Hakan Basarir

List of Publications by Year
in descending order

41 papers	1,096 citations	279487 23 h-index	414034 32 g-index
42 all docs	42 docs citations	42 times ranked	974 citing authors

#	Article	IF	Citations
1	Prediction of the stresses around main and tail gates during top coal caving by 3D numerical analysis. International Journal of Rock Mechanics and Minings Sciences, 2015, 76, 88-97.	2.6	80
2	Finite element analysis for the twin metro tunnel constructed in Ankara Clay, Turkey. Bulletin of Engineering Geology and the Environment, 2007, 66, 71-79.	1.6	67
3	Penetration rate prediction for diamond bit drilling by adaptive neuro-fuzzy inference system and multiple regressions. Engineering Geology, 2014, 173, 1-9.	2.9	61
4	Engineering geological appraisal of the rock masses and preliminary support design, Dorukhan Tunnel, Zonguldak, Turkey. Engineering Geology, 2007, 92, 14-26.	2.9	52
5	A rippability classification system for marls in lignite mines. Engineering Geology, 2004, 74, 303-318.	2.9	48
6	Engineering geological studies and tunnel support design at Sulakyurt dam site, Turkey. Engineering Geology, 2006, 86, 225-237.	2.9	48
7	Green Concrete with High-Volume Fly Ash and Slag with Recycled Aggregate and Recycled Water to Build Future Sustainable Cities. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	48
8	Gateway stability analysis by global-local modeling approach. International Journal of Rock Mechanics and Minings Sciences, 2019, 113, 31-40.	2.6	44
9	Analysis of support requirements for a shallow diversion tunnel at Guledar dam site, Turkey. Engineering Geology, 2005, 81, 131-145.	2.9	43
10	CFRP strengthening and rehabilitation of corroded steel pipelines under direct indentation. Thin-Walled Structures, 2017, 119, 510-521.	2.7	39
11	The analysis of radial displacements occurring near the face of a circular opening in weak rock mass. International Journal of Rock Mechanics and Minings Sciences, 2010, 47, 771-783.	2.6	34
12	Analytical solution of energy redistribution in rectangular openings upon in-situ rock mass alteration. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 74-83.	2.6	34
13	Multi-objective mixture design of cemented paste backfill using particle swarm optimisation algorithm. Minerals Engineering, 2020, 153, 106385.	1.8	34
14	Energy Dissipation and Storage in Underground Mining Operations. Rock Mechanics and Rock Engineering, 2019, 52, 229-245.	2.6	33
15	Laboratory evaluation of shear strength properties for cement-based grouted coal mass. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	31
16	Self-consistent fractal damage of natural geo-materials in finite strain. Mechanics of Materials, 2017, 104, 107-120.	1.7	29
17	Development of ECO-UHPC utilizing gold mine tailings as quartz sand alternative. Cleaner Engineering and Technology, 2021, 4, 100176.	2.1	29
18	Prediction of the performance of impact hammer by adaptive neuro-fuzzy inference system modelling. Tunnelling and Underground Space Technology, 2011, 26, 38-45.	3.0	28

#	Article	IF	Citations
19	The prediction of ultimate pure bending moment of concrete-filled steel tubes by adaptive neuro-fuzzy inference system (ANFIS). Neural Computing and Applications, 2019, 31, 1239-1252.	3.2	28
20	Analysis of rock–support interaction using numerical and multiple regression modeling. Canadian Geotechnical Journal, 2008, 45, 1-13.	1.4	26
21	Preliminary estimation of rock mass strength using diamond bit drilling operational parameters. International Journal of Mining, Reclamation and Environment, 2016, 30, 145-164.	1.2	25
22	Analytical solution for stress distribution around deep lined pressure tunnels under the water table. International Journal of Rock Mechanics and Minings Sciences, 2019, 123, 104124.	2.6	25
23	Support capacity estimation of a diversion tunnel in weak rock. Engineering Geology, 2003, 68, 319-331.	2.9	23
24	Geostatistical modeling of spatial variability of SPT data for a borax stockpile site. Engineering Geology, 2010, 114, 154-163.	2.9	23
25	Multi-objective mixture design and optimisation of steel fiber reinforced UHPC using machine learning algorithms and metaheuristics. Engineering With Computers, 2022, 38, 2569-2582.	3.5	23
26	Engineering geological appraisal of the Sulakyurt dam site, Turkey. Bulletin of Engineering Geology and the Environment, 2007, 66, 483-492.	1.6	19
27	Computational monitoring in real time: review of methods and applications. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2018, 4, 235-271.	1.3	16
28	Strengthening of mild steel struts using CFRP sheets subjected to uniform axial compression. Thin-Walled Structures, 2017, 116, 96-112.	2.7	13
29	An adaptive neuro fuzzy inference system to model the uniaxial compressive strength of cemented hydraulic backfill. Mining of Mineral Deposits, 2018, 12, 1-12.	1.2	12
30	The use of soft computing methods for the prediction of rock properties based on measurement while drilling data. , 2017, , .		12
31	Engineering geological evaluation and preliminary support design for the metro extension tunnel, Ankara, Turkey. Bulletin of Engineering Geology and the Environment, 2009, 68, 397-408.	1.6	10
32	Multi-scale Modeling Approach to Predict the Nonlinear Behavior of CNT-reinforced Concrete Columns Subjected to Service Loading. Structures, 2018, 14, 301-312.	1.7	10
33	Specific energy based rippability classification system for coal measure rock. Journal of Terramechanics, 2008, 45, 51-62.	1.4	9
34	Assessment of slope stability using fuzzy sets and systems. International Journal of Mining, Reclamation and Environment, 2013, 27, 312-328.	1.2	9
35	An Evolutionary-Based Prediction Model of the 28-Day Compressive Strength of High-Performance Concrete Containing Cementitious Materials. Advances in Civil Engineering Materials, 2019, 8, 484-497.	0.2	7
36	Closed-Form Solution to the Poromechanics of Deep Arbitrary-Shaped Openings Subjected to Rock Mass Alteration. International Journal of Geomechanics, 2020, 20, .	1.3	5

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37	Prediction of rock mass P wave velocity using blasthole drilling information. International Journal of Mining, Reclamation and Environment, 2019, 33, 61-74.	1.2	4
38	The critical behaviour of finite thickness lining systems in tunnels. European Journal of Environmental and Civil Engineering, 2020, , 1-18.	1.0	4
39	3D Modeling of Ripping Process. International Journal of Geomechanics, 2008, 8, 11-19.	1.3	3
40	An engineered ML model for prediction of the compressive strength of Eco-SCC based on type and proportions of materials. Cleaner Materials, 2022, 4, 100072.	1.9	3
41	Lattice Finite Strain Theory for Non-hydrostatically Compressed Materials. Rock Mechanics and Rock Engineering, 2018, 51, 3313-3319.	2.6	0