Asaad Y Shamseldin

List of Publications by Year in Descending Order

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	Experimental investigation of the effects of contraction on tsunami-induced forces and pressures on a box section bridge. *Journal of Hydro-Environment Research*, **2022**, 40, 116-130	2.3	1
126	Countermeasures for local scour at offshore wind turbine monopile foundations: A review. *Water Science and Engineering*, **2022**, 15, 15-15	4	2
125	Improving the Summer Power Generation of a Hydropower Reservoir Using the Modified Multi-Step Ahead Time-Varying Hedging Rule. *Water Resources Management*, **2022**, 36, 853	3.7	1
124	The effect of inlet width on the performance of sediment retention ponds in thermally induced flows. *Journal of Hydrology*, **2022**, 606, 127377	6	0
123	Comprehensive Optimization Framework for Low Impact Development Facility Layout Design with CostBenefit Analysis: A Case Study in Shenzhen City, China. *ACS ES&T Water*, **2022**, 2, 63-74		0
122	The impact of atmospheric rivers on rainfall in New Zealand. *Scientific Reports*, **2021**, 11, 5869	4.9	5
121	Experimental investigation of tsunami bore-induced forces and pressures on skewed box section bridges. *Ocean Engineering*, **2021**, 224, 108730	3.9	6
120	Tsunami loads on slab bridges. *Coastal Engineering*, **2021**, 165, 103853	4.8	5
119	Quantifying system-level dependencies between connected electricity and transport infrastructure networks incorporating expert judgement. *Civil Engineering and Environmental Systems*, **2021**, 38, 176-196	2.1	2
118	Regional water security evaluation with risk control model and its application in Jiangsu Province, China. *Environmental Science and Pollution Research*, **2021**, 28, 55700-55715	5.1	2
117	Robustness analysis of storm water quality modelling with LID infrastructures from natural event-based field monitoring. *Science of the Total Environment*, **2021**, 753, 142007	10.2	13
116	Mitigation of tsunami bore impact on a vertical wall behind a barrier. *Coastal Engineering*, **2021**, 164, 103833	4.8	5
115	Identifying future climate change and drought detection using CanESM2 in the upper Siem Reap River, Cambodia. *Dynamics of Atmospheres and Oceans*, **2021**, 94, 101182	1.9	1
114	Assessment of the Myitnge River flow responses in Myanmar under changes in land use and climate. *Modeling Earth Systems and Environment*, **2021**, 7, 1393-1415	3.2	2
113	Sustainable water management in the Angkor Temple Complex, Cambodia. *SN Applied Sciences*, **2021**, 3, 1	1.8	1
112	Projection of future extreme precipitation: a robust assessment of downscaled daily precipitation. *Natural Hazards*, **2021**, 107, 311-329	3	3
111	Experimental Investigation of Tsunami Bore-Induced Forces on Skewed Deck Girder Section Bridges. *Journal of Hydraulic Engineering*, **2021**, 147, 04021027	1.8	1

