Bahram Saghafian

List of Publications by Year
in descending order

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110	3,026	257101	189595
papers	citations	24 h-index	50 g-index

112	112	112	3103
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	1.8	277
2	Spatial Patterns and Temporal Variability of Drought in Western Iran. Water Resources Management, 2009, 23, 439-455.	1.9	241
3	RASTER-BASED HYDROLOGIC MODELING OF SPATIALLY-VARIED SURFACE RUNOFF. Journal of the American Water Resources Association, 1995, 31, 523-536.	1.0	231
4	Green and Ampt Infiltration with Redistribution. Journal of Irrigation and Drainage Engineering - ASCE, 1997, 123, 386-393.	0.6	141
5	Flood Intensification due to Changes in Land Use. Water Resources Management, 2008, 22, 1051-1067.	1.9	141
6	Uncertainty analysis of streamflow drought forecast using artificial neural networks and Monteâ€€arlo simulation. International Journal of Climatology, 2014, 34, 1169-1180.	1.5	121
7	Assessment of residential rainwater harvesting efficiency for meeting non-potable water demands in three climate conditions. Resources, Conservation and Recycling, 2013, 73, 86-93.	5.3	97
8	Runoff hydrograph simulation based on time variable isochrone technique. Journal of Hydrology, 2002, 261, 193-203.	2.3	86
9	The Groundwaterâ€'Energyâ€'Food Nexus in Iranâ€™s Agricultural Sector: Implications for Water Security. Water (Switzerland), 2019, 11, 1835.	1.2	83
10	Climate change impacts on streamflow and sediment yield in the North of Iran. Hydrological Sciences Journal, 2016, 61, 123-133.	1.2	77
11	Comprehensive evaluation of 3-hourly TRMM and half-hourly GPM-IMERG satellite precipitation products. International Journal of Remote Sensing, 2017, 38, 558-571.	1.3	77
12	Similarity in Catchment Response: 1. Stationary Rainstorms. Water Resources Research, 1995, 31, 1533-1541.	1.7	71
13	Derivation of Probabilistic Thresholds of Spatially Distributed Rainfall for Flood Forecasting. Water Resources Management, 2010, 24, 3547-3559.	1.9	69
14	Multi time-scale evaluation of high-resolution satellite-based precipitation products over northeast of Austria. Atmospheric Research, 2018, 206, 46-63.	1.8	68
15	Drought characterization using a new copula-based trivariate approach. Natural Hazards, 2014, 72, 1391-1407.	1.6	66
16	Probabilistic hydrological drought index forecasting based on meteorological drought index using Archimedean copulas. Hydrology Research, 2019, 50, 1230-1250.	1.1	46
17	Flood frequency analysis based on simulated peak discharges. Natural Hazards, 2014, 71, 403-417.	1.6	45
18	Probabilistic rainfall thresholds for flood forecasting: evaluating different methodologies for modelling rainfall spatial correlation (or dependence). Hydrological Processes, 2011, 25, 2046-2055.	1.1	40

