Isa Ebtehaj

List of Publications by Year
in descending order

214 papers	6,257 citations	53660 45 h-index	114278 63 g-index
221 all docs	221 docs citations	221 times ranked	3500 citing authors

#	Article	IF	Citations
1	Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. Journal of Hydrology, 2017, 554, 263-276.	2.3	192
2	Forecasting air quality time series using deep learning. Journal of the Air and Waste Management Association, 2018, 68, 866-886.	0.9	172
3	Groundwater chloride response in the Highland Creek watershed due to road salt application: A re-assessment after 20years. Journal of Hydrology, 2013, 479, 159-168.	2.3	114
4	Gene expression programming to predict the discharge coefficient in rectangular side weirs. Applied Soft Computing Journal, 2015, 35, 618-628.	4.1	114
5	Gene expression models for prediction of longitudinal dispersion coefficient in streams. Journal of Hydrology, 2015, 524, 587-596.	2.3	112
6	Application of firefly algorithm-based support vector machines for prediction of field capacity and permanent wilting point. Soil and Tillage Research, 2017, 172, 32-38.	2.6	106
7	Rainfall Pattern Forecasting Using Novel Hybrid Intelligent Model Based ANFIS-FFA. Water Resources Management, 2018, 32, 105-122.	1.9	101
8	Performance Evaluation of Adaptive Neural Fuzzy Inference System for Sediment Transport in Sewers. Water Resources Management, 2014, 28, 4765-4779.	1.9	90
9	GMDH-type neural network approach for modeling the discharge coefficient of rectangular sharp-crested side weirs. Engineering Science and Technology, an International Journal, 2015, 18, 746-757.	2.0	89
10	An integrated framework of Extreme Learning Machines for predicting scour at pile groups in clear water condition. Coastal Engineering, 2018, 135, 1-15.	1.7	89
11	Novel hybrid linear stochastic with non-linear extreme learning machine methods for forecasting monthly rainfall a tropical climate. Journal of Environmental Management, 2018, 222, 190-206.	3.8	82
12	Comparative analysis of GMDH neural network based on genetic algorithm and particle swarm optimization in stable channel design. Applied Mathematics and Computation, 2017, 313, 271-286.	1.4	80
13	Evaluation of Sediment Transport in Sewer using Artificial Neural Network. Engineering Applications of Computational Fluid Mechanics, 2013, 7, 382-392.	1.5	78
14	Novel Hybrid Data-Intelligence Model for Forecasting Monthly Rainfall with Uncertainty Analysis. Water (Switzerland), 2019, 11, 502.	1.2	78
15	Implementation of Univariate Paradigm for Streamflow Simulation Using Hybrid Data-Driven Model: Case Study in Tropical Region. IEEE Access, 2019, 7, 74471-74481.	2.6	76
16	Prediction of flow duration curves for ungauged basins. Journal of Hydrology, 2017, 545, 383-394.	2.3	74
17	Pareto genetic design of group method of data handling type neural network for prediction discharge coefficient in rectangular side orifices. Flow Measurement and Instrumentation, 2015, 41, 67-74.	1.0	71
18	Predicting wastewater treatment plant quality parameters using a novel hybrid linear-nonlinear methodology. Journal of Environmental Management, 2019, 240, 463-474.	3.8	71

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19	A reliable linear stochastic daily soil temperature forecast model. Soil and Tillage Research, 2019, 189, 73-87.	2.6	71
20	Integrated SARIMA with Neuro-Fuzzy Systems and Neural Networks for Monthly Inflow Prediction. Water Resources Management, 2017, 31, 2141-2156.	1.9	68
21	Adaptive neuro-fuzzy inference system multi-objective optimization using the genetic algorithm/singular value decomposition method for modelling the discharge coefficient in rectangular sharp-crested side weirs. Engineering Optimization, 2016, 48, 933-948.	1.5	65
