

Alireza R Baghbanan

List of Publications by Year in descending order

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35
papers

1,016
citations

567144

15
h-index

434063

31
g-index

35
all docs

35
docs citations

35
times ranked

843
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydraulic properties of fractured rock masses with correlated fracture length and aperture. International Journal of Rock Mechanics and Minings Sciences, 2007, 44, 704-719.	2.6	264
2	Stress effects on permeability in a fractured rock mass with correlated fracture length and aperture. International Journal of Rock Mechanics and Minings Sciences, 2008, 45, 1320-1334.	2.6	258
3	The etching and hydraulic conductivity of acidized rough fractures. Journal of Petroleum Science and Engineering, 2018, 166, 704-717.	2.1	53
4	Estimating rock strength parameters using drilling data. International Journal of Rock Mechanics and Minings Sciences, 2018, 104, 45-52.	2.6	49
5	Numerical determination of deformability and strength of 3D fractured rock mass. International Journal of Rock Mechanics and Minings Sciences, 2018, 110, 246-256.	2.6	34
6	Investigation of Grain Size Effects on Micro/Macro-Mechanical Properties of Intact Rock Using Voronoi Elementâ€™Discrete Element Method Approach. Particulate Science and Technology, 2013, 31, 507-514.	1.1	30
7	Over-consolidation effect on shear behavior of rock joints. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 1283-1291.	2.6	27
8	Investigating of chemical effects on rock fracturing using extended finite element method. Theoretical and Applied Fracture Mechanics, 2017, 89, 110-126.	2.1	26
9	Fracture mechanism simulation of inhomogeneous anisotropic rocks by extended finite element method. Theoretical and Applied Fracture Mechanics, 2019, 104, 102359.	2.1	24
10	An analytical model for estimating rock strength parameters from small-scale drilling data. Journal of Rock Mechanics and Geotechnical Engineering, 2019, 11, 135-145.	3.7	23
11	Understanding coupled stress, flow and transport processes in fractured rocks. Geosystem Engineering, 2013, 16, 2-25.	0.7	20
12	Prediction of fracture trajectory in anisotropic rocks using modified maximum tangential stress criterion. Computers and Geotechnics, 2017, 92, 108-120.	2.3	20
13	Fracture propagation in a cracked semicircular bend specimen under mixed mode loading using extended finite element method. Arabian Journal of Geosciences, 2015, 8, 9635-9646.	0.6	19
14	The effect of fracture patterns on penetration rate of TBM in fractured rock mass using probabilistic numerical approach. Arabian Journal of Geosciences, 2014, 7, 5321-5331.	0.6	18
15	Chemically dependent mechanical properties of natural andesite rock fractures. Canadian Geotechnical Journal, 2018, 55, 881-893.	1.4	17
16	Effect of seismic waves on the hydro-mechanical properties of fractured rock masses. Earthquake Engineering and Engineering Vibration, 2017, 16, 525-536.	1.1	15
17	Investigation of wear resistance of drill bits with WC, Diamond-DLC, and TiAlSi coatings with respect to mechanical properties of rock. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105113.	1.7	12
18	Fatigue life prediction of rocks based on a new Bi-linear damage model. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 20-29.	2.6	11

#	ARTICLE	IF	CITATIONS
19	Prediction of permeability in dual fracture media by multivariate regression analysis. <i>Journal of Petroleum Science and Engineering</i> , 2014, 120, 194-201.	2.1	10
20	Modelling of Flowâ€™Shear Coupling Process in Rough Rock Fractures Using Three-Dimensional Finite Volume Approach. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 4693-4713.	2.6	10
21	Variable Amplitude Fatigue Life Prediction of Rock Samples Under Completely Reversed Loading. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 1951-1962.	0.8	10
22	Photogrammetric Method to Determine Physical Aperture and Roughness of a Rock Fracture. <i>Sensors</i> , 2022, 22, 4165.	2.1	10
23	Determination of crack initiation and propagation in two disc shaped specimens using the improved maximum tangential stress criterion. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 469.	0.2	8
24	Investigating the deformability of grouted rock mass under static and dynamic loading conditions. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 4549-4566.	1.6	7
25	Evaluating modes I, II, and mixed mode I-II fracture toughnesses of crystalline rocks using discrete element method. <i>Particulate Science and Technology</i> , 2019, 37, 1-9.	1.1	7
26	The Effect of Loading Frequency on Fatigue Life of Green onyx under Fully Reversed Loading. <i>Experimental Techniques</i> , 2018, 42, 105-113.	0.9	6
27	Static and dynamic analysis on slope stability using a DFN-DEM approach on the right abutment of the Karun 4 dam. <i>Earthquake Engineering and Engineering Vibration</i> , 2020, 19, 937-951.	1.1	5
28	Photogrammetric Prediction of Rock Fracture Properties and Validation with Metric Shear Tests. <i>Geosciences (Switzerland)</i> , 2021, 11, 293.	1.0	5
29	Effect of coupled triaxial stress-perforation on fracture mechanism and acoustic wave velocity of limestone. <i>Journal of Petroleum Science and Engineering</i> , 2018, 170, 409-421.	2.1	4
30	Study of the effect of drill bits hardness, drilling machine operating parameters and rock mechanical parameters on noise level in hard rock drilling process. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 167, 108447.	2.5	4
31	Obtaining the strength parameters of concrete using drilling data. <i>Journal of Building Engineering</i> , 2021, 38, 102181.	1.6	4
32	Evaluating Fatigue in Crystalline Intact Rocks under Completely Reversed Loading. <i>Geotechnical Testing Journal</i> , 2017, 40, 789-797.	0.5	3
33	Using effective medium theory to calculate permeability of rock with complex fractures. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 0, , 1-12.	0.9	2
34	Stress-Dependent Perforation in Carbonate Rocks: An Experimental Study. <i>SPE Drilling and Completion</i> , 2018, 33, 209-219.	0.9	1
35	Pumping Schedule Optimization in Acid Fracturing Treatment by Unified Fracture Design. <i>Energies</i> , 2021, 14, 8185.	1.6	0