

Bahram Saghafian

List of Publications by Year in Descending Order

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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.

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	Performance evaluation of ERA5 precipitation estimates across Iran. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	1
106	Forensic engineering analysis applied to flood control. <i>Journal of Hydrology</i> , 2021 , 594, 125961	6	2
105	Quantifying streamflow drivers by anthropogenic time series attribution method in human-nature system. <i>Theoretical and Applied Climatology</i> , 2021 , 144, 1335-1348	3	
104	Hydrological drought class early warning using support vector machines and rough sets. <i>Environmental Earth Sciences</i> , 2021 , 80, 1	2.9	3
103	Evaluation of global ensemble prediction models for forecasting medium to heavy precipitations. <i>Meteorology and Atmospheric Physics</i> , 2021 , 133, 15-26	2	4
102	A new approach for bias adjustment of IMERG remotely sensed snowfall product. <i>Theoretical and Applied Climatology</i> , 2021 , 143, 675-690	3	
101	Trend analysis of evapotranspiration over Iran based on NEX-GDDP high-resolution dataset. <i>International Journal of Climatology</i> , 2021 , 41, E2073	3.5	2
100	Skill Assessment of Copernicus Climate Change Service Seasonal Ensemble Precipitation Forecasts over Iran. <i>Advances in Atmospheric Sciences</i> , 2021 , 38, 504-521	2.9	0
99	Adapting reservoir operation rules to hydrological drought state and environmental flow requirements. <i>Journal of Hydrology</i> , 2021 , 600, 126581	6	0
98	Hydrological and Hydraulic Uncertainty Analysis in Probabilistic Design of Flood Diversion Systems Using NSGAII and Bivariate Frequency Analysis. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020 , 1	1.1	2
97	Evaluation of coupled ANN-GA model to prioritize flood source areas in ungauged watersheds 2020 , 51, 423-442		5
96	The impacts of climate variability and human activities on streamflow change at basin scale. <i>Water Science and Technology: Water Supply</i> , 2020 , 20, 889-899	1.4	3
95	Performance evaluation of sub-daily ensemble precipitation forecasts. <i>Meteorological Applications</i> , 2020 , 27, e1872	2.1	6
94	Characterizing flow pattern and salinity using the 3D MIKE 3 model: Urmia Lake case study. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	3
93	Comparison of design peak flow estimation methods for ungauged basins in Iran. <i>Hydrological Sciences Journal</i> , 2020 , 65, 127-137	3.5	12
92	Closure to Coupled Groundwater Drought and Water Scarcity Index for Intensively Overdrafted Aquifers by Hamid Sanginabadi, Bahram Saghafian, and Majid Delavar. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020 , 25, 07019006	1.8	
91	Multivariate groundwater drought analysis using copulas 2020 , 51, 666-685		9

90	Assessment of impacts of change in land use and climatic variables on runoff in Tajan River Basin. <i>Water Science and Technology: Water Supply</i> , 2020 , 20, 2779-2793	1.4	5
89	Reconstruction of water balance components using tree-ring proxy records. <i>Water and Environment Journal</i> , 2020 , 34, 381-390	1.7	
88	The Groundwater-Energy-Food Nexus in Iran's Agricultural Sector: Implications for Water Security. <i>Water (Switzerland)</i> , 2019 , 11, 1835	3	41
87	Erratum for Coupled Groundwater Drought and Water Scarcity Index for Intensively Overdrafted Aquifers by Hamid Sanginabadi, Bahram Saghafian, and Majid Delavar. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019 , 24, 08219001	1.8	
86	Cellular time series: a data structure for spatio-temporal analysis and management of geoscience information. <i>Journal of Hydroinformatics</i> , 2019 , 21, 999-1013	2.6	1
85	Evaluation of IMERG and MRMS remotely sensed snowfall products. <i>International Journal of Remote Sensing</i> , 2019 , 40, 4175-4192	3.1	6
84	Copula-based stochastic uncertainty analysis of satellite precipitation products. <i>Journal of Hydrology</i> , 2019 , 570, 739-754	6	17
83	Susceptibility of Hydropower Generation to Climate Change: Karun III Dam Case Study. <i>Water (Switzerland)</i> , 2019 , 11, 1025	3	7
82	Agent-Based Modeling for Evaluation of Crop Pattern and Water Management Policies. <i>Water Resources Management</i> , 2019 , 33, 3707-3720	3.7	7
81	Probabilistic hydrological drought index forecasting based on meteorological drought index using Archimedean copulas 2019 , 50, 1230-1250		29
80	Probabilistic streamflow forecast based on spatial post-processing of TIGGE precipitation forecasts. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 1939-1950	3.5	7
79	Assessment of Precipitation Estimation from the NWP Models and Satellite Products for the Spring 2019 Severe Floods in Iran. <i>Remote Sensing</i> , 2019 , 11, 2741	5	11
78	Performance Evaluation of a Fuzzy Hybrid Clustering Technique to Identify Flood Source Areas. <i>Water Resources Management</i> , 2019 , 33, 4621-4636	3.7	3
77	Coupled Groundwater Drought and Water Scarcity Index for Intensively Overdrafted Aquifers. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019 , 24, 04019003	1.8	6
76	Deterministic and probabilistic evaluation of raw and post processed sub-seasonal to seasonal precipitation forecasts in different precipitation regimes. <i>Theoretical and Applied Climatology</i> , 2019 , 137, 1479-1493	3	13
75	Multi time-scale evaluation of high-resolution satellite-based precipitation products over northeast of Austria. <i>Atmospheric Research</i> , 2018 , 206, 46-63	5.4	45
74	Evaluation of TIGGE Ensemble Forecasts of Precipitation in Distinct Climate Regions in Iran. <i>Advances in Atmospheric Sciences</i> , 2018 , 35, 457-468	2.9	18
73	Backcasting long-term climate data: evaluation of hypothesis. <i>Theoretical and Applied Climatology</i> , 2018 , 132, 717-726	3	4

