim

List of Publications by Year
in descending order

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Version: 2024-02-01

| | | 293460 | 252626 |
|---|---|---|---|
| 118 | 2,760 | 24 | 46 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 118 | 118 | 118 | 2628 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Evaluation of Machine Learning Techniques for Hydrological Drought Modeling: A Case Study of the Wadi Ouahrane Basin in Algeria. Water (Switzerland), 2022, 14, 431. | 1.2 | 27 |
| 2 | Spatial and Temporal Variation of Annual and Categorized Precipitation in the Han River Basin, South Korea. KSCE Journal of Civil Engineering, 2022, 26, 1990-2001. | 0.9 | 6 |
| 3 | Investigation of the Effects of Climate Variability, Anthropogenic Activities, and Climate Change on Streamflow Using Multi-Model Ensembles. Water (Switzerland), 2022, 14, 512. | 1.2 | 11 |
| 4 | Predicting Hydrological Drought Alert Levels Using Supervised Machine-Learning Classifiers. KSCE Journal of Civil Engineering, 2022, 26, 3019-3030. | 0.9 | 4 |
| 5 | Estimating Optimal Design Frequency and Future Hydrological Risk in Local River Basins According to RCP Scenarios. Water (Switzerland), 2022, 14, 945. | 1.2 | 2 |
| 6 | Modern Techniques to Modeling Reference Evapotranspiration in a Semiarid Area Based on ANN and GEP Models. Water (Switzerland), 2022, 14, 1210. | 1.2 | 11 |
| 7 | A COMPREHENSIVE APPROACH TO RESERVOIR SEDIMENTATION ESTIMATION AND MANAGEMENT FOR LOW HEAD DAMS USING MACHINE LEARNING AND CONSERVATION MODELLING. , 2022, , . | | 0 |
| 8 | DYNAMIC NAIVE BAYES CLASSIFIER FOR HYDROLOGICAL DROUGHT RISK ASSESSMENT. , 2022, , . | | 1 |
| 9 | Development of a Multiple-Drought Index for Comprehensive Drought Risk Assessment Using a Dynamic Naive Bayesian Classifier. Water (Switzerland), 2022, 14, 1516. | 1.2 | 2 |
| 10 | Projected drought risk assessment from water balance perspectives in a changing climate. International Journal of Climatology, 2021, 41, 2765-2777. | 1.5 | 10 |
| 11 | 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. | 0.9 | 12 |
| 12 | Comprehensive evaluation of machine learning models for suspended sediment load inflow prediction in a reservoir. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1805-1823. | 1.9 | 25 |
| 13 | Drought in South Asia: A Review of Drought Assessment and Prediction in South Asian Countries. Atmosphere, 2021, 12, 369. | 1.0 | 39 |
| 14 | Evaluating the Hydrologic Risk of n-Year Floods According to RCP Scenarios. Water (Switzerland), 2021, 13, 1805. | 1.2 | 4 |
| 15 | 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. | 0.9 | 2 |
| 16 | Assessment of regional drought vulnerability and risk using principal component analysis and a Gaussian mixture model. Natural Hazards, 2021, 109, 707-724. | 1.6 | 22 |
| 17 | Comprehensive Evaluation of Machine Learning Techniques for Hydrological Drought Forecasting. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, . | 0.6 | 25 |
| 18 | Exploring the Factors Affecting Streamflow Conditions in the Han River Basin from a Regional Perspective. KSCE Journal of Civil Engineering, 2021, 25, 4931-4941. | 0.9 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Reassessing the frequency and severity of meteorological drought considering non-stationarity and copula-based bivariate probability. Journal of Hydrology, 2021, 603, 126948. | 2.3 | 26 |
| 20 | Integrated Drought Monitoring and Evaluation through Multi-Sensor Satellite-Based Statistical Simulation. Remote Sensing, 2021, 13, 272. | 1.8 | 10 |
| 21 | Integrated Quality Control Process for Hydrological Database: A Case Study of Daecheong Dam Basin in South Korea. Water (Switzerland), 2021, 13, 2820. | 1.2 | 0 |
| 22 | Probabilistic longâ€term hydrological drought forecast using Bayesian networks and drought propagation. Meteorological Applications, 2020, 27, e1827. | 0.9 | 22 |
| 23 | Investigating effect of climate change on drought propagation from meteorological to hydrological drought using multi-model ensemble projections. Stochastic Environmental Research and Risk Assessment, 2020, 34, 7-21. | 1.9 | 81 |