22	Evolutionary design of generalized group method of data handling-type neural network for estimating the hydraulic jump roller length. Acta Mechanica, 2018, 229, 1197-1214.	1.1	63
23	Lake Water-Level fluctuations forecasting using Minimax Probability Machine Regression, Relevance Vector Machine, Gaussian Process Regression, and Extreme Learning Machine. Water Resources Management, 2019, 33, 3965-3984.	1.9	63
24	Design of radial basis function-based support vector regression in predicting the discharge coefficient of a side weir in a trapezoidal channel. Applied Water Science, 2019, 9, 1.	2.8	62
25	New insights into soil temperature time series modeling: linear or nonlinear?. Theoretical and Applied Climatology, 2019, 135, 1157-1177.	1.3	62
26	Extreme learning machine assessment for estimating sediment transport in open channels. Engineering With Computers, 2016, 32, 691-704.	3.5	60
27	Predicting the Timing of Water Main Failure Using Artificial Neural Networks. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 425-434.	1.3	59
28	Evolutionary Pareto optimization of an ANFIS network for modeling scour at pile groups in clear water condition. Fuzzy Sets and Systems, 2017, 319, 50-69.	1.6	59
29	Proposing a novel hybrid intelligent model for the simulation of particle size distribution resulting from blasting. Engineering With Computers, 2019, 35, 47-56.	3.5	59
30	Effectiveness of Vegetative Filter Strips in Removal of Sediments from Overland Flow. Water Quality Research Journal of Canada, 2006, 41, 275-282.	1.2	58
31	Design of a support vector machine with different kernel functions to predict scour depth around bridge piers. Natural Hazards, 2016, 84, 2145-2162.	1.6	58
32	Uncertainty analysis of intelligent model of hybrid genetic algorithm and particle swarm optimization with ANFIS to predict threshold bank profile shape based on digital laser approach sensing. Measurement: Journal of the International Measurement Confederation, 2018, 121, 294-303.	2.5	58
33	Development of more accurate discharge coefficient prediction equations for rectangular side weirs using adaptive neuro-fuzzy inference system and generalized group method of data handling. Measurement: Journal of the International Measurement Confederation, 2018, 116, 473-482.	2.5	58
34	Prediction of scour depth around bridge piers using self-adaptive extreme learning machine. Journal of Hydroinformatics, 2017, 19, 207-224.	1.1	56
35	Sensitivity analysis of the factors affecting the discharge capacity of side weirs in trapezoidal channels using extreme learning machines. Flow Measurement and Instrumentation, 2017, 54, 216-223.	1.0	54
36	Combination of Computational Fluid Dynamics, Adaptive Neuro-Fuzzy Inference System, and Genetic Algorithm for Predicting Discharge Coefficient of Rectangular Side Orifices. Journal of Irrigation and Drainage Engineering - ASCE, 2017, 143, .	0.6	53

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37	A reliable linear method for modeling lake level fluctuations. Journal of Hydrology, 2019, 570, 236-250.	2.3	53
38	Abutment scour depth modeling using neuro-fuzzy-embedded techniques. Marine Georesources and Geotechnology, 2019, 37, 190-200.	1.2	53
39	Estimating 2-year flood flows using the generalized structure of the Group Method of Data Handling. Journal of Hydrology, 2019, 575, 671-689.	2.3	52
40	A Highly Efficient Gene Expression Programming Model for Predicting the Discharge Coefficient in a Side Weir along a Trapezoidal Canal. Irrigation and Drainage, 2017, 66, 655-666.	0.8	51
41	Design criteria for sediment transport in sewers based on self-cleansing concept. Journal of Zhejiang University: Science A, 2014, 15, 914-924.	1.3	50
42	Event-based total suspended sediment particle size distribution model. Journal of Hydrology, 2016, 536, 236-246.	2.3	50
43	Genetic-Algorithm-Optimized Sequential Model for Water Temperature Prediction. Sustainability, 2020, 12, 5374.	1.6	50
