Hazi Mohammad Azamathulla

List of Publications by Year
in descending order

90 papers	3,118 citations	117453 34 h-index	182168 51 g-index
92 all docs	92 docs citations	92 times ranked	1788 citing authors

#	ARTICLE	IF	CITATIONS
1	ANFIS-based approach for predicting sediment transport in clean sewer. Applied Soft Computing Journal, 2012, 12, 1227-1230.	4.1	133
2	Support vector machine approach for longitudinal dispersion coefficients in natural streams. Applied Soft Computing Journal, 2011, 11, 2902-2905.	4.1	131
3	Genetic Programming for Predicting Longitudinal Dispersion Coefficients in Streams. Water Resources Management, 2011, 25, 1537-1544.	1.9	103
4	Comparison between genetic algorithm and linear programming approach for real time operation. Journal of Hydro-Environment Research, 2008, 2, 172-181.	1.0	102
5	Gene-Expression Programming for the Development of a Stage-Discharge Curve of the Pahang River. Water Resources Management, 2011, 25, 2901-2916.	1.9	102
6	Prediction of side weir discharge coefficient by support vector machine technique. Water Science and Technology: Water Supply, 2016, 16, 1002-1016.	1.0	100
7	Neuro-Fuzzy GMDH to Predict the Scour Pile Groups due to Waves. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	93
8	GMDH to predict scour depth around a pier in cohesive soils. Applied Ocean Research, 2013, 40, 35-41.	1.8	87
9	Gene-Expression Programming for Sediment Transport in Sewer Pipe Systems. Journal of Pipeline Systems Engineering and Practice, 2011, 2, 102-106.	0.9	83
10	Linear genetic programming for prediction of circular pile scour. Ocean Engineering, 2009, 36, 985-991.	1.9	80
11	An ANFIS-based approach for predicting the bed load for moderately sized rivers. Journal of Hydro-Environment Research, 2009, 3, 35-44.	1.0	79
12	Estimation of scour below spillways using neural networks. Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 61-69.	0.7	66
13	Linear genetic programming to scour below submerged pipeline. Ocean Engineering, 2011, 38, 995-1000.	1.9	63
14	Machine Learning Approach to Predict Sediment Load â€“ A Case Study. Clean - Soil, Air, Water, 2010, 38, 969-976.	0.7	62
15	ANFIS-Based Approach for Predicting the Scour Depth at Culvert Outlets. Journal of Pipeline Systems Engineering and Practice, 2011, 2, 35-40.	0.9	60
16	Gene expression programming for total bed material load estimationâ€”a case study. Science of the Total Environment, 2010, 408, 5078-5085.	3.9	59
17	Prediction of pipeline scour depth in clear-water and live-bed conditions using group method of data handling. Neural Computing and Applications, 2014, 24, 629-635.	3.2	58
18	Genetic Programming to Predict River Pipeline Scour. Journal of Pipeline Systems Engineering and Practice, 2010, 1, 127-132.	0.9	57

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19	Assessment of M5â€² model tree and classification and regression trees for prediction of scour depth below free overfall spillways. Neural Computing and Applications, 2014, 24, 357-366.	3.2	57
20	Group method of data handling to predict scour depth around bridge piers. Neural Computing and Applications, 2013, 23, 2107-2112.	3.2	56
21	Use of Gene-Expression Programming to Estimate Manningâ€™s Roughness Coefficient for High Gradient Streams. Water Resources Management, 2013, 27, 715-729.	1.9	51
22	Efficiency of Trapezoidal Labyrinth Shaped stepped spillways. Flow Measurement and Instrumentation, 2020, 72, 101711.	1.0	47
23	Gene-expression programming to predict pier scour depth using laboratory data. Journal of Hydroinformatics, 2012, 14, 628-645.	1.1	46
24	Comparison between linear genetic programming and M5 tree models to predict flow discharge in compound channels. Neural Computing and Applications, 2014, 24, 413-420.	3.2	46
25	Prediction of discharge coefficient of cylindrical weirâ€“gateÂ using GMDH-PSO. ISH Journal of Hydraulic Engineering, 2018, 24, 116-123.	1.1	44
26	Assessment of Stochastic Approaches in Prediction of Wave-Induced Pipeline Scour Depth. Journal of Pipeline Systems Engineering and Practice, 2018, 9, .	0.9	44
27	Reduction of time-dependent scour around piers using collars. Ocean Engineering, 2020, 213, 107692.	1.9	44
28	Estimation of scour depth below free overfall spillways using multivariate adaptive regression splines and artificial neural networks. Engineering Applications of Computational Fluid Mechanics, 2015, 9, 291-300.	1.5	43
29	Prediction of head loss on cascade weir using ANN and SVM. ISH Journal of Hydraulic Engineering, 2017, 23, 102-110.	1.1	43
30	Gene-expression programming to predict scour at a bridge abutment. Journal of Hydroinformatics, 2012, 14, 324-331.	1.1	39
31	An expert system for predicting Manningâ€™s roughness coefficient in open channels by using gene expression programming. Neural Computing and Applications, 2013, 23, 1343-1349.	3.2	38
32	Development of GEP-based functional relationship for sediment transport in tropical rivers. Neural Computing and Applications, 2014, 24, 271-276.	3.2	38
33	Gene-expression programming for flip-bucket spillway scour. Water Science and Technology, 2012, 65, 1982-1987.	1.2	37
34	Appraisal of soft computing techniques in prediction of total bed material load in tropical rivers. Journal of Earth System Science, 2012, 121, 125-133.	0.6	35
35	Estimation of dimension and time variation of local scour at short abutment. International Journal of River Basin Management, 2013, 11, 121-135.	1.5	35
36	Suspended sediment load prediction of river systems: GEP approach. Arabian Journal of Geosciences, 2013, 6, 3469-3480.	0.6	35

