

# Hung Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

110  
papers

1,280  
citations

489802

18  
h-index

511568

30  
g-index

113  
all docs

113  
docs citations

113  
times ranked

1291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative analysis of long short-term memory and storage function model for flood water level forecasting of Bokha stream in NamHan River, Korea. <i>Journal of Hydrology</i> , 2022, 606, 127415.	2.3	24
2	Determining the Risk Level of Heavy Rain Damage by Region in South Korea. <i>Water (Switzerland)</i> , 2022, 14, 219.	1.2	3
3	Improvement of Deep Learning Models for River Water Level Prediction Using Complex Network Method. <i>Water (Switzerland)</i> , 2022, 14, 466.	1.2	10
4	Mega Flood Inundation Analysis and the Selection of Optimal Shelters. <i>Water (Switzerland)</i> , 2022, 14, 1031.	1.2	2
5	On Hypsometric Curve and Morphological Analysis of the Collapsed Irrigation Reservoirs. <i>Water (Switzerland)</i> , 2022, 14, 907.	1.2	2
6	Inundation Analysis of Coastal Urban Area under Climate Change Scenarios. <i>Water (Switzerland)</i> , 2022, 14, 1159.	1.2	3
7	Chaotic Features of Decomposed Time Series from Tidal River Water Level. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 199.	1.3	3
8	Case Study: Development of the CNN Model Considering Teleconnection for Spatial Downscaling of Precipitation in a Climate Change Scenario. <i>Sustainability</i> , 2022, 14, 4719.	1.6	7
9	Development of Simple Method for Flood Control Capacity Estimation of Dam in South Korea. <i>Water (Switzerland)</i> , 2022, 14, 1366.	1.2	0
10	Development of a Deep Learning-Based Prediction Model for Water Consumption at the Household Level. <i>Water (Switzerland)</i> , 2022, 14, 1512.	1.2	7
11	Utilizing inactive storage in a dam reservoir during extreme drought periods. <i>E3S Web of Conferences</i> , 2022, 346, 01015.	0.2	0
12	Application of Deep Learning Models and Network Method for Comprehensive Air-Quality Index Prediction. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6699.	1.3	10
13	A case study: bivariate drought identification on the Andong dam, South Korea. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 549-560.	1.9	5
14	Stream gauge network grouping analysis using community detection. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 781-795.	1.9	11
15	Case study: On hydrological function improvement for an endemic plant habitat in Gangcheon wetland, Korea. <i>Ecological Engineering</i> , 2021, 160, 106028.	1.6	3
16	A synthetic equation for storage function model parameter estimation based on kinematic wave approximation. <i>Hydrological Sciences Journal</i> , 2021, 66, 544-554.	1.2	2
17	Deep Learning with Long Short Term Memory Based Sequence-to-Sequence Model for Rainfall-Runoff Simulation. <i>Water (Switzerland)</i> , 2021, 13, 437.	1.2	28
18	Analysis of Small Hydropower Generation Potential: (1) Estimation of the Potential in Ungaged Basins. <i>Energies</i> , 2021, 14, 2977.	1.6	5