| 24 | Developing Drought Planning Components to Secure Community Resilience. KSCE Journal of Civil Engineering, 2020, 24, 336-343. | 0.9 | 1 |
| 25 | Application of the Hidden Markov Bayesian Classifier and Propagation Concept for Probabilistic Assessment of Meteorological and Hydrological Droughts in South Korea. Atmosphere, 2020, 11, 1000. | 1.0 | 16 |
| 26 | Precipitation threshold for urban flood warning - an analysis using the satellite-based flooded area and radar-gauge composite rainfall data. Journal of Hydro-Environment Research, 2020, 32, 48-61. | 1.0 | 20 |
| 27 | Drought Risk Analysis, Forecasting and Assessment under Climate Change. Water (Switzerland), 2020, 12, 1862. | 1.2 | 51 |
| 28 | Changes in extreme rainfall and its implications for design rainfall using a Bayesian quantile regression approach. Hydrology Research, 2020, 51, 699-719. | 1.1 | 11 |
| 29 | Estimating Design Floods at Ungauged Watersheds in South Korea Using Machine Learning Models. Water (Switzerland), 2020, 12, 3022. | 1.2 | 7 |
| 30 | Investigating the impacts of climate change and human activities on hydrological drought using non-stationary approaches. Journal of Hydrology, 2020, 588, 125052. | 2.3 | 80 |
| 31 | A Pragmatic Slope-Adjusted Curve Number Model to Reduce Uncertainty in Predicting Flood Runoff from Steep Watersheds. Water (Switzerland), 2020, 12, 1469. | 1.2 | 29 |
| 32 | Comprehensive Drought Assessment Using a Modified Composite Drought index: A Case Study in Hubei Province, China. Water (Switzerland), 2020, 12, 462. | 1.2 | 22 |
| 33 | Drought risk assessment for future climate projections in the Nakdong River Basin, Korea. International Journal of Climatology, 2020, 40, 4528-4540. | 1.5 | 16 |
| 34 | Exploring the influence of climate change-induced drought propagation on wetlands. Ecological Engineering, 2020, 149, 105799. | 1.6 | 41 |
| 35 | Investigating the influence of natural events and anthropogenic activities on hydrological drought in South Korea. Terrestrial, Atmospheric and Oceanic Sciences, 2020, 31, 85-96. | 0.3 | 16 |
| 36 | Hydrologic Risk Assessment of Future Extreme Drought in South Korea Using Bivariate Frequency Analysis. Water (Switzerland), 2019, 11, 2052. | 1.2 | 15 |

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|---|---|---|---|
| 37 | Remote Sensing-based Agricultural Drought Monitoring using Hydrometeorological Variables. KSCE Journal of Civil Engineering, 2019, 23, 5244-5256. | 0.9 | 19 |
| 38 | 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. | 0.9 | 14 |
| 39 | Evaluation of Future Flood Risk According to RCP Scenarios Using a Regional Flood Frequency Analysis for Ungauged Watersheds. Water (Switzerland), 2019, 11, 992. | 1.2 | 10 |
| 40 | Probabilistic Characteristics of Drought Propagation from Meteorological to Hydrological Drought in South Korea. Water Resources Management, 2019, 33, 2439-2452. | 1.9 | 62 |
| 41 | Future Hydrological Drought Risk Assessment Based on Nonstationary Joint Drought Management Index. Water (Switzerland), 2019, 11, 532. | 1.2 | 11 |
| 42 | Estimating RESCON model parameters for efficient sediment flushing in a dam reservoir. Environmental Earth Sciences, 2019, 78, 1. | 1.3 | 4 |
| 43 | Modified analogue forecasting in the hidden Markov framework for meteorological droughts. Science China Technological Sciences, 2019, 62, 151-162. | 2.0 | 8 |
| 44 | Estimation of return period and its uncertainty for the recent 2013â€“2015 drought in the Han River watershed in South Korea. Hydrology Research, 2018, 49, 1313-1329. | 1.1 | 3 |
| 45 | 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. | 0.9 | 3 |
| 46 | Assessment of regional drought risk under climate change using bivariate frequency analysis. Stochastic Environmental Research and Risk Assessment, 2018, 32, 3439-3453. | 1.9 | 7 |