72	Empirical evaluation of river basin sustainability affected by inter-basin water transfer using composite indicators. <i>Water and Environment Journal</i> , 2018 , 32, 104-111	1.7	11
71	Multi-reservoir system management under alternative policies and environmental operating conditions 2018 , 49, 1817-1830		3
70	Loss of Life Estimation Due to Flash Floods in Residential Areas using a Regional Model. <i>Water Resources Management</i> , 2018 , 32, 4575-4589	3.7	4
69	Reduced-Order Salinity Modeling of the Urmia Lake Using MIKE3 and Proper Orthogonal Decomposition Models. <i>Water Resources</i> , 2018 , 45, 728-737	0.9	3
68	A fuzzy hybrid clustering method for identifying hydrologic homogeneous regions. <i>Journal of Hydroinformatics</i> , 2018 , 20, 1367-1386	2.6	3
67	Simulation and feasibility of biological and structural BMPs for stormwater control in the urbanizing watersheds. <i>Modeling Earth Systems and Environment</i> , 2017 , 3, 719-731	3.2	2
66	Effectiveness of Soil and Water Conservation Practices Under Climate Change in the Gorganroud Basin, Iran. <i>Clean - Soil, Air, Water</i> , 2017 , 45, 1700288	1.6	5
65	Evaluation of dynamic regression and artificial neural networks models for real-time hydrological drought forecasting. <i>Arabian Journal of Geosciences</i> , 2017 , 10, 1	1.8	12
64	An Ultimatum Game Theory Based Approach for Basin Scale Water Allocation Conflict Resolution. <i>Water Resources Management</i> , 2017 , 31, 4293-4308	3.7	8
63	Effect of Extraordinary Large Floods on at-site Flood Frequency. <i>Water Resources Management</i> , 2017 , 31, 4187-4205	3.7	8
62	Effect of ENSO on annual maximum floods and volume over threshold in the southwestern region of Iran. <i>Hydrological Sciences Journal</i> , 2017 , 62, 1039-1049	3.5	15
61	Comprehensive evaluation of 3-hourly TRMM and half-hourly GPM-IMERG satellite precipitation products. <i>International Journal of Remote Sensing</i> , 2017 , 38, 558-571	3.1	54
60	Coupling snow accumulation and melt rate modules of monthly water balance models with the Jazim monthly water balance model. <i>Hydrological Sciences Journal</i> , 2017 , 62, 2348-2368	3.5	5
59	System dynamics approach for simulating water resources of an urban water system with emphasis on sustainability of groundwater. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	16
58	A new damage-probability approach for risk analysis of rain-fed agricultural systems under meteorological drought. <i>KSCE Journal of Civil Engineering</i> , 2017 , 21, 1453-1461	1.9	2
57	Analytical Derivation of Overland Travel Time Based on Diffusive Wave Solution. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 04015065	1.8	1
56	Environmental management in Urmia Lake: thresholds approach. <i>International Journal of Water Resources Development</i> , 2016 , 32, 77-88	3	9
55	Coupled Quantity-Quality Simulation-Optimization Model for Conjunctive Surface-Groundwater Use. <i>Water Resources Management</i> , 2016 , 30, 4381-4397	3.7	30