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19	Analysis of Small Hydropower Generation Potential: (2) Future Prospect of the Potential under Climate Change. <i>Energies</i> , 2021, 14, 3001.	1.6	10
20	Machine Learning-Based Small Hydropower Potential Prediction under Climate Change. <i>Energies</i> , 2021, 14, 3643.	1.6	19
21	Flood Stage Forecasting at the Gurye-Gyo Station in Sumjin River Using LSTM-Based Deep Learning Models. <i>Korean Society of Hazard Mitigation</i> , 2021, 21, 193-201.	0.1	0
22	Complex networks and integrated centrality measure to assess the importance of streamflow stations in a River basin. <i>Journal of Hydrology</i> , 2021, 598, 126280.	2.3	14
23	Multiple-Depth Soil Moisture Estimates Using Artificial Neural Network and Long Short-Term Memory Models. <i>Water (Switzerland)</i> , 2021, 13, 2584.	1.2	10
24	Construction of rating curve at high water level considering rainfall effect in a tidal river. <i>Journal of Hydrology: Regional Studies</i> , 2021, 37, 100907.	1.0	4
25	Prediction of Heavy Rain Damage Using Deep Learning. <i>Water (Switzerland)</i> , 2020, 12, 1942.	1.2	17
26	Case Study: Reconstruction of Runoff Series of Hydrological Stations in the Nakdong River, Korea. <i>Water (Switzerland)</i> , 2020, 12, 3461.	1.2	2
27	Estimation of Temperature Recovery Distance and the Influence of Heat Pump Discharge on Fluvial Ecosystems. <i>Water (Switzerland)</i> , 2020, 12, 949.	1.2	2
28	Modified hydrogeomorphic approach for estimating quantitative change of riverine wetland functions. <i>Ecological Engineering</i> , 2020, 152, 105876.	1.6	6
29	Development of Water Level Prediction Models Using Machine Learning in Wetlands: A Case Study of Upo Wetland in South Korea. <i>Water (Switzerland)</i> , 2020, 12, 93.	1.2	68
30	Improvement of Regional Clustering Using Flood Control Characteristics and t-SNE of Machine Learning. <i>Korean Society of Hazard Mitigation</i> , 2020, 20, 247-257.	0.1	0
31	Analysis of Morphological Characteristics of Collapsed Reservoirs in Korea. <i>Korean Society of Hazard Mitigation</i> , 2020, 20, 207-216.	0.1	2
32	On Complex Network Construction of Rain Gauge Stations Considering Nonlinearity of Observed Daily Rainfall Data. <i>Water (Switzerland)</i> , 2019, 11, 1578.	1.2	14
33	Assessment of a Stream Gauge Network Using Upstream and Downstream Runoff Characteristics and Entropy. <i>Entropy</i> , 2019, 21, 673.	1.1	6
34	A Bayesian Network-Based Integrated for Flood Risk Assessment (InFRA). <i>Sustainability</i> , 2019, 11, 3733.	1.6	20
35	Optimal Stream Gauge Network Design Using Entropy Theory and Importance of Stream Gauge Stations. <i>Entropy</i> , 2019, 21, 991.	1.1	12
36	Hydrological Modeling Approach Using Radar-Rainfall Ensemble and Multi-Runoff-Model Blending Technique. <i>Water (Switzerland)</i> , 2019, 11, 850.	1.2	11

