Bahram Saghafian

List of Publications by Citations

107 papers	2,218 citations	22 h-index	44 g-index
112 ext. papers	2,630 ext. citations	3.1 avg, IF	5.52 L-index

#	Paper	IF	Citations
107	Spatial Patterns and Temporal Variability of Drought in Western Iran. *Water Resources Management* , **2009**, 23, 439-455	3.7	203
106	RASTER-BASED HYDROLOGIC MODELING OF SPATIALLY-VARIED SURFACE RUNOFF1. *Journal of the American Water Resources Association*, **1995**, 31, 523-536	2.1	188
105	Assessment of GPM-IMERG and Other Precipitation Products against Gauge Data under Different Topographic and Climatic Conditions in Iran: Preliminary Results. *Remote Sensing*, **2016**, 8, 135	5	188
104	Green and Ampt Infiltration with Redistribution. *Journal of Irrigation and Drainage Engineering - ASCE*, **1997**, 123, 386-393	1.1	120
103	Flood Intensification due to Changes in Land Use. *Water Resources Management*, **2008**, 22, 1051-1067	3.7	110
102	Uncertainty analysis of streamflow drought forecast using artificial neural networks and Monte-Carlo simulation. *International Journal of Climatology*, **2014**, 34, 1169-1180	3.5	94
101	Assessment of residential rainwater harvesting efficiency for meeting non-potable water demands in three climate conditions. *Resources, Conservation and Recycling*, **2013**, 73, 86-93	11.9	78
100	Runoff hydrograph simulation based on time variable isochrone technique. *Journal of Hydrology*, **2002**, 261, 193-203	6	72
99	Similarity in Catchment Response: 1. Stationary Rainstorms. *Water Resources Research*, **1995**, 31, 1533-1541	3.4	63
98	Derivation of Probabilistic Thresholds of Spatially Distributed Rainfall for Flood Forecasting. *Water Resources Management*, **2010**, 24, 3547-3559	3.7	55
97	Comprehensive evaluation of 3-hourly TRMM and half-hourly GPM-IMERG satellite precipitation products. *International Journal of Remote Sensing*, **2017**, 38, 558-571	3.1	54
96	Drought characterization using a new copula-based trivariate approach. *Natural Hazards*, **2014**, 72, 1391-1407	3	53
95	Climate change impacts on streamflow and sediment yield in the North of Iran. *Hydrological Sciences Journal*, **2016**, 61, 123-133	3.5	47
94	Multi time-scale evaluation of high-resolution satellite-based precipitation products over northeast of Austria. *Atmospheric Research*, **2018**, 206, 46-63	5.4	45
93	The Groundwater-Energy-Food Nexus in Iran's Agricultural Sector: Implications for Water Security. *Water (Switzerland)*, **2019**, 11, 1835	3	41
92	Flood frequency analysis based on simulated peak discharges. *Natural Hazards*, **2014**, 71, 403-417	3	34
91	Coupled Quantity-Quality Simulation-Optimization Model for Conjunctive Surface-Groundwater Use. *Water Resources Management*, **2016**, 30, 4381-4397	3.7	30

