

List of Publications by Citations

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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.

188 papers	4,977 citations	35 h-index	64 g-index
200 ext. papers	6,157 ext. citations	3.5 avg, IF	6.67 L-index

#	Paper	IF	Citations
188	Applications of hybrid wavelet Artificial Intelligence models in hydrology: A review. <i>Journal of Hydrology</i> , 2014 , 514, 358-377	6	419
187	A Multivariate ANN-Wavelet Approach for Rainfall-Runoff Modeling. <i>Water Resources Management</i> , 2009 , 23, 2877-2894	3.7	243
186	Two hybrid Artificial Intelligence approaches for modeling rainfall-runoff process. <i>Journal of Hydrology</i> , 2011 , 402, 41-59	6	229
185	A combined neural-wavelet model for prediction of Ligvanchai watershed precipitation. <i>Engineering Applications of Artificial Intelligence</i> , 2009 , 22, 466-472	7.2	209
184	Daily suspended sediment concentration simulation using ANN and neuro-fuzzy models. <i>Science of the Total Environment</i> , 2009 , 407, 4916-27	10.2	184
183	An ANN-based model for spatiotemporal groundwater level forecasting. <i>Hydrological Processes</i> , 2008 , 22, 5054-5066	3.3	133
182	Using self-organizing maps and wavelet transforms for space-time pre-processing of satellite precipitation and runoff data in neural network based rainfall-runoff modeling. <i>Journal of Hydrology</i> , 2013 , 476, 228-243	6	115
181	A review of the artificial intelligence methods in groundwater level modeling. <i>Journal of Hydrology</i> , 2019 , 572, 336-351	6	113
180	Sensitivity analysis of the artificial neural network outputs in simulation of the evaporation process at different climatologic regimes. <i>Advances in Engineering Software</i> , 2012 , 47, 127-146	3.6	111
179	Landslide susceptibility mapping at Zonouz Plain, Iran using genetic programming and comparison with frequency ratio, logistic regression, and artificial neural network models. <i>Natural Hazards</i> , 2014 , 71, 523-547	3	106
178	An Emotional ANN (EANN) approach to modeling rainfall-runoff process. <i>Journal of Hydrology</i> , 2017 , 544, 267-277	6	96
177	River Suspended Sediment Load Prediction: Application of ANN and Wavelet Conjunction Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011 , 16, 613-627	1.8	94
176	Wavelet-entropy data pre-processing approach for ANN-based groundwater level modeling. <i>Journal of Hydrology</i> , 2015 , 524, 255-269	6	89
175	Hybrid Wavelet-Genetic Programming Approach to Optimize ANN Modeling of Rainfall-Runoff Process. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 724-741	1.8	83
174	Genetic programming in water resources engineering: A state-of-the-art review. <i>Journal of Hydrology</i> , 2018 , 566, 643-667	6	79
173	Multi-step ahead modelling of river water quality parameters using ensemble artificial intelligence-based approach. <i>Journal of Hydrology</i> , 2019 , 577, 123962	6	69
172	Wastewater treatment plant performance analysis using artificial intelligence - an ensemble approach. <i>Water Science and Technology</i> , 2018 , 78, 2064-2076	2.2	69