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37	Local scouring around L-head groynes. Journal of Hydrology, 2013, 504, 125-131.	2.3	32
38	Numerical modeling of 3-D flow on porous broad crested weirs. Applied Mathematical Modelling, 2013, 37, 9324-9337.	2.2	31
39	Gene-expression programming to predict friction factor for Southern Italian rivers. Neural Computing and Applications, 2013, 23, 1421-1426.	3.2	30
40	GEP to predict characteristics of a hydraulic jump over a rough bed. KSCE Journal of Civil Engineering, 2016, 20, 3006-3011.	0.9	30
41	Prediction of scour below submerged pipeline crossing a river using ANN. Water Science and Technology, 2011, 63, 2225-2230.	1.2	29
42	Scour below submerged skewed pipeline. Journal of Hydrology, 2014, 509, 615-620.	2.3	28
43	Application of Google earth to investigate the change of flood inundation area due to flood detention dam. Earth Science Informatics, 2015, 8, 627-638.	1.6	28
44	Prediction of total bed material load for rivers in Malaysia: A case study of Langat, Muda and Kurau Rivers. Environmental Fluid Mechanics, 2011, 11, 307-318.	0.7	27
45	Prediction of soil erodibility factor for Peninsular Malaysia soil series using ANN. Neural Computing and Applications, 2014, 24, 383-389.	3.2	26
46	Physical and numerical modeling of performance of detention dams. Journal of Hydrology, 2020, 581, 121757.	2.3	26
47	Predictive model-based for the critical submergence of horizontal intakes in open channel flows with different clearance bottoms using CART, ANN and linear regression approaches. Expert Systems With Applications, 2011, 38, 10114-10123.	4.4	25
48	Soft computing for prediction of river pipeline scour depth. Neural Computing and Applications, 2013, 23, 2465-2469.	3.2	25
49	Experimental investigation on effective scouring parameters downstream from stepped spillways. Water Science and Technology: Water Supply, 2020, 20, 1988-1998.	1.0	25
50	Assessment of Dam Overtopping Reliability using SUFI Based Overtopping Threshold Curve. Water Resources Management, 2018, 32, 2369-2383.	1.9	22
51	Impact of climate variability on hydropower generation: A case study from Sri Lanka. ISH Journal of Hydraulic Engineering, 2020, 26, 301-309.	1.1	22
52	ANFIS-based approach for the estimation of transverse mixing coefficient. Water Science and Technology, 2011, 63, 1004-1009.	1.2	21
53	Prediction of scour caused by 2D horizontal jets using soft computing techniques. Ain Shams Engineering Journal, 2017, 8, 559-570.	3.5	21
54	Estimation of Critical Velocity for Slurry Transport through Pipeline Using Adaptive Neuro-Fuzzy Interference System and Gene-Expression Programming. Journal of Pipeline Systems Engineering and Practice, 2013, 4, 131-137.	0.9	20