44	Forecasting watermain failure using artificial neural network modelling. Canadian Water Resources Journal, 2013, 38, 24-33.	0.5	49
45	A combined support vector machine-wavelet transform model for prediction of sediment transport in sewer. Flow Measurement and Instrumentation, 2016, 47, 19-27.	1.0	47
46	Combination of sensitivity and uncertainty analyses for sediment transport modeling in sewer pipes. International Journal of Sediment Research, 2020, 35, 157-170.	1.8	47
47	Assessment of evolutionary algorithms in predicting non-deposition sediment transport. Urban Water Journal, 2016, 13, 499-510.	1.0	46
48	Bed load sediment transport estimation in a clean pipe using multilayer perceptron with different training algorithms. KSCE Journal of Civil Engineering, 2016, 20, 581-589.	0.9	46
49	Entropy-based neural networks model for flow duration curves at ungauged sites. Journal of Hydrology, 2015, 529, 1007-1020.	2.3	45
50	Developing an expert group method of data handling system for predicting the geometry of a stable channel with a gravel bed. Earth Surface Processes and Landforms, 2017, 42, 1460-1471.	1.2	44
51	Sediment transport modeling in rigid boundary open channels using generalize structure of group method of data handling. Journal of Hydrology, 2019, 577, 123951.	2.3	44
52	Design of an adaptive neuro-fuzzy computing technique for predicting flow variables in a 90° sharp bend. Journal of Hydroinformatics, 2017, 19, 572-585.	1.1	43
53	A combined adaptive neuro-fuzzy inference system–firefly algorithm model for predicting the roller length of a hydraulic jump on a rough channel bed. Neural Computing and Applications, 2018, 29, 249-258.	3.2	43
54	Comparison of genetic algorithm and imperialist competitive algorithms in predicting bed load transport in clean pipe. Water Science and Technology, 2014, 70, 1695-1701.	1.2	42

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55	A methodological approach of predicting threshold channel bank profile by multi-objective evolutionary optimization of ANFIS. Engineering Geology, 2018, 239, 298-309.	2.9	42
56	Prediction of wave runup on beaches using Gene-Expression Programming and empirical relationships. Coastal Engineering, 2019, 144, 47-61.	1.7	40
57	Assessment of the Contributions of Traditional Qanats in Sustainable Water Resources Management. International Journal of Water Resources Development, 2006, 22, 575-588.	1.2	39
58	Modeling unsaturated hydraulic conductivity by hybrid soft computing techniques. Soft Computing, 2019, 23, 12897-12910.	2.1	39
59	A support vector regression-firefly algorithm-based model for limiting velocity prediction in sewer pipes. Water Science and Technology, 2016, 73, 2244-2250.	1.2	38
60	Integrative neural networks models for stream assessment in restoration projects. Journal of Hydrology, 2016, 536, 339-350.	2.3	37
61	Monthly reservoir inflow forecasting using a new hybrid SARIMA genetic programming approach. Journal of Earth System Science, 2017, 126, 1.	0.6	37
62	A new hybrid decision tree method based on two artificial neural networks for predicting sediment transport in clean pipes. AEJ - Alexandria Engineering Journal, 2018, 57, 1783-1795.	3.4	37
63	A modified FAO evapotranspiration model for refined water budget analysis for Green Roof systems. Ecological Engineering, 2018, 119, 45-53.	1.6	36
64	Estimating Sediment Yield from Upland and Channel Erosion at A Watershed Scale Using SWAT. Water Resources Management, 2015, 29, 1399-1412.	1.9	34
65	Design of a Hybrid ANFIS–PSO Model to Estimate Sediment Transport in Open Channels. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 851-857.	1.0	34
66	Estimation of the Darcy–Weisbach friction factor for ungauged streams using Gene Expression Programming and Extreme Learning Machines. Journal of Hydrology, 2019, 568, 311-321.	2.3	34