110	Experimental study on local scour at complex bridge piers under steady currents with bed-form migration. *Ocean Engineering*, **2021**, 234, 109329	3.9	2
109	Assessment of land use and climate change effects on hydrology in the upper Siem Reap River and Angkor Temple Complex, Cambodia. *Environmental Development*, **2021**, 39, 100615	4.1	4
108	Experimental study on local scour at complex bridge pier under combined waves and current. *Coastal Engineering*, **2020**, 160, 103730	4.8	11
107	Impacts of blade inlet angle of diffuser on the performance of a submersible pump. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, **2020**, 234, 613-623	1.5	1
106	Temporal Evolution of Clear-Water Local Scour at Aligned and Skewed Complex Bridge Piers. *Journal of Hydraulic Engineering*, **2020**, 146, 04020026	1.8	14
105	Impacts of Bridge Piers on Scour at Downstream River Training Structures: Submerged Weir as an Example. *Water Resources Research*, **2020**, 56, e2019WR026720	5.4	6
104	Evaluating the Magnitude and Spatial Extent of Disruptions Across Interdependent National Infrastructure Networks. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*, **2020**, 6,	1.4	8
103	Stream Temperature Modeling and Fiber Optic Temperature Sensing to Characterize Groundwater Discharge. *Ground Water*, **2020**, 58, 661-673	2.4	2
102	Numerical study on the impact of the coupling of diffuser parameters on the performance of submersible pumps used in town water distribution systems. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2019**, 41, 1	2	1
101	Comparison of dynamical and statistical rainfall downscaling of CMIP5 ensembles at a small urban catchment scale. *Stochastic Environmental Research and Risk Assessment*, **2019**, 33, 989-1012	3.5	6
100	Land Use Change Detection and Prediction in Upper Siem Reap River, Cambodia. *Hydrology*, **2019**, 6, 64	2.8	15
99	Local Scour at Complex Bridge Piers in Close Proximity under Clear-Water and Live-Bed Flow Regime. *Water (Switzerland)*, **2019**, 11, 1530	3	11
98	Investigation of climate change impacts on flow regime in the Lucas Creek catchment using multiple CMIP5 ensembles. *Urban Water Journal*, **2019**, 16, 389-401	2.3	1
97	The influence of morphological characteristics of green patch on its surrounding thermal environment. *Ecological Engineering*, **2019**, 140, 105594	3.9	4
96	Quantification of the hydraulic dimension of stormwater management system resilience to flooding. *Water Resources Management*, **2019**, 33, 4417-4429	3.7	6
95	Live-Bed Scour at Wide and Long-Skewed Bridge Piers in Comparatively Shallow Water. *Journal of Hydraulic Engineering*, **2019**, 145, 06019005	1.8	10
94	Hydraulic investigation of the impact of retrofitting floating treatment wetlands in retention ponds. *Water Science and Technology*, **2019**, 80, 1476-1484	2.2	3
93	Input Selection of Wavelet-Coupled Neural Network Models for Rainfall-Runoff Modelling. *Water Resources Management*, **2019**, 33, 955-973	3.7	16

92	Evaluating the determinants of high-rise apartment water demand through integration of water consumption, land use and demographic data. *Water Policy*, **2018**, 20, 966-981	1.6	3
91	Instant tsunami bore pressure and force on a cylindrical structure. *Journal of Hydro-Environment Research*, **2018**, 19, 28-40	2.3	4
90	Clear-Water Local Scour at Skewed Complex Bridge Piers. *Journal of Hydraulic Engineering*, **2018**, 144, 04018019	1.8	20
89	A wavelet based approach for combining the outputs of different rainfall-runoff models. *Stochastic Environmental Research and Risk Assessment*, **2018**, 32, 155-168	3.5	13
88	A Comparative Study of Various Hybrid Wavelet Feedforward Neural Network Models for Runoff Forecasting. *Water Resources Management*, **2018**, 32, 83-103	3.7	24
87	Evaluating spatial and seasonal determinants of residential water demand across different housing types through data integration. *Water International*, **2018**, 43, 926-942	2.4	1
86	Experimental investigation of the effect of temperature differentials on hydraulic performance and flow pattern of a sediment retention pond. *Water Science and Technology*, **2018**, 77, 2896-2906	2.2	4
85	A Multi-Scale Analysis of Single-Unit Housing Water Demand Through Integration of Water Consumption, Land Use and Demographic Data. *Water Resources Management*, **2017**, 31, 2173-2186	3.7	10
84	Future implications of urban intensification on residential water demand. *Journal of Environmental Planning and Management*, **2017**, 60, 1809-1824	2.8	8
83	Effect of baffles on the hydraulic performance of sediment retention ponds. *Water Science and Technology*, **2017**, 75, 1991-1996	2.2	2
82	Dimensions of Wastewater System Recovery Following Major Disruptions. *Journal of Infrastructure Systems*, **2017**, 23, 04016031	2.9	2
81	Mitigation Effect of Vertical Walls on a Wharf Model Subjected to Tsunami Bores. *Journal of Earthquake and Tsunami*, **2017**, 11, 1750004	1.1	5
80	Flood estimation in ungauged catchments: application of artificial intelligence based methods for Eastern Australia. *Stochastic Environmental Research and Risk Assessment*, **2017**, 31, 1499-1514	3.5	23
79	eTank and contemporary online tools for rainwater tank outcomes analysis. *International Journal of Computer Aided Engineering and Technology*, **2017**, 9, 372	0.5	10
78	Hybrid Wavelet Neuro-Fuzzy Approach for Rainfall-Runoff Modeling. *Journal of Computing in Civil Engineering*, **2016**, 30, 04014125	5	13
77	Experimental study of uplift loads due to tsunami bore impact on a wharf model. *Coastal Engineering*, **2016**, 117, 126-137	4.8	19
76	Experimental investigation of tsunami-borne debris impact force on structures: Factors affecting impulse-momentum formula. *Ocean Engineering*, **2016**, 127, 158-169	3.9	11
75	Delineating Flood-Flow Regions for the North Island of New Zealand. *Journal of Hydrologic Engineering - ASCE*, **2016**, 21, 05015024	1.8	

