

Parveen Sihag

List of Publications by Year in descending order

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80
papers

2,003
citations

236833

25
h-index

315616

38
g-index

82
all docs

82
docs citations

82
times ranked

1056
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of impact of water quality on infiltration rate of soil by random forest regression. Modeling Earth Systems and Environment, 2017, 3, 999-1004.	1.9	138
2	Modelling of impact of water quality on recharging rate of storm water filter system using various kernel function based regression. Modeling Earth Systems and Environment, 2018, 4, 61-68.	1.9	81
3	Modelling of infiltration of sandy soil using gaussian process regression. Modeling Earth Systems and Environment, 2017, 3, 1091-1100.	1.9	76
4	Prediction of unsaturated hydraulic conductivity using adaptive neuro- fuzzy inference system (ANFIS). ISH Journal of Hydraulic Engineering, 2019, 25, 132-142.	1.1	74
5	Estimation and inter-comparison of infiltration models. Water Science, 2017, 31, 34-43.	0.5	73
6	ANN, M5P-tree and nonlinear regression approaches with statistical evaluations to predict the compressive strength of cement-based mortar modified with fly ash. Journal of Materials Research and Technology, 2020, 9, 12416-12427.	2.6	63
7	Comparative Evaluation of Infiltration Models. KSCE Journal of Civil Engineering, 2018, 22, 4173-4184.	0.9	55
8	Soft computing techniques: Systematic multiscale models to predict the compressive strength of HVFA concrete based on mix proportions and curing times. Journal of Building Engineering, 2021, 33, 101851.	1.6	52
9	Comparing different methods for statistical modeling of particulate matter in Tehran, Iran. Air Quality, Atmosphere and Health, 2018, 11, 1155-1165.	1.5	51
10	Random forest, M5P and regression analysis to estimate the field unsaturated hydraulic conductivity. Applied Water Science, 2019, 9, 1.	2.8	49
11	Modeling the infiltration process with soft computing techniques. ISH Journal of Hydraulic Engineering, 2020, 26, 138-152.	1.1	49
12	Prediction of unsaturated hydraulic conductivity using fuzzy logic and artificial neural network. Modeling Earth Systems and Environment, 2018, 4, 189-198.	1.9	45
13	Support vector regression-based modeling of cumulative infiltration of sandy soil. ISH Journal of Hydraulic Engineering, 0, , 1-7.	1.1	43
14	Modeling unsaturated hydraulic conductivity by hybrid soft computing techniques. Soft Computing, 2019, 23, 12897-12910.	2.1	39
15	Predicting Bond Strength of FRP Bars in Concrete Using Soft Computing Techniques. Arabian Journal for Science and Engineering, 2021, 46, 4951-4969.	1.7	38
16	On the Indirect Estimation of Wind Wave Heights over the Southern Coasts of Caspian Sea: A Comparative Analysis. Water (Switzerland), 2022, 14, 843.	1.2	36
17	Estimating the Strength of Stabilized Dispersive Soil with Cement Clinker and Fly Ash. Geotechnical and Geological Engineering, 2019, 37, 2915-2926.	0.8	35
18	Estimation of models for cumulative infiltration of soil using machine learning methods. ISH Journal of Hydraulic Engineering, 2021, 27, 162-169.	1.1	34