| 47 | Assessment of Probabilistic Multi-Index Drought Using a Dynamic Naive Bayesian Classifier. Water Resources Management, 2018, 32, 4359-4374. | 1.9 | 8 |
| 48 | Investigation of drought propagation in South Korea using drought index and conditional probability. Terrestrial, Atmospheric and Oceanic Sciences, 2018, 29, 231-241. | 0.3 | 27 |
| 49 | Probabilistic characteristics of lag time between meteorological and hydrological droughts using a Bayesian model. Terrestrial, Atmospheric and Oceanic Sciences, 2018, 29, 709-720. | 0.3 | 21 |
| 50 | Experimental Analysis of the Scour Pattern Modeling of Scour Depth Around Bridge Piers. Arabian Journal for Science and Engineering, 2017, 42, 4111-4130. | 1.7 | 17 |
| 51 | Probabilistic forecasting of drought: a hidden Markov model aggregated with the RCP 8.5 precipitation projection. Stochastic Environmental Research and Risk Assessment, 2017, 31, 1061-1076. | 1.9 | 19 |
| 52 | Evaluation of Probabilistic Storage Prediction Model (PSPM) for Optimal Reservoir Operation during a Drought. Journal of Coastal Research, 2017, 79, 314-318. | 0.1 | 0 |
| 53 | Future Changes in Drought Characteristics under Extreme Climate Change over South Korea. Advances in Meteorology, 2016, 2016, 1-19. | 0.6 | 13 |
| 54 | A Bayesian Network-Based Probabilistic Framework for Drought Forecasting and Outlook. Advances in Meteorology, 2016, 2016, 1-10. | 0.6 | 20 |

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| 55 | A CN-Based Ensembled Hydrological Model for Enhanced Watershed Runoff Prediction. Water (Switzerland), 2016, 8, 20. | 1.2 | 19 |
| 56 | Multivariate Drought Assessment Considering the Antecedent Drought Conditions. Water Resources Management, 2016, 30, 4221-4231. | 1.9 | 11 |
| 57 | Investigating practical alternatives to the NRCS-CN method for direct runoff estimation using slope-adjusted curve numbers. KSCE Journal of Civil Engineering, 2016, 20, 3022-3030. | 0.9 | 7 |
| 58 | Improving the flow duration curve predictability at ungauged sites using a constrained hydrologic regression technique. KSCE Journal of Civil Engineering, 2016, 20, 3012-3021. | 0.9 | 5 |
| 59 | Constructing confidence intervals of extreme rainfall quantiles using Bayesian, bootstrap, and profile likelihood approaches. Science China Technological Sciences, 2016, 59, 573-585. | 2.0 | 10 |
| 60 | Stability assessment of the curve number methodology used to estimate excess rainfall in forest-dominated watersheds. Arabian Journal of Geosciences, 2016, 9, 1. | 0.6 | 6 |
| 61 | Comprehensive Climatological Drought Projection over South Korea under Climate Change. Procedia Engineering, 2016, 154, 284-290. | 1.2 | 4 |
| 62 | Development and evaluation of an extended inverse distance weighting method for streamflow estimation at an ungauged site. Hydrology Research, 2016, 47, 333-343. | 1.1 | 11 |
| 63 | Application of copula functions to construct confidence intervals of bivariate drought frequency curve. Journal of Hydro-Environment Research, 2016, 11, 113-122. | 1.0 | 17 |
| 64 | Improving the flow duration curve predictability at ungauged sites using a constrained hydrologic regression technique. KSCE Journal of Civil Engineering, 2016, 20, 3012. | 0.9 | 1 |
| 65 | Potential implications of pre-storm soil moisture on hydrological prediction. Journal of Hydro-Environment Research, 2016, 11, 1-15. | 1.0 | 2 |
| 66 | Excess Stormwater Quantification in Ungauged Watersheds Using an Event-Based Modified NRCS Model. Water Resources Management, 2016, 30, 1433-1448. | 1.9 | 6 |
| 67 | Hydrological modeling to simulate streamflow under changing climate in a scarcely gauged cryosphere catchment. Environmental Earth Sciences, 2016, 75, 1. | 1.3 | 33 |
| 68 | Soil moisture dynamics with hydro-climatological parameters at different soil depths. Environmental Earth Sciences, 2016, 75, 1. | 1.3 | 1 |
| 69 | Runoff Estimation Using the NRCS Slope-Adjusted Curve Number in Mountainous Watersheds. Journal of Irrigation and Drainage Engineering - ASCE, 2016, 142, . | 0.6 | 24 |
