

# Mohammad Zounemat-Kermani

## 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.

104 papers	2,691 citations	30 h-index	48 g-index
110 ext. papers	3,350 ext. citations	3.9 avg, IF	6.09 L-index

#	Paper	IF	Citations
104	Daily suspended sediment concentration simulation using ANN and neuro-fuzzy models. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 4916-27	10.2	184
103	Solar radiation prediction using different techniques: model evaluation and comparison. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 61, 384-397	16.2	175
102	Using adaptive neuro-fuzzy inference system for hydrological time series prediction. <i>Applied Soft Computing Journal</i> , <b>2008</b> , 8, 928-936	7.5	116
101	Estimation of current-induced scour depth around pile groups using neural network and adaptive neuro-fuzzy inference system. <i>Applied Soft Computing Journal</i> , <b>2009</b> , 9, 746-755	7.5	99
100	River Suspended Sediment Load Prediction: Application of ANN and Wavelet Conjunction Model. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2011</b> , 16, 613-627	1.8	94
99	Daily streamflow prediction using optimally pruned extreme learning machine. <i>Journal of Hydrology</i> , <b>2019</b> , 577, 123981	6	90
98	Pan evaporation modeling using six different heuristic computing methods in different climates of China. <i>Journal of Hydrology</i> , <b>2017</b> , 544, 407-427	6	84
97	Least square support vector machine and multivariate adaptive regression splines for streamflow prediction in mountainous basin using hydro-meteorological data as inputs. <i>Journal of Hydrology</i> , <b>2020</b> , 586, 124371	6	81
96	Long-term monthly evapotranspiration modeling by several data-driven methods without climatic data. <i>Computers and Electronics in Agriculture</i> , <b>2015</b> , 115, 66-77	6.5	77
95	Evaluation of data driven models for river suspended sediment concentration modeling. <i>Journal of Hydrology</i> , <b>2016</b> , 535, 457-472	6	74
94	Prediction of solar radiation in China using different adaptive neuro-fuzzy methods and M5 model tree. <i>International Journal of Climatology</i> , <b>2017</b> , 37, 1141-1155	3.5	66
93	Performance of radial basis and LM-feed forward artificial neural networks for predicting daily watershed runoff. <i>Applied Soft Computing Journal</i> , <b>2013</b> , 13, 4633-4644	7.5	63
92	Modeling soil temperatures at different depths by using three different neural computing techniques. <i>Theoretical and Applied Climatology</i> , <b>2015</b> , 121, 377-387	3	59
91	Drought forecasting using novel heuristic methods in a semi-arid environment. <i>Journal of Hydrology</i> , <b>2019</b> , 578, 124053	6	57
90	Comparison of Two Different Adaptive Neuro-Fuzzy Inference Systems in Modelling Daily Reference Evapotranspiration. <i>Water Resources Management</i> , <b>2014</b> , 28, 2655-2675	3.7	54
89	Evaporation modelling using different machine learning techniques. <i>International Journal of Climatology</i> , <b>2017</b> , 37, 1076-1092	3.5	52
88	Daily pan evaporation modeling using chi-squared automatic interaction detector, neural networks, classification and regression tree. <i>Computers and Electronics in Agriculture</i> , <b>2016</b> , 122, 112-117	6.5	51