74	Experimental investigation of tsunami bore impact force and pressure on a square prism. *Coastal Engineering*, **2016**, 110, 1-16	4.8	57
73	Development of Artificial Intelligence Based Regional Flood Estimation Techniques for Eastern Australia. *Studies in Computational Intelligence*, **2016**, 307-323	0.8	2
72	Hybrid Wavelet Neural Network Approach. *Studies in Computational Intelligence*, **2016**, 127-143	0.8	4
71	A comparison between wavelet based static and dynamic neural network approaches for runoff prediction. *Journal of Hydrology*, **2016**, 535, 211-225	6	59
70	Estimation of the effects of price on apartment water demand using cointegration and error correction techniques. *Applied Economics*, **2016**, 48, 461-470	1.6	7
69	Quantifying Directional Dependencies from Infrastructure Restoration Data. *Earthquake Spectra*, **2016**, 32, 1363-1381	3.4	7
68	A Multi-Scale Analysis of Low-Rise Apartment Water Demand through Integration of Water Consumption, Land Use, and Demographic Data. *Journal of the American Water Resources Association*, **2016**, 52, 1056-1067	2.1	5
67	Multimodel Approach Using Neural Networks and Symbolic Regression to Combine the Estimated Discharges of Rainfall-Runoff Models. *Journal of Hydrologic Engineering - ASCE*, **2016**, 21, 04016022	1.8	9
66	Measurements of tsunami-borne debris impact on structures using an embedded accelerometer. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2016**, 54, 435-449	1.9	22
65	Stratification of NWP Forecasts for Medium-Range Ensemble Streamflow Forecasting. *Journal of Hydrologic Engineering - ASCE*, **2015**, 20, 04014076	1.8	5
64	Evaluation of hydraulic performance indices for retention ponds. *Water Science and Technology*, **2015**, 72, 10-21	2.2	6
63	The effect of different baffles on hydraulic performance of a sediment retention pond. *Ecological Engineering*, **2015**, 81, 228-232	3.9	12
62	Multiobjective Optimization for Maintenance Decision Making in Infrastructure Asset Management. *Journal of Management in Engineering - ASCE*, **2015**, 31, 04015015	5.3	19
61	Runoff forecasting using hybrid Wavelet Gene Expression Programming (WGEP) approach. *Journal of Hydrology*, **2015**, 527, 326-344	6	57
60	Assessment of Climate Change Impact on Water Balance of Forested and Farmed Catchments. *Journal of Hydrologic Engineering - ASCE*, **2015**, 20, 04015009	1.8	3
59	Peak flood estimation using gene expression programming. *Journal of Hydrology*, **2015**, 531, 1122-1128	6	22
58	Impact of Ensemble Size on TIGGE Precipitation Forecasts: An End-User Perspective. *Journal of Hydrologic Engineering - ASCE*, **2015**, 20, 04014046	1.8	3
57	Estimation of soil hydraulic properties and their uncertainty through the Beerkan infiltration experiment. *Hydrological Processes*, **2015**, 29, 3699-3713	3.3	3