| 70 | Non-stationary frequency analysis of extreme precipitation in South Korea using peaks-over-threshold and annual maxima. Stochastic Environmental Research and Risk Assessment, 2016, 30, 583-606. | 1.9 | 71 |
| 71 | Influence of evapotranspiration on future drought risk using bivariate drought frequency curves. KSCE Journal of Civil Engineering, 2016, 20, 2059-2069. | 0.9 | 10 |
| 72 | 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. | 0.3 | 3 |

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| 73 | Identifying the role of typhoons as drought busters in South Korea based on hidden Markov chain models. Geophysical Research Letters, 2015, 42, 2797-2804. | 1.5 | 11 |
| 74 | 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. | 0.9 | 12 |
| 75 | Investigation of SCS-CN and its inspired modified models for runoff estimation in South Korean watersheds. Journal of Hydro-Environment Research, 2015, 9, 592-603. | 1.0 | 55 |
| 76 | Improved Runoff Estimation Using Event-Based Rainfall-Runoff Models. Water Resources Management, 2015, 29, 1995-2010. | 1.9 | 46 |
| 77 | Comparing Spatial Interpolation Schemes for Constructing a Flow Duration Curve in an Ungauged Basin. Water Resources Management, 2015, 29, 2249-2265. | 1.9 | 10 |
| 78 | Development of a new composite drought index for multivariate drought assessment. Journal of Hydrology, 2015, 527, 30-37. | 2.3 | 94 |
| 79 | Ensemble hydrological prediction of streamflow percentile at ungauged basins in Pakistan. Journal of Hydrology, 2015, 525, 130-137. | 2.3 | 22 |
| 80 | Evolution of a parsimonious rainfallâ€“runoff model using soil moisture proxies. Journal of Hydrology, 2015, 530, 623-633. | 2.3 | 21 |
| 81 | Assessment of drought hazard, vulnerability, and risk: A case study forÂadministrative districts in South Korea. Journal of Hydro-Environment Research, 2015, 9, 28-35. | 1.0 | 111 |
| 82 | Quantifying Excess Stormwater Using SCS-CNâ€“Based Rainfall Runoff Models and Different Curve Number Determination Methods. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, . | 0.6 | 48 |
| 83 | 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. | 0.1 | 5 |
| 84 | Bivariate drought frequency curves and confidence intervals: a case study using monthly rainfall generation. Stochastic Environmental Research and Risk Assessment, 2013, 27, 285-295. | 1.9 | 16 |
| 85 | Rainfall frequency analysis using a mixed GEV distribution: a case study for annual maximum rainfalls in South Korea. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1143-1153. | 1.9 | 21 |
| 86 | Drought Risk Analysis Using Stochastic Rainfall Generation Model and Copula Functions. Journal of Korea Water Resources Association, 2013, 46, 425-437. | 0.3 | 13 |
| 87 | Evaluation of Influence of Climate Variation on Typhoon-Induced Hydrologic Extremes: Focused on Five Major Basins in South Korea. Korean Society of Hazard Mitigation, 2013, 13, 191-200. | 0.1 | 0 |
| 88 | Statistical Frequency Analysis of Earthquake Data at East Sea Using Mixed Distribution Functions. Korean Society of Hazard Mitigation, 2013, 13, 347-354. | 0.1 | 0 |
| 89 | Spatio-temporal analysis of extreme precipitation regimes across South Korea and its application to regionalization. Journal of Hydro-Environment Research, 2012, 6, 101-110. | 1.0 | 22 |
| 90 | Drought frequency analysis using cluster analysis and bivariate probability distribution. Journal of Hydrology, 2012, 420-421, 102-111. | 2.3 | 71 |

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|---|---|---|---|
| 91 | Investigation of trend variations in annual maximum rainfalls in South Korea. KSCE Journal of Civil Engineering, 2012, 16, 215-221. | 0.9 | 12 |
| 92 | Constructing rainfall depth-frequency curves considering a linear trend in rainfall observations. Stochastic Environmental Research and Risk Assessment, 2012, 26, 419-427. | 1.9 | 8 |
| 93 | 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 |
| 94 | Application of spatial EOF and multivariate time series model for evaluating agricultural drought vulnerability in Korea. Advances in Water Resources, 2011, 34, 340-350. | 1.7 | 35 |
