Gokmen Tayfur

List of Publications by Year
in descending order

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89 papers	2,653 citations	172207 29 h-index	205818 48 g-index
89 all docs	89 docs citations	89 times ranked	2346 citing authors

#	Article	IF	Citations
1	Fuzzy logic model for the prediction of cement compressive strength. Cement and Concrete Research, 2004, 34, 1429-1433.	4.6	176
2	Artificial neural networks for sheet sediment transport. Hydrological Sciences Journal, 2002, 47, 879-892.	1.2	149
3	The use of GAâ€"ANNs in the modelling of compressive strength of cement mortar. Cement and Concrete Research, 2003, 33, 973-979.	4.6	133
4	ANN and Fuzzy Logic Models for Simulating Event-Based Rainfall-Runoff. Journal of Hydraulic Engineering, 2006, 132, 1321-1330.	0.7	114
5	Applicability of St. Venant Equations for Twoâ€Dimensional Overland Flows over Rough Infiltrating Surfaces. Journal of Hydraulic Engineering, 1993, 119, 51-63.	0.7	94
6	Predicting Longitudinal Dispersion Coefficient in Natural Streams by Artificial Neural Network. Journal of Hydraulic Engineering, 2005, 131, 991-1000.	0.7	88
7	Physical and mathematical modelling of anaerobic digestion of organic wastes. Water Research, 1997, 31, 534-540.	5.3	87
8	Groundwater contamination and its effect on health in Turkey. Environmental Monitoring and Assessment, 2011, 183, 77-94.	1.3	82
9	Fuzzy logic algorithm for runoff-induced sediment transport from bare soil surfaces. Advances in Water Resources, 2003, 26, 1249-1256.	1.7	81
10	Case Study: Finite Element Method and Artificial Neural Network Models for Flow through Jeziorsko Earthfill Dam in Poland. Journal of Hydraulic Engineering, 2005, 131, 431-440.	0.7	77
11	Artificial neural networks for estimating daily total suspended sediment in natural streams. Hydrology Research, 2006, 37, 69-79.	1.1	74
12	Two-dimensional numerical modeling of flood wave propagation in an urban area due to Ãœrkmez dam-break, Ä°zmir, Turkey. Natural Hazards, 2016, 81, 2103-2119.	1.6	61
13	Modern Optimization Methods in Water Resources Planning, Engineering and Management. Water Resources Management, 2017, 31, 3205-3233.	1.9	58
14	Artificial neural network (ANN) prediction of compressive strength of VARTM processed polymer composites. Computational Materials Science, 2005, 34, 99-105.	1.4	54
15	Experimental and Numerical Investigation of Bed-Load Transport under Unsteady Flows. Journal of Hydraulic Engineering, 2011, 137, 1276-1282.	0.7	52
16	Strength Prediction of High-Strength Concrete by Fuzzy Logic and Artificial Neural Networks. Journal of Materials in Civil Engineering, 2014, 26, .	1.3	49
17	Predicting and forecasting flow discharge at sites receiving significant lateral inflow. Hydrological Processes, 2007, 21, 1848-1859.	1.1	45
18	Coupling soil moisture and precipitation observations for predicting hourly runoff at small catchment scale. Journal of Hydrology, 2014, 510, 363-371.	2.3	43

