AbdÃ¼sselam Altunkaynak

List of Publications by Year
in descending order

93 papers	1,967 citations	257450 24 h-index	289244 40 g-index
94 all docs	94 docs citations	94 times ranked	1622 citing authors

#	Article	IF	Citations
1	Forecasting Surface Water Level Fluctuations of Lake Van by Artificial Neural Networks. Water Resources Management, 2007, 21, 399-408.	3.9	145
2	Water Consumption Prediction of Istanbul City by Using Fuzzy Logic Approach. Water Resources Management, 2005, 19, 641-654.	3.9	109
3	Investigation Anthropogenic Impacts and Climate Factors on Drying up of Urmia Lake using Water Budget and Drought Analysis. Water Resources Management, 2018, 32, 325-337.	3.9	90
4	Comparative Case Study of Rainfall-Runoff Modeling between SWMM and Fuzzy Logic Approach. Journal of Hydrologic Engineering - ASCE, 2012, 17, 283-291.	1.9	69
5	Comparison of numerical and experimental analyses for optimizing the geometry of OWC systems. Ocean Engineering, 2017, 130, 10-24.	4.3	69
6	A comparative fuzzy logic approach to runoff coefficient and runoff estimation. Hydrological Processes, 2006, 20, 1993-2009.	2.6	68
7	Fuzzy logic modeling of the dissolved oxygen fluctuations in Golden Horn. Ecological Modelling, 2005, 189, 436-446.	2.5	64
8	Sediment load prediction by genetic algorithms. Advances in Engineering Software, 2009, 40, 928-934.	3.8	61
9	Theoretical derivation of wind power probability distribution function and applications. Applied Energy, 2012, 92, 809-814.	10.1	57
10	Prediction of daily rainfall by a hybrid wavelet-season-neuro technique. Journal of Hydrology, 2015, 529, 287-301.	5.4	57
11	Fuzzy logic model of lake water level fluctuations in Lake Van, Turkey. Theoretical and Applied Climatology, 2007, 90, 227-233.	2.8	52
12	Temporal significant wave height estimation from wind speed by perceptron Kalman filtering. Ocean Engineering, 2004, 31, 1245-1255.	4.3	50
13	Fuzzy awakening in rainfall-runoff modeling. Hydrology Research, 2004, 35, 31-43.	2.7	47
14	Monthly Water Consumption Prediction Using Season Algorithm and Wavelet Transform–Based Models. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	2.6	44
15	Modeling the effect of urbanization on flood risk in Ayamama Watershed, Istanbul, Turkey, using the MIKE 21 FM model. Natural Hazards, 2019, 99, 1031-1047.	3.4	43
16	Triple diagram model of level fluctuations in Lake Van, Turkey. Hydrology and Earth System Sciences, 2003, 7, 235-244.	4.9	38
17	Predicting Water Level Fluctuations in Lake Michigan-Huron Using Wavelet-Expert System Methods. Water Resources Management, 2014, 28, 2293-2314.	3.9	37
18	Prediction of significant wave height using geno-multilayer perceptron. Ocean Engineering, 2013, 58, 144-153.	4.3	34

