

Asaad Y Shamseldin

List of Publications by Citations

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127
papers

3,154
citations

27
h-index

53
g-index

131
ext. papers

3,617
ext. citations

3.4
avg, IF

5.66
L-index

#	Paper	IF	Citations
127	Application of a neural network technique to rainfall-runoff modelling. <i>Journal of Hydrology</i> , 1997 , 199, 272-294	6	351
126	Methods for combining the outputs of different rainfall-runoff models. <i>Journal of Hydrology</i> , 1997 , 197, 203-229	6	204
125	A non-linear combination of the forecasts of rainfall-runoff models by the first-order Takagi-Fugeno fuzzy system. <i>Journal of Hydrology</i> , 2001 , 245, 196-217	6	194
124	Two decades of anarchy? Emerging themes and outstanding challenges for neural network river forecasting. <i>Progress in Physical Geography</i> , 2012 , 36, 480-513	3.5	193
123	Flood estimation at ungauged sites using artificial neural networks. <i>Journal of Hydrology</i> , 2006 , 319, 391-409	6.09	167
122	Comparison of SDSM and LARS-WG for simulation and downscaling of extreme precipitation events in a watershed. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011 , 25, 475-484	3.5	133
121	Comparative study of different wavelet based neural network models for rainfall-runoff modeling. <i>Journal of Hydrology</i> , 2014 , 515, 47-58	6	88
120	A non-linear neural network technique for updating of river flow forecasts. <i>Hydrology and Earth System Sciences</i> , 2001 , 5, 577-598	5.5	80
119	Statistical downscaling of watershed precipitation using Gene Expression Programming (GEP). <i>Environmental Modelling and Software</i> , 2011 , 26, 1639-1646	5.2	64
118	Development of rainfall-runoff models using Takagi-Fugeno fuzzy inference systems. <i>Journal of Hydrology</i> , 2006 , 329, 154-173	6	63
117	Comparison of different forms of the Multi-layer Feed-Forward Neural Network method used for river flow forecasting. <i>Hydrology and Earth System Sciences</i> , 2002 , 6, 671-684	5.5	63
116	A comparison between wavelet based static and dynamic neural network approaches for runoff prediction. <i>Journal of Hydrology</i> , 2016 , 535, 211-225	6	59
115	Assessing the performance of eight real-time updating models and procedures for the Brosna River. <i>Hydrology and Earth System Sciences</i> , 2005 , 9, 394-411	5.5	59
114	Qualitative rainfall prediction models for central and southern Sudan using El Niño Southern oscillation and Indian Ocean sea surface temperature Indices. <i>International Journal of Climatology</i> , 2002 , 22, 1861-1878	3.5	58
113	Runoff forecasting using hybrid Wavelet Gene Expression Programming (WGEP) approach. <i>Journal of Hydrology</i> , 2015 , 527, 326-344	6	57
112	Experimental investigation of tsunami bore impact force and pressure on a square prism. <i>Coastal Engineering</i> , 2016 , 110, 1-16	4.8	57
111	A real-time combination method for the outputs of different rainfall-runoff models. <i>Hydrological Sciences Journal</i> , 1999 , 44, 895-912	3.5	56

