Halil Karahan

List of Publications by Year
in descending order

31 papers	997 citations	471061 17 h-index	454577 30 g-index
31 all docs	31 docs citations	31 times ranked	728 citing authors

#	Article	IF	Citations
1	Prediction of hard rock TBM penetration rate using particle swarm optimization. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 427-433.	2.6	165
2	Parameter Estimation of the Nonlinear Muskingum Flood-Routing Model Using a Hybrid Harmony Search Algorithm. Journal of Hydrologic Engineering - ASCE, 2013, 18, 352-360.	0.8	119
3	A simulation/optimization model for the identification of unknown groundwater well locations and pumping rates. Journal of Hydrology, 2008, 357, 76-92.	2.3	96
4	Application of various optimization techniques and comparison of their performances for predicting TBM penetration rate in rock mass. International Journal of Rock Mechanics and Minings Sciences, 2015, 80, 308-315.	2.6	93
5	Aquifer parameter and zone structure estimation using kernel-based fuzzy c-means clustering and genetic algorithm. Journal of Hydrology, 2007, 343, 240-253.	2.3	58
6	Implicit finite difference techniques for the advectionâ€“diffusion equation using spreadsheets. Advances in Engineering Software, 2006, 37, 601-608.	1.8	48
7	Solving inverse problems of groundwater-pollution-source identification using a differential evolution algorithm. Hydrogeology Journal, 2015, 23, 1109-1119.	0.9	45
8	A new nonlinear Muskingum flood routing model incorporating lateral flow. Engineering Optimization, 2015, 47, 737-749.	1.5	43
9	Unconditional stable explicit finite difference technique for the advectionâ€“diffusion equation using spreadsheets. Advances in Engineering Software, 2007, 38, 80-86.	1.8	39
10	Simultaneous parameter identification of a heterogeneous aquifer system using artificial neural networks. Hydrogeology Journal, 2008, 16, 817-827.	0.9	33
11	Numerical Solution of Advection-Diffusion Equation Using a Sixth-Order Compact Finite Difference Method. Mathematical Problems in Engineering, 2013, 2013, 1-7.	0.6	27
12	Transient groundwater modeling using spreadsheets. Advances in Engineering Software, 2005, 36, 374-384.	1.8	24
13	Predicting Muskingum flood routing parameters using spreadsheets. Computer Applications in Engineering Education, 2012, 20, 280-286.	2.2	21
14	Groundwater Parameter Estimation by Optimization and Dual Reciprocity Finite Differences Method. Journal of Porous Media, 2005, 8, 211-223.	1.0	19
15	Time-dependent groundwater modeling using spreadsheet. Computer Applications in Engineering Education, 2005, 13, 192-199.	2.2	18
16	Predicting rainfall intensity using a genetic algorithm approach. Hydrological Processes, 2007, 21, 470-475.	1.1	18
17	A third-order upwind scheme for the advectionâ€“diffusion equation using spreadsheets. Advances in Engineering Software, 2007, 38, 688-697.	1.8	18
18	Discussion of â€œImproved Nonlinear Muskingum Model with Variable Exponent Parameterâ€•by Said M. Easa. Journal of Hydrologic Engineering - ASCE, 2014, 19, .	0.8	17

#	Article	IF	Citations
19	Application of differential evolution algorithm and comparing its performance with literature to predict rock brittleness for excavatability. International Journal of Mining, Reclamation and Environment, 2020, 34, 672-685.	1.2	15
20	Solution of weighted finite difference techniques with the advectionâ€“diffusion equation using spreadsheets. Computer Applications in Engineering Education, 2008, 16, 147-156.	2.2	14
21	Determining rainfall-intensity-duration-frequency relationship using Particle Swarm Optimization. KSCE Journal of Civil Engineering, 2012, 16, 667-675.	0.9	13
22	Modeling three-dimensional free-surface flows using multiple spreadsheets. Computers and Geotechnics, 2007, 34, 112-123.	2.3	11
23	An Extended Pressure Application for Transient Seepage Problems with a Free Surface. Journal of Porous Media, 2005, 8, 613-625.	1.0	9
24	Forecasting Aquifer Parameters Using Artificial Neural Networks. Journal of Porous Media, 2006, 9, 429-444.	1.0	9
25	Discussion of â€œParameter Estimation of Nonlinear Muskingum Models Using Nelder-Mead Simplex Algorithmâ€•by Reza Barati. Journal of Hydrologic Engineering - ASCE, 2013, 18, 365-367.	0.8	8
26	River Flow Estimation from Upstream Flow Records Using Support Vector Machines. Journal of Applied Mathematics, 2014, 2014, 1-7.	0.4	8
27	Closure to â€œParameter Estimation of the Nonlinear Muskingum Flood-Routing Model Using a Hybrid Harmony Search Algorithmâ€•by Halil Karahan, Gurhan Gurarslan, and Zong Woo Geem. Journal of Hydrologic Engineering - ASCE, 2014, 19, 847-853.	0.8	3
28	Discussion of â€œEstimation of Nonlinear Muskingum Model Parameter Using Differential Evolutionâ€•by Dong-Mei Xu, Lin Qiu, and Shou-Yu Chen. Journal of Hydrologic Engineering - ASCE, 2013, 18, 1064-1067.	0.8	2
29	Best fitting distributions for the standard duration annual maximum precipitations in the Aegean Region. Pamukkale University Journal of Engineering Sciences, 2013, 19, 152-157.	0.2	2
30	Discussion of â€œDifferential Quadrature Method in Open Channel Flows: Aksu River, Turkeyâ€•by Birol Kaya, AslÄ± Ulke, and Cevza Melek KazezyÄ±lmaz-Alhan. Journal of Hydrologic Engineering - ASCE, 2014, 19, 07014003.	0.8	1
31	Discussion of â€œEvaluation of Explicit Numerical Solution Methods of the Muskingum Modelâ€•by Ali R. Vatankhah. Journal of Hydrologic Engineering - ASCE, 2015, 20, 07015005.	0.8	1