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19	Wind Velocity Vertical Extrapolation by Extended Power Law. Advances in Meteorology, 2012, 2012, 1-6.	1.6	33
20	Fuzzy Logic Model for Equilibrium Scour Downstream of a Dam's Vertical Gate. Journal of Hydraulic Engineering, 2006, 132, 1069-1075.	1.5	29
21	Autorun Persistence of Hydrologic Design. Journal of Hydrologic Engineering - ASCE, 2003, 8, 329-338.	1.9	28
22	Sediment Concentration and Its Prediction by Perceptron Kalman Filtering Procedure. Journal of Hydraulic Engineering, 2004, 130, 816-826.	1.5	28
23	Prediction of specific permeate flux during crossflow microfiltration of polydispersed colloidal suspensions by fuzzy logic models. Desalination, 2010, 253, 188-194.	8.2	26
24	Performance comparison of continuous Wavelet-Fuzzy and discrete Wavelet-Fuzzy models for water level predictions at northern and southern boundary of Bosphorus. Ocean Engineering, 2019, 186, 106097.	4.3	26
25	Fuzzy system modelling of drinking water consumption prediction. Expert Systems With Applications, 2009, 36, 11745-11752.	7.6	25
26	Fuzzy logic-based attenuation relationships of strong motion earthquake records. Expert Systems With Applications, 2015, 42, 1287-1297.	7.6	25
27	Comparison of Discrete and Continuous Wavelet–Multilayer Perceptron Methods for Daily Precipitation Prediction. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	1.9	24
28	Experimental investigations on the performance of a fixed-oscillating water column type wave energy converter. Energy, 2019, 188, 116071.	8.8	24
29	Predicting Water Level Fluctuations in Lake Van Using Hybrid Season-Neuro Approach. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	1.9	24
30	VARIABLE DISCHARGE TYPE CURVE SOLUTIONS FOR CONFINED AQUIFERS. Journal of the American Water Resources Association, 2004, 40, 1189-1196.	2.4	23
31	Statistical investigation of expected wave energy and its reliability. Energy Conversion and Management, 2004, 45, 2173-2185.	9.2	23
32	Experimental and analytical investigation on chamber water surface fluctuations and motion behaviours of water column type wave energy converter. Ocean Engineering, 2018, 150, 209-220.	4.3	23
33	Significant wave height prediction by using a spatial model. Ocean Engineering, 2005, 32, 924-936.	4.3	22
34	Estimation of significant wave height in shallow lakes using the expert system techniques. Expert Systems With Applications, 2012, 39, 2549-2559.	7.6	22
35	A predictive model for well loss using fuzzy logic approach. Hydrological Processes, 2010, 24, 2400-2404.	2.6	21
36	Monthly water demand prediction using wavelet transform, first-order differencing and linear detrending techniques based on multilayer perceptron models. Urban Water Journal, 2018, 15, 177-181.	2.1	21

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37	Adaptive estimation of wave parameters by Geno-Kalman filtering. Ocean Engineering, 2008, 35, 1245-1251.	4.3	20
38	Impacts of climate change on the trends of extreme rainfall indices and values of maximum precipitation at Olimpiyat Station, Istanbul, Turkey. Theoretical and Applied Climatology, 2019, 135, 1501-1515.	2.8	18
39	A predictive model for reach morphology classification in mountain streams using multilayer perceptron methods. Water Resources Research, 2009, 45, .	4.2	17
40	Fuzzy-logic based inelastic displacement ratios of degrading RC structures. Engineering Structures, 2014, 75, 590-603.	5.3	17
41	Assessing the Hydrological Response of Ayamama Watershed from Urbanization Predicted under Various Landuse Policy Scenarios. Water Resources Management, 2016, 30, 3427-3441.	3.9	17
42	Extended lead time accurate forecasting of palmer drought severity index using hybrid wavelet-fuzzy and machine learning techniques. Journal of Hydrology, 2021, 601, 126619.	5.4	16
43	Determination of hydrodynamic parameters of a fixed OWC by performing experimental and numerical free decay tests. Ocean Engineering, 2020, 204, 106827.	4.3	14
44	El NiÃ±o Southern Oscillation (ENSO) Templates and Streamflow Prediction. Journal of Hydrologic Engineering - ASCE, 2004, 9, 368-374.	1.9	13
45	Stochastic wave energy calculation formulation. Renewable Energy, 2004, 29, 1747-1756.	8.9	13
46	Modeling Urbanization of Istanbul under Different Scenarios Using SLEUTH Urban Growth Model. Journal of the Urban Planning and Development Division, ASCE, 2017, 143, .	1.7	13
47	Prediction of significant wave height using spatial function. Ocean Engineering, 2015, 106, 220-226.	4.3	12
48	Regional Streamflow Estimation by Standard Regional Dependence Function Approach. Journal of Hydraulic Engineering, 2005, 131, 1001-1006.	1.5	11
49	A predictive tool by fuzzy logic for outcome of patients with intracranial aneurysm. Expert Systems With Applications, 2010, 37, 1043-1049.	7.6	11
50	A novel approach for the prediction of the incipient motion of sediments under smooth, transitional and rough flow conditions using Geno-Fuzzy Inference System model. Journal of Hydrology, 2019, 577, 123952.	5.4	11
51	Spatial Significant Wave Height Variation Assessment and Its Estimation. Journal of Waterway, Port, Coastal and Ocean Engineering, 2005, 131, 277-282.	1.2	10
52	Trend Analyses of Extreme Precipitation Indices Based on Downscaled Outputs of Global Circulation Models in Western Black Sea Basin, Turkey. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 821-834.	1.9	10
53	Prediction of longitudinal dispersion coefficient in natural streams by prediction map. Journal of Hydro-Environment Research, 2016, 12, 105-116.	2.2	9
54	Transfer sea level learning in the Bosphorus Strait by wavelet based machine learning methods. Ocean Engineering, 2021, 233, 109116.	4.3	9

