Jenq-Tzong Shiau

List of Publications by Year
in descending order

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45 papers	2,598 citations	279798 23 h-index	243625 44 g-index
46 all docs	46 docs citations	46 times ranked	1724 citing authors

#	Article	IF	Citations
1	Fitting Drought Duration and Severity with Two-Dimensional Copulas. Water Resources Management, 2006, 20, 795-815.	3.9	531
2	Recurrence Analysis of Hydrologic Droughts of Differing Severity. Journal of Water Resources Planning and Management - ASCE, 2001, 127, 30-40.	2.6	236
3	Copulaâ€based drought severityâ€durationâ€frequency analysis in Iran. Meteorological Applications, 2009, 16, 481-489.	2.1	220
4	Assessment of hydrological droughts for the Yellow River, China, using copulas. Hydrological Processes, 2007, 21, 2157-2163.	2.6	212
5	Return period of bivariate distributed extreme hydrological events. Stochastic Environmental Research and Risk Assessment, 2003, 17, 42-57.	4.0	202
6	BIVARIATE FREQUENCY ANALYSIS OF FLOODS USING COPULAS¹. Journal of the American Water Resources Association, 2006, 42, 1549-1564.	2.4	109
7	Pareto-optimal solutions for environmental flow schemes incorporating the intra-annual and interannual variability of the natural flow regime. Water Resources Research, 2007, 43, .	4.2	88
8	Assessment of hydrologic alterations caused by Chi-Chi diversion weir in Chou-Shui Creek, Taiwan: opportunities for restoring natural flow conditions. River Research and Applications, 2004, 20, 401-412.	1.7	81
9	A Histogram Matching Approach for assessment of flow regime alteration: application to environmental flow optimization. River Research and Applications, 2008, 24, 914-928.	1.7	77
10	Derivation of Optimal Hedging Rules for a Water-supply Reservoir through Compromise Programming. Water Resources Management, 2005, 19, 111-132.	3.9	69
11	COMPROMISE PROGRAMMING METHODOLOGY FOR DETERMINING INSTREAM FLOW UNDER MULTIOBJECTIVE WATER ALLOCATION CRITERIA. Journal of the American Water Resources Association, 2006, 42, 1179-1191.	2.4	66
12	Feasible Diversion and Instream Flow Release Using Range of Variability Approach. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 395-404.	2.6	62
13	Analytical optimal hedging with explicit incorporation of reservoir release and carryover storage targets. Water Resources Research, 2011, 47, .	4.2	61
14	Optimization of Reservoir Hedging Rules Using Multiobjective Genetic Algorithm. Journal of Water Resources Planning and Management - ASCE, 2009, 135, 355-363.	2.6	59
15	Optimizing environmental flows for multiple reaches affected by a multipurpose reservoir system in Taiwan: Restoring natural flow regimes at multiple temporal scales. Water Resources Research, 2013, 49, 565-584.	4.2	44
16	Analysis of Extreme Flood Events for the Pachang River, Taiwan. Water Resources Management, 2005, 19, 363-374.	3.9	36
17	Water Release Policy Effects on the Shortage Characteristics for the Shihmen Reservoir System during Droughts. Water Resources Management, 2003, 17, 463-480.	3.9	28
18	Application of Lâ€moments and Bayesian inference for lowâ€flow regionalization in Sefidroud basin, Iran. Hydrological Processes, 2014, 28, 1663-1676.	2.6	28