171	Daily and monthly suspended sediment load predictions using wavelet based artificial intelligence approaches. <i>Journal of Mountain Science</i> , 2015 , 12, 85-100	2.1	68
170	A new approach for simulating and forecasting the rainfall-runoff process within the next two months. <i>Journal of Hydrology</i> , 2017 , 548, 588-597	6	66
169	A geomorphology-based ANFIS model for multi-station modeling of rainfall-runoff process. <i>Journal of Hydrology</i> , 2013 , 490, 41-55	6	62
168	A hybrid support vector regression-firefly model for monthly rainfall forecasting. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 335-346	3.3	54
167	Spatiotemporal Groundwater Level Forecasting in Coastal Aquifers by Hybrid Artificial Neural Network-Geostatistics Model: A Case Study. <i>Environmental Engineering Science</i> , 2011 , 28, 217-228	2	53
166	Estimation of daily global solar radiation using wavelet regression, ANN, GEP and empirical models: A comparative study of selected temperature-based approaches. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016 , 149, 131-145	2	50
165	Emotional ANN (EANN) and Wavelet-ANN (WANN) Approaches for Markovian and Seasonal Based Modeling of Rainfall-Runoff Process. <i>Water Resources Management</i> , 2018 , 32, 3441-3456	3.7	49
164	Prediction of daily suspended sediment load using wavelet and neurofuzzy combined model. <i>International Journal of Environmental Science and Technology</i> , 2010 , 7, 93-110	3.3	49
163	Multi-station artificial intelligence based ensemble modeling of reference evapotranspiration using pan evaporation measurements. <i>Journal of Hydrology</i> , 2019 , 577, 123958	6	48
162	Conjunction of SOM-based feature extraction method and hybrid wavelet-ANN approach for rainfall-runoff modeling. <i>Journal of Hydroinformatics</i> , 2013 , 15, 829-848	2.6	48
161	Semi-distributed flood runoff model at the subcontinental scale for southwestern Iran. <i>Hydrological Processes</i> , 2007 , 21, 3173-3180	3.3	48
160	Comparative evaluation of intelligent algorithms to improve adaptive neuro-fuzzy inference system performance in precipitation modelling. <i>Journal of Hydrology</i> , 2019 , 571, 214-224	6	47
159	Spatiotemporal groundwater level modeling using hybrid artificial intelligence-meshless method. <i>Journal of Hydrology</i> , 2016 , 536, 10-25	6	47
158	Evaluation of a Two-Stage SVM and Spatial Statistics Methods for Modeling Monthly River Suspended Sediment Load. <i>Water Resources Management</i> , 2016 , 30, 393-407	3.7	47
157	A Pareto-optimal moving average-multigene genetic programming model for rainfall-runoff modelling. <i>Environmental Modelling and Software</i> , 2017 , 92, 239-251	5.2	46
156	Three geomorphological rainfall-runoff models based on the linear reservoir concept. <i>Catena</i> , 2009 , 76, 206-214	5.8	40
155	Hybrid Wavelet-M5 Model Tree for Rainfall-Runoff Modeling. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019 , 24, 04019012	1.8	38
154	Trend analysis of hydroclimatological variables in Urmia lake basin using hybrid wavelet Mann-Kendall and En tests. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	36

153	Earthfill dam seepage analysis using ensemble artificial intelligence based modeling. <i>Journal of Hydroinformatics</i> , 2018 , 20, 1071-1084	2.6	35
152	Two Semidistributed ANN-Based Models for Estimation of Suspended Sediment Load. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 1368-1380	1.8	34
151	Neuro-fuzzy models employing wavelet analysis for suspended sediment concentration prediction in rivers. <i>Hydrological Sciences Journal</i> , 2010 , 55, 1175-1189	3.5	33
150	An emotional artificial neural network for prediction of vehicular traffic noise. <i>Science of the Total Environment</i> , 2020 , 707, 136134	10.2	33
149	Application of a hybrid association rules/decision tree model for drought monitoring. <i>Global and Planetary Change</i> , 2017 , 159, 37-45	4.2	32
148	Artificial intelligence based ensemble model for prediction of vehicular traffic noise. <i>Environmental Research</i> , 2020 , 180, 108852	7.9	32
147	Multi-step ahead modeling of reference evapotranspiration using a multi-model approach. <i>Journal of Hydrology</i> , 2020 , 581, 124434	6	31
146	A Wavelet Based Data Mining Technique for Suspended Sediment Load Modeling. <i>Water Resources Management</i> , 2019 , 33, 1769-1784	3.7	30
145	Integrated Artificial Neural Network for Spatiotemporal Modeling of Rainfall-Runoff-Sediment Processes. <i>Environmental Engineering Science</i> , 2010 , 27, 411-422	2	30
144	On the pore structures of lightweight self-compacting concrete containing silica fume. <i>Construction and Building Materials</i> , 2018 , 193, 557-564	6.7	30
143	Data-driven ensemble model to statistically downscale rainfall using nonlinear predictor screening approach. <i>Journal of Hydrology</i> , 2018 , 565, 538-551	6	30
142	A binary genetic programming model for teleconnection identification between global sea surface temperature and local maximum monthly rainfall events. <i>Journal of Hydrology</i> , 2017 , 555, 397-406	6	29
141	Application of ant colony optimization to optimal design of open channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009 , 47, 656-665	1.9	29
140	Development of Nonlinear Model Based on Wavelet-ANFIS for Rainfall Forecasting at Klang Gates Dam. <i>Water Resources Management</i> , 2014 , 28, 2999-3018	3.7	28
139	Forecasting Daily Precipitation Using Hybrid Model of Wavelet-Artificial Neural Network and Comparison with Adaptive Neurofuzzy Inference System (Case Study: Verayneh Station, Nahavand). <i>Advances in Civil Engineering</i> , 2014 , 2014, 1-12	1.3	28
138	Conjunction of emotional ANN (EANN) and wavelet transform for rainfall-runoff modeling. <i>Journal of Hydroinformatics</i> , 2019 , 21, 136-152	2.6	28
137	Season Algorithm-Multigene Genetic Programming: A New Approach for Rainfall-Runoff Modelling. <i>Water Resources Management</i> , 2018 , 32, 2665-2679	3.7	27
136	Integration of Artificial Neural Networks with Radial Basis Function Interpolation in Earthfill Dam Seepage Modeling. <i>Journal of Computing in Civil Engineering</i> , 2013 , 27, 183-195	5	27