67	Mapping the spatial and temporal variability of flood susceptibility using remotely sensed normalized difference vegetation index and the forecasted changes in the future. Science of the Total Environment, 2021, 770, 145288.	3.9	34
68	The optimal dam site selection using a group decision-making method through fuzzy TOPSIS model. Environment Systems and Decisions, 2018, 38, 471-488.	1.9	33
69	Predicting stable alluvial channel profiles using emotional artificial neural networks. Applied Soft Computing Journal, 2019, 78, 420-437.	4.1	33
70	Evaluation of preprocessing techniques for improving the accuracy of stochastic rainfall forecast models. International Journal of Environmental Science and Technology, 2020, 17, 505-524.	1.8	33
71	Development of a linear based stochastic model for daily soil temperature prediction: One step forward to sustainable agriculture. Computers and Electronics in Agriculture, 2020, 176, 105636.	3.7	33
72	Short to Long-Term Forecasting of River Flows by Heuristic Optimization Algorithms Hybridized with ANFIS. Water Resources Management, 2021, 35, 1149-1166.	1.9	33

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73	An analysis of shear stress distribution in circular channels with sediment deposition based on Gene Expression Programming. International Journal of Sediment Research, 2017, 32, 575-584.	1.8	32
74	Reservoir water level forecasting using group method of data handling. Acta Geophysica, 2018, 66, 717-730.	1.0	32
75	New Approach to Estimate Velocity at Limit of Deposition in Storm Sewers Using Vector Machine Coupled with Firefly Algorithm. Journal of Pipeline Systems Engineering and Practice, 2017, 8, .	0.9	31
76	Prediction of daily water level using new hybridized GS-GMDH and ANFIS-FCM models. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1343-1361.	1.5	30
77	Seasonal and spatial distribution patterns of atmospheric phosphorus deposition to Lake Simcoe, ON. Journal of Great Lakes Research, 2011, 37, 15-25.	0.8	29
78	Artificial intelligence models for prediction of the aeration efficiency of the stepped weir. Flow Measurement and Instrumentation, 2019, 65, 78-89.	1.0	29
79	Hourly road pavement surface temperature forecasting using deep learning models. Journal of Hydrology, 2021, 603, 126877.	2.3	29
80	Road Salt Application in Highland Creek Watershed, Toronto, Ontario - Chloride Mass Balance. Water Quality Research Journal of Canada, 2010, 45, 451-461.	1.2	29
81	Design of a fuzzy differential evolution algorithm to predict non-deposition sediment transport. Applied Water Science, 2017, 7, 4287-4299.	2.8	28
82	Remote Sensing Satellite Data Preparation for Simulating and Forecasting River Discharge. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3432-3441.	2.7	28
83	A generalized linear stochastic model for lake level prediction. Science of the Total Environment, 2020, 723, 138015.	3.9	28
84	A Non-Tuned Machine Learning Technique for Abutment Scour Depth in Clear Water Condition. Water (Switzerland), 2020, 12, 301.	1.2	28
85	Evolution of Ontario's Stormwater Management Planning and Design Guidance. Water Quality Research Journal of Canada, 2004, 39, 343-355.	1.2	27
86	Integrated Markov chains and uncertainty analysis techniques to more accurately forecast floods using satellite signals. Journal of Hydrology, 2019, 572, 75-95.	2.3	27
87	Stream Chloride Monitoring Program of City of Toronto: Implications of Road Salt Application. Water Quality Research Journal of Canada, 2009, 44, 132-140.	1.2	27
88	An expert system with radial basis function neural network based on decision trees for predicting sediment transport in sewers. Water Science and Technology, 2016, 74, 176-183.	1.2	26