87	Learning from Multiple Models Using Artificial Intelligence to Improve Model Prediction Accuracies: Application to River Flows. <i>Water Resources Management</i> , <b>2018</b> , 32, 4201-4215	3.7	46
86	Hourly predictive Levenberg-Marquardt ANN and multi linear regression models for predicting of dew point temperature. <i>Meteorology and Atmospheric Physics</i> , <b>2012</b> , 117, 181-192	2	46
85	A comparative study of several machine learning based non-linear regression methods in estimating solar radiation: Case studies of the USA and Turkey regions. <i>Energy</i> , <b>2020</b> , 197, 117239	7.9	45
84	Modelling long-term groundwater fluctuations by extreme learning machine using hydro-climatic data. <i>Hydrological Sciences Journal</i> , <b>2018</b> , 63, 63-73	3.5	45
83	Suspended Sediment Modeling Using Neuro-Fuzzy Embedded Fuzzy c-Means Clustering Technique. <i>Water Resources Management</i> , <b>2016</b> , 30, 3979-3994	3.7	40
82	Prediction of Suspended Sediment Load Using Data-Driven Models. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 2060	3	36
81	Modeling groundwater fluctuations by three different evolutionary neural network techniques using hydroclimatic data. <i>Natural Hazards</i> , <b>2017</b> , 87, 367-381	3	34
80	Ensemble data mining modeling in corrosion of concrete sewer: A comparative study of network-based (MLPNN & RBFNN) and tree-based (RF, CHAID, & CART) models. <i>Advanced Engineering Informatics</i> , <b>2020</b> , 43, 101030	7.4	34
79	Improving streamflow prediction using a new hybrid ELM model combined with hybrid particle swarm optimization and grey wolf optimization. <i>Knowledge-Based Systems</i> , <b>2021</b> , 230, 107379	7.3	34
78	Neurocomputing in surface water hydrology and hydraulics: A review of two decades retrospective, current status and future prospects. <i>Journal of Hydrology</i> , <b>2020</b> , 588, 125085	6	33
77	Groundwater quality modeling using neuro-particle swarm optimization and neuro-differential evolution techniques <b>2017</b> , 48, 1508-1519		31
76	Ensemble machine learning paradigms in hydrology: A review. <i>Journal of Hydrology</i> , <b>2021</b> , 598, 126266	6	31
75	Trend analysis of monthly streamflows using Bn's innovative trend method. <i>Geofizika</i> , <b>2018</b> , 35, 53-68	1.3	31
74	Hybrid meta-heuristics artificial intelligence models in simulating discharge passing the piano key weirs. <i>Journal of Hydrology</i> , <b>2019</b> , 569, 12-21	6	30
73	Can Decomposition Approaches Always Enhance Soft Computing Models? Predicting the Dissolved Oxygen Concentration in the St. Johns River, Florida. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2534	2.6	29
72	Modeling and comparison of hourly photosynthetically active radiation in different ecosystems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 56, 436-453	16.2	27
71	A wavelet-linear genetic programming model for sodium (Na <sup>+</sup> ) concentration forecasting in rivers. <i>Journal of Hydrology</i> , <b>2016</b> , 537, 398-407	6	27
70	Subset Modeling Basis ANFIS for Prediction of the Reference Evapotranspiration. <i>Water Resources Management</i> , <b>2018</b> , 32, 1101-1116	3.7	26

69	Time series analysis on marine wind-wave characteristics using chaos theory. <i>Ocean Engineering</i> , <b>2015</b> , 100, 46-53	3.9	24
68	On the complexities of sediment load modeling using integrative machine learning: Application of the great river of Loġa in Puerto Rico. <i>Journal of Hydrology</i> , <b>2020</b> , 585, 124759	6	24
67	Hydrometeorological Parameters in Prediction of Soil Temperature by Means of Artificial Neural Network: Case Study in Wyoming. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2013</b> , 18, 707-718	1.8	23
66	Assessment of Artificial IntelligenceBased Models and Metaheuristic Algorithms in Modeling Evaporation. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2019</b> , 24, 04019033	1.8	21
65	Modeling of Dissolved Oxygen Applying Stepwise Regression and a Template-Based Fuzzy Logic System. <i>Journal of Environmental Engineering, ASCE</i> , <b>2014</b> , 140, 69-76	2	21
64	PRINCIPAL COMPONENT ANALYSIS (PCA) FOR ESTIMATING CHLOROPHYLL CONCENTRATION USING FORWARD AND GENERALIZED REGRESSION NEURAL NETWORKS. <i>Applied Artificial Intelligence</i> , <b>2014</b> , 28, 16-29	2.3	20
63	Prediction of diffuse photosynthetically active radiation using different soft computing techniques. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2017</b> , 143, 2235-2244	6.4	18
62	Deep echo state network: a novel machine learning approach to model dew point temperature using meteorological variables. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 1173-1190	3.5	18
61	Assessing the biochemical oxygen demand using neural networks and ensemble tree approaches in South Korea. <i>Journal of Environmental Management</i> , <b>2020</b> , 270, 110834	7.9	17
60	Sustainability Ranking of Desalination Plants Using Mamdani Fuzzy Logic Inference Systems. <i>Sustainability</i> , <b>2020</b> , 12, 631	3.6	17
59	Multivariate NARX neural network in prediction gaseous emissions within the influent chamber of wastewater treatment plants. <i>Atmospheric Pollution Research</i> , <b>2019</b> , 10, 1812-1822	4.5	17
58	Computing Air Demand Using the TakagiBugeno Model for Dam Outlets. <i>Water (Switzerland)</i> , <b>2013</b> , 5, 1441-1456	3	16
57	Estimating the aeration coefficient and air demand in bottom outlet conduits of dams using GEP and decision tree methods. <i>Flow Measurement and Instrumentation</i> , <b>2017</b> , 54, 9-19	2.2	15
56	Assessment of several nonlinear methods in forecasting suspended sediment concentration in streams <b>2017</b> , 48, 1240-1252		15
55	Wavelet-based variability on streamflow at 40-year timescale in the Black Sea region of Turkey. <i>Arabian Journal of Geosciences</i> , <b>2018</b> , 11, 1	1.8	13
54	Climate Change, Water Quality and Water-Related Challenges: A Review with Focus on Pakistan. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	13
53	Challenging soft computing optimization approaches in modeling complex hydraulic phenomenon of aeration process. <i>ISH Journal of Hydraulic Engineering</i> , <b>2019</b> , 1-12	1.5	13
52	A new integrated model of the group method of data handling and the firefly algorithm (GMDH-FA): application to aeration modelling on spillways. <i>Artificial Intelligence Review</i> , <b>2020</b> , 53, 2549-2569	0.7	13