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37	Combination of Structural Measures for Flood Prevention in Anyangcheon River Basin, South Korea. <i>Water (Switzerland)</i> , 2019, 11, 2268.	1.2	8
38	Development of Combined Heavy Rain Damage Prediction Models with Machine Learning. <i>Water (Switzerland)</i> , 2019, 11, 2516.	1.2	9
39	Monthly Inflow Forecasting of Soyang River Dam Using VARMA and Machine Learning Models. <i>Journal of Climate Research</i> , 2019, 14, 183-198.	0.1	4
40	Feasibility Study on the Use of River Water Hydrothermal Energy in Korea : (2) Impact Assessment of the Change in Water Temperature of Return Flow on the River Environment. <i>New &amp; Renewable Energy</i> , 2019, 15, 9-17.	0.1	1
41	Evaluation of Disaster Prevention Capability Improved Through Investment of Recovery Cost. <i>Korean Society of Hazard Mitigation</i> , 2019, 19, 23-32.	0.1	1
42	Determination of Investment Priority for Flood Control Using Flood Risk and Economic Assessments. <i>Korean Society of Hazard Mitigation</i> , 2019, 19, 291-301.	0.1	1
43	Developing a Prediction Model (Heavy Rain Damage Occurrence Probability) Based on Machine Learning. <i>Korean Society of Hazard Mitigation</i> , 2019, 19, 115-127.	0.1	2
44	Impact Assessment of Natural Disaster Damage on the National Economy Using the Input-Output Model. <i>Korean Society of Hazard Mitigation</i> , 2019, 19, 129-137.	0.1	1
45	Estimations of Hazard-Triggering Rainfall and Breach Discharge of Aging Reservoir. <i>Korean Society of Hazard Mitigation</i> , 2019, 19, 421-432.	0.1	7
46	Sustainable Development of Water Resources: Spatio-Temporal Analysis of Water Stress in South Korea. <i>Sustainability</i> , 2018, 10, 3795.	1.6	7
47	Decomposition of Water Level Time Series of a Tidal River into Tide, Wave and Rainfall-Runoff Components. <i>Water (Switzerland)</i> , 2018, 10, 1568.	1.2	11
48	Development of Heavy Rain Damage Prediction Model Using Machine Learning Based on Big Data. <i>Advances in Meteorology</i> , 2018, 2018, 1-11.	0.6	45
49	Case Study: On Objective Functions for the Peak Flow Calibration and for the Representative Parameter Estimation of the Basin. <i>Water (Switzerland)</i> , 2018, 10, 614.	1.2	5
50	Feasibility Study on the Use of River Water Hydrothermal Energy in Korea : (1) Estimation of the Permitted Standard Discharge and Determination of the Potential Water Intake Area. <i>New &amp; Renewable Energy</i> , 2018, 14, 27-37.	0.1	5
51	Development of Heavy Rain Damage Prediction Functions in the Seoul Capital Area Using Machine Learning Techniques. <i>Korean Society of Hazard Mitigation</i> , 2018, 18, 435-447.	0.1	6
52	Development of a Heavy Rain Damage Prediction Function by Risk Classification. <i>Korean Society of Hazard Mitigation</i> , 2018, 18, 503-512.	0.1	2
53	Estimation of Expected Flood Damage in Seom River Basin Considering Climate Change. , 2017, , .		0
54	Assessment of hydrological regimes for vegetation on riparian wetlands in Han River Basin, Korea. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 1055-1067.	0.3	6

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55	Damage Prediction Using Heavy Rain Risk Assessment: (1) Estimation of Heavy Rain Damage Risk Index. Korean Society of Hazard Mitigation, 2017, 17, 361-370.	0.1	9
56	Damage Prediction Using Heavy Rain Risk Assessment: (2) Development of Heavy Rain Damage Prediction Function. Korean Society of Hazard Mitigation, 2017, 17, 371-379.	0.1	14
57	Development of Heavy Rain Damage Prediction Function Using Statistical Methodology. Korean Society of Hazard Mitigation, 2017, 17, 331-338.	0.1	13
58	Development of Heavy Rain Damage Prediction Function for Public Facility Using Machine Learning. Korean Society of Hazard Mitigation, 2017, 17, 443-450.	0.1	14
59	Assessment of the Impacts of Global Climate Change and Regional Water Projects on Streamflow Characteristics in the Geum River Basin in Korea. Water (Switzerland), 2016, 8, 91.	1.2	17
60	Long-Term Simulation of Daily Streamflow Using Radar Rainfall and the SWAT Model: A Case Study of the Gamcheon Basin of the Nakdong River, Korea. Advances in Meteorology, 2016, 2016, 1-12.	0.6	9
61	Statistical Modeling of Hydroclimatological Processes. Advances in Meteorology, 2016, 2016, 1-2.	0.6	0
62	Assessment of Meteorological Drought in Korea under Climate Change. Advances in Meteorology, 2016, 2016, 1-13.	0.6	21
63	Bivariate Drought Analysis Using Streamflow Reconstruction with Tree Ring Indices in the Sacramento Basin, California, USA. Water (Switzerland), 2016, 8, 122.	1.2	11
64	Urban Drainage System Improvement for Climate Change Adaptation. Water (Switzerland), 2016, 8, 268.	1.2	34
65	A comparative study on a simple two-parameter monthly water balance model and the Kajiyama formula for monthly runoff estimation. Hydrological Sciences Journal, 2016, , 1-9.	1.2	5
66	Nearest Neighbor Genetic Algorithm for Downscaling of Climate Change Data from GCMs. Journal of Applied Meteorology and Climatology, 2016, 55, 773-789.	0.6	3
67	Mega Flood Simulation Assuming Successive Extreme Rainfall Events. Journal of Wetlands Research, 2016, 18, 76-83.	0.2	6
68	A Review on the Management of Water Resources Information based on Big Data and Cloud Computing. Journal of Wetlands Research, 2016, 18, 100-112.	0.2	10
69	Analysis of Future Meteorological Drought Index Considering Climate Change in Han-River Basin. Journal of Wetlands Research, 2016, 18, 432-447.	0.2	8
70	Statistical analysis of hazen-williams C and influencing factors in multi-regional water supply system. Journal of Korea Water Resources Association, 2016, 49, 399-410.	0.3	1
71	Water temperature assessment on the small ecological stream under climate change. Journal of Wetlands Research, 2016, 18, 313-323.	0.2	0
72	Multi-site calibration using a grid-based event rainfall-runoff model: a case study of the upstream areas of the Nakdong River basin in Korea. Hydrological Processes, 2015, 29, 2089-2099.	1.1	21