89	Reliable method of determining stable threshold channel shape using experimental and gene expression programming techniques. Neural Computing and Applications, 2019, 31, 5799-5817.	3.2	26
90	Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments. Hydrological Sciences Journal, 2020, 65, 1145-1157.	1.2	25

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91	Gene expression programming-based approach for predicting the roller length of a hydraulic jump on a rough bed. ISH Journal of Hydraulic Engineering, 2021, 27, 77-87.	1.1	24
92	Development of optimal water supply plan using integrated fuzzy Delphi and fuzzy <scp>ELECTRE III</scp> methodsâ€"Case study of the Gamasiab basin. Expert Systems, 2020, 37, e12568.	2.9	24
93	Forecasting monthly fluctuations of lake surface areas using remote sensing techniques and novel machine learning methods. Theoretical and Applied Climatology, 2021, 143, 713-735.	1.3	24
94	Highway runoff quality models for the protection of environmentally sensitive areas. Journal of Hydrology, 2016, 542, 143-155.	2.3	23
95	Integrated preprocessing techniques with linear stochastic approaches in groundwater level forecasting. Acta Geophysica, 2021, 69, 1395-1411.	1.0	23
96	Determining the Scour Dimensions Around Submerged Vanes in a 180Â° Bend with the Gene Expression Programming Technique. Journal of Marine Science and Application, 2018, 17, 233-240.	0.7	22
97	GLUE uncertainty analysis of hybrid models for predicting hourly soil temperature and application wavelet coherence analysis for correlation with meteorological variables. Soft Computing, 2021, 25, 10723-10748.	2.1	22
98	A group Multi-Criteria Decision-Making method for water supply choice optimization. Socio-Economic Planning Sciences, 2021, 77, 101006.	2.5	22
99	Reservoir management under predictable climate variability and change. Journal of Water and Climate Change, 2015, 6, 472-485.	1.2	21
100	Using Data Mining to Understand Drinking Water Advisories in Small Water Systems: a Case Study of Ontario First Nations Drinking Water Supplies. Water Resources Management, 2015, 29, 5129-5139.	1.9	21
101	Prediction of Incipient Breaking Wave-Heights Using Artificial Neural Networks and Empirical Relationships. Coastal Engineering Journal, 2015, 57, 1550018-1-1550018-27.	0.7	21
102	Stable alluvial channel design using evolutionary neural networks. Journal of Hydrology, 2018, 566, 770-782.	2.3	21
103	Applying Upstream Satellite Signals and a 2-D Error Minimization Algorithm to Advance Early Warning and Management of Flood Water Levels and River Discharge. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 902-910.	2.7	21
104	Modelling daily soil temperature by hydro-meteorological data at different depths using a novel data-intelligence model: deep echo state network model. Artificial Intelligence Review, 2021, 54, 2863-2890.	9.7	21
105	Prognostication of Shortwave Radiation Using an Improved No-Tuned Fast Machine Learning. Sustainability, 2021, 13, 8009.	1.6	21
106	Closure to â€œAn integrated framework of extreme learning machines for predicting scour at pile groups in clear water conditionâ€•by: I. Ebtehaj, H. Bonakdari, F. Moradi, B. Gharabaghi, Z. Sheikh Khozani. Coastal Engineering, 2019, 147, 135-137.	1.7	20
107	A Methodology for Forecasting Dissolved Oxygen in Urban Streams. Water (Switzerland), 2020, 12, 2568.	1.2	20
108	Predicting the geometry of regime rivers using M5 model tree, multivariate adaptive regression splines and least square support vector regression methods. International Journal of River Basin Management, 2019, 17, 333-352.	1.5	19

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109	A novel boosting ensemble committee-based model for local scour depth around non-uniformly spaced pile groups. Engineering With Computers, 2022, 38, 3439-3461.	3.5	19
110	Compost Biofilters For Highway Stormwater Runoff Treatment. Water Quality Research Journal of Canada, 2010, 45, 391-402.	1.2	18