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19	Application of SVM, ANN, GRNN, RF, GP and RT models for predicting discharge coefficients of oblique sluice gates using experimental data. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 232-248.	1.0	34
20	Comparison of infiltration models in NIT Kurukshetra campus. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	32
21	Modelling of infiltration using artificial intelligence techniques in semi-arid Iran. <i>Hydrological Sciences Journal</i> , 2019, 64, 1647-1658.	1.2	32
22	Systematic multiscale models to predict the effect of high-volume fly ash on the maximum compression stress of cement-based mortar at various water/cement ratios and curing times. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 171, 108819.	2.5	32
23	Time-Series Prediction of Streamflows of Malaysian Rivers Using Data-Driven Techniques. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2020, 146, .	0.6	30
24	Prediction of daily water level using new hybridized GS-GMDH and ANFIS-FCM models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1343-1361.	1.5	30
25	Modelling daily reference evapotranspiration based on stacking hybridization of ANN with meta-heuristic algorithms under diverse agro-climatic conditions. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 3311-3334.	1.9	30
26	Model-based soil temperature estimation using climatic parameters: the case of Azerbaijan Province, Iran. , 2020, 4, 203-215.		29
27	Performance evaluation of fuzzy-logic and BP-ANN methods for WEDM of aeronautics super alloy. <i>MethodsX</i> , 2018, 5, 890-908.	0.7	28
28	Assessment of the various soft computing techniques to predict sodium absorption ratio (SAR). <i>ISH Journal of Hydraulic Engineering</i> , 2021, 27, 124-135.	1.1	27
29	Assessment of Infiltration Rate of Soil Using Empirical and Machine Learning-Based Models. <i>Irrigation and Drainage</i> , 2019, 68, 588-601.	0.8	27
30	ANN, M5P-tree model, and nonlinear regression approaches to predict the compression strength of cement-based mortar modified by quicklime at various water/cement ratios and curing times. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	26
31	Comparative analysis of artificial intelligence techniques for the prediction of infiltration process. , 2021, 5, 109-118.		26
32	Strength and durability of flyash, GGBS and cement clinker stabilized dispersive soil. <i>Cold Regions Science and Technology</i> , 2021, 191, 103358.	1.6	25
33	A benchmark comparison and optimization of Gaussian process regression, support vector machines, and M5P tree model in approximation of the lateral confinement coefficient for CFRP-wrapped rectangular/square RC columns. <i>Engineering Structures</i> , 2021, 246, 113106.	2.6	25
34	Estimation of permeability of soil using easy measured soil parameters: assessing the artificial intelligence-based models. <i>ISH Journal of Hydraulic Engineering</i> , 2021, 27, 38-48.	1.1	23
35	Modelling infiltration rates in permeable stormwater channels using soft computing techniques*. <i>Irrigation and Drainage</i> , 2021, 70, 117-130.	0.8	22
36	Assessment of Soft Computing-Based Techniques for the Prediction of Marshall Stability of Asphalt Concrete Reinforced with Glass Fiber. <i>International Journal of Pavement Research and Technology</i> , 2022, 15, 1366-1385.	1.3	22

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37	Prediction of oxygen transfer at modified Parshall flumes using regression models. <i>ISH Journal of Hydraulic Engineering</i> , 2020, 26, 209-220.	1.1	21
38	Approximation of the discharge coefficient of differential pressure flowmeters using different soft computing strategies. <i>Flow Measurement and Instrumentation</i> , 2021, 79, 101913.	1.0	21
39	Interpreting the experimental results of compressive strength of hand-mixed cement-grouted sands using various mathematical approaches. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	1.9	21
40	Prediction of cumulative infiltration of sandy soil using random forest approach. <i>Journal of Applied Water Engineering and Research</i> , 2019, 7, 118-142.	1.0	19
41	Modelling of the impact of water quality on the infiltration rate of the soil. <i>Applied Water Science</i> , 2019, 9, 1.	2.8	18
42	Exploring the application of soft computing techniques for spatial evaluation of groundwater quality variables. <i>Journal of Cleaner Production</i> , 2020, 276, 124206.	4.6	18
43	Estimation of trapping efficiency of a vortex tube silt ejector. <i>International Journal of River Basin Management</i> , 2021, 19, 261-269.	1.5	16
44	Estimation of UCS-FT of Dispersive Soil Stabilized with Fly Ash, Cement Clinker and GGBS by Artificial Intelligence. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 901-912.	1.0	16
45	Soft computing technique-based prediction of water quality index. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 4015-4029.	1.0	16
46	Prediction of aeration efficiency of Parshall and Modified Venturi flumes: application of soft computing versus regression models. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 4068-4085.	1.0	16
47	Assessment of Contamination Management Caused by Copper and Zinc Cations Leaching and Their Impact on the Hydraulic Properties of a Sandy and a Loamy Clay Soil. <i>Land</i> , 2022, 11, 290.	1.2	16
48	Experimental study and modelling discharge coefficient of trapezoidal and rectangular piano key weirs. <i>Applied Water Science</i> , 2020, 10, 1.	2.8	15
49	Estimation of the recharging rate of groundwater using random forest technique. <i>Applied Water Science</i> , 2020, 10, 1.	2.8	14
50	Assessment of infiltration models developed using soft computing techniques. , 2021, 5, 241-251.		14
51	Machine Learning-Based Erosion Behavior of Silicon Carbide Reinforced Polymer Composites. <i>Silicon</i> , 2021, 13, 1113-1119.	1.8	14
52	Estimation of infiltration rate using data-driven models. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	14
53	Assessment of Soft Computing Techniques for the Prediction of Compressive Strength of Bacterial Concrete. <i>Materials</i> , 2022, 15, 489.	1.3	14
54	Prediction of trapping efficiency of vortex tube ejector. <i>ISH Journal of Hydraulic Engineering</i> , 2018, , 1-9.	1.1	13