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19	Predicting flood plain inundation for natural channels having no upstream gauged stations. Journal of Water and Climate Change, 2019, 10, 360-372.	1.2	43
20	Supervised Intelligent Committee Machine Method for Hydraulic Conductivity Estimation. Water Resources Management, 2014, 28, 1173-1184.	1.9	42
21	Analysis and Assessment of Hydrochemical Characteristics of Maragheh-Bonab Plain Aquifer, Northwest of Iran. Water Resources Management, 2017, 31, 765-780.	1.9	42
22	Flood Hydrograph Prediction Using Machine Learning Methods. Water (Switzerland), 2018, 10, 968.	1.2	41
23	Predicting Suspended Sediment Loads and Missing Data for Gediz River, Turkey. Journal of Hydrologic Engineering - ASCE, 2009, 14, 954-965.	0.8	40
24	Evaluation and Assessment of Meteorological Drought by Different Methods in Trarza Region, Mauritania. Water Resources Management, 2017, 31, 825-845.	1.9	39
25	Applicability of Sediment Transport Capacity Models for Nonsteady State Erosion from Steep Slopes. Journal of Hydrologic Engineering - ASCE, 2002, 7, 252-259.	0.8	38
26	Numerical Simulation of Flood Wave Propagation in Two-Dimensions in Densely Populated Urban Areas due to Dam Break. Water Resources Management, 2016, 30, 5699-5721.	1.9	38
27	Spatially Averaged Conservation Equations for Interacting Rillâ€Interrill Area Overland Flows. Journal of Hydraulic Engineering, 1994, 120, 1426-1448.	0.7	35
28	Modeling Two-Dimensional Erosion Process over Infiltrating Surfaces. Journal of Hydrologic Engineering - ASCE, 2001, 6, 259-262.	0.8	35
29	Groundwater quality and hydrogeochemical properties of TorbalÄ± Region, Izmir, Turkey. Environmental Monitoring and Assessment, 2008, 146, 157-169.	1.3	35
30	Principle Component Analysis in Conjuction with Data Driven Methods for Sediment Load Prediction. Water Resources Management, 2013, 27, 2541-2554.	1.9	30
31	Areally-averagei overland flow equations at hillslope scale. Hydrological Sciences Journal, 1998, 43, 361-378.	1.2	28
32	Fuzzy, ANN, and regression models to predict longitudinal dispersion coefficient in natural streams. Hydrology Research, 2006, 37, 143-164.	1.1	28
33	A simplified model for two-dimensional overland flows. Advances in Water Resources, 1992, 15, 133-141.	1.7	27
34	Prediction of suspended sediment concentration from water quality variables. Neural Computing and Applications, 2014, 24, 1079-1087.	3.2	26
35	Reverse Flood Routing in Natural Channels using Genetic Algorithm. Water Resources Management, 2015, 29, 4241-4267.	1.9	25
36	Trend analysis of temperature and precipitation in Trarza region of Mauritania. Journal of Water and Climate Change, 2019, 10, 484-493.	1.2	24

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37	Predicting hourly-based flow discharge hydrographs from level data using genetic algorithms. Journal of Hydrology, 2008, 352, 77-93.	2.3	23
38	Fuzzy Logic for Rainfall-Runoff Modelling Considering Soil Moisture. Water Resources Management, 2015, 29, 3519-3533.	1.9	23
39	Describing the Karst Evolution by the Exploitation of Hydrologic Time-Series Data. Water Resources Management, 2015, 29, 3131-3147.	1.9	23
40	Evaluation of a physically based quasi-linear and a conceptually based nonlinear Muskingum methods. Journal of Hydrology, 2017, 546, 437-449.	2.3	23
41	Data pre-post processing methods in AI-based modeling of seepage through earthen dams. Measurement: Journal of the International Measurement Confederation, 2019, 147, 106820.	2.5	23
42	Modelling sediment transport from bare rilled hillslopes by areally averaged transport equations. Catena, 2007, 70, 25-38.	2.2	22
43	Reverse Flood Routing in Rivers Using Linear and Nonlinear Muskingum Models. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	0.8	22
44	GA-optimized model predicts dispersion coefficient in natural channels. Hydrology Research, 2009, 40, 65-78.	1.1	20
45	Predicting Mean and Bankfull Discharge from Channel Cross-Sectional Area by Expert and Regression Methods. Water Resources Management, 2011, 25, 1253-1267.	1.9	20
46	Spatial and temporal of variation of meteorological drought and precipitation trend analysis over whole Mauritania. Journal of African Earth Sciences, 2020, 163, 103761.	0.9	20
47	Experimental investigation of screens as energy dissipaters in submerged hydraulic jump. Turkish Journal of Engineering and Environmental Sciences, 2014, 38, 126-138.	0.1	17
48	Forecasting Ambient Air SO2Concentrations Using Artificial Neural Networks. Energy Sources, Part B: Economics, Planning and Policy, 2006, 1, 127-136.	1.8	16
49	Genetic Algorithm-Based Discharge Estimation at Sites Receiving Lateral Inflows. Journal of Hydrologic Engineering - ASCE, 2009, 14, 463-474.	0.8	16
50	Rainfall-Runoff Model Considering Microtopography Simulated in a Laboratory Erosion Flume. Water Resources Management, 2016, 30, 5609-5624.	1.9	16
51	Empirical Sediment Transport Models Based on Indoor Rainfall Simulator and Erosion Flume Experimental Data. Land Degradation and Development, 2017, 28, 1320-1328.	1.8	16
52	Groundwater recharge estimation using HYDRUS 1D model in AlaÅŸehir sub-basin of Gediz Basin in Turkey. Environmental Monitoring and Assessment, 2019, 191, 610.	1.3	16
53	Discrepancy precipitation index for monitoring meteorological drought. Journal of Hydrology, 2021, 597, 126174.	2.3	16
54	Modeling Deficit Irrigation in Alfalfa Production. Journal of Irrigation and Drainage Engineering - ASCE, 1995, 121, 442-451.	0.6	13