56	Post-disaster infrastructure restoration: A comparison of events for future planning. *International Journal of Disaster Risk Reduction*, **2015**, 13, 158-166	4.5	27
55	Use of Gene Expression Programming in regionalization of flow duration curve. *Advances in Water Resources*, **2014**, 68, 1-12	4.7	20
54	Comparative study of different wavelet based neural network models for rainfall runoff modeling. *Journal of Hydrology*, **2014**, 515, 47-58	6	88
53	Impact of Ensemble Size on Forecasting Occurrence of Rainfall Using TIGGE Precipitation Forecasts. *Journal of Hydrologic Engineering - ASCE*, **2014**, 19, 732-738	1.8	5
52	Statistical Properties of Partial Duration Series and Its Implication on Regional Frequency Analysis. *Journal of Hydrologic Engineering - ASCE*, **2014**, 19, 1471-1480	1.8	5
51	Knowledge Extraction from Artificial Neural Networks for Rainfall-Runoff Model Combination Systems. *Journal of Hydrologic Engineering - ASCE*, **2014**, 19, 1422-1429	1.8	13
50	Statistical Properties of Partial Duration Series: Case Study of North Island, New Zealand. *Journal of Hydrologic Engineering - ASCE*, **2014**, 19, 807-815	1.8	12
49	Statistically downscaled probabilistic multi-model ensemble projections of precipitation change in a watershed. *Hydrological Processes*, **2013**, 27, 1021-1032	3.3	13
48	Application of surrogate artificial intelligent models for real-time flood routing. *Water and Environment Journal*, **2013**, 27, 535-548	1.7	30
47	Design of Storm-Water Retention Ponds with Floating Treatment Wetlands. *Journal of Environmental Engineering, ASCE*, **2013**, 139, 1343-1349	2	19
46	Investigation of Flow Patterns in Storm Water Retention Ponds using CFD. *Journal of Environmental Engineering, ASCE*, **2013**, 139, 61-69	2	11
45	Discussion of Reservoir Computing approach to Great Lakes water level forecasting by P. Coulibaly [J. Hydrol. 381(2010) 76 88]. *Journal of Hydrology*, **2012**, 422-423, 76-80	6	3
44	Role of Turbulence and Particle Exposure on Entrainment of Large Spherical Particles in Flows with Low Relative Submergence. *Journal of Hydraulic Engineering*, **2012**, 138, 1022-1030	1.8	8
43	Two decades of anarchy? Emerging themes and outstanding challenges for neural network river forecasting. *Progress in Physical Geography*, **2012**, 36, 480-513	3.5	193
42	Ideal point error for model assessment in data-driven river flow forecasting. *Hydrology and Earth System Sciences*, **2012**, 16, 3049-3060	5.5	13
41	Neuroemulation: definition and key benefits for water resources research. *Hydrological Sciences Journal*, **2012**, 57, 407-423	3.5	10
40	Use of Gene Expression Programming for Multimodel Combination of Rainfall-Runoff Models. *Journal of Hydrologic Engineering - ASCE*, **2012**, 17, 975-985	1.8	24
39	Flow structures and hydrodynamic force during sediment entrainment. *Water Resources Research*, **2011**, 47,	5.4	48