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19	Assessment of climate change impact on floods using weather generator and continuous rainfallâ€runoff model. International Journal of Climatology, 2012, 32, 1997-2006.	1.5	40
20	Application of surrogate artificial intelligent models for realâ€time flood routing. Water and Environment Journal, 2013, 27, 535-548.	1.0	39
21	Coupled Quantity-Quality Simulation-Optimization Model for Conjunctive Surface-Groundwater Use. Water Resources Management, 2016, 30, 4381-4397.	1.9	39
22	Unit Response Approach for Priority Determination of Flood Source Areas. Journal of Hydrologic Engineering - ASCE, 2005, 10, 270-277.	0.8	30
23	Evaluation of TIGGE Ensemble Forecasts of Precipitation in Distinct Climate Regions in Iran. Advances in Atmospheric Sciences, 2018, 35, 457-468.	1.9	27
24	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.	0.6	26
25	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.	2.4	26
26	Assessment of rain-gauge networks using a probabilistic GIS based approach. Hydrology Research, 2014, 45, 551-562.	1.1	24
27	LAND-USE IMPACT ON WATERSHED RESPONSE: THE INTEGRATION OF TWO-DIMENSIONAL HYDROLOGICAL MODELLING AND GEOGRAPHICAL INFORMATION SYSTEMS. Hydrological Processes, 1996, 10, 1503-1511.	1.1	23
28	Copula-based stochastic uncertainty analysis of satellite precipitation products. Journal of Hydrology, 2019, 570, 739-754.	2.3	23
29	Effect of ENSO on annual maximum floods and volume over threshold in the southwestern region of Iran. Hydrological Sciences Journal, 2017, 62, 1039-1049.	1.2	22
30	System dynamics approach for simulating water resources of an urban water system with emphasis on sustainability of groundwater. Environmental Earth Sciences, 2017, 76, 1.	1.3	21
31	Assessment of Precipitation Estimation from the NWP Models and Satellite Products for the Spring 2019 Severe Floods in Iran. Remote Sensing, 2019, 11, 2741.	1.8	21
32	Application of the WEPP model to determine sources of run-off and sediment in a forested watershed. Hydrological Processes, 2015, 29, 481-497.	1.1	20
33	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.	1.3	20
34	A new daily weather generator to preserve extremes and low-frequency variability. Climatic Change, 2013, 119, 631-645.	1.7	18
35	Effect of Southern Oscillation Index and spatially distributed climate data on improving the accuracy of Artificial Neural Network, Adaptive Neuroâ€Fuzzy Inference System and Kâ€Nearest Neighbour streamflow forecasting models. Expert Systems, 2013, 30, 367-380.	2.9	18
36	Agent-Based Modeling for Evaluation of Crop Pattern and Water Management Policies. Water Resources Management, 2019, 33, 3707-3720.	1.9	18

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37	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.	1.1	17
38	Comparison of design peak flow estimation methods for ungauged basins in Iran. Hydrological Sciences Journal, 2020, 65, 127-137.	1.2	17
39	Copula-based interpretation of continuous rainfallâ€“runoff simulations of a watershed in northern Iran. Canadian Journal of Earth Sciences, 2012, 49, 681-691.	0.6	16
40	Evaluation of the Bankruptcy Approach for Water Resources Allocation Conflict Resolution at Basin Scale, Iranâ€™s Lake Urmia Experience. Water Resources Management, 2016, 30, 3519-3533.	1.9	16
41	Evaluation of dynamic regression and artificial neural networks models for real-time hydrological drought forecasting. Arabian Journal of Geosciences, 2017, 10, 1.	0.6	16
42	Performance evaluation of subâ€daily ensemble precipitation forecasts. Meteorological Applications, 2020, 27, e1872.	0.9	16
43	Validity of Regional Rainfall Spatial Distribution Methods in Mountainous Areas. Journal of Hydrologic Engineering - ASCE, 2008, 13, 531-540.	0.8	15
44	Comparison of classification and clustering methods in spatial rainfall pattern recognition at Northern Iran. Theoretical and Applied Climatology, 2010, 102, 319-329.	1.3	15
45	Identification of homogenous regions in Gorganrood basin (Iran) for the purpose of regionalization. Natural Hazards, 2012, 61, 1427-1442.	1.6	15
46	Monte Carlo analysis of the effect of spatial distribution of storms on prioritization of flood source areas. Natural Hazards, 2013, 66, 1059-1071.	1.6	15
47	Time of concentration of surface flow in complex hillslopes. Journal of Hydrology and Hydromechanics, 2013, 61, 269-277.	0.7	15
48	Probabilistic streamflow forecast based on spatial post-processing of TIGGE precipitation forecasts. Stochastic Environmental Research and Risk Assessment, 2019, 33, 1939-1950.	1.9	15
49	Multivariate groundwater drought analysis using copulas. Hydrology Research, 2020, 51, 666-685.	1.1	15
50	Application of unit response approach for spatial prioritization of runoff and sediment sources. Agricultural Water Management, 2012, 109, 36-45.	2.4	14
51	Effect of Extraordinary Large Floods on at-site Flood Frequency. Water Resources Management, 2017, 31, 4187-4205.	1.9	14
52	Hydrological drought class early warning using support vector machines and rough sets. Environmental Earth Sciences, 2021, 80, 1.	1.3	14
53	Nonlinear transformation of unit hydrograph. Journal of Hydrology, 2006, 330, 596-603.	2.3	13
54	Monthly stream flow forecasting via dynamic spatio-temporal models. Stochastic Environmental Research and Risk Assessment, 2015, 29, 861-874.	1.9	13