54	Dam sediment tracking using spectrometry and Landsat 8 satellite image, Taleghan Basin, Iran. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 104	3.1	0
53	Climate change impacts on streamflow and sediment yield in the North of Iran. <i>Hydrological Sciences Journal</i> , 2016 , 61, 123-133	3.5	47
52	Assessment of GPM-IMERG and Other Precipitation Products against Gauge Data under Different Topographic and Climatic Conditions in Iran: Preliminary Results. <i>Remote Sensing</i> , 2016 , 8, 135	5	188
51	An Integrated Approach for Site Selection of Snow Measurement Stations. <i>Water (Switzerland)</i> , 2016 , 8, 539	3	1
50	Evaluation of the Bankruptcy Approach for Water Resources Allocation Conflict Resolution at Basin Scale, Iran Lake Urmia Experience. <i>Water Resources Management</i> , 2016 , 30, 3519-3533	3.7	13
49	Evaluation of rainfall spatial correlation effect on rainfall-runoff modeling uncertainty, considering 2-copula. <i>Arabian Journal of Geosciences</i> , 2016 , 9, 1	1.8	11
48	Rainfall-runoff modeling considering soil moisture accounting algorithm, case study: Karoon III River basin. <i>Water Resources</i> , 2016 , 43, 699-710	0.9	10
47	Monthly stream flow forecasting via dynamic spatio-temporal models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 861-874	3.5	11
46	Hydrological drought early warning based on rainfall threshold. <i>Natural Hazards</i> , 2015 , 79, 815-832	3	7
45	Inverse hydrograph routing optimization model based on the kinematic wave approach. <i>Engineering Optimization</i> , 2015 , 47, 1031-1042	2	4
44	Application of the WEPP model to determine sources of run-off and sediment in a forested watershed. <i>Hydrological Processes</i> , 2015 , 29, 481-497	3.3	15
43	The Effect of Involving Exceptional Outlier Data on Design Flood Magnitude. <i>Current World Environment Journal</i> , 2015 , 10, 698-706	0.7	
42	Flood frequency analysis based on simulated peak discharges. <i>Natural Hazards</i> , 2014 , 71, 403-417	3	34
41	Drought characterization using a new copula-based trivariate approach. <i>Natural Hazards</i> , 2014 , 72, 1391-1407	3.1407	53
40	Travel time of curved parallel hillslopes 2014 , 45, 190-199		8
39	Selecting the Best Flood Flow Frequency Model Using Multi-Criteria Group Decision-Making. <i>Water Resources Management</i> , 2014 , 28, 3957-3974	3.7	4
38	Uncertainty assessment of the agro-hydrological SWAP model application at field scale: A case study in a dry region. <i>Agricultural Water Management</i> , 2014 , 146, 324-334	5.9	22
37	Assessment of rain-gauge networks using a probabilistic GIS based approach 2014 , 45, 551-562		21