135	Conjunction of a newly proposed emotional ANN (EANN) and wavelet transform for suspended sediment load modeling. <i>Water Science and Technology: Water Supply</i> , 2019 , 19, 1726-1734	1.4	26
134	Estimation of prediction interval in ANN-based multi-GCMs downscaling of hydro-climatologic parameters. <i>Journal of Hydrology</i> , 2019 , 579, 124226	6	26
133	Genetic Programming Simulation of Dam Breach Hydrograph and Peak Outflow Discharge. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 757-768	1.8	26
132	Investigating the Ability of Artificial Neural Network (ANN) Models to Estimate Missing Rain-gauge Data. <i>Journal of Environmental Informatics</i> , 2012 , 19, 38-50	3	26
131	ANN-based statistical downscaling of climatic parameters using decision tree predictor screening method. <i>Theoretical and Applied Climatology</i> , 2019 , 137, 1729-1746	3	26
130	Multi-region Modeling of Daily Global Solar Radiation with Artificial Intelligence Ensemble. <i>Natural Resources Research</i> , 2019 , 28, 1217-1238	4.9	25
129	Using artificial neural networks (ANNs) for sediment load forecasting of Talkherood river mouth. <i>Journal of Urban and Environmental Engineering</i> , 2009 , 3, 1-6	1.5	25
128	Threshold-Based Hybrid Data Mining Method for Long-Term Maximum Precipitation Forecasting. <i>Water Resources Management</i> , 2017 , 31, 2645-2658	3.7	23
127	A new hybrid algorithm for rainfall-runoff process modeling based on the wavelet transform and genetic fuzzy system. <i>Journal of Hydroinformatics</i> , 2014 , 16, 1004-1024	2.6	22
126	Liquid Analog Model for Laboratory Simulation of Rainfall-Runoff Process. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007 , 12, 246-255	1.8	21
125	Data mining based on wavelet and decision tree for rainfall-runoff simulation 2019 , 50, 75-84		21
124	Multi-station streamflow forecasting using wavelet denoising and artificial intelligence models. <i>Procedia Computer Science</i> , 2017 , 120, 617-624	1.6	20
123	Artificial Intelligence Based Ensemble Modeling for Multi-Station Prediction of Precipitation. <i>Atmosphere</i> , 2019 , 10, 80	2.7	20
122	Assessment of land use and climate change effects on land subsidence using a hydrological model and radar technique. <i>Journal of Hydrology</i> , 2019 , 578, 124070	6	19
121	Pareto-optimal MPSA-MGGP: A new gene-annealing model for monthly rainfall forecasting. <i>Journal of Hydrology</i> , 2019 , 571, 406-415	6	19
120	A multiscale time-space approach to analyze and categorize the precipitation fluctuation based on the wavelet transform and information theory concept 2018 , 49, 724-743		19
119	Hybrid of SOM-Clustering Method and Wavelet-ANFIS Approach to Model and Infill Missing Groundwater Level Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 05016018	1.8	19
118	Conjunction of wavelet transform and SOM-mutual information data pre-processing approach for AI-based Multi-Station nitrate modeling of watersheds. <i>Journal of Hydrology</i> , 2017 , 548, 170-183	6	18