111	Evaluation of the Qualitative Habitat Evaluation Index as a Planning and Design Tool for Restoration of Rural Ontario Waterways. Canadian Water Resources Journal, 2011, 36, 149-158.	0.5	18
112	Uncertainty analysis of shear stress estimation in circular channels by Tsallis entropy. Physica A: Statistical Mechanics and Its Applications, 2018, 510, 558-576.	1.2	18
113	A Comparative Study of Linear Stochastic with Nonlinear Daily River Discharge Forecast Models. Water Resources Management, 2020, 34, 3689-3708.	1.9	18
114	Ecological benefit of the road salt code of practice. Water Quality Research Journal of Canada, 2014, 49, 43-52.	1.2	17
115	A novel risk assessment method for landfill slope failure: Case study application for Bhalswa Dumpsite, India. Waste Management and Research, 2017, 35, 220-227.	2.2	17
116	Potential of radial basis function network with particle swarm optimization for prediction of sediment transport at the limit of deposition in a clean pipe. Sustainable Water Resources Management, 2017, 3, 391-401.	1.0	17
117	A pareto design of evolutionary hybrid optimization of ANFIS model in prediction abutment scour depth. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	0.8	17
118	Assessment of geomorphological bank evolution of the alluvial threshold rivers based on entropy concept parameters. Hydrological Sciences Journal, 2019, 64, 856-872.	1.2	17
119	Spatial variability analysis and mapping of soil physical and chemical attributes in a salt-affected soil. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	17
120	Discussion of â€œComparative assessment of time series and artificial intelligence models to estimate monthly streamflow: A local and external data analysis approachâ€•by Saeid Mehdizadeh, Farshad Fathian, Mir Jafar Sadegh Safari and Jan F. Adamowski. Journal of Hydrology, 2020, 583, 124614.	2.3	17
121	An experimental and modeling study of evapotranspiration from integrated green roof photovoltaic systems. Ecological Engineering, 2020, 152, 105767.	1.6	17
122	Evaluation of the Root Zone Water Quality Model (RZWQM) for Southern Ontario: Part I. Sensitivity Analysis, Calibration, and Validation. Water Quality Research Journal of Canada, 2007, 42, 202-218.	1.2	16
123	Salt vulnerability assessment methodology for municipal supply wells. Journal of Hydrology, 2015, 531, 523-533.	2.3	16
124	Scour depth model for grade-control structures. Journal of Hydroinformatics, 2018, 20, 117-133.	1.1	16
125	Designing a New Data Intelligence Model for Global Solar Radiation Prediction: Application of Multivariate Modeling Scheme. Energies, 2019, 12, 1365.	1.6	16
126	An expert system for predicting the velocity field in narrow open channel flows using self-adaptive extreme learning machines. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107202.	2.5	16

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127	The Discharge Forecasting of Multiple Monitoring Station for Humber River by Hybrid LSTM Models. Water (Switzerland), 2022, 14, 1794.	1.2	16
128	Modelling of three-dimensional flow velocities in a deep hole in the East Channel of the Mackenzie Delta, Northwest Territories. Canadian Journal of Civil Engineering, 2007, 34, 1312-1323.	0.7	15
129	Enhanced roadside drainage system for environmentally sensitive areas. Science of the Total Environment, 2018, 610-611, 613-622.	3.9	15
130	A novel stochastic wastewater quality modeling based on fuzzy techniques. Journal of Environmental Health Science & Engineering, 2020, 18, 1099-1120.	1.4	15
131	Understanding the dynamic nature of Time-to-Peak in UK streams. Journal of Hydrology, 2020, 583, 124630.	2.3	15
132	Multi-objective evolutionary polynomial regression-based prediction of energy consumption probing. Water Science and Technology, 2017, 75, 2791-2799.	1.2	14