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55	Space-time Interpolation by Combining Air Pollution and Meteorologic Variables. Pure and Applied Geophysics, 2006, 163, 1435-1451.	1.9	8
56	Suspended sediment concentration prediction by Geno-Kalman filtering. Expert Systems With Applications, 2010, 37, 8583-8589.	7.6	8
57	OWC-Type Wave Chamber Optimization Under Series of Regular Waves. Arabian Journal for Science and Engineering, 2016, 41, 1543-1549.	1.1	8
58	Triple diagram models for prediction of suspended solid concentration in Lake Okeechobee, Florida. Journal of Hydrology, 2010, 387, 165-175.	5.4	7
59	An in depth experimental investigation into effects of incident wave characteristics front wall opening and PTO damping on the water column displacement and air differential pressure in an OWC chamber. Energy, 2021, 230, 120827.	8.8	7
60	INCREASING WATER SUPPLY BY MIXING OF FRESH AND SALINE GROUND WATERS. Journal of the American Water Resources Association, 2003, 39, 1209-1215.	2.4	6
61	Steady-state groundwater flow model with variable hydraulic conductivity. Hydrological Sciences Journal, 2007, 52, 221-229.	2.6	6
62	Steady state flow with hydraulic conductivity change around large diameter wells. Hydrological Processes, 2011, 25, 1778-1783.	2.6	6
63	Spatio-temporal evaluation of various global circulation models in terms of projection of different meteorological drought indices. Environmental Earth Sciences, 2020, 79, 1.	2.7	6
64	DALGACIK K-EN YAKIN KOMŞULUK YÖNTEMİ İLE HAVA KİRLİLİĞİ TAHMİNİ. Uludağ University Journal of the Faculty of Engineering, 0, , 1547-1556.	0.2	6
65	Streamflow estimation using optimal regional dependency function. Hydrological Processes, 2009, 23, 3525-3533.	2.6	5
66	A comparative study of hydrodynamic model and expert system related models for prediction of total suspended solids concentrations in Apalachicola Bay. Journal of Hydrology, 2011, 400, 353-363.	5.4	5
67	Performance Comparison of SAS-Multilayer Perceptron and Wavelet-Multilayer Perceptron Models in Terms of Daily Streamflow Prediction. Journal of Hydrologic Engineering - ASCE, 2016, 21, 04015051.	1.9	5
68	Optimized Numerical Model Based Assessment of Wave Power Potential of Marmara Sea. Journal of Ocean University of China, 2019, 18, 293-304.	1.2	5
69	Determination of damping coefficient experimentally and mathematical vibration modelling of OWC surface fluctuations. Renewable Energy, 2020, 147, 1909-1920.	8.9	5
70	A novel Geno-fuzzy based model for hydrodynamic efficiency prediction of a land-fixed oscillating water column for various front wall openings, power take-off dampings and incident wave steepnesses. Renewable Energy, 2022, 196, 99-110.	8.9	5
71	Estimation of streamflow by slope regional dependency function. Hydrology and Earth System Sciences, 2008, 12, 1121-1127.	4.9	4
72	Extended wave power formulation by perturbation theory and its applications. Ocean Engineering, 2014, 88, 46-54.	4.3	4