110	Hydrodynamic Forces Generated on a Spherical Sediment Particle during Entrainment. <i>Journal of Hydraulic Engineering</i> , 2010 , 136, 756-769	1.8	52
109	Artificial neural network model for river flow forecasting in a developing country. <i>Journal of Hydroinformatics</i> , 2010 , 12, 22-35	2.6	50
108	Flow structures and hydrodynamic force during sediment entrainment. <i>Water Resources Research</i> , 2011 , 47,	5.4	48
107	Streamflow trends in western Britain. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	47
106	A nearest neighbour linear perturbation model for river flow forecasting. <i>Journal of Hydrology</i> , 1996 , 179, 353-375	6	41
105	A comparative study of three neural network forecast combination methods for simulated river flows of different rainfall-runoff models. <i>Hydrological Sciences Journal</i> , 2007 , 52, 896-916	3.5	38
104	Modification of the probability-distributed interacting storage capacity model. <i>Journal of Hydrology</i> , 1999 , 224, 149-168	6	37
103	Investigation of Internal Functioning of the Radial-Basis-Function Neural Network River Flow Forecasting Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009 , 14, 286-292	1.8	33
102	Application of surrogate artificial intelligent models for real-time flood routing. <i>Water and Environment Journal</i> , 2013 , 27, 535-548	1.7	30
101	Post-disaster infrastructure restoration: A comparison of events for future planning. <i>International Journal of Disaster Risk Reduction</i> , 2015 , 13, 158-166	4.5	27
100	The geomorphological unit hydrograph: a critical review. <i>Hydrology and Earth System Sciences</i> , 1998 , 2, 1-8	5.5	26
99	A Comparative Study of Various Hybrid Wavelet Feedforward Neural Network Models for Runoff Forecasting. <i>Water Resources Management</i> , 2018 , 32, 83-103	3.7	24
98	Use of Gene Expression Programming for Multimodel Combination of Rainfall-Runoff Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 975-985	1.8	24
97	Flood estimation in ungauged catchments: application of artificial intelligence based methods for Eastern Australia. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 1499-1514	3.5	23
96	Development of a possibilistic method for the evaluation of predictive uncertainty in rainfall-runoff modeling. <i>Water Resources Research</i> , 2007 , 43,	5.4	23
95	Peak flood estimation using gene expression programming. <i>Journal of Hydrology</i> , 2015 , 531, 1122-1128	6	22
94	Measurements of tsunami-borne debris impact on structures using an embedded accelerometer. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016 , 54, 435-449	1.9	22
93	Clear-Water Local Scour at Skewed Complex Bridge Piers. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 04018019	1.8	20

92	Use of Gene Expression Programming in regionalization of flow duration curve. <i>Advances in Water Resources</i> , 2014 , 68, 1-12	4.7	20
91	Review of the application of fuzzy inference systems in river flow forecasting. <i>Journal of Hydroinformatics</i> , 2009 , 11, 202-210	2.6	20
90	Multiobjective Optimization for Maintenance Decision Making in Infrastructure Asset Management. <i>Journal of Management in Engineering - ASCE</i> , 2015 , 31, 04015015	5.3	19
89	Experimental study of uplift loads due to tsunami bore impact on a wharf model. <i>Coastal Engineering</i> , 2016 , 117, 126-137	4.8	19
88	Design of Storm-Water Retention Ponds with Floating Treatment Wetlands. <i>Journal of Environmental Engineering, ASCE</i> , 2013 , 139, 1343-1349	2	19
87	Analysis of hydrodynamic lift on a bed sediment particle. <i>Journal of Geophysical Research</i> , 2011 , 116,		19
86	Drag force on a sediment particle from point velocity measurements: A spectral approach. <i>Water Resources Research</i> , 2010 , 46,	5.4	18
85	Input Selection of Wavelet-Coupled Neural Network Models for Rainfall-Runoff Modelling. <i>Water Resources Management</i> , 2019 , 33, 955-973	3.7	16
84	Land Use Change Detection and Prediction in Upper Siem Reap River, Cambodia. <i>Hydrology</i> , 2019 , 6, 64	2.8	15
83	Temporal Evolution of Clear-Water Local Scour at Aligned and Skewed Complex Bridge Piers. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 04020026	1.8	14
82	Hybrid Wavelet Neuro-Fuzzy Approach for Rainfall-Runoff Modeling. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04014125	5	13
81	A wavelet based approach for combining the outputs of different rainfall-runoff models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 155-168	3.5	13
80	Statistically downscaled probabilistic multi-model ensemble projections of precipitation change in a watershed. <i>Hydrological Processes</i> , 2013 , 27, 1021-1032	3.3	13
79	Knowledge Extraction from Artificial Neural Networks for Rainfall-Runoff Model Combination Systems. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 1422-1429	1.8	13
78	Ideal point error for model assessment in data-driven river flow forecasting. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 3049-3060	5.5	13
77	NEARLY TWO DECADES OF NEURAL NETWORK HYDROLOGIC MODELING 2010 , 267-346		13
76	Robustness analysis of storm water quality modelling with LID infrastructures from natural event-based field monitoring. <i>Science of the Total Environment</i> , 2021 , 753, 142007	10.2	13
75	The effect of different baffles on hydraulic performance of a sediment retention pond. <i>Ecological Engineering</i> , 2015 , 81, 228-232	3.9	12

