

# Eun-Sung Chung

## List of Publications by Citations

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120  
papers

2,905  
citations

34  
h-index

48  
g-index

136  
ext. papers

3,654  
ext. citations

4.1  
avg, IF

6.06  
L-index

#	Paper	IF	Citations
120	Prioritization of water management for sustainability using hydrologic simulation model and multicriteria decision making techniques. <i>Journal of Environmental Management</i> , <b>2009</b> , 90, 1502-11	7.9	105
119	Prioritizing the best sites for treated wastewater instream use in an urban watershed using fuzzy TOPSIS. <i>Resources, Conservation and Recycling</i> , <b>2013</b> , 73, 23-32	11.9	89
118	Long-term trends in daily temperature extremes in Iraq. <i>Atmospheric Research</i> , <b>2017</b> , 198, 97-107	5.4	81
117	Development of spatial water resources vulnerability index considering climate change impacts. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 5228-42	10.2	80
116	Model output statistics downscaling using support vector machine for the projection of spatial and temporal changes in rainfall of Bangladesh. <i>Atmospheric Research</i> , <b>2018</b> , 213, 149-162	5.4	78
115	Fuzzy VIKOR approach for assessing the vulnerability of the water supply to climate change and variability in South Korea. <i>Applied Mathematical Modelling</i> , <b>2013</b> , 37, 9419-9430	4.5	78
114	A fuzzy multi-criteria approach to flood risk vulnerability in South Korea by considering climate change impacts. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 1003-1013	7.8	74
113	Integrated multi-criteria flood vulnerability approach using fuzzy TOPSIS and Delphi technique. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 1293-1312	3.9	73
112	Trend Analysis of Droughts during Crop Growing Seasons of Nigeria. <i>Sustainability</i> , <b>2018</b> , 10, 871	3.6	72
111	Trends analysis of rainfall and rainfall extremes in Sarawak, Malaysia using modified Mann-Kendall test. <i>Meteorology and Atmospheric Physics</i> , <b>2019</b> , 131, 263-277	2	71
110	The relative impacts of climate change and urbanization on the hydrological response of a Korean urban watershed. <i>Hydrological Processes</i> , <b>2011</b> , 25, 544-560	3.3	67
109	Spatial distribution of secular trends in annual and seasonal precipitation over Pakistan. <i>Climate Research</i> , <b>2017</b> , 74, 95-107	1.6	63
108	Selection of multi-model ensemble of general circulation models for the simulation of precipitation and maximum and minimum temperature based on spatial assessment metrics. <i>Hydrology and Earth System Sciences</i> , <b>2019</b> , 23, 4803-4824	5.5	58
107	Changing Pattern of Droughts during Cropping Seasons of Bangladesh. <i>Water Resources Management</i> , <b>2018</b> , 32, 1555-1568	3.7	57
106	Identification of Spatial Ranking of Hydrological Vulnerability Using Multi-Criteria Decision Making Techniques: Case Study of Korea. <i>Water Resources Management</i> , <b>2009</b> , 23, 2395-2416	3.7	57
105	Changing characteristics of meteorological droughts in Nigeria during 1901-2010. <i>Atmospheric Research</i> , <b>2019</b> , 223, 60-73	5.4	56
104	Projection of spatial and temporal changes of rainfall in Sarawak of Borneo Island using statistical downscaling of CMIP5 models. <i>Atmospheric Research</i> , <b>2017</b> , 197, 446-460	5.4	56