36	Uncertainty analysis of streamflow drought forecast using artificial neural networks and Monte-Carlo simulation. <i>International Journal of Climatology</i> , 2014 , 34, 1169-1180	3.5	94
35	Regional analysis of streamflow drought: a case study in southwestern Iran. <i>Environmental Earth Sciences</i> , 2014 , 71, 2955-2972	2.9	4
34	Evaluating the impacts of watershed management on runoff storage and peak flow in Gav-Darreh watershed, Kurdistan, Iran. <i>Arabian Journal of Geosciences</i> , 2014 , 7, 3271-3279	1.8	17
33	Development of an Automatic Calibration Tool Using Genetic Algorithm for the ARNO Conceptual Rainfall-Runoff Model. <i>Arabian Journal for Science and Engineering</i> , 2014 , 39, 2535-2549		13
32	Monte Carlo analysis of the effect of spatial distribution of storms on prioritization of flood source areas. <i>Natural Hazards</i> , 2013 , 66, 1059-1071	3	12
31	Regionalization by fuzzy expert system based approach optimized by genetic algorithm. <i>Journal of Hydrology</i> , 2013 , 486, 271-280	6	7
30	Assessment of residential rainwater harvesting efficiency for meeting non-potable water demands in three climate conditions. <i>Resources, Conservation and Recycling</i> , 2013 , 73, 86-93	11.9	78
29	Application of surrogate artificial intelligent models for real-time flood routing. <i>Water and Environment Journal</i> , 2013 , 27, 535-548	1.7	30
28	A new daily weather generator to preserve extremes and low-frequency variability. <i>Climatic Change</i> , 2013 , 119, 631-645	4.5	18
27	Evaluation of a novel fuzzy method and a conceptual model for a long-term daily streamflow simulation. <i>River Systems</i> , 2013 , 20, 249-260		3
26	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. <i>Expert Systems</i> , 2013 , 30, 367-380	2.1	14
25	Time of concentration of surface flow in complex hillslopes. <i>Journal of Hydrology and Hydromechanics</i> , 2013 , 61, 269-277	2.1	13
24	Assessment of climate change impact on floods using weather generator and continuous rainfall-runoff model. <i>International Journal of Climatology</i> , 2012 , 32, 1997-2006	3.5	30
23	Application of unit response approach for spatial prioritization of runoff and sediment sources. <i>Agricultural Water Management</i> , 2012 , 109, 36-45	5.9	12
22	Copula-based interpretation of continuous rainfall-runoff simulations of a watershed in northern Iran. <i>Canadian Journal of Earth Sciences</i> , 2012 , 49, 681-691	1.5	12
21	Identification of homogenous regions in Gorganrood basin (Iran) for the purpose of regionalization. <i>Natural Hazards</i> , 2012 , 61, 1427-1442	3	13
20	Comparison Between Active Learning Method and Support Vector Machine for Runoff Modeling. <i>Journal of Hydrology and Hydromechanics</i> , 2012 , 60, 16-32	2.1	5
19	Probabilistic rainfall thresholds for flood forecasting: evaluating different methodologies for modelling rainfall spatial correlation (or dependence). <i>Hydrological Processes</i> , 2011 , 25, 2046-2055	3.3	29

18	Comparison of classification and clustering methods in spatial rainfall pattern recognition at Northern Iran. <i>Theoretical and Applied Climatology</i> , 2010 , 102, 319-329	3	15
17	Derivation of Probabilistic Thresholds of Spatially Distributed Rainfall for Flood Forecasting. <i>Water Resources Management</i> , 2010 , 24, 3547-3559	3.7	55
16	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. <i>Journal of Hydrology</i> , 2010 , 381, 372-373	6	4
15	Closure to Validity of Regional Rainfall Spatial Distribution Methods in Mountainous Areas by Bahram Saghafian and Sima Rahimi Bondarabadi. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009 , 14, 771-771	1.8	1
14	Spatial Patterns and Temporal Variability of Drought in Western Iran. <i>Water Resources Management</i> , 2009 , 23, 439-455	3.7	203
13	Regional hydrologic mapping of flows in stream networks. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2009 , 11, 317-323	7.3	1
12	Validity of Regional Rainfall Spatial Distribution Methods in Mountainous Areas. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 531-540	1.8	8
11	Flood Intensification due to Changes in Land Use. <i>Water Resources Management</i> , 2008 , 22, 1051-1067	3.7	110
10	Nonlinear transformation of unit hydrograph. <i>Journal of Hydrology</i> , 2006 , 330, 596-603	6	12
9	Unit Response Approach for Priority Determination of Flood Source Areas. <i>Journal of Hydrologic Engineering - ASCE</i> , 2005 , 10, 270-277	1.8	21
8	Runoff hydrograph simulation based on time variable isochrone technique. <i>Journal of Hydrology</i> , 2002 , 261, 193-203	6	72
7	Distributed catchment simulation using a raster GIS. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2000 , 2, 199-203	7.3	6
6	Green and Ampt Infiltration with Redistribution. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1997 , 123, 386-393	1.1	120
5	LAND-USE IMPACT ON WATERSHED RESPONSE: THE INTEGRATION OF TWO-DIMENSIONAL HYDROLOGICAL MODELLING AND GEOGRAPHICAL INFORMATION SYSTEMS. <i>Hydrological Processes</i> , 1996 , 10, 1503-1511	3.3	19
4	RASTER-BASED HYDROLOGIC MODELING OF SPATIALLY-VARIED SURFACE RUNOFF1. <i>Journal of the American Water Resources Association</i> , 1995 , 31, 523-536	2.1	188
3	Similarity in Catchment Response: 1. Stationary Rainstorms. <i>Water Resources Research</i> , 1995 , 31, 1533-1541	5.4	63
2	Applicability of Rainfall Runoff Models in Two Simplified Watersheds. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 1	1.1	1
1	Reservoir management under different operating water levels, operation policies, and climate change conditions. <i>Water Management</i> , 1-1	1	1

