

Asaad Y Shamseldin

List of Publications by Year in descending order

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129
papers

4,140
citations

159358

30
h-index

133063

59
g-index

131
all docs

131
docs citations

131
times ranked

3203
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of a neural network technique to rainfall-runoff modelling. Journal of Hydrology, 1997, 199, 272-294.	2.3	400
2	Methods for combining the outputs of different rainfall-runoff models. Journal of Hydrology, 1997, 197, 203-229.	2.3	246
3	Two decades of anarchy? Emerging themes and outstanding challenges for neural network river forecasting. Progress in Physical Geography, 2012, 36, 480-513.	1.4	235
4	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.	2.3	223
5	Flood estimation at ungauged sites using artificial neural networks. Journal of Hydrology, 2006, 319, 391-409.	2.3	210
6	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.	1.9	161
7	Comparative study of different wavelet based neural network models for rainfall-runoff modeling. Journal of Hydrology, 2014, 515, 47-58.	2.3	121
8	A non-linear neural network technique for updating of river flow forecasts. Hydrology and Earth System Sciences, 2001, 5, 577-598.	1.9	90
9	Experimental investigation of tsunami bore impact force and pressure on a square prism. Coastal Engineering, 2016, 110, 1-16.	1.7	84
10	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.	1.9	83
11	Statistical downscaling of watershed precipitation using Gene Expression Programming (GEP). Environmental Modelling and Software, 2011, 26, 1639-1646.	1.9	83
12	Development of rainfall-runoff models using Takagi-Sugeno fuzzy inference systems. Journal of Hydrology, 2006, 329, 154-173.	2.3	79
13	A comparison between wavelet based static and dynamic neural network approaches for runoff prediction. Journal of Hydrology, 2016, 535, 211-225.	2.3	78
14	Assessing the performance of eight real-time updating models and procedures for the Brosna River. Hydrology and Earth System Sciences, 2005, 9, 394-411.	1.9	73
15	Runoff forecasting using hybrid Wavelet Gene Expression Programming (WGEP) approach. Journal of Hydrology, 2015, 527, 326-344.	2.3	73
16	A real-time combination method for the outputs of different rainfall-runoff models. Hydrological Sciences Journal, 1999, 44, 895-912.	1.2	67
17	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.	1.5	67
18	Hydrodynamic Forces Generated on a Spherical Sediment Particle during Entrainment. Journal of Hydraulic Engineering, 2010, 136, 756-769.	0.7	66

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19	Artificial neural network model for river flow forecasting in a developing country. <i>Journal of Hydroinformatics</i> , 2010, 12, 22-35.	1.1	65
20	Flow structures and hydrodynamic force during sediment entrainment. <i>Water Resources Research</i> , 2011, 47, .	1.7	61
21	Streamflow trends in western Britain. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	56
22	A nearest neighbour linear perturbation model for river flow forecasting. <i>Journal of Hydrology</i> , 1996, 179, 353-375.	2.3	48
23	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.	1.2	47
24	Post-disaster infrastructure restoration: A comparison of events for future planning. <i>International Journal of Disaster Risk Reduction</i> , 2015, 13, 158-166.	1.8	42
25	A Comparative Study of Various Hybrid Wavelet Feedforward Neural Network Models for Runoff Forecasting. <i>Water Resources Management</i> , 2018, 32, 83-103.	1.9	42
26	Modification of the probability-distributed interacting storage capacity model. <i>Journal of Hydrology</i> , 1999, 224, 149-168.	2.3	40
27	Application of surrogate artificial intelligent models for real-time flood routing. <i>Water and Environment Journal</i> , 2013, 27, 535-548.	1.0	39
28	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.	0.8	38
29	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.	3.9	38
30	Experimental study on local scour at complex bridge pier under combined waves and current. <i>Coastal Engineering</i> , 2020, 160, 103730.	1.7	34
31	The geomorphological unit hydrograph – a critical review. <i>Hydrology and Earth System Sciences</i> , 1998, 2, 1-8.	1.9	33
32	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.	1.9	32
33	Use of Gene Expression Programming for Multimodel Combination of Rainfall-Runoff Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 975-985.	0.8	31
34	Multiobjective Optimization for Maintenance Decision Making in Infrastructure Asset Management. <i>Journal of Management in Engineering - ASCE</i> , 2015, 31, .	2.6	31
35	Review of the application of fuzzy inference systems in river flow forecasting. <i>Journal of Hydroinformatics</i> , 2009, 11, 202-210.	1.1	30
36	Development of a possibilistic method for the evaluation of predictive uncertainty in rainfall-runoff modeling. <i>Water Resources Research</i> , 2007, 43, .	1.7	29