133	Calculating the energy consumption of electrocoagulation using a generalized structure group method of data handling integrated with a genetic algorithm and singular value decomposition. Clean Technologies and Environmental Policy, 2019, 21, 379-393.	2.1	14
134	Evolutionary Prediction of Biohydrogen Production by Dark Fermentation. Clean - Soil, Air, Water, 2019, 47, 1700494.	0.7	14
135	Evolutionary optimization of neural network to predict sediment transport without sedimentation. Complex & Intelligent Systems, 2021, 7, 401-416.	4.0	14
136	Early detection of riverine flooding events using the group method of data handling for the Bow River, Alberta, Canada. International Journal of River Basin Management, 2022, 20, 533-544.	1.5	14
137	Discharge Coefficient of Rectangular Side Weirs on Circular Channels. International Journal of Nonlinear Sciences and Numerical Simulation, 2016, 17, 391-399.	0.4	13
138	Design of a new hybrid artificial neural network method based on decision trees for calculating the Froude number in rigid rectangular channels. Journal of Hydrology and Hydromechanics, 2016, 64, 252-260.	0.7	12
139	Evaluating and Calibrating Reference Evapotranspiration Models Using Water Balance under Hyper-Arid Environment. Water Resources Management, 2016, 30, 3745-3767.	1.9	12
140	An expert system for predicting shear stress distribution in circularÂopenÂchannels using gene expression programming. Water Science and Engineering, 2018, 11, 167-176.	1.4	12
141	CAD-DRASTIC: chloride application density combined with DRASTIC for assessing groundwater vulnerability to road salt application. Hydrogeology Journal, 2018, 26, 2379-2393.	0.9	12
142	Sensitivity analysis of parameters affecting scour depth around bridge piers based on the non-tuned, rapid extreme learning machine method. Neural Computing and Applications, 2019, 31, 9145-9156.	3.2	12
143	Evaluating Parshall flume aeration with experimental observations and advance soft computing techniques. Neural Computing and Applications, 2021, 33, 17257-17271.	3.2	12
144	Comparison of CANWET and HSPF for water budget and water quality modeling in rural Ontario. Water Quality Research Journal of Canada, 2014, 49, 53-71.	1.2	11

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145	Hydraulic Modeling and Evaluation Equations for the Incipient Motion of Sandbags for Levee Breach Closure Operations. Water (Switzerland), 2019, 11, 279.	1.2	11
146	Empirical models for longitudinal dispersion coefficient in natural streams. Journal of Hydrology, 2019, 575, 1359-1361.	2.3	11
147	A Novel Comprehensive Evaluation Method for Estimating the Bank Profile Shape and Dimensions of Stable Channels Using the Maximum Entropy Principle. Entropy, 2020, 22, 1218.	1.1	11
148	Flood Risk Management with Transboundary Conflict and Cooperation Dynamics in the Kabul River Basin. Water (Switzerland), 2021, 13, 1513.	1.2	11
149	Development of group method of data handling based on genetic algorithm to predict incipient motion in rigid rectangular storm water channel. Scientia Iranica, 2017, 24, 1000-1009.	0.3	11
150	A nonlinear simulation method based on a combination of multilayer perceptron and decision trees for predicting non-deposition sediment transport. Water Science and Technology: Water Supply, 2016, 16, 1198-1206.	1.0	10
151	Berm design to reduce risks of catastrophic slope failures at solid waste disposal sites. Waste Management and Research, 2016, 34, 1117-1125.	2.2	10
152	Evolutionary design of a generalized polynomial neural network for modelling sediment transport in clean pipes. Engineering Optimization, 2016, 48, 1793-1807.	1.5	10
153	Comparison of three models describing bromide transport affected by different soil structure types. Archives of Agronomy and Soil Science, 2016, 62, 674-687.	1.3	10