74	Statistical Properties of Partial Duration Series: Case Study of North Island, New Zealand. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 807-815	1.8	12
73	Retrofitting a stormwater retention pond using a deflector island. <i>Water Science and Technology</i> , 2011 , 63, 2867-72	2.2	12
72	Experimental study on local scour at complex bridge pier under combined waves and current. <i>Coastal Engineering</i> , 2020 , 160, 103730	4.8	11
71	Experimental investigation of tsunami-borne debris impact force on structures: Factors affecting impulse-momentum formula. <i>Ocean Engineering</i> , 2016 , 127, 158-169	3.9	11
70	Local Scour at Complex Bridge Piers in Close Proximity under Clear-Water and Live-Bed Flow Regime. <i>Water (Switzerland)</i> , 2019 , 11, 1530	3	11
69	Investigation of Flow Patterns in Storm Water Retention Ponds using CFD. <i>Journal of Environmental Engineering, ASCE</i> , 2013 , 139, 61-69	2	11
68	A Multi-Scale Analysis of Single-Unit Housing Water Demand Through Integration of Water Consumption, Land Use and Demographic Data. <i>Water Resources Management</i> , 2017 , 31, 2173-2186	3.7	10
67	eTank and contemporary online tools for rainwater tank outcomes analysis. <i>International Journal of Computer Aided Engineering and Technology</i> , 2017 , 9, 372	0.5	10
66	Neuroemulation: definition and key benefits for water resources research. <i>Hydrological Sciences Journal</i> , 2012 , 57, 407-423	3.5	10
65	Live-Bed Scour at Wide and Long-Skewed Bridge Piers in Comparatively Shallow Water. <i>Journal of Hydraulic Engineering</i> , 2019 , 145, 06019005	1.8	10
64	Multimodel Approach Using Neural Networks and Symbolic Regression to Combine the Estimated Discharges of Rainfall-Runoff Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 04016022	1.8	9
63	Future implications of urban intensification on residential water demand. <i>Journal of Environmental Planning and Management</i> , 2017 , 60, 1809-1824	2.8	8
62	Role of Turbulence and Particle Exposure on Entrainment of Large Spherical Particles in Flows with Low Relative Submergence. <i>Journal of Hydraulic Engineering</i> , 2012 , 138, 1022-1030	1.8	8
61	Discussion of Evapotranspiration modelling using support vector machines. <i>Hydrological Sciences Journal</i> , 2010 , 55, 1442-1450	3.5	8
60	Evaluating the Magnitude and Spatial Extent of Disruptions Across Interdependent National Infrastructure Networks. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2020 , 6,	1.4	8
59	Estimation of the effects of price on apartment water demand using cointegration and error correction techniques. <i>Applied Economics</i> , 2016 , 48, 461-470	1.6	7
58	El Niño-Southern Oscillation and Rainfall Variability in Central and Southern Sudan. <i>Water International</i> , 2001 , 26, 177-184	2.4	7
57	Real-Time Flood Forecasting on the Blue Nile River. <i>Water International</i> , 1999 , 24, 39-45	2.4	7