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37	Measurements of tsunami-borne debris impact on structures using an embedded accelerometer. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 435-449.	0.7	29
38	Design of Storm-Water Retention Ponds with Floating Treatment Wetlands. Journal of Environmental Engineering, ASCE, 2013, 139, 1343-1349.	0.7	27
39	Peak flood estimation using gene expression programming. Journal of Hydrology, 2015, 531, 1122-1128.	2.3	27
40	Clear-Water Local Scour at Skewed Complex Bridge Piers. Journal of Hydraulic Engineering, 2018, 144, 04018019.	0.7	26
41	Temporal Evolution of Clear-Water Local Scour at Aligned and Skewed Complex Bridge Piers. Journal of Hydraulic Engineering, 2020, 146, .	0.7	26
42	Use of Gene Expression Programming in regionalization of flow duration curve. Advances in Water Resources, 2014, 68, 1-12.	1.7	25
43	Experimental study of uplift loads due to tsunami bore impact on a wharf model. Coastal Engineering, 2016, 117, 126-137.	1.7	25
44	Countermeasures for local scour at offshore wind turbine monopile foundations: A review. Water Science and Engineering, 2022, 15, 15-28.	1.4	25
45	Analysis of hydrodynamic lift on a bed sediment particle. Journal of Geophysical Research, 2011, 116, .	3.3	21
46	Land Use Change Detection and Prediction in Upper Siem Reap River, Cambodia. Hydrology, 2019, 6, 64.	1.3	21
47	Input Selection of Wavelet-Coupled Neural Network Models for Rainfall-Runoff Modelling. Water Resources Management, 2019, 33, 955-973.	1.9	21
48	Drag force on a sediment particle from point velocity measurements: A spectral approach. Water Resources Research, 2010, 46, .	1.7	20
49	Mitigation of tsunami bore impact on a vertical wall behind a barrier. Coastal Engineering, 2021, 164, 103833.	1.7	19
50	The impact of atmospheric rivers on rainfall in New Zealand. Scientific Reports, 2021, 11, 5869.	1.6	19
51	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, .	0.7	19
52	Hybrid Wavelet Neuro-Fuzzy Approach for Rainfall-Runoff Modeling. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	18
53	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.	1.9	17
54	A wavelet based approach for combining the outputs of different rainfall-runoff models. Stochastic Environmental Research and Risk Assessment, 2018, 32, 155-168.	1.9	17

