Hakan Basarir

List of Publications by Citations

42 papers	**792** citations	**19** h-index	**26** g-index
42 ext. papers	**927** ext. citations	**4.1** avg, IF	**4.62** L-index

#	Paper	IF	Citations
42	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	6	66
41	Finite element analysis for the twin metro tunnel constructed in Ankara Clay, Turkey. *Bulletin of Engineering Geology and the Environment*, **2007**, 66, 71-79	4	52
40	Penetration rate prediction for diamond bit drilling by adaptive neuro-fuzzy inference system and multiple regressions. *Engineering Geology*, **2014**, 173, 1-9	6	44
39	Engineering geological studies and tunnel support design at Sulakyurt dam site, Turkey. *Engineering Geology*, **2006**, 86, 225-237	6	42
38	A rippability classification system for marls in lignite mines. *Engineering Geology*, **2004**, 74, 303-318	6	39
37	Engineering geological appraisal of the rock masses and preliminary support design, Dorukhan Tunnel, Zonguldak, Turkey. *Engineering Geology*, **2007**, 92, 14-26	6	38
36	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, 04016219	3	34
35	Gateway stability analysis by global-local modeling approach. *International Journal of Rock Mechanics and Minings Sciences*, **2019**, 113, 31-40	6	34
34	Analysis of support requirements for a shallow diversion tunnel at Guledar dam site, Turkey. *Engineering Geology*, **2005**, 81, 131-145	6	32
33	CFRP strengthening and rehabilitation of corroded steel pipelines under direct indentation. *Thin-Walled Structures*, **2017**, 119, 510-521	4.7	27
32	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	6	27
31	Energy Dissipation and Storage in Underground Mining Operations. *Rock Mechanics and Rock Engineering*, **2019**, 52, 229-245	5.7	26
30	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	6	24
29	Laboratory evaluation of shear strength properties for cement-based grouted coal mass. *Arabian Journal of Geosciences*, **2019**, 12, 1	1.8	24
28	Self-consistent fractal damage of natural geo-materials in finite strain. *Mechanics of Materials*, **2017**, 104, 107-120	3.3	22
27	Prediction of the performance of impact hammer by adaptive neuro-fuzzy inference system modelling. *Tunnelling and Underground Space Technology*, **2011**, 26, 38-45	5.7	20
26	Support capacity estimation of a diversion tunnel in weak rock. *Engineering Geology*, **2003**, 68, 319-331	6	20

#	Reference		
25	Analysis of rock support interaction using numerical and multiple regression modeling. *Canadian Geotechnical Journal*, **2008**, 45, 1-13	3.2	19
24	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	4.8	19
23	Preliminary estimation of rock mass strength using diamond bit drilling operational parameters. *International Journal of Mining, Reclamation and Environment*, **2016**, 30, 145-164	2.2	18
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	6	18
21	Geostatistical modeling of spatial variability of SPT data for a borax stockpile site. *Engineering Geology*, **2010**, 114, 154-163	6	17
20	Engineering geological appraisal of the Sulakyurt dam site, Turkey. *Bulletin of Engineering Geology and the Environment*, **2007**, 66, 483-492	4	17
19	Multi-objective mixture design of cemented paste backfill using particle swarm optimisation algorithm. *Minerals Engineering*, **2020**, 153, 106385	4.9	12
18	Computational monitoring in real time: review of methods and applications. *Geomechanics and Geophysics for Geo-Energy and Geo-Resources*, **2018**, 4, 235-271	3.8	12
17	Strengthening of mild steel struts using CFRP sheets subjected to uniform axial compression. *Thin-Walled Structures*, **2017**, 116, 96-112	4.7	10
16	An adaptive neuro fuzzy inference system to model the uniaxial compressive strength of cemented hydraulic backfill. *Mining of Mineral Deposits*, **2018**, 12, 1-12	1.7	10
15	Multi-scale Modeling Approach to Predict the Nonlinear Behavior of CNT-reinforced Concrete Columns Subjected to Service Loading. *Structures*, **2018**, 14, 301-312	3.4	9
14	The use of soft computing methods for the prediction of rock properties based on measurement while drilling data **2017**,		9
13	Assessment of slope stability using fuzzy sets and systems. *International Journal of Mining, Reclamation and Environment*, **2013**, 27, 312-328	2.2	8
12	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	4	7
11	Specific energy based rippability classification system for coal measure rock. *Journal of Terramechanics*, **2008**, 45, 51-62	2.2	7
10	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, 20190016	0.7	6
9	The Optimization of Cemented Hydraulic Backfill Mixture Design Parameters for Different Strength Conditions Using Artificial Intelligence Algorithms. *Springer Series in Geomechanics and Geoengineering*, **2020**, 219-227	0.1	5
8	Development of ECO-UHPC utilizing gold mine tailings as quartz sand alternative. *Cleaner Engineering and Technology*, **2021**, 4, 100176	2.7	5

7	Multi-objective mixture design and optimisation of steel fiber reinforced UHPC using machine learning algorithms and metaheuristics. *Engineering With Computers*,1	4.5	4
6	3D Modeling of Ripping Process. *International Journal of Geomechanics*, **2008**, 8, 11-19	3.1	3
5	The critical behaviour of finite thickness lining systems in tunnels. *European Journal of Environmental and Civil Engineering*, **2020**, 1-18	1.5	2
4	Prediction of rock mass P wave velocity using blasthole drilling information. *International Journal of Mining, Reclamation and Environment*, **2019**, 33, 61-74	2.2	2
3	Closed-Form Solution to the Poromechanics of Deep Arbitrary-Shaped Openings Subjected to Rock Mass Alteration. *International Journal of Geomechanics*, **2020**, 20, 04020223	3.1	1
2	An engineered ML model for prediction of the compressive strength of Eco-SCC based on type and proportions of materials. *Cleaner Materials*, **2022**, 100072		1
1	Lattice Finite Strain Theory for Non-hydrostatically Compressed Materials. *Rock Mechanics and Rock Engineering*, **2018**, 51, 3313-3319	5.7	