56	Quantifying Directional Dependencies from Infrastructure Restoration Data. <i>Earthquake Spectra</i> , 2016 , 32, 1363-1381	3.4	7
55	Comparison of dynamical and statistical rainfall downscaling of CMIP5 ensembles at a small urban catchment scale. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 989-1012	3.5	6
54	Evaluation of hydraulic performance indices for retention ponds. <i>Water Science and Technology</i> , 2015 , 72, 10-21	2.2	6
53	Impacts of Bridge Piers on Scour at Downstream River Training Structures: Submerged Weir as an Example. <i>Water Resources Research</i> , 2020 , 56, e2019WR026720	5.4	6
52	Quantification of the hydraulic dimension of stormwater management system resilience to flooding. <i>Water Resources Management</i> , 2019 , 33, 4417-4429	3.7	6
51	PHYSICAL HABITAT ASSESSMENT IN URBAN RIVERS UNDER FUTURE FLOW SCENARIOS. <i>Water and Environment Journal</i> , 2003 , 17, 251-256	1.7	6
50	Experimental investigation of tsunami bore-induced forces and pressures on skewed box section bridges. <i>Ocean Engineering</i> , 2021 , 224, 108730	3.9	6
49	Stratification of NWP Forecasts for Medium-Range Ensemble Streamflow Forecasting. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04014076	1.8	5
48	Mitigation Effect of Vertical Walls on a Wharf Model Subjected to Tsunami Bores. <i>Journal of Earthquake and Tsunami</i> , 2017 , 11, 1750004	1.1	5
47	Impact of Ensemble Size on Forecasting Occurrence of Rainfall Using TIGGE Precipitation Forecasts. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 732-738	1.8	5
46	Statistical Properties of Partial Duration Series and Its Implication on Regional Frequency Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 1471-1480	1.8	5
45	A comparative study of artificial neural network techniques for river stage forecasting		5
44	The impact of atmospheric rivers on rainfall in New Zealand. <i>Scientific Reports</i> , 2021 , 11, 5869	4.9	5
43	Tsunami loads on slab bridges. <i>Coastal Engineering</i> , 2021 , 165, 103853	4.8	5
42	A Multi-Scale Analysis of Low-Rise Apartment Water Demand through Integration of Water Consumption, Land Use, and Demographic Data. <i>Journal of the American Water Resources Association</i> , 2016 , 52, 1056-1067	2.1	5
41	Mitigation of tsunami bore impact on a vertical wall behind a barrier. <i>Coastal Engineering</i> , 2021 , 164, 103833	4.8	5
40	Instant tsunami bore pressure and force on a cylindrical structure. <i>Journal of Hydro-Environment Research</i> , 2018 , 19, 28-40	2.3	4
39	Hybrid Wavelet Neural Network Approach. <i>Studies in Computational Intelligence</i> , 2016 , 127-143	0.8	4

38	Experimental investigation of the effect of temperature differentials on hydraulic performance and flow pattern of a sediment retention pond. <i>Water Science and Technology</i> , 2018 , 77, 2896-2906	2.2	4
37	The influence of morphological characteristics of green patch on its surrounding thermal environment. <i>Ecological Engineering</i> , 2019 , 140, 105594	3.9	4
36	Sensitivity analysis of Takagi-Sugeno-Kang rainfall-runoff fuzzy models. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 41-55	5.5	4
35	Hybrid Neural Network Modelling Solutions 2004 , 61-79		4
34	Assessment of land use and climate change effects on hydrology in the upper Siem Reap River and Angkor Temple Complex, Cambodia. <i>Environmental Development</i> , 2021 , 39, 100615	4.1	4
33	Assessment of Climate Change Impact on Water Balance of Forested and Farmed Catchments. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04015009	1.8	3
32	Evaluating the determinants of high-rise apartment water demand through integration of water consumption, land use and demographic data. <i>Water Policy</i> , 2018 , 20, 966-981	1.6	3
31	Discussion of Reservoir Computing approach to Great Lakes water level forecasting [by P. Coulibaly [J. Hydrol. 381(2010) 7688]]. <i>Journal of Hydrology</i> , 2012 , 422-423, 76-80	6	3
30	Impact of Ensemble Size on TIGGE Precipitation Forecasts: An End-User Perspective. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04014046	1.8	3
29	Estimation of soil hydraulic properties and their uncertainty through the Beerkan infiltration experiment. <i>Hydrological Processes</i> , 2015 , 29, 3699-3713	3.3	3
28	Hydraulic investigation of the impact of retrofitting floating treatment wetlands in retention ponds. <i>Water Science and Technology</i> , 2019 , 80, 1476-1484	2.2	3
27	Projection of future extreme precipitation: a robust assessment of downscaled daily precipitation. <i>Natural Hazards</i> , 2021 , 107, 311-329	3	3
26	Effect of baffles on the hydraulic performance of sediment retention ponds. <i>Water Science and Technology</i> , 2017 , 75, 1991-1996	2.2	2
25	Development of Artificial Intelligence Based Regional Flood Estimation Techniques for Eastern Australia. <i>Studies in Computational Intelligence</i> , 2016 , 307-323	0.8	2
24	Dimensions of Wastewater System Recovery Following Major Disruptions. <i>Journal of Infrastructure Systems</i> , 2017 , 23, 04016031	2.9	2
23	Countermeasures for local scour at offshore wind turbine monopile foundations: A review. <i>Water Science and Engineering</i> , 2022 , 15, 15-15	4	2
22	Real-Time river flow forecasting 2005 , 181-195		2
21	Quantifying system-level dependencies between connected electricity and transport infrastructure networks incorporating expert judgement. <i>Civil Engineering and Environmental Systems</i> , 2021 , 38, 176-196 ^{2,1}		2