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55	Live-Bed Scour at Wide and Long-Skewed Bridge Piers in Comparatively Shallow Water. Journal of Hydraulic Engineering, 2019, 145, .	0.7	17
56	NEARLY TWO DECADES OF NEURAL NETWORK HYDROLOGIC MODELING. , 2010, , 267-346.		17
57	Investigation of Flow Patterns in Storm Water Retention Ponds using CFD. Journal of Environmental Engineering, ASCE, 2013, 139, 61-69.	0.7	16
58	Knowledge Extraction from Artificial Neural Networks for Rainfall-Runoff Model Combination Systems. Journal of Hydrologic Engineering - ASCE, 2014, 19, 1422-1429.	0.8	16
59	The effect of different baffles on hydraulic performance of a sediment retention pond. Ecological Engineering, 2015, 81, 228-232.	1.6	16
60	Statistical Properties of Partial Duration Series: Case Study of North Island, New Zealand. Journal of Hydrologic Engineering - ASCE, 2014, 19, 807-815.	0.8	15
61	eTank and contemporary online tools for rainwater tank outcomes analysis. International Journal of Computer Aided Engineering and Technology, 2017, 9, 372.	0.1	15
62	Experimental investigation of tsunami bore-induced forces and pressures on skewed box section bridges. Ocean Engineering, 2021, 224, 108730.	1.9	15
63	Ideal point error for model assessment in data-driven river flow forecasting. Hydrology and Earth System Sciences, 2012, 16, 3049-3060.	1.9	14
64	Local Scour at Complex Bridge Piers in Close Proximity under Clear-Water and Live-Bed Flow Regime. Water (Switzerland), 2019, 11, 1530.	1.2	14
65	Retrofitting a stormwater retention pond using a deflector island. Water Science and Technology, 2011, 63, 2867-2872.	1.2	13
66	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.	0.7	13
67	Statistically downscaled probabilistic multi-model ensemble projections of precipitation change in a watershed. Hydrological Processes, 2013, 27, 1021-1032.	1.1	13
68	Evaluation of hydraulic performance indices for retention ponds. Water Science and Technology, 2015, 72, 10-21.	1.2	13
69	Quantifying Directional Dependencies from Infrastructure Restoration Data. Earthquake Spectra, 2016, 32, 1363-1381.	1.6	13
70	Experimental investigation of tsunami-borne debris impact force on structures: Factors affecting impulse-momentum formula. Ocean Engineering, 2016, 127, 158-169.	1.9	13
71	Quantification of the hydraulic dimension of stormwater management system resilience to flooding. Water Resources Management, 2019, 33, 4417-4429.	1.9	13
72	Impacts of Bridge Piers on Scour at Downstream River Training Structures: Submerged Weir as an Example. Water Resources Research, 2020, 56, e2019WR026720.	1.7	13

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73	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.	1.8	13
74	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, .	0.8	12
75	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.	1.9	12
76	Experimental study on local scour at complex bridge piers under steady currents with bed-form migration. <i>Ocean Engineering</i> , 2021, 234, 109329.	1.9	12
77	Comprehensive Optimization Framework for Low Impact Development Facility Layout Design with Costâ€œBenefit Analysis: A Case Study in Shenzhen City, China. <i>ACS ES&T Water</i> , 2022, 2, 63-74.	2.3	11
78	Neuroemulation: definition and key benefits for water resources research. <i>Hydrological Sciences Journal</i> , 2012, 57, 407-423.	1.2	10
79	Discussion of â€œEvapotranspiration modelling using support vector machinesâ€š. <i>Hydrological Sciences Journal</i> , 2010, 55, 1442-1450.	1.2	9
80	The influence of morphological characteristics of green patch on its surrounding thermal environment. <i>Ecological Engineering</i> , 2019, 140, 105594.	1.6	9
81	Real-Time Flood Forecasting on the Blue Nile River. <i>Water International</i> , 1999, 24, 39-45.	0.4	8
82	El NiÃ±o-Southern Oscillation and Rainfall Variability in Central and Southern Sudan. <i>Water International</i> , 2001, 26, 177-184.	0.4	8
83	Estimation of the effects of price on apartment water demand using cointegration and error correction techniques. <i>Applied Economics</i> , 2016, 48, 461-470.	1.2	8
84	Future implications of urban intensification on residential water demand. <i>Journal of Environmental Planning and Management</i> , 2017, 60, 1809-1824.	2.4	8
85	Instant tsunami bore pressure and force on a cylindrical structure. <i>Journal of Hydro-Environment Research</i> , 2018, 19, 28-40.	1.0	8
86	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.	0.7	8
87	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.	1.9	8
88	Projection of future extreme precipitation: a robust assessment of downscaled daily precipitation. <i>Natural Hazards</i> , 2021, 107, 311-329.	1.6	8
89	Tsunami loads on slab bridges. <i>Coastal Engineering</i> , 2021, 165, 103853.	1.7	8
90	Impact of Ensemble Size on Forecasting Occurrence of Rainfall Using TIGGE Precipitation Forecasts. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 732-738.	0.8	7