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55	Experimental and artificial neural network modeling study on soot formation in premixed hydrocarbon flamesâ˜†. Fuel, 2003, 82, 1477-1490.	3.4	13
56	Kinematic wave model of bed profiles in alluvial channels. Water Resources Research, 2006, 42, .	1.7	13
57	Two-dimensional finite elements model for selenium transport in saturated and unsaturated zones. Environmental Monitoring and Assessment, 2010, 169, 509-518.	1.3	13
58	Numerical Model for Sediment Transport over Nonplanar, Nonhomogeneous Surfaces. Journal of Hydrologic Engineering - ASCE, 2004, 9, 35-41.	0.8	12
59	Kinematic wave model for transient bed profiles in alluvial channels under nonequilibrium conditions. Water Resources Research, 2007, 43, .	1.7	11
60	Drought Assessment in the Aegean Region of Turkey. Pure and Applied Geophysics, 2022, 179, 3035-3053.	0.8	11
61	Soil erosion model tested on experimental data of a laboratory flume with a pre-existing rill. Journal of Hydrology, 2020, 581, 124391.	2.3	9
62	Investigating a Suitable Empirical Model and Performing Regional Analysis for the Suspended Sediment Load Prediction in Major Rivers of the Aegean Region, Turkey. Water Resources Management, 2017, 31, 739-764.	1.9	8
63	Estimation groundwater total recharge and discharge using GIS-integrated water level fluctuation method: a case study from the AlaÅŸehir alluvial aquifer Western Anatolia, Turkey. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	8
64	Transport capacity models for unsteady and non-equilibrium sediment transport in alluvial channels. Computers and Electronics in Agriculture, 2012, 86, 26-33.	3.7	7
65	Empirical, Numerical, and Soft Modelling Approaches for Non-Cohesive Sediment Transport. Environmental Processes, 2021, 8, 37-58.	1.7	7
66	Identification of groundwater potential zones in Kabul River Basin, Afghanistan. Groundwater for Sustainable Development, 2021, 15, 100666.	2.3	7
67	Baraj YÄ±kÄ±lmasÄ± SonrasÄ± Ä°ki Boyutlu TaÅŸkÄ±n YayÄ±lÄ±mÄ±nÄ±n YerleÅŸim BÃ¶lgeleri Ä°Ã§in Modellenmesi. Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, 0, , .	0.5	7
68	Prediction of rainfall runoffâ€induced sediment load from bare land surfaces by generalized regression neural network and empirical model. Water and Environment Journal, 2020, 34, 66-76.	1.0	6
69	Kinematic Wave Theory for Transient Bed Sediment Waves in Alluvial Rivers. Journal of Hydrologic Engineering - ASCE, 2008, 13, 297-304.	0.8	5
70	Use of principal component analysis in conjunction with soft computing methods for investigating total sediment load transferability from laboratory to field scale. Hydrology Research, 2014, 45, 540-550.	1.1	5
71	Editorial: Water Resources Management in a Changing World: Challenges and Opportunities. Water Resources Management, 2016, 30, 5553-5557.	1.9	5
72	Meteorological Drought Analysis for Helmand River Basin, Afghanistan. Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, 2022, 33, 12223-12242.	0.5	5