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73	Prediction of flood hazard map based on hybrid fuzzy geographic information system and its application for Ayamama watershed. International Journal of Fuzzy Computation and Modelling, 2020, 3, 16.	0.1	4
74	Modeling the initiation of sediment motion under a wide range of flow conditions using a Geno-Mamdani Fuzzy Inference System method. International Journal of Sediment Research, 2020, 35, 467-483.	3.5	4
75	A novel Geno-Nonlinear formula for oscillating water column efficiency estimation. Energy, 2022, 241, 122513.	8.8	4
76	Contour diagram fuzzy model for maximum surface ozone prediction. Expert Systems With Applications, 2009, 36, 6389-6402.	7.6	3
77	Frequency analyses of extreme precipitation events in Western Black Sea Basin (Turkey) based on climate change projections. Meteorological Applications, 2019, 26, 468.	2.1	3
78	The impacts of climate change on the runoff volume of Melen and Munzur Rivers in Turkey based on calibration of WASMOD model with multiobjective genetic algorithm. Meteorology and Atmospheric Physics, 2020, 132, 85-98.	2.0	3
79	Estimation of Water Column Surface Displacement of a Fixed Oscillating Water Column by Simple Mechanical Model with Determination of Hydrodynamic Parameters via Physical Experimental Model. Journal of Waterway, Port, Coastal and Ocean Engineering, 2020, 146, .	1.2	3
80	Investigating the Effects of Bed Roughness on Incipient Motion in Rigid Boundary Channels with Developed Hybrid Geno-Fuzzy versus Neuro-Fuzzy Models. Geotechnical and Geological Engineering, 2021, 39, 3171-3191.	1.7	3
81	Neuro-fuzzy models for prediction of breach formation time of embankment dams. Journal of Intelligent and Fuzzy Systems, 2016, 31, 1929-1940.	1.4	2
82	Long-Term Macro-Scale Assessment of Wave Power of Black Sea by an Optimized Numerical Model. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2018, 42, 391-414.	1.9	2
83	Prediction of the Incipient Motion of Sediment Entrainment via a Novel Hybrid Geno-Fuzzy Approach with Experimental Investigations. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, .	1.0	2
84	Discussion of â€œDevelopment of Exceedance Probability Streamflow Forecastâ€•by Thomas C. Piechota, Francis H. S. Chiew, John A. Dracup, and Thomas A. McMahon. Journal of Hydrologic Engineering - ASCE, 2002, 7, 265-267.	1.9	1
85	Prediction of temperature variation within a snowpack in open areas and under different canopy covers. Hydrological Processes, 2012, 26, 4015-4028.	2.6	1
86	Modeling the Effects of Project Canal Istanbul on the Urban Extent and Hydrological Response of Ayamama Watershed, Istanbul. , 2017, , .		1
87	Comparison of Experimental and Numerical Model Results of Oscillating Water Column System Under Regular Wave Conditions. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2020, 44, 299-315.	1.9	1
88	Modeling groundwater flow and seawater intrusion in the Terkos Lake aquifer due to Canal Istanbul excavation. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	1
89	Physical experimental investigation of the horizontal water flow patterns in the Golden Horn under different scenarios with the presence of various structures. Ocean Engineering, 2020, 215, 107837.	4.3	1
90	Autorun Persistence of the Great Salt Lake Water Level Fluctuations. , 2004, , 1.		0

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91	Discussion of Estimation of wave spectral shapes using ANN by Naithani R and Deo MC. Advances in Engineering Software, 2007, 38, 68.	3.8	0
92	Fuzzy Logic-Based Attenuation Relationships of Strong Motion Earthquake Records. , 2012, , .		0
93	Discussion of â€œDeducing a Drain Spacing Formula by Applying Dimensional Analysis and Self-Similarity Theoryâ€•by Vito Ferro. Journal of Irrigation and Drainage Engineering - ASCE, 2017, 143, 07017005.	1.0	0