90	Assessment of climate change impact on floods using weather generator and continuous rainfall-runoff model. *International Journal of Climatology*, **2012**, 32, 1997-2006	3.5	30
89	Application of surrogate artificial intelligent models for real-time flood routing. *Water and Environment Journal*, **2013**, 27, 535-548	1.7	30
88	Probabilistic hydrological drought index forecasting based on meteorological drought index using Archimedean copulas **2019**, 50, 1230-1250		29
87	Probabilistic rainfall thresholds for flood forecasting: evaluating different methodologies for modelling rainfall spatial correlation (or dependence). *Hydrological Processes*, **2011**, 25, 2046-2055	3.3	29
86	Uncertainty assessment of the agro-hydrological SWAP model application at field scale: A case study in a dry region. *Agricultural Water Management*, **2014**, 146, 324-334	5.9	22
85	Assessment of rain-gauge networks using a probabilistic GIS based approach **2014**, 45, 551-562		21
84	Unit Response Approach for Priority Determination of Flood Source Areas. *Journal of Hydrologic Engineering - ASCE*, **2005**, 10, 270-277	1.8	21
83	LAND-USE IMPACT ON WATERSHED RESPONSE: THE INTEGRATION OF TWO-DIMENSIONAL HYDROLOGICAL MODELLING AND GEOGRAPHICAL INFORMATION SYSTEMS. *Hydrological Processes*, **1996**, 10, 1503-1511	3.3	19
82	Evaluation of TIGGE Ensemble Forecasts of Precipitation in Distinct Climate Regions in Iran. *Advances in Atmospheric Sciences*, **2018**, 35, 457-468	2.9	18
81	A new daily weather generator to preserve extremes and low-frequency variability. *Climatic Change* , **2013**, 119, 631-645	4.5	18
80	Copula-based stochastic uncertainty analysis of satellite precipitation products. *Journal of Hydrology*, **2019**, 570, 739-754	6	17
79	Evaluating the impacts of watershed management on runoff storage and peak flow in Gav-Darreh watershed, Kurdistan, Iran. *Arabian Journal of Geosciences*, **2014**, 7, 3271-3279	1.8	17
78	System dynamics approach for simulating water resources of an urban water system with emphasis on sustainability of groundwater. *Environmental Earth Sciences*, **2017**, 76, 1	2.9	16
77	Effect of ENSO on annual maximum floods and volume over threshold in the southwestern region of Iran. *Hydrological Sciences Journal*, **2017**, 62, 1039-1049	3.5	15
76	Application of the WEPP model to determine sources of run-off and sediment in a forested watershed. *Hydrological Processes*, **2015**, 29, 481-497	3.3	15
75	Comparison of classification and clustering methods in spatial rainfall pattern recognition at Northern Iran. *Theoretical and Applied Climatology*, **2010**, 102, 319-329	3	15
74	Effect of Southern Oscillation Index and spatially distributed climate data on improving the accuracy of Artificial Neural Network, Adaptive Neuro-Fuzzy Inference System and K-Nearest Neighbour streamflow forecasting models. *Expert Systems*, **2013**, 30, 367-380	2.1	14
73	Development of an Automatic Calibration Tool Using Genetic Algorithm for the ARNO Conceptual Rainfall-Runoff Model. *Arabian Journal for Science and Engineering*, **2014**, 39, 2535-2549		13

72	Identification of homogenous regions in Gorganrood basin (Iran) for the purpose of regionalization. *Natural Hazards*, **2012**, 61, 1427-1442	3	13
71	Time of concentration of surface flow in complex hillslopes. *Journal of Hydrology and Hydromechanics*, **2013**, 61, 269-277	2.1	13
70	Evaluation of the Bankruptcy Approach for Water Resources Allocation Conflict Resolution at Basin Scale, Iran‌ Lake Urmia Experience. *Water Resources Management*, **2016**, 30, 3519-3533	3.7	13
69	Deterministic and probabilistic evaluation of raw and post processed sub-seasonal to seasonal precipitation forecasts in different precipitation regimes. *Theoretical and Applied Climatology*, **2019**, 137, 1479-1493	3	13
68	Evaluation of dynamic regression and artificial neural networks models for real-time hydrological drought forecasting. *Arabian Journal of Geosciences*, **2017**, 10, 1	1.8	12
67	Monte Carlo analysis of the effect of spatial distribution of storms on prioritization of flood source areas. *Natural Hazards*, **2013**, 66, 1059-1071	3	12
66	Application of unit response approach for spatial prioritization of runoff and sediment sources. *Agricultural Water Management*, **2012**, 109, 36-45	5.9	12
65	Copula-based interpretation of continuous rainfall‌unoff simulations of a watershed in northern Iran. *Canadian Journal of Earth Sciences*, **2012**, 49, 681-691	1.5	12
64	Nonlinear transformation of unit hydrograph. *Journal of Hydrology*, **2006**, 330, 596-603	6	12
63	Comparison of design peak flow estimation methods for ungauged basins in Iran. *Hydrological Sciences Journal*, **2020**, 65, 127-137	3.5	12
62	Monthly stream flow forecasting via dynamic spatio-temporal models. *Stochastic Environmental Research and Risk Assessment*, **2015**, 29, 861-874	3.5	11
61	Empirical evaluation of river basin sustainability affected by inter-basin water transfer using composite indicators. *Water and Environment Journal*, **2018**, 32, 104-111	1.7	11
60	Evaluation of rainfall spatial correlation effect on rainfall-runoff modeling uncertainty, considering 2-copula. *Arabian Journal of Geosciences*, **2016**, 9, 1	1.8	11
59	Assessment of Precipitation Estimation from the NWP Models and Satellite Products for the Spring 2019 Severe Floods in Iran. *Remote Sensing*, **2019**, 11, 2741	5	11
58	Rainfall-runoff modeling considering soil moisture accounting algorithm, case study: Karoon III River basin. *Water Resources*, **2016**, 43, 699-710	0.9	10
57	Environmental management in Urmia Lake: thresholds approach. *International Journal of Water Resources Development*, **2016**, 32, 77-88	3	9
56	Multivariate groundwater drought analysis using copulas **2020**, 51, 666-685		9
55	An Ultimatum Game Theory Based Approach for Basin Scale Water Allocation Conflict Resolution. *Water Resources Management*, **2017**, 31, 4293-4308	3.7	8