154	Developing an AI-based method for river discharge forecasting using satellite signals. Theoretical and Applied Climatology, 2019, 138, 347-362.	1.3	10
155	Analyzing bank profile shape of alluvial stable channels using robust optimization and evolutionary ANFIS methods. Applied Water Science, 2019, 9, 1.	2.8	10
156	Mapping key agricultural sources of dust emissions within the Lake Simcoe airshed. Inland Waters, 2013, 3, 153-166.	1.1	9
157	Quantifying Rainfall-Derived Inflow from Private Foundation Drains in Sanitary Sewers: Case Study in London, Ontario, Canada. Journal of Hydrologic Engineering - ASCE, 2019, 24, 05019023.	0.8	9
158	The uncertainty of the Shannon entropy model for shear stress distribution in circular channels. International Journal of Sediment Research, 2020, 35, 57-68.	1.8	9
159	Development of robust evolutionary polynomial regression network in the estimation of stable alluvial channel dimensions. Geomorphology, 2020, 350, 106895.	1.1	9
160	Machine Learning Models for Predicting Water Quality of Treated Fruit and Vegetable Wastewater. Water (Switzerland), 2021, 13, 2485.	1.2	9
161	Hybrid Data Intelligent Models and Applications for Water Level Prediction. Advances in Computational Intelligence and Robotics Book Series, 2018, , 121-139.	0.4	9
162	Mapping air quality zones for coastal urban centers. Journal of the Air and Waste Management Association, 2017, 67, 565-581.	0.9	8

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163	Predicting Breaking Wave Conditions Using Gene Expression Programming. Coastal Engineering Journal, 2017, 59, 1750017-1-1750017-14.	0.7	8
164	Wind-Induced Air-Flow Patterns in an Urban Setting: Observations and Numerical Modeling. Pure and Applied Geophysics, 2018, 175, 3051-3068.	0.8	8
165	Modeling Performance of Sediment Control Wet Ponds at Two Construction Sites in Ontario, Canada. Journal of Hydraulic Engineering, 2019, 145, .	0.7	8
166	Investigation of a new shock damper system efficiency in reducing water hammer excess pressure due to the sudden closure of a control valve. ISH Journal of Hydraulic Engineering, 2020, 26, 258-266.	1.1	8
167	The Role of Large Dams in a Transboundary Drought Management Co-Operation Framework—Case Study of the Kabul River Basin. Water (Switzerland), 2021, 13, 2628.	1.2	8
168	Bed Load Sediment Transport in Sewers at Limit of Deposition. Scientia Iranica, 2016, 23, 907-917.	0.3	8
169	Novel Hybrid Statistical Learning Framework Coupled with Random Forest and Grasshopper Optimization Algorithm to Forecast Pesticide Use on Golf Courses. Agriculture (Switzerland), 2022, 12, 933.	1.4	8
170	Evaluation of the Root Zone Water Quality Model (RZWQM) for Southern Ontario: Part II. Simulating Long-Term Effects of Nitrogen Management Practices on Crop Yield and Subsurface Drainage Water Quality. Water Quality Research Journal of Canada, 2007, 42, 219-230.	1.2	7
171	A new dust transport approach to quantify anthropogenic sources of atmospheric PM 10 deposition on lakes. Atmospheric Environment, 2014, 96, 380-392.	1.9	7
172	Evaluation of air quality zone classification methods based on ambient air concentration exposure. Journal of the Air and Waste Management Association, 2017, 67, 550-564.	0.9	7
173	Optimizing best management practices to control anthropogenic sources of atmospheric phosphorus deposition to inland lakes. Journal of the Air and Waste Management Association, 2018, 68, 1025-1037.	0.9	7
174	Discussion of "Comparative Study of Time Series Models, Support Vector Machines, and GMDH in Forecasting Long-Term Evapotranspiration Rates in Northern Iran" by Afshin Ashrafzadeh, Ozgur Kişi, Pouya Aghelpour, Seyed Mostafa Biazar, and Mohammadreza Askarizad Masouleh. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, .	0.6	7
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