103	Selection of gridded precipitation data for Iraq using compromise programming. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 132, 87-98	4.6	55
102	Hydrological effects of climate change, groundwater withdrawal, and land use in a small Korean watershed. <i>Hydrological Processes</i> , <b>2007</b> , 21, 3046-3056	3.3	54
101	Development of streamflow drought severity-duration-frequency curves using the threshold level method. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 3341-3351	5.5	51
100	Fidelity assessment of general circulation model simulated precipitation and temperature over Pakistan using a feature selection method. <i>Journal of Hydrology</i> , <b>2019</b> , 573, 281-298	6	48
99	Spatial distribution of secular trends in rainfall indices of Peninsular Malaysia in the presence of long-term persistence. <i>Meteorological Applications</i> , <b>2019</b> , 26, 655-670	2.1	48
98	A MCDM-based framework for selection of general circulation models and projection of spatio-temporal rainfall changes: A case study of Nigeria. <i>Atmospheric Research</i> , <b>2019</b> , 225, 1-16	5.4	47
97	Robust spatial flood vulnerability assessment for Han River using fuzzy TOPSIS with cut level set. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 644-654	7.8	46
96	Evaluation of Empirical Reference Evapotranspiration Models Using Compromise Programming: A Case Study of Peninsular Malaysia. <i>Sustainability</i> , <b>2019</b> , 11, 4267	3.6	44
95	Development of integrated watershed management schemes for an intensively urbanized region in Korea. <i>Journal of Hydro-Environment Research</i> , <b>2007</b> , 1, 95-109	2.3	43
94	An index-based robust decision making framework for watershed management in a changing climate. <i>Science of the Total Environment</i> , <b>2014</b> , 473-474, 88-102	10.2	39
93	Development of fuzzy multi-criteria approach to prioritize locations of treated wastewater use considering climate change scenarios. <i>Journal of Environmental Management</i> , <b>2014</b> , 146, 505-516	7.9	38
92	Integrated Use of a Continuous Simulation Model and Multi-Attribute Decision-Making for Ranking Urban Watershed Management Alternatives. <i>Water Resources Management</i> , <b>2011</b> , 25, 641-659	3.7	38
91	Uncertainty in Rainfall Intensity Duration Frequency Curves of Peninsular Malaysia under Changing Climate Scenarios. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1750	3	38
90	Distributional changes in rainfall and river flow in Sarawak, Malaysia. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , <b>2017</b> , 53, 489-500	2.1	36
89	Climate change uncertainties in seasonal drought severity-area-frequency curves: Case of arid region of Pakistan. <i>Journal of Hydrology</i> , <b>2019</b> , 570, 473-485	6	36
88	Spatial probabilistic multi-criteria decision making for assessment of flood management alternatives. <i>Journal of Hydrology</i> , <b>2016</b> , 533, 365-378	6	35
87	Projection of meteorological droughts in Nigeria during growing seasons under climate change scenarios. <i>Scientific Reports</i> , <b>2020</b> , 10, 10107	4.9	34
86	Prioritization of water management under climate change and urbanization using multi-criteria decision making methods. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 801-814	5.5	33

85	Group decision-making approach for flood vulnerability identification using the fuzzy VIKOR method. <i>Natural Hazards and Earth System Sciences</i> , <b>2015</b> , 15, 863-874	3.9	32
84	Development of Climate-Based Index for Hydrologic Hazard Susceptibility. <i>Sustainability</i> , <b>2018</b> , 10, 21823.6	3.6	31
83	Assessing climate change vulnerability with group multi-criteria decision making approaches. <i>Climatic Change</i> , <b>2013</b> , 121, 301-315	4.5	31
82	Unidirectional trends in daily rainfall extremes of Iraq. <i>Theoretical and Applied Climatology</i> , <b>2018</b> , 134, 1165-1177	3	29
81	Probabilistic estimation of the storage capacity of a rainwater harvesting system considering climate change. <i>Resources, Conservation and Recycling</i> , <b>2012</b> , 65, 136-144	11.9	29
80	Selection of CMIP5 multi-model ensemble for the projection of spatial and temporal variability of rainfall in peninsular Malaysia. <i>Theoretical and Applied Climatology</i> , <b>2019</b> , 138, 999-1012	3	28
79	Evaluating the Effects of Inundation Duration and Velocity on Selection of Flood Management Alternatives Using Multi-Criteria Decision Making. <i>Water Resources Management</i> , <b>2015</b> , 29, 2543-2561	3.7	28
78	Water Resource Vulnerability Characteristics by District Population Size in a Changing Climate Using Subjective and Objective Weights. <i>Sustainability</i> , <b>2014</b> , 6, 6141-6157	3.6	26
77	Effective Design and Planning Specification of Low Impact Development Practices Using Water Management Analysis Module (WMAM): Case of Malaysia. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 173	3	25
76	Multi-Criteria Assessment of Spatial Robust Water Resource Vulnerability Using the TOPSIS Method Coupled with Objective and Subjective Weights in the Han River Basin. <i>Sustainability</i> , <b>2017</b> , 9, 29	3.6	24
75	A Multi-Criteria Decision Analysis System for Prioritizing Sites and Types of Low Impact Development Practices: Case of Korea. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 291	3	24
74	Meteorological hazard assessment based on trends and abrupt changes in rainfall characteristics on the Korean peninsula. <i>Theoretical and Applied Climatology</i> , <b>2017</b> , 127, 305-326	3	23
73	Robustness, Uncertainty and Sensitivity Analyses of the TOPSIS Method for Quantitative Climate Change Vulnerability: a Case Study of Flood Damage. <i>Water Resources Management</i> , <b>2016</b> , 30, 4751-4771	3.7	22
72	Development of high-resolution daily gridded temperature datasets for the central north region of Egypt. <i>Scientific Data</i> , <b>2019</b> , 6, 138	8.2	22
71	Integrated watershed management for mitigating streamflow depletion in an urbanized watershed in Korea. <i>Physics and Chemistry of the Earth</i> , <b>2008</b> , 33, 382-394	3	21
70	Evaluation of CMIP6 GCM rainfall in mainland Southeast Asia. <i>Atmospheric Research</i> , <b>2021</b> , 254, 105525	5.4	21
69	Abrupt change point detection of annual maximum precipitation using fused lasso. <i>Journal of Hydrology</i> , <b>2016</b> , 538, 831-841	6	21
68	Reliability Resiliency Vulnerability Approach for Drought Analysis in South Korea Using 28 GCMs. <i>Sustainability</i> , <b>2018</b> , 10, 3043	3.6	21