117	Emotional artificial neural networks (EANNs) for multi-step ahead prediction of monthly precipitation; case study: northern Cyprus. <i>Theoretical and Applied Climatology</i> , 2019 , 138, 1419-1434	3	18
116	Application of different clustering approaches to hydroclimatological catchment regionalization in mountainous regions, a case study in Utah State. <i>Journal of Mountain Science</i> , 2018 , 15, 461-484	2.1	18
115	Spatiotemporal variation of water pollution near landfill site: Application of clustering methods to assess the admissibility of LWPI. <i>Journal of Hydrology</i> , 2020 , 591, 125581	6	18
114	Multi-Site Calibration of Linear Reservoir Based Geomorphologic Rainfall-Runoff Models. <i>Water (Switzerland)</i> , 2014 , 6, 2690-2716	3	17
113	Integrated ANN model for earthfill dams seepage analysis: Sattarkhan Dam in Iran. <i>Artificial Intelligence Research</i> , 2012 , 1, 22	0.3	17
112	Geomorphology-based genetic programming approach for rainfall-runoff modeling. <i>Journal of Hydroinformatics</i> , 2013 , 15, 427-445	2.6	17
111	Rainfall time series disaggregation in mountainous regions using hybrid wavelet-artificial intelligence methods. <i>Environmental Research</i> , 2019 , 168, 306-318	7.9	17
110	Wavelet-based trend analysis of hydrological processes at different timescales. <i>Journal of Water and Climate Change</i> , 2015 , 6, 414-435	2.3	16
109	Implementation of artificial neural network technique in the simulation of dam breach hydrograph. <i>Journal of Hydroinformatics</i> , 2012 , 14, 478-496	2.6	16
108	An integrated simulation-optimization framework to optimize the reservoir operation adapted to climate change scenarios. <i>Journal of Hydrology</i> , 2020 , 587, 125018	6	16
107	Self-organizing map clustering technique for ANN-based spatiotemporal modeling of groundwater quality parameters. <i>Journal of Hydroinformatics</i> , 2016 , 18, 288-309	2.6	16
106	Conjunction of wavelet-entropy and SOM clustering for multi-GCM statistical downscaling 2019 , 50, 1-23		16
105	Hybrid denoising-jittering data pre-processing approach to enhance multi-step-ahead rainfall-runoff modeling. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 545-562	3.5	15
104	Improving capability of conceptual modeling of watershed rainfall-runoff using hybrid wavelet-extreme learning machine approach. <i>Journal of Hydroinformatics</i> , 2018 , 20, 69-87	2.6	15
103	Conjunction of radial basis function interpolator and artificial intelligence models for time-space modeling of contaminant transport in porous media. <i>Journal of Hydrology</i> , 2017 , 548, 569-587	6	14
102	Topmodel capability for rainfall-runoff modeling of the Ammameh watershed at different time scales using different terrain algorithms. <i>Journal of Urban and Environmental Engineering</i> , 2011 , 5, 1-14	1.5	14
101	Optimal Design and Feature Selection by Genetic Algorithm for Emotional Artificial Neural Network (EANN) in Rainfall-Runoff Modeling. <i>Water Resources Management</i> , 2021 , 35, 2369-2384	3.7	14
100	Data pre-processing effect on ANN-based prediction intervals construction of the evaporation process at different climate regions in Iran. <i>Journal of Hydrology</i> , 2020 , 588, 125078	6	13