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55	Predicting the infiltration characteristics for semi-arid regions using regression trees. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 2583-2595.	1.0	12
56	Evaluating Parshall flume aeration with experimental observations and advance soft computing techniques. <i>Neural Computing and Applications</i> , 2021, 33, 17257-17271.	3.2	12
57	Evaluation of the impact of fly ash on infiltration characteristics using different soft computing techniques. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	11
58	Effect of industrial by-products on the strength of stabilized dispersive soil. <i>International Journal of Geotechnical Engineering</i> , 2021, 15, 405-417.	1.1	11
59	Evaluation of tree regression analysis for estimation of river basin discharge. <i>Modeling Earth Systems and Environment</i> , 2021, 7, 2531-2543.	1.9	10
60	Prediction of the compressive strength of concrete using various predictive modeling techniques. <i>Neural Computing and Applications</i> , 2022, 34, 6535-6545.	3.2	10
61	Predictive modeling of PM _{2.5} using soft computing techniques: case study of Faridabad, Haryana, India. <i>Air Quality, Atmosphere and Health</i> , 2019, 12, 1511-1520.	1.5	9
62	Predicting daily soil temperature at multiple depths using hybrid machine learning models for a semi-arid region in Punjab, India. <i>Environmental Science and Pollution Research</i> , 2022, 29, 71270-71289.	2.7	9
63	Estimation of Tunnel Desilter Sediment Removal Efficiency by ANFIS. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020, 44, 959-974.	1.0	8
64	Energy Loss in Skimming Flow over Cascade Spillways: Comparison of Artificial Intelligence-Based and Regression Methods. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6903.	1.3	8
65	Investigating the Effect of Horizontal Screen on Hydraulic Parameters of Vertical Drop. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 1909-1917.	1.0	8
66	Machine learning model development for predicting aeration efficiency through Parshall flume. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 889-901.	1.5	7
67	Modeling the flow rate of dry part in the wet gas mixture using decision tree/kernel/non-parametric regression-based soft-computing techniques. <i>Flow Measurement and Instrumentation</i> , 2022, 86, 102195.	1.0	7
68	Prediction of Homogeneous Earthen Slope Safety Factors Using the Forest and Tree Based Modelling. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 2849-2862.	0.8	6
69	Suspended sediment load prediction in consecutive stations of river based on ensemble pre-post-processing kernel based approaches. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 3370-3386.	1.0	6
70	Soft Computing Techniques for Appraisal of Potentially Toxic Elements from Jalandhar (Punjab), India. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8362.	1.3	6
71	Experimental investigation and prediction of strength development of GGBFS-, LFS- and SCBA-based green concrete using soft computing techniques. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	6
72	Prediction of Manning's coefficient of roughness for high-gradient streams using M5P. <i>Water Science and Technology: Water Supply</i> , 2022, 22, 2707-2720.	1.0	6

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73	Performance evaluation of tunnel type sediment excluder efficiency by machine learning. ISH Journal of Hydraulic Engineering, 2022, 28, 27-39.	1.1	5
74	Predicting relative energy dissipation for vertical drops equipped with a horizontal screen using soft computing techniques. Water Science and Technology: Water Supply, 2021, 21, 4493-4513.	1.0	5
75	Prediction of sulphur dioxide (SO ₂) in air by using bagging, ANN and M5P: a case study, Gaya and Tirupati, India. Arabian Journal of Geosciences, 2022, 15, .	0.6	5
76	An expert system for predicting the infiltration characteristics. Water Science and Technology: Water Supply, 2022, 22, 2847-2862.	1.0	4
77	Evaluation and Estimation of Compressive Strength of Concrete Using Hybrid Modeling Techniques. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 3131-3145.	1.0	1
78	Legislative and criminal law aspects of water protection and prevention of pharmaceuticals accumulation in nature. , 2021, , 113-144.		0
79	Treatment schemes “conventional and dedicated for PhACs treatment. , 2021, , 181-220.		0
80	Discussion of “Evaluating the Performance of Self-Organizing Maps to Estimate Well-Watered Canopy Temperature for Calculating Crop Water Stress Index in Indian Mustard (<i>Brassica juncea</i>)” by Navsal Kumar, Vijay Shankar, Rabee Rustum, and Adebayo J. Adeloye. Journal of Irrigation and Drainage Engineering - ASCE, 2022, 148, .	0.6	0