51	Polynomial chaos expansion and response surface method for nonlinear modelling of reference evapotranspiration. <i>Hydrological Sciences Journal</i> , <b>2019</b> , 64, 720-730	3.5	12
50	Groundwater level prediction using machine learning models: A comprehensive review. <i>Neurocomputing</i> , <b>2022</b> , 489, 271-308	5.4	12
49	Temporal Hydrologic Alterations Coupled with Climate Variability and Drought for Transboundary River Basins. <i>Water Resources Management</i> , <b>2017</b> , 31, 1489-1502	3.7	11
48	Suspended sediment prediction using integrative soft computing models: on the analogy between the butterfly optimization and genetic algorithms. <i>Geocarto International</i> , <b>2020</b> , 1-17	2.7	11
47	Modelling daily soil temperature by hydro-meteorological data at different depths using a novel data-intelligence model: deep echo state network model. <i>Artificial Intelligence Review</i> , <b>2021</b> , 54, 2863-2890	8.7	11
46	Investigating the management performance of disinfection analysis of water distribution networks using data mining approaches. <i>Environmental Monitoring and Assessment</i> , <b>2018</b> , 190, 397	3.1	10
45	Numerical solution of tidal currents at marine waterways using wet and dry technique on Galerkin finite volume algorithm. <i>Computers and Fluids</i> , <b>2009</b> , 38, 1876-1886	2.8	10
44	Comprehensive assessment of 12 soft computing approaches for modelling reference evapotranspiration in humid locations. <i>Meteorological Applications</i> , <b>2020</b> , 27, e1841	2.1	10
43	Numerical modeling based on a finite element method for simulation of flow in furrow irrigation. <i>Paddy and Water Environment</i> , <b>2017</b> , 15, 879-887	1.6	9
42	Estimating incipient motion velocity of bed sediments using different data-driven methods. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 69, 165-176	7.5	9
41	Investigating Chaos and Nonlinear Forecasting in Short Term and Mid-term River Discharge. <i>Water Resources Management</i> , <b>2016</b> , 30, 1851-1865	3.7	9
40	Coupling of two- and three-dimensional hydrodynamic numerical models for simulating wind-induced currents in deep basins. <i>Computers and Fluids</i> , <b>2010</b> , 39, 994-1011	2.8	9
39	Solution of depth-averaged tidal currents in Persian Gulf on unstructured overlapping finite volumes. <i>International Journal for Numerical Methods in Fluids</i> , <b>2007</b> , 55, 81-101	1.9	9
38	Irrigation water infiltration modeling using machine learning. <i>Computers and Electronics in Agriculture</i> , <b>2021</b> , 180, 105921	6.5	9
37	Comparison of six different soft computing methods in modeling evaporation in different climates		8
36	Kernel Extreme Learning Machine: An Efficient Model for Estimating Daily Dew Point Temperature Using Weather Data. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2600	3	8
35	Modeling reference evapotranspiration using a novel regression-based method: radial basis M5 model tree. <i>Theoretical and Applied Climatology</i> , <b>2021</b> , 145, 639-659	3	8
34	Evaluating the application of data-driven intelligent methods to estimate discharge over triangular arced labyrinth weir. <i>Flow Measurement and Instrumentation</i> , <b>2019</b> , 68, 101573	2.2	7