99	Multi-station runoff-sediment modeling using seasonal LSTM models. <i>Journal of Hydrology</i> , 2021 , 601, 126672	6	13
98	Wavelet-based regularization of the extracted topographic index from high-resolution topography for hydro-geomorphic applications. <i>Hydrological Processes</i> , 2014 , 28, 1345-1357	3.3	12
97	Investigating the effect of hydroclimatological variables on Urmia Lake water level using wavelet coherence measure. <i>Journal of Water and Climate Change</i> , 2019 , 10, 13-29	2.3	12
96	A new approach to flow simulation using hybrid models. <i>Applied Water Science</i> , 2017 , 7, 3691-3706	5	11
95	Multifractal description of daily rainfall fields over India. <i>Journal of Hydrology</i> , 2020 , 586, 124913	6	11
94	Evaluation of Wavelet-Based De-noising Approach in Hydrological Models Linked to Artificial Neural Networks 2014 , 209-241		11
93	Performance prediction of tunnel boring machine through developing high accuracy equations: A case study in adverse geological condition. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 152, 107244	4.6	11
92	Data pre-post processing methods in AI-based modeling of seepage through earthen dams. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 147, 106820	4.6	10
91	Multi-parametric modeling of water treatment plant using AI-based non-linear ensemble 2019 , 68, 547-561		10
90	Emotional ANN (EANN): A New Generation of Neural Networks for Hydrological Modeling in IoT. <i>Transactions on Computational Science and Computational Intelligence</i> , 2019 , 45-61	0.9	10
89	Wavelet-Exponential Smoothing: a New Hybrid Method for Suspended Sediment Load Modeling. <i>Environmental Processes</i> , 2019 , 6, 191-218	2.8	10
88	Effect of semi-rigid connections in improvement of seismic performance of steel moment-resisting frames. <i>Steel and Composite Structures</i> , 2015 , 19, 467-484		9
87	Spatiotemporal precipitation modeling by artificial intelligence-based ensemble approach. <i>Environmental Earth Sciences</i> , 2020 , 79, 1	2.9	9
86	Ensemble data-driven rainfall-runoff modeling using multi-source satellite and gauge rainfall data input fusion. <i>Earth Science Informatics</i> , 1	2.5	9
85	Artificial intelligence based ensemble modeling of wastewater treatment plant using jittered data. <i>Journal of Cleaner Production</i> , 2021 , 291, 125772	10.3	9
84	Sustainable Management of Reservoir Water Quality and Quantity Through Reservoir Operational Strategy and Watershed Control Strategies. <i>International Journal of Environmental Research</i> , 2018 , 12, 773-788	2.9	9
83	Implication of remotely sensed data to incorporate land cover effect into a linear reservoir-based rainfall-runoff model. <i>Journal of Hydrology</i> , 2015 , 529, 94-105	6	8
82	Wavelet-IANN model for predicting flow discharge up to several days and months ahead. <i>Journal of Hydroinformatics</i> , 2018 , 20, 134-148	2.6	8

81	Prediction Interval Estimation Methods for Artificial Neural Network (ANN)-Based Modeling of the Hydro-Climatic Processes, a Review. <i>Sustainability</i> , 2021 , 13, 1633	3.6	8
80	Integration of hard and soft supervised machine learning for flood susceptibility mapping. <i>Journal of Environmental Management</i> , 2021 , 291, 112731	7.9	8
79	Application of hydrogeological and biological research for the lysimeter experiment performance under simulated municipal landfill condition. <i>Journal of Material Cycles and Waste Management</i> , 2019 , 21, 1477-1487	3.4	7
78	Unsteady 2-D seepage simulation using physical analog, case of Sattarkhan embankment dam. <i>Journal of Hydrology</i> , 2014 , 519, 177-189	6	7
77	Coupling wavelet transform with multivariate adaptive regression spline for simulating suspended sediment load: Independent testing approach. <i>ISH Journal of Hydraulic Engineering</i> , 2020 , 1-10	1.5	7
76	Development of artificial intelligence models for well groundwater quality simulation: Different modeling scenarios. <i>PLoS ONE</i> , 2021 , 16, e0251510	3.7	7
75	Estimation of Suspended Sediment Load Using Artificial Intelligence-Based Ensemble Model. <i>Complexity</i> , 2021 , 2021, 1-19	1.6	7
74	An inverse method for watershed change detection using hybrid conceptual and artificial intelligence approaches. <i>Journal of Hydrology</i> , 2018 , 562, 371-384	6	7
73	Hydrological model parameterization using NDVI values to account for the effects of land cover change on the rainfall-runoff response 2017 , 48, 1455-1473		6
72	Experimental and AI-based numerical modeling of contaminant transport in porous media. <i>Journal of Contaminant Hydrology</i> , 2017 , 205, 78-95	3.9	6
71	Capability of Artificial Neural Network for Detecting Hysteresis Phenomenon Involved in Hydrological Processes. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 896-906	1.8	6
70	Ecological-environmental quality estimation using remote sensing and combined artificial intelligence techniques. <i>Journal of Hydroinformatics</i> , 2021 , 23, 47-65	2.6	6
69	A COMPARATIVE STUDY ON CALIBRATION METHODS OF NASH8 RAINFALL-RUNOFF MODEL TO AMMAMEH WATERSHED, IRAN. <i>Journal of Urban and Environmental Engineering</i> , 2008 , 2, 14-20	1.5	6
68	Studying of flow model and bed load transport in a coarse bed river: case study [Aland River, Iran. <i>Journal of Hydroinformatics</i> , 2011 , 13, 850-866	2.6	5
67	Artificial intelligence models for suspended river sediment prediction: state-of-the art, modeling framework appraisal, and proposed future research directions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1585-1612	4.5	5
66	Application of Entropy Concept for Input Selection of Wavelet-ANN based Rainfall-Runoff Modeling. <i>Journal of Environmental Informatics</i> ,	3	5
65	Application of Z-numbers to monitor drought using large-scale oceanic-atmospheric parameters. <i>Journal of Hydrology</i> , 2021 , 598, 126198	6	5
64	Hybrid denoising-jittering data processing approach to enhance sediment load prediction of muddy rivers. <i>Journal of Mountain Science</i> , 2016 , 13, 2135-2146	2.1	5