38	Statistical downscaling of watershed precipitation using Gene Expression Programming (GEP). *Environmental Modelling and Software*, **2011**, 26, 1639-1646	5.2	64
37	Analysis of hydrodynamic lift on a bed sediment particle. *Journal of Geophysical Research*, **2011**, 116,		19
36	Comparison of SDSM and LARS-WG for simulation and downscaling of extreme precipitation events in a watershed. *Stochastic Environmental Research and Risk Assessment*, **2011**, 25, 475-484	3.5	133
35	Retrofitting a stormwater retention pond using a deflector island. *Water Science and Technology*, **2011**, 63, 2867-72	2.2	12
34	Discussion of "Evapotranspiration modelling using support vector machines"View all notes. *Hydrological Sciences Journal*, **2010**, 55, 1442-1450	3.5	8
33	Artificial neural network model for river flow forecasting in a developing country. *Journal of Hydroinformatics*, **2010**, 12, 22-35	2.6	50
32	Hydrodynamic Forces Generated on a Spherical Sediment Particle during Entrainment. *Journal of Hydraulic Engineering*, **2010**, 136, 756-769	1.8	52
31	Drag force on a sediment particle from point velocity measurements: A spectral approach. *Water Resources Research*, **2010**, 46,	5.4	18
30	NEARLY TWO DECADES OF NEURAL NETWORK HYDROLOGIC MODELING **2010**, 267-346		13
29	Review of the application of fuzzy inference systems in river flow forecasting. *Journal of Hydroinformatics*, **2009**, 11, 202-210	2.6	20
28	Investigation of Internal Functioning of the Radial-Basis-Function Neural Network River Flow Forecasting Models. *Journal of Hydrologic Engineering - ASCE*, **2009**, 14, 286-292	1.8	33
27	Sensitivity analysis of Takagi-Sugeno-Kang rainfall-runoff fuzzy models. *Hydrology and Earth System Sciences*, **2009**, 13, 41-55	5.5	4
26	Resistance Computation in Overbank Flows **2009**, 1829-1834		
25	A comparative study of three neural network forecast combination methods for simulated river flows of different rainfallrunoff models. *Hydrological Sciences Journal*, **2007**, 52, 896-916	3.5	38
24	Development of a possibilistic method for the evaluation of predictive uncertainty in rainfall-runoff modeling. *Water Resources Research*, **2007**, 43,	5.4	23
23	Flood estimation at ungauged sites using artificial neural networks. *Journal of Hydrology*, **2006**, 319, 391-409	6	167
22	Development of rainfallrunoff models using TakagiSugeno fuzzy inference systems. *Journal of Hydrology*, **2006**, 329, 154-173	6	63
21	Streamflow trends in western Britain. *Geophysical Research Letters*, **2006**, 33,	4.9	47

20	Assessing the performance of eight real-time updating models and procedures for the Brosna River. *Hydrology and Earth System Sciences*, **2005**, 9, 394-411	5.5	59
19	Real-Time river flow forecasting **2005**, 181-195		2
18	Topics related to rainfall-runoff models **2005**, 171-180		1
17	Hybrid Neural Network Modelling Solutions **2004**, 61-79		4
16	PHYSICAL HABITAT ASSESSMENT IN URBAN RIVERS UNDER FUTURE FLOW SCENARIOS. *Water and Environment Journal*, **2003**, 17, 251-256	1.7	6
15	Comparison of different forms of the Multi-layer Feed-Forward Neural Network method used for river flow forecasting. *Hydrology and Earth System Sciences*, **2002**, 6, 671-684	5.5	63
14	Qualitative rainfall prediction models for central and southern Sudan using El Niño-Southern oscillation and Indian Ocean sea surface temperature Indices. *International Journal of Climatology*, **2002**, 22, 1861-1878	3.5	58
13	El Niño-Southern Oscillation and Rainfall Variability in Central and Southern Sudan. *Water International*, **2001**, 26, 177-184	2.4	7
12	A non-linear combination of the forecasts of rainfall-runoff models by the first-order Takagi-Sugeno fuzzy system. *Journal of Hydrology*, **2001**, 245, 196-217	6	194
11	A non-linear neural network technique for updating of river flow forecasts. *Hydrology and Earth System Sciences*, **2001**, 5, 577-598	5.5	80
10	Real-Time Flood Forecasting on the Blue Nile River. *Water International*, **1999**, 24, 39-45	2.4	7
9	Modification of the probability-distributed interacting storage capacity model. *Journal of Hydrology* , **1999**, 224, 149-168	6	37
8	A real-time combination method for the outputs of different rainfall-runoff models. *Hydrological Sciences Journal*, **1999**, 44, 895-912	3.5	56
7	The geomorphological unit hydrograph a critical review. *Hydrology and Earth System Sciences*, **1998**, 2, 1-8	5.5	26
6	Methods for combining the outputs of different rainfall-runoff models. *Journal of Hydrology*, **1997**, 197, 203-229	6	204
5	Application of a neural network technique to rainfall-runoff modelling. *Journal of Hydrology*, **1997**, 199, 272-294	6	351
4	A nearest neighbour linear perturbation model for river flow forecasting. *Journal of Hydrology*, **1996**, 179, 353-375	6	41
3	A comparative study of artificial neural network techniques for river stage forecasting		5

List of Publications