67	Advances in CMIP6 INM-CM5 over CMIP5 INM-CM4 for precipitation simulation in South Korea. <i>Atmospheric Research</i> , <b>2021</b> , 247, 105261	5.4	20
66	Challenges in water resources of Lagos mega city of Nigeria in the context of climate change. <i>Journal of Water and Climate Change</i> , <b>2020</b> , 11, 1067-1083	2.3	19
65	Parametric Assessment of Pre-Monsoon Agricultural Water Scarcity in Bangladesh. <i>Sustainability</i> , <b>2018</b> , 10, 819	3.6	16
64	Development of Flood Vulnerability Index Considering Climate Change. <i>Journal of Korea Water Resources Association</i> , <b>2011</b> , 44, 231-248		16
63	GCM selection and temperature projection of Nigeria under different RCPs of the CMIP5 GCMS. <i>Theoretical and Applied Climatology</i> , <b>2020</b> , 141, 1611-1627	3	15
62	Potential Impact of Climate Change on Residential Energy Consumption in Dhaka City. <i>Environmental Modeling and Assessment</i> , <b>2018</b> , 23, 131-140	2	14
61	Characteristics of Annual and Seasonal Trends of Rainfall and Temperature in Iraq. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , <b>2019</b> , 55, 429-438	2.1	13
60	Sustainability-Based Flood Hazard Mapping of the Swannanoa River Watershed. <i>Sustainability</i> , <b>2017</b> , 9, 1735	3.6	13
59	A Hybrid Model for Statistical Downscaling of Daily Rainfall. <i>Procedia Engineering</i> , <b>2016</b> , 154, 1424-1430		13
58	Influence of Surface Water Bodies on the Land Surface Temperature of Bangladesh. <i>Sustainability</i> , <b>2019</b> , 11, 6754	3.6	13
57	Robustness analysis of storm water quality modelling with LID infrastructures from natural event-based field monitoring. <i>Science of the Total Environment</i> , <b>2021</b> , 753, 142007	10.2	13
56	Iterative Framework for Robust Reclaimed Wastewater Allocation in a Changing Environment Using Multi-Criteria Decision Making. <i>Water Resources Management</i> , <b>2015</b> , 29, 295-311	3.7	12
55	Uncertainty Assessment in Drought Severities for the Cheongmicheon Watershed Using Multiple GCMs and the Reliability Ensemble Averaging Method. <i>Sustainability</i> , <b>2019</b> , 11, 4283	3.6	12
54	Integrated assessment of climate change and urbanization impact on adaptation strategies: a case study in two small Korean watersheds. <i>Climatic Change</i> , <b>2012</b> , 115, 853-872	4.5	12
53	A sensitivity analysis approach of multi-attribute decision making technique to rank flood mitigation projects. <i>KSCCE Journal of Civil Engineering</i> , <b>2013</b> , 17, 1529-1539	1.9	12
52	Spatiotemporal differences and uncertainties in projections of precipitation and temperature in South Korea from CMIP6 and CMIP5 general circulation models. <i>International Journal of Climatology</i> , <b>2015</b> , 35, 12052-12070	3.5	12
51	Comparison of Meteorological Drought and Hydrological Drought Index. <i>Journal of Korea Water Resources Association</i> , <b>2015</b> , 48, 69-78		11
50	Parametric Assessment of Water Use Vulnerability Variations Using SWAT and Fuzzy TOPSIS Coupled with Entropy. <i>Sustainability</i> , <b>2015</b> , 7, 12052-12070	3.6	10