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55	Evaluation of rainfall spatial correlation effect on rainfall-runoff modeling uncertainty, considering 2-copula. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	12
56	Rainfall-runoff modeling considering soil moisture accounting algorithm, case study: Karoon III River basin. Water Resources, 2016, 43, 699-710.	0.3	12
57	Environmental management in Urmia Lake: thresholds approach. International Journal of Water Resources Development, 2016, 32, 77-88.	1.2	12
58	Evaluation of global ensemble prediction models for forecasting medium to heavy precipitations. Meteorology and Atmospheric Physics, 2021, 133, 15-26.	0.9	12
59	Empirical evaluation of river basin sustainability affected by interâ€basin water transfer using composite indicators. Water and Environment Journal, 2018, 32, 104-111.	1.0	11
60	Loss of Life Estimation Due to Flash Floods in Residential Areas using a Regional Model. Water Resources Management, 2018, 32, 4575-4589.	1.9	11
61	Evaluation of IMERG and MRMS remotely sensed snowfall products. International Journal of Remote Sensing, 2019, 40, 4175-4192.	1.3	11
62	Susceptibility of Hydropower Generation to Climate Change: Karun III Dam Case Study. Water (Switzerland), 2019, 11, 1025.	1.2	11
63	Travel time of curved parallel hillslopes. Hydrology Research, 2014, 45, 190-199.	1.1	10
64	An Ultimatum Game Theory Based Approach for Basin Scale Water Allocation Conflict Resolution. Water Resources Management, 2017, 31, 4293-4308.	1.9	10
65	Coupled Groundwater Drought and Water Scarcity Index for Intensively Overdrafted Aquifers. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	0.8	10
66	Evaluation of coupled ANN-GA model to prioritize flood source areas in ungauged watersheds. Hydrology Research, 2020, 51, 423-442.	1.1	10
67	Comparison Between Active Learning Method and Support Vector Machine for Runoff Modeling. Journal of Hydrology and Hydromechanics, 2012, 60, 16-32.	0.7	9
68	Trend analysis of evapotranspiration over Iran based on <scp>NEXâ€GDDP</scp> highâ€resolution dataset. International Journal of Climatology, 2021, 41, E2073.	1.5	9
69	Distributed catchment simulation using a raster GIS. International Journal of Applied Earth Observation and Geoinformation, 2000, 2, 199-203.	1.4	8
70	Regionalization by fuzzy expert system based approach optimized by genetic algorithm. Journal of Hydrology, 2013, 486, 271-280.	2.3	8
71	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.	1.2	8
72	Performance Evaluation of a Fuzzy Hybrid Clustering Technique to Identify Flood Source Areas. Water Resources Management, 2019, 33, 4621-4636.	1.9	8

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73	The impacts of climate variability and human activities on streamflow change at basin scale. Water Science and Technology: Water Supply, 2020, 20, 889-899.	1.0	8
74	Hydrological alteration and biodiversity change along the river network caused by anthropogenic activities and climate variability. Ecological Processes, 2022, 11, .	1.6	8
75	Hydrological drought early warning based on rainfall threshold. Natural Hazards, 2015, 79, 815-832.	1.6	7
76	Effectiveness of Soil and Water Conservation Practices Under Climate Change in the Gorganroud Basin, Iran. Clean - Soil, Air, Water, 2017, 45, 1700288.	0.7	7
77	Backcasting long-term climate data: evaluation of hypothesis. Theoretical and Applied Climatology, 2018, 132, 717-726.	1.3	7
78	A fuzzy hybrid clustering method for identifying hydrologic homogeneous regions. Journal of Hydroinformatics, 2018, 20, 1367-1386.	1.1	7
79	Adapting reservoir operation rules to hydrological drought state and environmental flow requirements. Journal of Hydrology, 2021, 600, 126581.	2.3	7
80	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.	1.0	6
81	Characterizing flow pattern and salinity using the 3D MIKE 3 model: Urmia Lake case study. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	6
82	Selecting the Best Flood Flow Frequency Model Using Multi-Criteria Group Decision-Making. Water Resources Management, 2014, 28, 3957-3974.	1.9	5
83	Inverse hydrograph routing optimization model based on the kinematic wave approach. Engineering Optimization, 2015, 47, 1031-1042.	1.5	5
84	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.	0.9	5
85	Reduced-Order Salinity Modeling of the Urmia Lake Using MIKE3 and Proper Orthogonal Decomposition Models. Water Resources, 2018, 45, 728-737.	0.3	5
86	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.	1.0	5
87	Skill Assessment of Copernicus Climate Change Service Seasonal Ensemble Precipitation Forecasts over Iran. Advances in Atmospheric Sciences, 2021, 38, 504-521.	1.9	5
88	Performance evaluation of ERA5 precipitation estimates across Iran. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	5
89	Comment on â€œDevelopment and testing of a new storm runoff routing approach based on time variant spatially distributed travel time methodâ€•by Jinkang Du, Hua Xie, Yujun Hu, Youpeng Xu, Chong-Yu Xu. Journal of Hydrology, 2010, 381, 372-373.	2.3	4
90	Evaluation of a novel fuzzy method and a conceptual model for a long-term daily streamflow simulation. River Systems, 2013, 20, 249-260.	0.2	4