54	Effect of Extraordinary Large Floods on at-site Flood Frequency. *Water Resources Management*, **2017**, 31, 4187-4205	3.7	8
53	Travel time of curved parallel hillslopes **2014**, 45, 190-199		8
52	Validity of Regional Rainfall Spatial Distribution Methods in Mountainous Areas. *Journal of Hydrologic Engineering - ASCE*, **2008**, 13, 531-540	1.8	8
51	Susceptibility of Hydropower Generation to Climate Change: Karun III Dam Case Study. *Water (Switzerland)*, **2019**, 11, 1025	3	7
50	Hydrological drought early warning based on rainfall threshold. *Natural Hazards*, **2015**, 79, 815-832	3	7
49	Agent-Based Modeling for Evaluation of Crop Pattern and Water Management Policies. *Water Resources Management*, **2019**, 33, 3707-3720	3.7	7
48	Probabilistic streamflow forecast based on spatial post-processing of TIGGE precipitation forecasts. *Stochastic Environmental Research and Risk Assessment*, **2019**, 33, 1939-1950	3.5	7
47	Regionalization by fuzzy expert system based approach optimized by genetic algorithm. *Journal of Hydrology*, **2013**, 486, 271-280	6	7
46	Evaluation of IMERG and MRMS remotely sensed snowfall products. *International Journal of Remote Sensing*, **2019**, 40, 4175-4192	3.1	6
45	Performance evaluation of sub-daily ensemble precipitation forecasts. *Meteorological Applications*, **2020**, 27, e1872	2.1	6
44	Distributed catchment simulation using a raster GIS. *International Journal of Applied Earth Observation and Geoinformation*, **2000**, 2, 199-203	7.3	6
43	Coupled Groundwater Drought and Water Scarcity Index for Intensively Overdrafted Aquifers. *Journal of Hydrologic Engineering - ASCE*, **2019**, 24, 04019003	1.8	6
42	Effectiveness of Soil and Water Conservation Practices Under Climate Change in the Gorganroud Basin, Iran. *Clean - Soil, Air, Water*, **2017**, 45, 1700288	1.6	5
41	Coupling snow accumulation and melt rate modules of monthly water balance models with the Jazim monthly water balance model. *Hydrological Sciences Journal*, **2017**, 62, 2348-2368	3.5	5
40	Evaluation of coupled ANN-GA model to prioritize flood source areas in ungauged watersheds **2020** , 51, 423-442		5
39	Comparison Between Active Learning Method and Support Vector Machine for Runoff Modeling. *Journal of Hydrology and Hydromechanics*, **2012**, 60, 16-32	2.1	5
38	Assessment of impacts of change in land use and climatic variables on runoff in Tajan River Basin. *Water Science and Technology: Water Supply*, **2020**, 20, 2779-2793	1.4	5
37	Inverse hydrograph routing optimization model based on the kinematic wave approach. *Engineering Optimization*, **2015**, 47, 1031-1042	2	4

36	Backcasting long-term climate data: evaluation of hypothesis. *Theoretical and Applied Climatology*, **2018**, 132, 717-726	3	4
35	Loss of Life Estimation Due to Flash Floods in Residential Areas using a Regional Model. *Water Resources Management*, **2018**, 32, 4575-4589	3.7	4
34	Selecting the Best Flood Flow Frequency Model Using Multi-Criteria Group Decision-Making. *Water Resources Management*, **2014**, 28, 3957-3974	3.7	4
33	Regional analysis of streamflow drought: a case study in southwestern Iran. *Environmental Earth Sciences*, **2014**, 71, 2955-2972	2.9	4
32	Comment on Development and testing of a new storm runoff routing approach based on time variant spatially distributed travel time method by Jinkang Du, Hua Xie, Yujun Hu, Youpeng Xu, Chong-Yu Xu. *Journal of Hydrology*, **2010**, 381, 372-373	6	4
31	Evaluation of global ensemble prediction models for forecasting medium to heavy precipitations. *Meteorology and Atmospheric Physics*, **2021**, 133, 15-26	2	4
30	The impacts of climate variability and human activities on streamflow change at basin scale. *Water Science and Technology: Water Supply*, **2020**, 20, 889-899	1.4	3
29	Characterizing flow pattern and salinity using the 3D MIKE 3 model: Urmia Lake case study. *Arabian Journal of Geosciences*, **2020**, 13, 1	1.8	3
28	Multi-reservoir system management under alternative policies and environmental operating conditions **2018**, 49, 1817-1830		3
27	Evaluation of a novel fuzzy method and a conceptual model for a long-term daily streamflow simulation. *River Systems*, **2013**, 20, 249-260		3
26	Hydrological drought class early warning using support vector machines and rough sets. *Environmental Earth Sciences*, **2021**, 80, 1	2.9	3
25	Performance Evaluation of a Fuzzy Hybrid Clustering Technique to Identify Flood Source Areas. *Water Resources Management*, **2019**, 33, 4621-4636	3.7	3
24	Reduced-Order Salinity Modeling of the Urmia Lake Using MIKE3 and Proper Orthogonal Decomposition Models. *Water Resources*, **2018**, 45, 728-737	0.9	3
23	A fuzzy hybrid clustering method for identifying hydrologic homogeneous regions. *Journal of Hydroinformatics*, **2018**, 20, 1367-1386	2.6	3
22	Simulation and feasibility of biological and structural BMPs for stormwater control in the urbanizing watersheds. *Modeling Earth Systems and Environment*, **2017**, 3, 719-731	3.2	2
21	Hydrological and Hydraulic Uncertainty Analysis in Probabilistic Design of Flood Diversion Systems Using NSGAII and Bivariate Frequency Analysis. *Iranian Journal of Science and Technology - Transactions of Civil Engineering*, **2020**, 1	1.1	2
20	A new damage-probability approach for risk analysis of rain-fed agricultural systems under meteorological drought. *KSCE Journal of Civil Engineering*, **2017**, 21, 1453-1461	1.9	2
19	Forensic engineering analysis applied to flood control. *Journal of Hydrology*, **2021**, 594, 125961	6	2