49	Prioritizing Feasible Locations for Permeable Pavement Using MODFLOW and Multi-criteria Decision Making Methods. <i>Water Resources Management</i> , <b>2015</b> , 29, 4539-4555	3.7	9
48	The Development of Rating Curve Considering Variance Function Using Pseudo-likelihood Estimation Method. <i>Water Resources Management</i> , <b>2010</b> , 24, 321-348	3.7	9
47	Spatiotemporal changes in precipitation extremes in the arid province of Pakistan with removal of the influence of natural climate variability. <i>Theoretical and Applied Climatology</i> , <b>2020</b> , 142, 1447-1462	3	9
46	Comparison of Projection in Meteorological and Hydrological Droughts in the Cheongmicheon Watershed for RCP4.5 and SSP2-4.5. <i>Sustainability</i> , <b>2021</b> , 13, 2066	3.6	9
45	High-Resolution Climate Projections for a Densely Populated Mediterranean Region. <i>Sustainability</i> , <b>2020</b> , 12, 3684	3.6	8
44	Resident perceptions of urban stream restoration and water quality in South Korea. <i>River Research and Applications</i> , <b>2018</b> , 34, 481-492	2.3	8
43	Incorporating uncertainty and objective load reduction allocation into the Total Maximum Daily Load process in Korea. <i>KSCE Journal of Civil Engineering</i> , <b>2011</b> , 15, 1289-1297	1.9	8
42	Fuzzy TOPSIS Approach to Flood Vulnerability Assessment in Korea. <i>Journal of Korea Water Resources Association</i> , <b>2012</b> , 45, 901-913		8
41	Uncertainty Analysis of Monthly Precipitation in GCMs Using Multiple Bias Correction Methods under Different RCPs. <i>Sustainability</i> , <b>2020</b> , 12, 7508	3.6	8
40	Temporal Variations of Citizens' Demands on Flood Damage Mitigation, Streamflow Quantity and Quality in the Korean Urban Watershed. <i>Sustainability</i> , <b>2016</b> , 8, 370	3.6	8
39	Projection of Agricultural Water Stress for Climate Change Scenarios: A Regional Case Study of Iraq. <i>Agriculture (Switzerland)</i> , <b>2021</b> , 11, 1288	3	8
38	Robust Prioritization of Climate Change Adaptation Strategies Using the VIKOR Method with Objective Weights. <i>Journal of the American Water Resources Association</i> , <b>2015</b> , 51, 1167-1182	2.1	7
37	Robust Parameter Estimation Framework of a Rainfall-Runoff Model Using Pareto Optimum and Minimax Regret Approach. <i>Water (Switzerland)</i> , <b>2015</b> , 7, 1246-1263	3	7
36	Bayesian rainfall frequency analysis with extreme value using the informative prior distribution. <i>KSCE Journal of Civil Engineering</i> , <b>2013</b> , 17, 1502-1514	1.9	7
35	Identifying Spatial Hazard Ranking Using Multicriteria Decision Making Techniques. <i>Journal of Korea Water Resources Association</i> , <b>2007</b> , 40, 969-983		7
34	Spatial Shift of Aridity and Its Impact on Land Use of Syria. <i>Sustainability</i> , <b>2019</b> , 11, 7047	3.6	7
33	Divergence of potential evapotranspiration trends over Pakistan during 1967-2016. <i>Theoretical and Applied Climatology</i> , <b>2020</b> , 141, 215-227	3	7
32	Performance evaluation of CMIP6 global climate models for selecting models for climate projection over Nigeria. <i>Theoretical and Applied Climatology</i> , <b>2021</b> , 146, 599-615	3	7