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73	Two-dimensional finite elements model for boron management in agroforestry sites. Environmental Monitoring and Assessment, 2010, 160, 501-512.	1.3	4
74	Trait-based heterogeneous populations plus (TbHP+) genetic algorithm. Mathematical and Computer Modelling, 2009, 49, 709-720.	2.0	3
75	Simulating Transient Sediment Waves in Aggraded Alluvial Channels by Double-Decomposition Method. Journal of Hydrologic Engineering - ASCE, 2011, 16, 362-370.	0.8	3
76	Developing cation exchange capacity and soil index properties relationships using a neuro-fuzzy approach. Bulletin of Engineering Geology and the Environment, 2014, 73, 1141-1149.	1.6	3
77	Passenger Flows Estimation of Light Rail Transit (LRT) System in Izmir, Turkey Using Multiple Regression and ANN Methods. Promet - Traffic - Traffico, 2012, 24, 1-14.	0.3	3
78	Developing Predictive Equations for Water Capturing Performance and Sediment Release Efficiency for Coanda Intakes Using Artificial Intelligence Methods. Water (Switzerland), 2022, 14, 972.	1.2	2
79	Modeling pollutant transport in overland flow over non-planar and non-homogenous infiltrating surfaces. Journal of Zhejiang University: Science A, 2013, 14, 110-119.	1.3	1
80	Reply to comment on â€œEvaluation of a physically based quasi-linear and a conceptually based nonlinear Muskingum methodsâ€• by Reza Barati. Journal of Hydrology, 2017, 550, 740-742.	2.3	1
81	Generalized Regression Neural Network and Empirical Models to Predict the Strength of Gypsum Pastes Containing Fly Ash and Blast Furnace Slag. Arabian Journal for Science and Engineering, 2020, 45, 3671-3681.	1.7	1
82	SOFT COMPUTING AND REGRESSION MODELLING APPROACHES FOR LINK-CAPACITY FUNCTIONS. Neural Network World, 2016, 26, 129-140.	0.5	1
83	Kinematic reverse flood routing in natural rivers using stage data. Applied Water Science, 2022, 12, .	2.8	1
84	Finite volume method solution of pollutant transport in catchment sheet flow. Hydrology Research, 2014, 45, 182-189.	1.1	0
85	Two dimensional bed deformation model in turbulent streams. Australian Journal of Civil Engineering, 2019, 17, 73-84.	0.6	0
86	Homojen Dolgu Baraj YÄ±kÄ±lmasÄ± Ãœzerine Deneysel Bir Ã‡alÄ±ÅŸma. , 0, , .		0
87	Modeling Water Stress Effect on Soil Salinity. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 191-201.	0.1	0
88	SIGNIFICANCE OF RENT ATTRIBUTES IN PREDICTION OF EARTHQUAKE DAMAGE IN ADAPAZARI, TURKEY. Neural Network World, 2014, 24, 637-653.	0.5	0
89	Closure to â€œReverse Flood Routing in Rivers Using Linear and Nonlinear Muskingum Modelsâ€• by Meisam Badfar, Reza Barati, Emrah Dogan, and Gokmen Tayfur. Journal of Hydrologic Engineering - ASCE, 2022, 27, .	0.8	0