33	Comparing data driven models versus numerical models in simulation of waterfront advance in furrow irrigation. <i>Irrigation Science</i> , <b>2019</b> , 37, 547-560	3.1	7
32	Machine Learning Method in Prediction Streamflow Considering Periodicity Component. <i>Springer Transactions in Civil and Environmental Engineering</i> , <b>2021</b> , 383-403	0.4	7
31	Influence of collars on reduction in scour depth at two piers in a tandem configuration. <i>Acta Geophysica</i> , <b>2020</b> , 68, 229-242	2.2	7
30	Development of artificial intelligence models for well groundwater quality simulation: Different modeling scenarios. <i>PLoS ONE</i> , <b>2021</b> , 16, e0251510	3.7	7
29	Online sequential extreme learning machine in river water quality (turbidity) prediction: a comparative study on different data mining approaches. <i>Water and Environment Journal</i> , <b>2021</b> , 35, 335-348	1.7	7
28	Seasonal Short-Term Prediction of Dissolved Oxygen in Rivers via Nature-Inspired Algorithms. <i>Clean - Soil, Air, Water</i> , <b>2020</b> , 48, 1900300	1.6	6
27	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> , <b>2021</b> , 15, 1585-1612	4.5	5
26	Investigation of local scour around tandem piers for different skew-angles. <i>E3S Web of Conferences</i> , <b>2018</b> , 40, 03008	0.5	5
25	Towards a Comprehensive Assessment of Statistical versus Soft Computing Models in Hydrology: Application to Monthly Pan Evaporation Prediction. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2451	3	5
24	Hydrodynamic modelling of free water-surface constructed storm water wetlands using a finite volume technique. <i>Environmental Technology (United Kingdom)</i> , <b>2015</b> , 36, 2532-47	2.6	4
23	Conjunction of 2D and 3D modified flow solvers for simulating spatio-temporal wind induced hydrodynamics in the Caspian Sea. <i>Ocean Science Journal</i> , <b>2010</b> , 45, 113-128	1.1	4
22	Concrete corrosion in wastewater systems: Prediction and sensitivity analysis using advanced extreme learning machine. <i>Frontiers of Structural and Civil Engineering</i> , <b>2021</b> , 15, 444	2.5	4
21	Embedded fuzzy-based models in hydraulic jump prediction. <i>Journal of Hydroinformatics</i> , <b>2021</b> , 23, 151-170	1.6	3
20	Prediction of Critical Velocity in Pipeline Flow of Slurries Using TLBO Algorithm: A Comprehensive Study. <i>Journal of Pipeline Systems Engineering and Practice</i> , <b>2020</b> , 11, 04019057	1.5	3
19	Prediction of hydro-suction dredging depth using data-driven methods. <i>Frontiers of Structural and Civil Engineering</i> , <b>2021</b> , 15, 652-664	2.5	3
18	Using natural element mesh-free numerical method in solving shallow water equations. <i>European Journal of Environmental and Civil Engineering</i> , <b>2017</b> , 21, 753-767	1.5	2
17	Predicting Sediment transport in sewers using integrative harmony search-ANN model and factor analysis. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 491, 012004	0.3	2
16	Prediction of effluent arsenic concentration of wastewater treatment plants using machine learning and kriging-based models. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	2

15	Arsenic Contamination in Groundwater Resources of Sirjan Plain, Iran. <i>Environmental Engineering Science</i> , <b>2020</b> , 37, 658-668	2	2
14	A comprehensive survey on conventional and modern neural networks: application to river flow forecasting. <i>Earth Science Informatics</i> , <b>2021</b> , 14, 893-911	2.5	2
13	Groundwater quality modeling: On the analogy between integrative PSO and MRFO mathematical and machine learning models. <i>Environmental Quality Management</i> ,	0.8	2
12	Nature-inspired algorithms in sanitary engineering: modelling sediment transport in sewer pipes. <i>Soft Computing</i> , <b>2021</b> , 25, 6373-6390	3.5	2
11	Machine Learning and Water Economy: a New Approach to Predicting Dams Water Sales Revenue. <i>Water Resources Management</i> , <b>2020</b> , 34, 1893-1911	3.7	1
10	Closure to Assessment of Artificial IntelligenceBased Models and Metaheuristic Algorithms in Modeling Evaporationby Mohammad Zounemat-Kermani, Ozgur Kisi, Jamshid Piri, and Amin Mahdavi-Meymand. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2020</b> , 25, 07020015	1.8	1
9	The performance of collars on scour reduction at tandem piers aligned with different skew angles. <i>Marine Georesources and Geotechnology</i> , <b>2020</b> , 38, 911-922	2.2	1
8	An experimental study of the geometric performance of the hydrosuction dredging system. <i>Acta Geophysica</i> , <b>2021</b> , 69, 271-283	2.2	1
7	Predicting dissolved oxygen concentration in river using new advanced machines learning: Long-short term memory (LSTM) deep learning <b>2022</b> , 1-20		1
6	A comprehensive study on the application of firefly algorithm in prediction of energy dissipation on block ramps. <i>Eksploracja I Niezawodnosc</i> , <b>2022</b> , 24, 200-210	3.5	1
5	A long short-term memory deep learning approach for river water temperature prediction <b>2022</b> , 243-270		0
4	Soft Computing Methods and Water Management <b>2022</b> , 342-373		
3	Studying the relationship between the hydraulic and geometry characteristics of labyrinth weirs based on the historical memory of reported data. <i>Flow Measurement and Instrumentation</i> , <b>2021</b> , 82, 102079	2.3	2
2	Soil moisture simulation using individual versus ensemble soft computing models. <i>International Journal of Environmental Science and Technology</i> ,1	3.3	
1	Modeling of wave run-up by applying integrated models of group method of data handling.. <i>Scientific Reports</i> , <b>2022</b> , 12, 8279	4.9	