| 95 | Comparative Study on Calculation Method for Design Flood Discharge of Dam. Journal of Korea Water Resources Association, 2011, 44, 941-954. | 0.3 | 2 |
| 96 | Application of bivariate frequency analysis to the derivation of rainfallâ€“frequency curves. Stochastic Environmental Research and Risk Assessment, 2010, 24, 389-397. | 1.9 | 29 |
| 97 | Application of Regional Frequency Analysis to Non-Stationary Rainfalls in Korea. , 2010, , . | | 0 |
| 98 | Development of Water Supply Plans Using System Dynamics Approach in the Han River Basin, South Korea. , 2010, , . | | 1 |
| 99 | Spatial rainfall model using a pattern classifier for estimating missing daily rainfall data. Stochastic Environmental Research and Risk Assessment, 2009, 23, 367-376. | 1.9 | 22 |
| 100 | Analysis of water conservation and wastewater treatment options in the Geum River basin, South Korea. KSCE Journal of Civil Engineering, 2009, 13, 471-477. | 0.9 | 3 |
| 101 | System dynamics modeling approach to water supply system. KSCE Journal of Civil Engineering, 2008, 12, 275-280. | 0.9 | 15 |
| 102 | Influence of climate variation on seasonal precipitation in the Colorado River Basin. Stochastic Environmental Research and Risk Assessment, 2008, 22, 411-420. | 1.9 | 19 |
| 103 | Stochastic multi-site generation of daily rainfall occurrence in south Florida. Stochastic Environmental Research and Risk Assessment, 2008, 22, 705-717. | 1.9 | 15 |
| 104 | Quantification of drought using a rectangular pulses Poisson process model. Journal of Hydrology, 2008, 355, 34-48. | 2.3 | 20 |
| 105 | Application of Bivariate Frequency Analysis for Estimating Design Rainfalls. , 2008, , . | | 1 |
| 106 | Development of a Comprehensive Flood Index through Standardizing Distributions of Runoff Characteristics. Journal of Korea Water Resources Association, 2008, 41, 605-617. | 0.3 | 3 |
| 107 | Seasonal Relationship between El Nino-Southern Oscillation and Hydrologic Variables in Korea. Journal of Korea Water Resources Association, 2007, 40, 299-311. | 0.3 | 6 |
| 108 | Spatial Characterization of Droughts in the Conchos River Basin Based on Bivariate Frequency Analysis. Water International, 2006, 31, 50-58. | 0.4 | 12 |

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| 109 | Quantification of linkages between large-scale climatic patterns and precipitation in the Colorado River Basin. Journal of Hydrology, 2006, 321, 173-186. | 2.3 | 52 |
| 110 | Assessment of drought vulnerability based on the soil moisture PDF. Stochastic Environmental Research and Risk Assessment, 2006, 21, 131-141. | 1.9 | 15 |
| 111 | Monthly precipitation forecasting using rescaling errors. KSCE Journal of Civil Engineering, 2006, 10, 137-143. | 0.9 | 4 |
| 112 | Nonparametric Approach for Bivariate Drought Characterization Using Palmer Drought Index. Journal of Hydrologic Engineering - ASCE, 2006, 11, 134-143. | 0.8 | 72 |
| 113 | Rainfall frequency analysis using a mixed Gamma distribution: evaluation of the global warming effect on daily rainfall. Hydrological Processes, 2005, 19, 3851-3861. | 1.1 | 44 |
| 114 | Synthetic Generation of Hydrologic Time Series Based on Nonparametric Random Generation. Journal of Hydrologic Engineering - ASCE, 2005, 10, 395-404. | 0.8 | 22 |
| 115 | Nonparametric approach for estimating effects of ENSO on return periods of droughts. KSCE Journal of Civil Engineering, 2003, 7, 629-636. | 0.9 | 6 |
| 116 | Nonparametric Approach for Estimating Return Periods of Droughts in Arid Regions. Journal of Hydrologic Engineering - ASCE, 2003, 8, 237-246. | 0.8 | 129 |
| 117 | Nonlinear Model for Drought Forecasting Based on a Conjunction of Wavelet Transforms and Neural Networks. Journal of Hydrologic Engineering - ASCE, 2003, 8, 319-328. | 0.8 | 360 |
| 118 | Frequency and Spatial Characteristics of Droughts in the Conchos River Basin, Mexico. Water International, 2002, 27, 420-430. | 0.4 | 76 |