63	A cost model with several hydraulic constraints for optimizing in practice a trapezoidal cross section. <i>Journal of Hydroinformatics</i> , 2017 , 19, 456-468	2.6	4
62	Wavelet Based Artificial Intelligence Approaches for Prediction of Hydrological Time Series. <i>Lecture Notes in Computer Science</i> , 2015 , 422-435	0.9	4
61	Robust clustering for assessing the spatiotemporal variability of groundwater quantity and quality. <i>Journal of Hydrology</i> , 2022 , 604, 127272	6	4
60	The potential of integrated hybrid pre-post-processing techniques for short- to long-term drought forecasting. <i>Journal of Hydroinformatics</i> , 2021 , 23, 117-135	2.6	4
59	Geomorphological Runoff Routing Modeling Based on Linear Reservoirs Cascade. <i>Journal of Applied Sciences</i> , 2008 , 8, 1660-1667	0.3	4
58	Climate change or regional human impacts? Remote sensing tools, artificial neural networks, and wavelet approaches aim to solve the problem 2021 , 52, 176-195		4
57	Investigating the main reasons for the tragedy of large saline lakes: Drought, climate change, or anthropogenic activities? A call to action. <i>Journal of Arid Environments</i> , 2022 , 196, 104652	2.5	4
56	Wavelet Packet-Genetic Programming: A New Model for Meteorological Drought Hindcasting. <i>Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers</i> ,	2	4
55	Investigation of climate, land cover and lake level pattern changes and interactions using remotely sensed data and wavelet analysis. <i>Ecological Informatics</i> , 2021 , 64, 101330	4.2	4
54	A New Evolutionary Hybrid Random Forest Model for SPEI Forecasting. <i>Water (Switzerland)</i> , 2022 , 14, 755	3	4
53	Detection of land use/cover change effect on watershed response in generating runoff using computational intelligence approaches. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 1341-1357	3.5	3
52	Evaluation of nonlinear models for precipitation forecasting. <i>Hydrological Sciences Journal</i> , 2017 , 62, 2695-2704	3.5	3
51	ANN-RBF Hybrid Model for Spatiotemporal Estimation of Monthly Precipitation Case Study. <i>International Journal of Applied Metaheuristic Computing</i> , 2013 , 4, 1-16	0.8	3
50	Application of Z-numbers to teleconnection modeling between monthly precipitation and large scale sea surface temperature		3
49	Impact of climate change on hydro-climatological parameters in North Cyprus: application of artificial intelligence-based statistical downscaling models. <i>Journal of Hydroinformatics</i> ,	2.6	3
48	A comparison of frameworks for separating the impacts of human activities and climate change on river flow in existing records and different near-future scenarios. <i>Hydrological Processes</i> , 2021 , 35, e143013	3.3	3
47	Evaluation of the effluent quality parameters of wastewater treatment plant based on uncertainty analysis and post-processing approaches (case study). <i>Water Science and Technology</i> , 2021 , 83, 1633-1648	2.2	3
46	Forecasting CO pollutant concentration of Tabriz city air using artificial neural network and adaptive neuro-fuzzy inference system and its impact on sustainable development of urban. <i>Environmental Earth Sciences</i> , 2021 , 80, 1	2.9	3

