

Deg-Hyo Bae

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82 papers	1,073 citations	16 h-index	29 g-index
97 ext. papers	1,279 ext. citations	3.9 avg, IF	5.15 L-index

#	Paper	IF	Citations
82	Hydrologic uncertainties in climate change from IPCC AR4 GCM simulations of the Chungju Basin, Korea. <i>Journal of Hydrology</i> , 2011 , 401, 90-105	6	144
81	Long-term trend of precipitation and runoff in Korean river basins. <i>Hydrological Processes</i> , 2008 , 22, 2644-2656	3.5	116
80	Recent trends of mean and extreme precipitation in Korea. <i>International Journal of Climatology</i> , 2011 , 31, 359-370	3.5	104
79	Monthly dam inflow forecasts using weather forecasting information and neuro-fuzzy technique. <i>Hydrological Sciences Journal</i> , 2007 , 52, 99-113	3.5	61
78	Single-reservoir operating rules for a year using multiobjective genetic algorithm. <i>Journal of Hydroinformatics</i> , 2008 , 10, 163-179	2.6	35
77	Hydroclimatological response to dynamically downscaled climate change simulations for Korean basins. <i>Climatic Change</i> , 2010 , 100, 485-508	4.5	33
76	Improving ANFIS Based Model for Long-term Dam Inflow Prediction by Incorporating Monthly Rainfall Forecasts. <i>Water Resources Management</i> , 2014 , 28, 1185-1199	3.7	30
75	A comparative assessment of climate change impacts on drought over Korea based on multiple climate projections and multiple drought indices. <i>Climate Dynamics</i> , 2019 , 53, 389-404	4.2	28
74	Climate Change Impact Assessment on Green and Blue Water over Asian Monsoon Region. <i>Water Resources Management</i> , 2015 , 29, 2407-2427	3.7	23
73	Identification and trend analysis of homogeneous rainfall zones over the East Asia monsoon region. <i>International Journal of Climatology</i> , 2015 , 35, 1422-1433	3.5	22
72	Korean Flood Vulnerability Assessment on Climate Change. <i>Journal of Korea Water Resources Association</i> , 2011 , 44, 653-666		22
71	Application of Artificial Neural Networks for Accuracy Enhancements of Real-Time Flood Forecasting in the Imjin Basin. <i>Water (Switzerland)</i> , 2018 , 10, 1626	3	22
70	Added value of dynamical downscaling for hydrological projections in the Chungju Basin, Korea. <i>International Journal of Climatology</i> , 2019 , 39, 516-531	3.5	19
69	Correcting mean areal precipitation forecasts to improve urban flooding predictions by using long short-term memory network. <i>Journal of Hydrology</i> , 2020 , 584, 124710	6	19
68	Drought analysis according to shifting of climate zones to arid climate zone over Asia monsoon region. <i>Journal of Hydrology</i> , 2015 , 529, 1021-1029	6	17
67	Climate Change Impact Assessment on Water Resources and Susceptible Zones Identification in the Asian Monsoon Region. <i>Water Resources Management</i> , 2015 , 29, 5377-5393	3.7	16
66	Investment timing decisions in hydropower adaptation projects using climate scenarios: A case study of South Korea. <i>Journal of Cleaner Production</i> , 2017 , 142, 1827-1836	10.3	15