18	Trend analysis of evapotranspiration over Iran based on NEX-GDDP high-resolution dataset. *International Journal of Climatology*, **2021**, 41, E2073	3.5	2
17	Analytical Derivation of Overland Travel Time Based on Diffusive Wave Solution. *Journal of Hydrologic Engineering - ASCE*, **2016**, 21, 04015065	1.8	1
16	Cellular time series: a data structure for spatio-temporal analysis and management of geoscience information. *Journal of Hydroinformatics*, **2019**, 21, 999-1013	2.6	1
15	Closure to Validity of Regional Rainfall Spatial Distribution Methods in Mountainous Areas by Bahram Saghafian and Sima Rahimi Bondarabadi. *Journal of Hydrologic Engineering - ASCE*, **2009**, 14, 771-771	1.8	1
14	Regional hydrologic mapping of flows in stream networks. *International Journal of Applied Earth Observation and Geoinformation*, **2009**, 11, 317-323	7.3	1
13	Performance evaluation of ERA5 precipitation estimates across Iran. *Arabian Journal of Geosciences*, **2021**, 14, 1	1.8	1
12	An Integrated Approach for Site Selection of Snow Measurement Stations. *Water (Switzerland)*, **2016**, 8, 539	3	1
11	Applicability of Rainfall Runoff Models in Two Simplified Watersheds. *Iranian Journal of Science and Technology - Transactions of Civil Engineering*,1	1.1	1
10	Reservoir management under different operating water levels, operation policies, and climate change conditions. *Water Management*,1-1	1	1
9	Dam sediment tracking using spectrometry and Landsat 8 satellite image, Taleghan Basin, Iran. *Environmental Monitoring and Assessment*, **2016**, 188, 104	3.1	0
8	Skill Assessment of Copernicus Climate Change Service Seasonal Ensemble Precipitation Forecasts over Iran. *Advances in Atmospheric Sciences*, **2021**, 38, 504-521	2.9	0
7	Adapting reservoir operation rules to hydrological drought state and environmental flow requirements. *Journal of Hydrology*, **2021**, 600, 126581	6	0
6	Erratum for Coupled Groundwater Drought and Water Scarcity Index for Intensively Overdrafted Aquifers by Hamid Sanginabadi, Bahram Saghafian, and Majid Delavar. *Journal of Hydrologic Engineering - ASCE*, **2019**, 24, 08219001	1.8	
5	The Effect of Involving Exceptional Outlier Data on Design Flood Magnitude. *Current World Environment Journal*, **2015**, 10, 698-706	0.7	
4	Closure to Coupled Groundwater Drought and Water Scarcity Index for Intensively Overdrafted Aquifers by Hamid Sanginabadi, Bahram Saghafian, and Majid Delavar. *Journal of Hydrologic Engineering - ASCE*, **2020**, 25, 07019006	1.8	
3	Quantifying streamflow drivers by anthropogenic time series attribution method in human-nature system. *Theoretical and Applied Climatology*, **2021**, 144, 1335-1348	3	
2	Reconstruction of water balance components using tree-ring proxy records. *Water and Environment Journal*, **2020**, 34, 381-390	1.7	
1	A new approach for bias adjustment of IMERG remotely sensed snowfall product. *Theoretical and Applied Climatology*, **2021**, 143, 675-690	3	