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55	ANFIS-based PCA to predict the longitudinal dispersion coefficient in rivers. International Journal of Hydrology Science and Technology, 2018, 8, 410.	0.2	20
56	Bridge pier scour prediction by gene expression programming. Water Management, 2012, 165, 481-493.	0.4	19
57	Discharge coefficient for compound sharp crested side weirs in subcritical flow conditions. Journal of Hydrology, 2013, 480, 162-166.	2.3	18
58	Interpretation of Machine-Learning-Based (Black-box) Wind Pressure Predictions for Low-Rise Gable-Roofed Buildings Using Shapley Additive Explanations (SHAP). Buildings, 2022, 12, 734.	1.4	18
59	Prediction of discharge coefficient of combined weir-gate using ANN, ANFIS and SVM. International Journal of Hydrology Science and Technology, 2019, 9, 412.	0.2	17
60	Assessment of groundwater quality and human health risk associated with chromium exposure in the industrial area of Ranipet, Tamil Nadu, India. Journal of Water Sanitation and Hygiene for Development, 2022, 12, 58-67.	0.7	17
61	Development of a new wavelet-based hybrid model to forecast multi-scalar SPEI drought index (case) Tj ETQq1 1 0.784314 rgBT /Overlo	1.3	16
62	Classification of Hydraulic Jump in Rough Beds. Water (Switzerland), 2020, 12, 2249.	1.2	15
63	Effect of Extraordinary Large Floods on at-site Flood Frequency. Water Resources Management, 2017, 31, 4187-4205.	1.9	14
64	Evaluation of Future Streamflow in the Upper Part of the Nilwala River Basin (Sri Lanka) under Climate Change. Hydrology, 2022, 9, 48.	1.3	14
65	Flow pattern and hydraulic performance of the REDAC Gross Pollutant Trap. Flow Measurement and Instrumentation, 2011, 22, 215-224.	1.0	13
66	Mathematical modeling of flow discharge over compound sharp-crested weirs. Journal of Hydro-Environment Research, 2014, 8, 194-199.	1.0	13
67	A comparative study of wavelet and empirical mode decomposition-based GPR models for river discharge relationship modeling at consecutive hydrometric stations. Water Science and Technology: Water Supply, 2021, 21, 3080-3098.	1.0	12
68	Discussion of â€œGene-Expression Programming, Evolutionary Polynomial Regression, and Model Tree to Evaluate Local Scour Depth at Culvert Outletsâ€•by Mohammad Najafzadeh and Ali Reza Kargar. Journal of Pipeline Systems Engineering and Practice, 2021, 12, 07021001.	0.9	12
69	COMPUTATION OF DISCHARGE THROUGH SIDE SLUICE GATE USING GENEâ€EXPRESSION PROGRAMMING. Irrigation and Drainage, 2013, 62, 115-119.	0.8	10
70	Prediction of equilibrium scour time around long abutments. Water Management, 2013, 166, 394-401.	0.4	10
71	Towards design of compound channels with minimum overall cost through grey wolf optimization algorithm. Journal of Hydroinformatics, 2021, 23, 985-999.	1.1	10
72	Multivariate modeling of agricultural river water abstraction via novel integrated-wavelet methods in various climatic conditions. Environment, Development and Sustainability, 2022, 24, 4845-4871.	2.7	10

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73	Comparing Combined 1D/2D and 2D Hydraulic Simulations Using High-Resolution Topographic Data: Examples from Sri Lankaâ€"Lower Kelani River Basin. Hydrology, 2022, 9, 39.	1.3	10
74	A Simplified Mathematical Formulation for Water Quality Index (WQI): A Case Study in the Kelani River Basin, Sri Lanka. Fluids, 2022, 7, 147.	0.8	10
75	Hydraulics of stepped spillways with different numbers of steps. Dams and Reservoirs, 2010, 20, 131-136.	0.1	9
76	A practical approach to formulate stageâ€"discharge relationship in natural rivers. Neural Computing and Applications, 2013, 23, 873-880.	3.2	9
77	Scour at bridge piers in uniform and armored beds under steady and unsteady flow conditions using ANN-APSO and ANN-GA algorithms. ISH Journal of Hydraulic Engineering, 2021, 27, 220-228.	1.1	8
78	Determination of optimum relaxation coefficient using finite difference method for groundwater flow. Arabian Journal of Geosciences, 2013, 6, 3409-3415.	0.6	7
79	SCOUR AT THE BASE OF FLIP-BUCKET SPILLWAYS. ISH Journal of Hydraulic Engineering, 2004, 10, 121-129.	1.1	6
80	3D-SIMULATION OF FLOW OVER SUBMERGED WEIRS. International Journal of Modelling and Simulation, 2012, 32, .	2.3	6
81	Control of bed scour downstream of ski-jump spillway by combination of six-legged concrete elements and riprap. Ain Shams Engineering Journal, 2020, 11, 1047-1059.	3.5	6
82	Partitioning strategy for investigating the prediction capability of bed load transport under varied hydraulic conditions: Application of robust GWO-kernel-based ELM approach. Flow Measurement and Instrumentation, 2022, 84, 102136.	1.0	6
83	Prediction of Manning's coefficient of roughness for high-gradient streams using M5P. Water Science and Technology: Water Supply, 2022, 22, 2707-2720.	1.0	6
84	The Role of Place of Delivery in Preventing Neonatal and Infant Mortality Rate in India. Geographies, 2021, 1, 47-62.	0.6	5
85	Influence of Crumb Rubber and Coconut Coir on Strength and Durability Characteristics of Interlocking Paving Blocks. Buildings, 2022, 12, 1001.	1.4	5
86	Discussion: Bridge pier scour prediction by gene expression programming. Water Management, 2014, 167, 368-369.	0.4	3
87	Bioengineering Materials for Environment Protection in a Changing Climate. Advances in Materials Science and Engineering, 2019, 2019, 1-2.	1.0	0
88	Mathematical simulation of air-water flow along Ski Jump Jet. Water Science and Technology: Water Supply, 2022, 22, 2093-2105.	1.0	0
89	Hydraulic transients for a pipe line network of treated effluent rising main using SAP 2R. Water Science and Technology: Water Supply, 2022, 22, 1293-1305.	1.0	0
90	Experimental and numerical study of flow at a 90 degree lateral turn-out with enhanced roughness coefficient and invert elevation changes. Water Science and Technology: Water Supply, 0, , .	1.0	0