65	Evaluation of Nitrate Load Estimations Using Neural Networks and Canonical Correlation Analysis with K-Fold Cross-Validation. <i>Sustainability</i> , 2020 , 12, 400	3.6	15
64	Quantitative Comparison of the Spatial Distribution of Radar and Gauge Rainfall Data. <i>Journal of Hydrometeorology</i> , 2012 , 13, 1939-1953	3.7	15
63	Trend Analysis of Long-Term Reference Evapotranspiration and Its Components over the Korean Peninsula. <i>Water (Switzerland)</i> , 2018 , 10, 1373	3	15
62	Impact of the spatial variability of daily precipitation on hydrological projections: A comparison of GCM- and RCM-driven cases in the Han River basin, Korea. <i>Hydrological Processes</i> , 2019 , 33, 2240	3.3	13
61	Parameter Regionalization of Semi-Distributed Runoff Model Using Multivariate Statistical Analysis. <i>Journal of Korea Water Resources Association</i> , 2009 , 42, 149-160		13
60	Development of Continuous Rainfall-Runoff Model for Flood Forecasting on the Large-Scale Basin. <i>Journal of Korea Water Resources Association</i> , 2011 , 44, 51-64		13
59	Evaluating the Utility of IPCC AR4 GCMs for Hydrological Application in South Korea. <i>Water Resources Management</i> , 2013 , 27, 3227-3246	3.7	12
58	Utilization of the Bayesian Method to Improve Hydrological Drought Prediction Accuracy. <i>Water Resources Management</i> , 2017 , 31, 3527-3541	3.7	11
57	Drought Analysis and Assessment by Using Land Surface Model on South Korea. <i>Journal of Korea Water Resources Association</i> , 2011 , 44, 667-681		11
56	Causal Links on Interannual Timescale Between ENSO and the IOD in CMIP5 Future Simulations. <i>Geophysical Research Letters</i> , 2019 , 46, 2820-2828	4.9	10
55	An Integrated Framework for Extreme Drought Assessments Using the Natural Drought Index, Copula and Gi* Statistic. <i>Water Resources Management</i> , 2020 , 34, 1353-1368	3.7	10
54	Utility of Ten-Day Climate Model Ensemble Simulations for Water Resources Applications in Korean Watersheds. <i>Water Resources Management</i> , 2005 , 19, 849-872	3.7	10
53	Causal effects of Indian Ocean Dipole on El Niño Southern Oscillation during 1950-2014 based on high-resolution models and reanalysis data. <i>Environmental Research Letters</i> , 2020 , 15, 1040b6	6.2	10
52	Drought prediction over the East Asian monsoon region using the adaptive neuro-fuzzy inference system and the global sea surface temperature anomalies. <i>International Journal of Climatology</i> , 2016 , 36, 4767-4777	3.5	10
51	Performance of a coupled atmosphere-streamflow prediction system at the Pyungchang River IHP basin. <i>Journal of Hydrology</i> , 2004 , 288, 210-224	6	9
50	Understanding Urban Flood Resilience in the Anthropocene: A Social-Ecological-Technological Systems (SETS) Learning Framework. <i>Annals of the American Association of Geographers</i> , 2021 , 111, 837-857	2.6	9
49	Uncertainty estimation of the SURR model parameters and input data for the Imjin River basin using the GLUE method. <i>Journal of Hydro-Environment Research</i> , 2018 , 20, 52-62	2.3	9
48	Precipitation Forecast Contribution Assessment in the Coupled Meteo-Hydrological Models. <i>Atmosphere</i> , 2020 , 11, 34	2.7	8

47	The Application Assessment of Global Hydrologic Analysis Models on South Korea. <i>Journal of Korea Water Resources Association</i> , 2010 , 43, 1063-1074		8
46	Intensified hydroclimatic regime in Korean basins under 1.5 and 2°C global warming. <i>International Journal of Climatology</i> , 2020 , 40, 1965-1978	3.5	8
45	Global Warming Impacts on Severe Drought Characteristics in Asia Monsoon Region. <i>Water (Switzerland)</i> , 2020 , 12, 1360	3	7
44	Response of global evaporation to major climate modes in historical and future Coupled Model Intercomparison Project Phase5 simulations. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 1131-1143	5.5	7
43	Generation of High Resolution Scenarios for Climate Change Impacts on Water Resources (II): Runoff Scenarios on Each Sub-basins. <i>Journal of Korea Water Resources Association</i> , 2007 , 40, 205-214		7
42	Hydrological Model Response to Climate Change Impact Assessments on Water Resources. <i>Journal of Korea Water Resources Association</i> , 2008 , 41, 907-917		7
41	Assessment on Flood Characteristics Changes Using Multi-GCMs Climate Scenario. <i>Journal of Korea Water Resources Association</i> , 2010 , 43, 789-799		7
40	Development of an Extreme Gradient Boosting Model Integrated With Evolutionary Algorithms for Hourly Water Level Prediction. <i>IEEE Access</i> , 2021 , 9, 125853-125867	3.5	7
39	Intensification characteristics of hydroclimatic extremes in the Asian monsoon region under 1.5 and 2.0 °C of global warming. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 5799-5820	5.5	6
38	Features and interdecadal variability of droughts in the homogeneous rainfall zones over the East Asian monsoon region. <i>International Journal of Climatology</i> , 2016 , 36, 1943-1953	3.5	5
37	Improving Radar-Based Rainfall Forecasts by Long Short-Term Memory Network in Urban Basins. <i>Water (Switzerland)</i> , 2021 , 13, 776	3	5
36	Quantifying climate internal variability using an hourly ensemble generator over South Korea. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 3037-3051	3.5	5
35	Uncertainty assessment of future projections on water resources according to climate downscaling and hydrological models. <i>Journal of Hydroinformatics</i> , 2018 , 20, 597-607	2.6	4
34	Changes in future precipitation over South Korea using a global high-resolution climate model. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2013 , 49, 619-624	2.1	4
33	Hourly streamflow forecasting using a Bayesian additive regression tree model hybridized with a genetic algorithm. <i>Journal of Hydrology</i> , 2022 , 606, 127445	6	4
32	Development and Evaluation of Computational Method for Korean Threshold Runoff. <i>Journal of Korea Water Resources Association</i> , 2011 , 44, 875-887		4
31	Analyzing the Variability in Low-Flow Projections under GCM CMIP5 Scenarios. <i>Water Resources Management</i> , 2019 , 33, 5035-5050	3.7	4
30	Projected response of global runoff to El Niño-Southern oscillation. <i>Environmental Research Letters</i> , 2021 , 16, 084037	6.2	4