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19	Water-deficit-based drought risk assessments in Taiwan. Natural Hazards, 2012, 64, 237-257.	3.4	27
20	Spatial hydrological drought characteristics in Karkheh River basin, southwest Iran using copulas. Journal of Earth System Science, 2017, 126, 1.	1.3	27
21	Effects of Gamma-Distribution Variations on SPI-Based Stationary and Nonstationary Drought Analyses. Water Resources Management, 2020, 34, 2081-2095.	3.9	26
22	Detecting distributional changes of annual rainfall indices in Taiwan using quantile regression. Journal of Hydro-Environment Research, 2015, 9, 368-380.	2.2	25
23	Quantile Regression-Based Probabilistic Estimation Scheme for Daily and Annual Suspended Sediment Loads. Water Resources Management, 2015, 29, 2805-2818.	3.9	25
24	Suitability of ANN-Based Daily Streamflow Extension Models: a Case Study of Gaoping River Basin, Taiwan. Water Resources Management, 2016, 30, 1499-1513.	3.9	24
25	A dynamic corridor-searching algorithm to seek time-varying instream flow releases for optimal weir operation: comparing three indices of overall hydrologic alteration. River Research and Applications, 2007, 23, 35-53.	1.7	23
26	Clustering Quantile Regression-Based Drought Trends in Taiwan. Water Resources Management, 2016, 30, 1053-1069.	3.9	21
27	A dual activeâ€restrictive approach to incorporating environmental flow targets into existing reservoir operation rules. Water Resources Research, 2010, 46, .	4.2	20
28	Assessing Multi-site Drought Connections in Iran Using Empirical Copula. Environmental Modeling and Assessment, 2012, 17, 469-482.	2.2	19
29	Assessment of climate change impacts on flooding vulnerability for lowland management in southwestern Taiwan. Natural Hazards, 2013, 68, 1001-1019.	3.4	18
30	Data-based bivariate uncertainty assessment of extreme rainfall-runoff using copulas: comparison between annual maximum series (AMS) and peaks over threshold (POT). Environmental Monitoring and Assessment, 2019, 191, 67.	2.7	16
31	Regionalization of natural flow regime: application to environmental flow optimization at ungauged sites. River Research and Applications, 2009, 25, 1071-1089.	1.7	15
32	Assessment of flow regime alterations over a spectrum of temporal scales using waveletâ€based approaches. Water Resources Research, 2015, 51, 3317-3338.	4.2	14
33	Bivariate Drought Characterization of Two Contrasting Climatic Regions in India Using Copula. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, .	1.0	12
34	Detecting Multi-Purpose Reservoir Operation Induced Time-Frequency Alteration Using Wavelet Transform. Water Resources Management, 2014, 28, 3577-3590.	3.9	11
35	Copula-based depth-duration-frequency analysis of typhoons in Taiwan. Hydrology Research, 2010, 41, 414-423.	2.7	10
36	Physiographic Drainage-Inundation Model Based Flooding Vulnerability Assessment. Water Resources Management, 2012, 26, 1307-1323.	3.9	10

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37	Effects of Hedging Factors and Fuzziness on Shortage Characteristics During Droughts. Water Resources Management, 2018, 32, 1913-1929.	3.9	8
38	Basin-scale optimal trade-off between human and environmental water requirements in Hsintien Creek basin, Taiwan. Environmental Earth Sciences, 2016, 75, 1.	2.7	7
39	Copula-Based Infilling Methods for Daily Suspended Sediment Loads. Water (Switzerland), 2021, 13, 1701.	2.7	7
40	COMPROMISE PROGRAMMING METHODOLOGY FOR DETERMINING INSTREAM FLOW UNDER MULTIOBJECTIVE WATER ALLOCATION CRITERIA1. Journal of the American Water Resources Association, 2007, 42, 1179-1191.	2.4	6
41	Comparing Optimal Hedging Policies Incorporating Past Operation Information and Future Hydrologic Information. Water Resources Management, 2021, 35, 2177-2196.	3.9	6
42	Wavelet-Based Detection of Time-Frequency Changes for Monthly Rainfall and SPI Series in Taiwan. Asia-Pacific Journal of Atmospheric Sciences, 2019, 55, 657-667.	2.3	5
43	Nonstationary Distributional Changes of Annual Rainfall Indices in Taiwan. Asia-Pacific Journal of Atmospheric Sciences, 2021, 57, 435-450.	2.3	3
44	Analytical Water Shortage Probabilities and Distributions of Various Lead Times for a Water Supply Reservoir. Water Resources Management, 2021, 35, 3809-3825.	3.9	2
45	Nonstationary Analyses of the Maximum and Minimum Streamflow in Tamsui River Basin, Taiwan. Water (Switzerland), 2021, 13, 762.	2.7	1