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91	Regional analysis of streamflow drought: a case study in southwestern Iran. Environmental Earth Sciences, 2014, 71, 2955-2972.	1.3	4
92	Multi-reservoir system management under alternative policies and environmental operating conditions. Hydrology Research, 2018, 49, 1817-1830.	1.1	4
93	Forensic engineering analysis applied to flood control. Journal of Hydrology, 2021, 594, 125961.	2.3	4
94	Impact of Penalty Policy on Farmersâ€™ Overexploitation Based on Agent-Based Modeling Framework. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	4
95	Dam sediment tracking using spectrometry and Landsat 8 satellite image, Taleghan Basin, Iran. Environmental Monitoring and Assessment, 2016, 188, 104.	1.3	3
96	Simulation and feasibility of biological and structural BMPs for stormwater control in the urbanizing watersheds. Modeling Earth Systems and Environment, 2017, 3, 719-731.	1.9	2
97	Cellular time series: a data structure for spatio-temporal analysis and management of geoscience information. Journal of Hydroinformatics, 2019, 21, 999-1013.	1.1	2
98	Reservoir management under different operating water levels, operation policies, and climate change conditions. Water Management, 0, , 1-1.	0.4	2
99	Closure to â€œValidity of Regional Rainfall Spatial Distribution Methods in Mountainous Areasâ€•by Bahram Saghafian and Sima Rahimi Bondarabadi. Journal of Hydrologic Engineering - ASCE, 2009, 14, 771-771.	0.8	1
100	Regional hydrologic mapping of flows in stream networks. International Journal of Applied Earth Observation and Geoinformation, 2009, 11, 317-323.	1.4	1
101	An Integrated Approach for Site Selection of Snow Measurement Stations. Water (Switzerland), 2016, 8, 539.	1.2	1
102	Analytical Derivation of Overland Travel Time Based on Diffusive Wave Solution. Journal of Hydrologic Engineering - ASCE, 2016, 21, 04015065.	0.8	1
103	A new approach for bias adjustment of IMERG remotely sensed snowfall product. Theoretical and Applied Climatology, 2021, 143, 675-690.	1.3	1
104	Applicability of Rainfallâ€“Runoff Models in Two Simplified Watersheds. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 0, , 1.	1.0	1
105	Uncertainty Analysis of Monthly Streamflow Forecasting. Current World Environment Journal, 2014, 9, 894-902.	0.2	1
106	The Effect of Involving Exceptional Outlier Data on Design Flood Magnitude. Current World Environment Journal, 2015, 10, 698-706.	0.2	1
107	Coupled GA-hydrological modeling for the optimal spatial distribution of biological soil and water conservation measures. Acta Geophysica, 2022, 70, 1815-1828.	1.0	1
108	Reconstruction of water balance components using treeâ€•ring proxy records. Water and Environment Journal, 2020, 34, 381-390.	1.0	0

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109	Closure to â€œCoupled Groundwater Drought and Water Scarcity Index for Intensively Overdrafted Aquifersâ€•by Hamid Sanginabadi, Bahram Saghafian, and Majid Delavar. Journal of Hydrologic Engineering - ASCE, 2020, 25, 07019006.	0.8	0
110	Quantifying streamflow drivers by anthropogenic time series attribution method in human-nature system. Theoretical and Applied Climatology, 2021, 144, 1335-1348.	1.3	0