29	Impacts of Upstream Structures on Downstream Discharge in the Transboundary Imjin River Basin, Korean Peninsula. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3333	2.6	3
28	Land Use Change, Extreme Precipitation Events, and Flood Damage in South Korea: A Spatial Approach. <i>Journal of Extreme Events</i> , 2020 , 07, 2150001	1	3
27	Improving Ensemble Forecasting Using Total Least Squares and Lead-Time Dependent Bias Correction. <i>Atmosphere</i> , 2020 , 11, 300	2.7	3
26	Uncertainty Assessment of Future High and Low Flow Projections According to Climate Downscaling and Hydrological Models. <i>Procedia Engineering</i> , 2016 , 154, 617-623		3
25	Long-Term Variation of Runoff Coefficient during Dry and Wet Seasons Due to Climate Change. <i>Water (Switzerland)</i> , 2019 , 11, 2411	3	3
24	An approach for improving the capability of a coupled meteorological and hydrological model for rainfall and flood forecasts. <i>Journal of Hydrology</i> , 2019 , 577, 124014	6	2
23	Spatially-explicit assessment of flood risk caused by climate change in South Korea. <i>KSCE Journal of Civil Engineering</i> , 2013 , 17, 233-243	1.9	2
22	Screening the utility of climate information for watershed applications in Korea. <i>Journal of Hydrology</i> , 2007 , 336, 38-47	6	2
21	Estimation and assessment of natural drought index using principal component analysis. <i>Journal of Korea Water Resources Association</i> , 2016 , 49, 565-577		2
20	Future projection of low flows in the Chungju basin, Korea and their uncertainty decomposition. <i>International Journal of Climatology</i> ,	3.5	2
19	Effect of the Horizontal Resolution of Climate Simulations on the Hydrological Representation of Extreme Low and High Flows. <i>Water Resources Management</i> , 2019 , 33, 4653-4666	3.7	2
18	Accuracy assessment of real-time flood forecasting of coupled hydrological and mesoscale meteorological models 2018 ,		2
17	Decreasing causal impacts of El Niño-Southern Oscillation on future fire activities.. <i>Science of the Total Environment</i> , 2022 , 826, 154031	10.2	2
16	The Impacts of Water Cycle Components on Streamflow in a Changing Climate of Korea: Historical and Future Trends. <i>Sustainability</i> , 2020 , 12, 4260	3.6	1
15	Development of the Water Disaster Vulnerability Index and Evaluation of Water Disaster Vulnerability in the Asian Monsoon Region. <i>Korean Society of Hazard Mitigation</i> , 2018 , 18, 457-467	0.2	1
14	Assessment of Climate Change Impacts on the Hydroclimatic Response in Burundi Based on CMIP6 ESMs. <i>Sustainability</i> , 2021 , 13, 12037	3.6	1
13	Development of climate change uncertainty assessment method for projecting the water resources. <i>Journal of Korea Water Resources Association</i> , 2016 , 49, 657-671		1
12	Development of a Hydrological Drought Forecasting Model Using Weather Forecasting Data from GloSea5. <i>Water (Switzerland)</i> , 2020 , 12, 2785	3	1

11	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	3.7	1
10	Assessment of the potential changes in low flow projections estimated by Coupled Model Intercomparison Project Phase 5 climate models at monthly and seasonal scales. <i>International Journal of Climatology</i> , 2021 , 41, 3222-3236	3.5	1
9	Development of a precipitation-area curve for warning criteria of short-duration flash flood. <i>Natural Hazards and Earth System Sciences</i> , 2018 , 18, 171-183	3.9	1
8	The Impacts of Global Warming on Climate Zone Changes Over Asia Based on CMIP6 Projections. <i>Earth and Space Science</i> , 2021 , 8, e2021EA001701	3.1	1
7	Increasing Causal Effects of El Niño-Southern Oscillation on the Future Carbon Cycle of Terrestrial Ecosystems. <i>Geophysical Research Letters</i> , 2021 , 48,	4.9	1
6	Future hydrology and hydrological extremes under climate change in Asian river basins. <i>Scientific Reports</i> , 2021 , 11, 17089	4.9	0
5	Reduction of the uncertainties in the hydrological projections in Korean river basins using dynamically downscaled climate projections. <i>Climate Dynamics</i> , 1	4.2	0
4	Causal influences of El Niño-Southern Oscillation on global dust activities. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 5253-5263	6.8	0
3	Climatological screening of climate model output with observations for Korean water resources applications. <i>International Journal of Climatology</i> , 2007 , 27, 1775-1790	3.5	
2	The Indian Ocean Dipole response to external forcing in the coupled model intercomparison project phase 5 simulations of the last millennium. <i>Holocene</i> , 2021 , 31, 884-891	2.6	
1	Optimizing Parameters for the Downscaling of Daily Precipitation in Normal and Drought Periods in South Korea. <i>Water (Switzerland)</i> , 2022 , 14, 1108	3	