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73	Application of the Entropy Method to Select Calibration Sites for Hydrological Modeling. Water (Switzerland), 2015, 7, 6719-6735.	1.2	7
74	Scrub Typhus Incidence Modeling with Meteorological Factors in South Korea. International Journal of Environmental Research and Public Health, 2015, 12, 7254-7273.	1.2	30
75	Identifying and Evaluating Chaotic Behavior in Hydro-Meteorological Processes. Advances in Meteorology, 2015, 2015, 1-12.	0.6	3
76	Analysis of Drought Length using the BDS statistic and Close Returns Test. KSCE Journal of Civil Engineering, 2015, 19, 446-455.	0.9	3
77	Impact of climate change on hydrological droughts in the upper Namhan River basin, Korea. KSCE Journal of Civil Engineering, 2015, 19, 376-384.	0.9	10
78	Applicability of Spatial Interpolation Methods for the Estimation of Rainfall Field. Journal of Wetlands Research, 2015, 17, 370-379.	0.2	3
79	Regional Frequency Analysis for Future Precipitation from RCP Scenarios. Journal of Wetlands Research, 2015, 17, 80-90.	0.2	3
80	Flood Damage Reduction Plan Using HEC-FDA Model. Journal of Wetlands Research, 2015, 17, 237-244.	0.2	2
81	Water Quality Analysis of Hongcheon River Basin Under Climate Change. Journal of Wetlands Research, 2015, 17, 348-358.	0.2	3
82	Future Climate Data from RCP 4.5 and Occurrence of Malaria in Korea. International Journal of Environmental Research and Public Health, 2014, 11, 10587-10605.	1.2	7
83	Sensitivity of Subjective Decisions in the GLUE Methodology for Quantifying the Uncertainty in the Flood Inundation Map for Seymour Reach in Indiana, USA. Water (Switzerland), 2014, 6, 2104-2126.	1.2	7
84	Noise Reduction Analysis of Radar Rainfall Using Chaotic Dynamics and Filtering Techniques. Advances in Meteorology, 2014, 2014, 1-10.	0.6	7
85	A Regionalization of Downscaled GCM Data Considering Geographical Features in a Mountainous Area. Advances in Meteorology, 2014, 2014, 1-14.	0.6	1
86	Modeling Nonlinear Monthly Evapotranspiration Using Soft Computing and Data Reconstruction Techniques. Water Resources Management, 2014, 28, 185-206.	1.9	20
87	Assessment of future water resources and water scarcity considering the factors of climate change and social environmental change in Han River basin, Korea. Stochastic Environmental Research and Risk Assessment, 2014, 28, 1999-2014.	1.9	32
88	Evaluation of drought and flood risks in a multipurpose dam under climate change: a case study of Chungju Dam in Korea. Natural Hazards, 2014, 73, 1663-1678.	1.6	8
89	Risk assessment for water quality of a river using QUAL2E model. Journal of Wetlands Research, 2014, 16, 441-450.	0.2	1
90	Impact of Climate Change on Flood Discharge and Flood Stage in the River Basin. , 2013, , .		1

