Kiyoumars Roushangar

List of Publications by Year
in descending order

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63	963	516215 16	552369 26
papers	citations	h-index	g-index

65	65	65	667
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling energy dissipation over stepped spillways using machine learning approaches. Journal of Hydrology, 2014, 508, 254-265.	2.3	63
2	Evaluation of GA-SVR method for modeling bed load transport in gravel-bed rivers. Journal of Hydrology, 2015, 527, 1142-1152.	2.3	52
3	Evaluation of a Two-Stage SVM and Spatial Statistics Methods for Modeling Monthly River Suspended Sediment Load. Water Resources Management, 2016, 30, 393-407.	1.9	52
4	Modeling river total bed material load discharge using artificial intelligence approaches (based on) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.3	48
5	Exploring the effects of climatic variables on monthly precipitation variation using a continuous wavelet-based multiscale entropy approach. Environmental Research, 2018, 165, 176-192.	3.7	42
6	Determining discharge coefficient of labyrinth and arced labyrinth weirs using support vector machine. Hydrology Research, 2018, 49, 924-938.	1.1	41
7	Forecasting Daily Seepage Discharge of an Earth Dam Using Waveletâ€“Mutual Informationâ€“Gaussian Process Regression Approaches. Geotechnical and Geological Engineering, 2016, 34, 1313-1326.	0.8	36
8	Prediction of sediment transport rates in gravel-bed rivers using Gaussian process regression. Journal of Hydroinformatics, 2020, 22, 249-262.	1.1	33
9	Evaluation of genetic programming-based models for simulating friction factor in alluvial channels. Journal of Hydrology, 2014, 517, 1154-1161.	2.3	32
10	Estimating discharge coefficient of stepped spillways under nappe and skimming flow regime using data driven approaches. Flow Measurement and Instrumentation, 2018, 59, 79-87.	1.0	27
11	Improving capability of conceptual modeling of watershed rainfallâ€“runoff using hybrid wavelet-extreme learning machine approach. Journal of Hydroinformatics, 2018, 20, 69-87.	1.1	25
12	A multiscale time-space approach to analyze and categorize the precipitation fluctuation based on the wavelet transform and information theory concept. Hydrology Research, 2018, 49, 724-743.	1.1	24
13	Scenario-based prediction of short-term river stageâ€“discharge process using wavelet-EEMD-based relevance vector machine. Journal of Hydroinformatics, 2019, 21, 56-76.	1.1	22
14	Entropy-based analysis and regionalization of annual precipitation variation in Iran during 1960â€“2010 using ensemble empirical mode decomposition. Journal of Hydroinformatics, 2018, 20, 468-485.	1.1	21
15	Predicting characteristics of dune bedforms using PSO-LSSVM. International Journal of Sediment Research, 2017, 32, 515-526.	1.8	20
16	Estimation of bedload discharge in sewer pipes with different boundary conditions using an evolutionary algorithm. International Journal of Sediment Research, 2017, 32, 564-574.	1.8	19
17	Predicting trapezoidal and rectangular side weirs discharge coefficient using machine learning methods. ISH Journal of Hydraulic Engineering, 2016, 22, 254-261.	1.1	18
18	Modeling discharge coefficient of normal and inverted orientation labyrinth weirs using machine learning techniques. ISH Journal of Hydraulic Engineering, 2017, 23, 331-340.	1.1	18

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19	Prediction of non-cohesive sediment transport in circular channels in deposition and limit of deposition states using SVM. Water Science and Technology: Water Supply, 2017, 17, 537-551.	1.0	18
20	Neural networks- and neuro-fuzzy-based determination of influential parameters on energy dissipation over stepped spillways under nappe flow regime. ISH Journal of Hydraulic Engineering, 2017, 23, 57-62.	1.1	17
21	Evaluation of the impact of channel geometry and rough elements arrangement in hydraulic jump energy dissipation via SVM. Journal of Hydroinformatics, 2019, 21, 92-103.	1.1	17
22	Hydraulic Performance of PK Weirs Based on Experimental Study and Kernel-based Modeling. Water Resources Management, 2021, 35, 3571-3592.	1.9	17
23	Identifying complexity of annual precipitation variation in Iran during 1960â€“2010 based on information theory and discrete wavelet transform. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1205-1223.	1.9	16
24	Linear and non-linear approaches to predict the Darcy-Weisbach friction factor of overland flow using the extreme learning machine approach. International Journal of Sediment Research, 2018, 33, 415-432.	1.8	14
25	A multiscale spatio-temporal framework to regionalize annual precipitation using k-means and self-organizing map technique. Journal of Mountain Science, 2018, 15, 1481-1497.	0.8	13
26	Modeling total resistance and form resistance of movable bed channels via experimental data and a kernel-based approach. Journal of Hydroinformatics, 2020, 22, 528-540.	1.1	13
27	Determination of influential parameters for prediction of total sediment loads in mountain rivers using kernel-based approaches. Journal of Mountain Science, 2020, 17, 480-491.	0.8	13
28	Modeling scour depth downstream of grade-control structures using data driven and empirical approaches. Journal of Hydroinformatics, 2016, 18, 946-960.	1.1	12
29	Modeling open channel flow resistance with dune bedform via heuristic and nonlinear approaches. Journal of Hydroinformatics, 2018, 20, 356-375.	1.1	12
30	Evaluation of the parameters affecting the roughness coefficient of sewer pipes with rigid and loose boundary conditions via kernel based approaches. International Journal of Sediment Research, 2020, 35, 171-179.	1.8	12
31	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
32	Explicit prediction of expanding channels hydraulic jump characteristics using gene expression programming approach. Hydrology Research, 2018, 49, 815-830.	1.1	11
33	Application of Z-numbers to teleconnection modeling between monthly precipitation and large scale sea surface temperature. Hydrology Research, 2022, 53, 1-13.	1.1	11
34	Estimation of hydraulic jump characteristics of channels with sudden diverging side walls via SVM. Water Science and Technology, 2017, 76, 1614-1628.	1.2	10
35	Towards design of compound channels with minimum overall cost through grey wolf optimization algorithm. Journal of Hydroinformatics, 2021, 23, 985-999.	1.1	10
36	Prediction Characteristics of Free and Submerged Hydraulic Jumps on Horizontal and Sloping Beds using SVM Method. KSCE Journal of Civil Engineering, 2019, 23, 4696-4709.	0.9	9