45	Conjunction of artificial intelligence-meshless methods for contaminant transport modeling in porous media: an experimental case study. <i>Journal of Hydroinformatics</i> , 2018 , 20, 1163-1179	2.6	3
44	The utility of a hybrid GEOMOD-Markov Chain model of land-use change in the context of highly water-demanding agriculture in a semi-arid region. <i>Ecological Informatics</i> , 2021 , 64, 101332	4.2	3
43	Quantity and Quality Modeling of Groundwater by Conjugation of ANN and Co-Kriging Approaches 2012 ,		2
42	Using Hybrid ARIMAX-ANN Model for Simulating Rainfall - Runoff - Sediment Process Case Study. <i>International Journal of Applied Metaheuristic Computing</i> , 2013 , 4, 44-60	0.8	2
41	Flood susceptibility mapping in densely populated urban areas using MCDM and fuzzy techniques. <i>IOP Conference Series: Earth and Environmental Science</i> , 491, 012003	0.3	2
40	Assessment of MC&MCMC uncertainty analysis frameworks on SWAT model by focusing on future runoff prediction in a mountainous watershed via CMIP5 models. <i>Journal of Water and Climate Change</i> , 2020 , 11, 1811-1828	2.3	2
39	Using Hybrid Wavelet-Exponential Smoothing Approach for Streamflow Modeling. <i>Complexity</i> , 2021 , 2021, 1-17	1.6	2
38	Wavelet-based multi station disaggregation of rainfall time series in mountainous regions 2019 , 50, 545-561		2
37	Multi-station artificial intelligence based ensemble modeling of suspended sediment load. <i>Water Science and Technology: Water Supply</i> ,	1.4	2
36	Spatiotemporal Analysis of Droughts Over Different Climate Regions Using Hybrid Clustering Method. <i>Water Resources Management</i> , 1	3.7	2
35	Conjunction of cluster ensemble-model ensemble techniques for spatiotemporal assessment of groundwater depletion in semi-arid plains. <i>Journal of Hydrology</i> , 2022 , 610, 127984	6	2
34	Spatial downscaling of radar-derived rainfall field by two-dimensional wavelet transform 2020 , 51, 456-469		1
33	Cascade-based multi-scale AI approach for modeling rainfall-runoff process 2018 , 49, 1191-1207		1
32	Linking Spatial and Temporal Changes of Vegetation Cover with Hydroclimatological Variables in Terrestrial Environments with a Focus on the Lake Urmia Basin. <i>Land</i> , 2022 , 11, 115	3.5	1
31	Improving the performance of random forest for estimating monthly reservoir inflow via complete ensemble empirical mode decomposition and wavelet analysis. <i>Stochastic Environmental Research and Risk Assessment</i> , 1	3.5	1
30	Multi-station calibration strategy for evaluation and sensitivity analysis of the snowmelt runoff model using MODIS satellite images		1
29	Artificial Intelligence Based and Linear Conventional Techniques for Reference Evapotranspiration Modeling. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 197-204	0.4	1
28	Non-linear Ensemble Modeling for Multi-step Ahead Prediction of Treated COD in Wastewater Treatment Plant. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 683-689	0.4	1

27	A statistical framework to project wave climate and energy potential in the Caspian Sea: application of CMIP6 scenarios. <i>International Journal of Environmental Science and Technology</i> ,1	3.3	1
26	A novel multi-model data-driven ensemble approach for the prediction of particulate matter concentration. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 49663-49677	5.1	1
25	Reconstruction of network connectivity by the interplay between complex structure and dynamics to discover climate networks. <i>Theoretical and Applied Climatology</i> , 2021 , 143, 969-987	3	1
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