20	Regional water security evaluation with risk control model and its application in Jiangsu Province, China. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 55700-55715	5.1	2
19	Stream Temperature Modeling and Fiber Optic Temperature Sensing to Characterize Groundwater Discharge. <i>Ground Water</i> , 2020 , 58, 661-673	2.4	2
18	Assessment of the Myitnge River flow responses in Myanmar under changes in land use and climate. <i>Modeling Earth Systems and Environment</i> , 2021 , 7, 1393-1415	3.2	2
17	Experimental study on local scour at complex bridge piers under steady currents with bed-form migration. <i>Ocean Engineering</i> , 2021 , 234, 109329	3.9	2
16	Numerical study on the impact of the coupling of diffuser parameters on the performance of submersible pumps used in town water distribution systems. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019 , 41, 1	2	1
15	Impacts of blade inlet angle of diffuser on the performance of a submersible pump. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2020 , 234, 613-623	1.5	1
14	Evaluating spatial and seasonal determinants of residential water demand across different housing types through data integration. <i>Water International</i> , 2018 , 43, 926-942	2.4	1
13	Investigation of climate change impacts on flow regime in the Lucas Creek catchment using multiple CMIP5 ensembles. <i>Urban Water Journal</i> , 2019 , 16, 389-401	2.3	1
12	Neural network modelling of the 20-year flood event for catchments across the UK		1
11	Experimental investigation of the effects of contraction on tsunami-induced forces and pressures on a box section bridge. <i>Journal of Hydro-Environment Research</i> , 2022 , 40, 116-130	2.3	1
10	Improving the Summer Power Generation of a Hydropower Reservoir Using the Modified Multi-Step Ahead Time-Varying Hedging Rule. <i>Water Resources Management</i> , 2022 , 36, 853	3.7	1
9	Topics related to rainfall-runoff models 2005 , 171-180		1
8	Identifying future climate change and drought detection using CanESM2 in the upper Siem Reap River, Cambodia. <i>Dynamics of Atmospheres and Oceans</i> , 2021 , 94, 101182	1.9	1
7	Sustainable water management in the Angkor Temple Complex, Cambodia. <i>SN Applied Sciences</i> , 2021 , 3, 1	1.8	1
6	Experimental Investigation of Tsunami Bore-Induced Forces on Skewed Deck Girder Section Bridges. <i>Journal of Hydraulic Engineering</i> , 2021 , 147, 04021027	1.8	1
5	The effect of inlet width on the performance of sediment retention ponds in thermally induced flows. <i>Journal of Hydrology</i> , 2022 , 606, 127377	6	0
4	Characteristics of the flow field within a developing scour hole at a submerged weir. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1-12	1.9	0
3	Comprehensive Optimization Framework for Low Impact Development Facility Layout Design with CostBenefit Analysis: A Case Study in Shenzhen City, China. <i>ACS ES&T Water</i> , 2022 , 2, 63-74		0

- 2 Delineating Flood-Flow Regions for the North Island of New Zealand. *Journal of Hydrologic Engineering - ASCE*, **2016**, 21, 05015024 1.8
- 1 Resistance Computation in Overbank Flows **2009**, 1829-1834