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91	Stratification of NWP Forecasts for Medium-Range Ensemble Streamflow Forecasting. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	7
92	PHYSICAL HABITAT ASSESSMENT IN URBAN RIVERS UNDER FUTURE FLOW SCENARIOS. Water and Environment Journal, 2003, 17, 251-256.	1.0	6
93	A comparative study of artificial neural network techniques for river stage forecasting. , 0, , .		6
94	Statistical Properties of Partial Duration Series and Its Implication on Regional Frequency Analysis. Journal of Hydrologic Engineering - ASCE, 2014, 19, 1471-1480.	0.8	6
95	Hybrid Wavelet Neural Network Approach. Studies in Computational Intelligence, 2016, , 127-143.	0.7	6
96	Dimensions of Wastewater System Recovery Following Major Disruptions. Journal of Infrastructure Systems, 2017, 23, .	1.0	6
97	Hydraulic investigation of the impact of retrofitting floating treatment wetlands in retention ponds. Water Science and Technology, 2019, 80, 1476-1484.	1.2	6
98	Regional water security evaluation with risk control model and its application in Jiangsu Province, China. Environmental Science and Pollution Research, 2021, 28, 55700-55715.	2.7	6
99	Sensitivity analysis of Takagi-Sugeno-Kang rainfall-runoff fuzzy models. Hydrology and Earth System Sciences, 2009, 13, 41-55.	1.9	5
100	Assessment of Climate Change Impact on Water Balance of Forested and Farmed Catchments. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	5
101	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.	1.0	5
102	Mitigation Effect of Vertical Walls on a Wharf Model Subjected to Tsunami Bores. Journal of Earthquake and Tsunami, 2017, 11, 1750004.	0.7	5
103	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.	1.2	5
104	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.	1.4	5
105	Hybrid Neural Network Modelling Solutions. , 2004, , 61-79.		5
106	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.	1.9	5
107	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.	2.3	4
108	Impact of Ensemble Size on TIGGE Precipitation Forecasts: An End-User Perspective. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	4

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109	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.	0.7	4
110	Characteristics of the flow field within a developing scour hole at a submerged weir. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2022, 60, 283-294.	0.7	4
111	Estimation of soil hydraulic properties and their uncertainty through the Beerkan infiltration experiment. <i>Hydrological Processes</i> , 2015, 29, 3699-3713.	1.1	3
112	Development of Artificial Intelligence Based Regional Flood Estimation Techniques for Eastern Australia. <i>Studies in Computational Intelligence</i> , 2016, , 307-323.	0.7	3
113	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.	0.8	3
114	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.	0.4	3
115	Experimental Investigation of Tsunami Bore-Induced Forces on Skewed Deck Girder Section Bridges. <i>Journal of Hydraulic Engineering</i> , 2021, 147, .	0.7	3
116	Real-Time river flow forecasting. , 2005, , 181-195.		3
117	Effect of baffles on the hydraulic performance of sediment retention ponds. <i>Water Science and Technology</i> , 2017, 75, 1991-1996.	1.2	2
118	Stream Temperature Modeling and Fiber Optic Temperature Sensing to Characterize Groundwater Discharge. <i>Ground Water</i> , 2020, 58, 661-673.	0.7	2
119	Topics related to rainfall-runoff models. , 2005, , 171-180.		2
120	The effect of inlet width on the performance of sediment retention ponds in thermally induced flows. <i>Journal of Hydrology</i> , 2022, 606, 127377.	2.3	2
121	Neural network modelling of the 20-year flood event for catchments across the UK. , 0, , .		1
122	Evaluating spatial and seasonal determinants of residential water demand across different housing types through data integration. <i>Water International</i> , 2018, 43, 926-942.	0.4	1
123	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.	1.0	1
124	Sustainable water management in the Angkor Temple Complex, Cambodia. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	1
125	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.	1.0	1
126	Neural network river discharge forecasters: an empirical investigation of hidden unit processing functions based on two different catchments. , 0, , .		0

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127	Delineating Flood-Flow Regions for the North Island of New Zealand. Journal of Hydrologic Engineering - ASCE, 2016, 21, 05015024.	0.8	0
128	Resistance Computation in Overbank Flows. , 2009, , 1829-1834.		0
129	Hydrodynamic Uplift Forces on Submerged Bridge Decks during Bedform Migration. Journal of Hydraulic Engineering, 2022, 148, .	0.7	0