31	Estimation of Water-Use Rates Based on Hydro-Meteorological Variables Using Deep Belief Network. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2700	3	6
30	Projection of Potential Evapotranspiration for North Korea Based on Selected GCMs by TOPSIS. <i>KSCE Journal of Civil Engineering</i> , <b>2020</b> , 24, 2849-2859	1.9	5
29	An Integrated Method for Identifying Present Status and Risk of Drought in Bangladesh. <i>Remote Sensing</i> , <b>2020</b> , 12, 2686	5	5
28	Decision Support System for the Design and Planning of Low-Impact Development Practices: The Case of Seoul. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 146	3	5
27	Comparing the functional recognition of aesthetics, hydrology, and quality in urban stream restoration through the framework of environmental perception. <i>River Research and Applications</i> , <b>2019</b> , 35, 543	2.3	4
26	Analysis of Hydrologic Cycle and BOD Loads Using HSPF in the Anyancheon Watershed. <i>Journal of Korea Water Resources Association</i> , <b>2007</b> , 40, 585-600		4
25	Drought analysis of Cheongmicheon watershed using meteorological, agricultural and hydrological drought indices. <i>Journal of Korea Water Resources Association</i> , <b>2016</b> , 49, 509-518		4
24	Application of Streamflow Drought Index using Threshold Level Method. <i>Journal of Korea Water Resources Association</i> , <b>2014</b> , 47, 491-500		4
23	Multi-variable model output statistics downscaling for the projection of spatio-temporal changes in rainfall of Borneo Island. <i>Journal of Hydro-Environment Research</i> , <b>2020</b> , 31, 62-75	2.3	4
22	Prediction of Flow Duration Curve in Ungauged Catchments Using Genetic Expression Programming. <i>Procedia Engineering</i> , <b>2016</b> , 154, 1431-1438		4
21	Differences in multi-model ensembles of CMIP5 and CMIP6 projections for future droughts in South Korea. <i>International Journal of Climatology</i> ,	3.5	4
20	Effects of Non-Stationarity on Flood Frequency Analysis: Case Study of the Cheongmicheon Watershed in South Korea. <i>Sustainability</i> , <b>2018</b> , 10, 1329	3.6	3
19	Robust Parameter Set Selection for a Hydrodynamic Model Based on Multi-Site Calibration Using Multi-Objective Optimization and Minimax Regret Approach. <i>Water Resources Management</i> , <b>2018</b> , 32, 3979-3995	3.7	3
18	Performance of a Rain Barrel Sharing Network under Climate Change. <i>Water (Switzerland)</i> , <b>2015</b> , 7, 3466-3485	3	3
17	Development and Application of Robust Decision Making Technique Considering Uncertainty of Climatic Change Scenarios. <i>Journal of Korea Water Resources Association</i> , <b>2013</b> , 46, 897-907		3
16	Selection of multi-model ensemble of GCMs for the simulation of precipitation based on spatial assessment metrics		3
15	Deep-learning based projection of change in irrigation water-use under RCP 8.5. <i>Hydrological Processes</i> , <b>2021</b> , 35, e14315	3.3	3
14	Estimation of Spatial and Seasonal Variability of Soil Erosion in a Cold Arid River Basin in Hindu Kush Mountainous Region Using Remote Sensing. <i>Sustainability</i> , <b>2021</b> , 13, 1549	3.6	2

13	Uncertainties in evapotranspiration projections associated with estimation methods and CMIP6 GCMs for South Korea.. <i>Science of the Total Environment</i> , <b>2022</b> , 825, 153953	10.2	2
12	Volatility in Rainfall and Predictability of Droughts in Northwest Bangladesh. <i>Sustainability</i> , <b>2020</b> , 12, 9810	3.6	1
11	Use of the Minimax Regret Approach for Robust Selection of Rainfall-Runoff Model Parameter Values Considering Multiple Events and Multiple Performance Indices. <i>KSCE Journal of Civil Engineering</i> , <b>2018</b> , 22, 1515-1522	1.9	1
10	Comparison of precipitation projections of CMIP5 and CMIP6 global climate models over Yulin, China. <i>Theoretical and Applied Climatology</i> ,1	3	1
9	Replicability of Annual and Seasonal Precipitation by CMIP5 and CMIP6 GCMs over East Asia. <i>KSCE Journal of Civil Engineering</i> ,1	1.9	1
8	Prediction of heat waves using meteorological variables in diverse regions of Iran with advanced machine learning models. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1
7	Empirical Model for the Assessment of Climate Change Impacts on Spatial Pattern of Water Availability in Nigeria. <i>Springer Transactions in Civil and Environmental Engineering</i> , <b>2021</b> , 405-427	0.4	1
6	Effect of Climate Change and Urbanization on Flow and BOD Concentration Duration Curves. <i>Journal of Korea Water Resources Association</i> , <b>2009</b> , 42, 1091-1102		1
5	Development of streamflow drought severity- and magnitude-duration-frequency curves using the threshold level method		1
4	Future Hydrological Drought Analysis Considering Agricultural Water Withdrawal Under SSP Scenarios. <i>Water Resources Management</i> ,1	3.7	1
3	Multivariate Frequency Analysis for Streamflow Drought Having Different Time Resolution Using Archimedean Copula Functions. <i>KSCE Journal of Civil Engineering</i> ,1	1.9	0
2	Robust Siting of Permeable Pavement in Highly Urbanized Watersheds Considering Climate Change Using a Combination of Fuzzy-TOPSIS and the VIKOR Method. <i>Water Resources Management</i> , <b>2022</b> , 36, 951	3.7	0
1	The Right to Urban Streams: Quantitative Comparisons of Stakeholder Perceptions in Defining Adaptive Stream Restoration. <i>Sustainability</i> , <b>2020</b> , 12, 9500	3.6	0