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91	Impact of Climate Change on Habitat of the <i>Rhynchocypris Kumgangensis</i> in Pyungchang River. <i>Journal of Wetlands Research</i> , 2013, 15, 271-280.	0.2	7
92	Runoff Simulation of An Urban Drainage System Using Radar Rainfall Data. <i>Journal of Wetlands Research</i> , 2013, 15, 413-422.	0.2	5
93	Return Period Estimation of Droughts Using Drought Variables from Standardized Precipitation Index. <i>Journal of Korea Water Resources Association</i> , 2013, 46, 795-805.	0.3	12
94	Evaluation of a Raingauge Network Considering the Spatial Distribution Characteristics and Entropy : A Case Study of Imha Dam Basin. <i>Korean Society of Hazard Mitigation</i> , 2013, 13, 217-226.	0.1	16
95	Spatial Downscaling Method for Use of GCM Data in A Mountainous Area. <i>Journal of Wetlands Research</i> , 2013, 15, 115-125.	0.2	0
96	Regional Frequency Analysis for Rainfall Under Climate Change. <i>Journal of Wetlands Research</i> , 2013, 15, 125-137.	0.2	3
97	A Study on Preference Heterogeneity of Economic Valuation for the Washland of Upo Wetland - Development of Waterfront Resources -. <i>Journal of Wetlands Research</i> , 2013, 15, 357-366.	0.2	1
98	The ETCCDI and Frequency Analysis using RCP Scenarios. <i>Journal of Wetlands Research</i> , 2013, 15, 595-607.	0.2	3
99	Study on Antecedent Moisture Condition for Seolma Stream Basin. <i>Journal of Wetlands Research</i> , 2013, 15, 609-618.	0.2	0
100	Spatio-temporal characterization of Korean drought using severity-area-duration curve analysis. <i>Water and Environment Journal</i> , 2011, 25, 22-30.	1.0	23
101	Dynamic characteristics of monthly rainfall in the Korean Peninsula under climate change. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011, 25, 613-625.	1.9	53
102	Measuring nonlinear dependence in hydrologic time series. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 907-916.	1.9	21
103	Flood simulation using the gauge-adjusted radar rainfall and physics-based distributed hydrologic model. <i>Hydrological Processes</i> , 2008, 22, 4400-4414.	1.1	31
104	Uncertainty Reduction of the Flood Stage Forecasting Using Neural Networks Model <sup>1</sup> . <i>Journal of the American Water Resources Association</i> , 2008, 44, 148-165.	1.0	20
105	Neural networks and genetic algorithm approach for nonlinear evaporation and evapotranspiration modeling. <i>Journal of Hydrology</i> , 2008, 351, 299-317.	2.3	191
106	Estimation of areal reduction factors using a mixed gamma distribution. <i>Journal of Hydrology</i> , 2007, 335, 271-284.	2.3	16
107	Impact of climate change on water resources in Yongdam Dam Basin, Korea. <i>Stochastic Environmental Research and Risk Assessment</i> , 2007, 21, 355-373.	1.9	47
108	Streamflow simulation and skewness preservation based on the bootstrapped stochastic models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2004, 18, 386-400.	1.9	7

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109	Effect of aggregation on chaotic time series. KSCE Journal of Civil Engineering, 2000, 4, 219-226.	0.9	0
110	Is the deep-learning technique a completely alternative for the hydrological model?: A case study on Hyeongsan River Basin, Korea. Stochastic Environmental Research and Risk Assessment, 0, , 1.	1.9	4