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37	Analysis of spatiotemporal variations of drought and its correlations with remote sensing-based indices via wavelet analysis and clustering methods. Hydrology Research, 2022, 53, 175-192.	1.1	9
38	Exploring the multiscale changeability of precipitation using the entropy concept and self-organizing maps. Journal of Water and Climate Change, 2020, 11, 655-676.	1.2	8
39	Particle swarm optimization-based LS-SVM for hydraulic performance of stepped spillway. ISH Journal of Hydraulic Engineering, 2020, 26, 273-282.	1.1	8
40	The potential of ensemble WT-EEMD-kernel extreme learning machine techniques for prediction suspended sediment concentration in successive points of a river. Journal of Hydroinformatics, 2021, 23, 655-670.	1.1	8
41	Spatiotemporal Analysis of Droughts Over Different Climate Regions Using Hybrid Clustering Method. Water Resources Management, 2022, 36, 473-488.	1.9	8
42	The potential of integrated hybrid pre-post-processing techniques for short- to long-term drought forecasting. Journal of Hydroinformatics, 2021, 23, 117-135.	1.1	8
43	Studying of flow model and bed load transport in a coarse bed river: case study â€“ Aland River, Iran. Journal of Hydroinformatics, 2011, 13, 850-866.	1.1	7
44	Modeling local pier scour with bed effect implications: heuristic vs. empirical strategies. ISH Journal of Hydraulic Engineering, 2017, 23, 13-22.	1.1	6
45	Investigating effect of socio-economic and climatic variables in urban water consumption prediction via Gaussian process regression approach. Water Science and Technology: Water Supply, 2018, 18, 84-93.	1.0	6
46	Prediction of form roughness coefficient in alluvial channels using efficient hybrid approaches. Soft Computing, 2020, 24, 18531-18543.	2.1	6
47	Suspended sediment load prediction in consecutive stations of river based on ensemble pre-post-processing kernel based approaches. Water Science and Technology: Water Supply, 2021, 21, 3370-3386.	1.0	6
48	Uncertainty Assessment of the Integrated Hybrid Data Processing Techniques for Short to Long Term Drought Forecasting in Different Climate Regions. Water Resources Management, 2022, 36, 273-296.	1.9	6
49	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
50	A cost model with several hydraulic constraints for optimizing in practice a trapezoidal cross section. Journal of Hydroinformatics, 2017, 19, 456-468.	1.1	5
51	Using multi-temporal analysis to classify monthly precipitation based on maximal overlap discrete wavelet transform. Journal of Hydroinformatics, 2019, 21, 541-557.	1.1	5
52	Influence of surface roughness of dune bedforms on flow and turbulence characteristics. International Journal of Sediment Research, 2020, 35, 666-678.	1.8	5
53	Insights into the prediction capability of roughness coefficient in current ripple bedforms under varied hydraulic conditions. Journal of Hydroinformatics, 2021, 23, 1182-1196.	1.1	5
54	Local vs. cross station simulation of suspended sediment load in successive hydrometric stations: heuristic modeling approach. Journal of Mountain Science, 2016, 13, 1773-1788.	0.8	4

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55	Influential parameters on submerged discharge capacity of converging ogee spillways based on experimental study and machine learning-based modeling. Journal of Hydroinformatics, 2019, 21, 474-492.	1.1	4
56	Investigating impact of converging training walls of the ogee spillways on hydraulic performance. Paddy and Water Environment, 2020, 18, 355-366.	1.0	4
57	Experimental study and artificial intelligence-based modeling of discharge coefficient of converging ogee spillways. ISH Journal of Hydraulic Engineering, 2019, , 1-8.	1.1	3
58	Drought Vulnerability Assessment Based on a Multi-criteria Integrated Approach and Application of Satellite-based Datasets. Water Resources Management, 0, , .	1.9	2
59	Prediction of overland flow resistance and its components based on flow characteristics using support vector machine. Water Science and Technology: Water Supply, 2018, 18, 1234-1251.	1.0	1
60	Experimental investigation of bentonite impact on self-healing of clay soils. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	1
61	Uncertainty analyses regarding evaluating effective parameters on the hydraulic jump characteristics of different shape channels. Water Science and Technology: Water Supply, 0, , .	1.0	1
62	The potential of integrated hybrid data processing techniques for successive-station streamflow prediction. Soft Computing, 2022, 26, 5563-5576.	2.1	1
63	The effect of triangular prismatic elements on the hydraulic performance of stepped spillways in the skimming flow regime: an experimental study and numerical modeling. Journal of Hydroinformatics, 2022, 24, 243-258.	1.1	0