Mohammad Fatehi Marji

List of Publications by Year
in descending order

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43 papers	1,147 citations	331259 21 h-index	395343 33 g-index
46 all docs	46 docs citations	46 times ranked	735 citing authors

#	Article	IF	Citations
1	Experimental and numerical study of crack propagation and coalescence in pre-cracked rock-like disks. International Journal of Rock Mechanics and Minings Sciences, 2014, 67, 20-28.	2.6	229
2	Numerical analysis of confinement effect on crack propagation mechanism from a flaw in a pre-cracked rock under compression. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 1389-1397.	1.5	73
3	Cracks coalescence mechanism and cracks propagation paths in rock-like specimens containing pre-existing random cracks under compression. Journal of Central South University, 2014, 21, 2404-2414.	1.2	56
4	On the uses of special crack tip elements in numerical rock fracture mechanics. International Journal of Solids and Structures, 2006, 43, 1669-1692.	1.3	49
5	Fracture analyses of different pre-holed concrete specimens under compression. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 855-870.	1.5	47
6	Numerical simulation of interaction between hydraulic and natural fractures in discontinuous media. Acta Geotechnica, 2015, 10, 533-546.	2.9	43
7	A coupled finite difference-boundary element method for modeling the propagation of explosion-induced radial cracks around a wellbore. Journal of Natural Gas Science and Engineering, 2019, 64, 41-51.	2.1	37
8	Experimental and numerical analysis of Brazilian discs with multiple parallel cracks. Arabian Journal of Geosciences, 2015, 8, 5897-5908.	0.6	36
9	Kinked crack analysis by a hybridized boundary element/boundary collocation method. International Journal of Solids and Structures, 2010, 47, 922-933.	1.3	35
10	Simulating the crack propagation and cracks coalescence underneath TBM disc cutters. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	35
11	On the use of power series solution method in the crack analysis of brittle materials by indirect boundary element method. Engineering Fracture Mechanics, 2013, 98, 365-382.	2.0	33
12	Time-dependent crack propagation in a poroelastic medium using a fully coupled hydromechanical displacement discontinuity method. International Journal of Fracture, 2016, 199, 71-87.	1.1	32
13	Numerical analysis of quasi-static crack branching in brittle solids by a modified displacement discontinuity method. International Journal of Solids and Structures, 2014, 51, 1716-1736.	1.3	30
14	Analytical and numerical modeling of rock blasting operations using a two-dimensional elasto-dynamic Green's function. International Journal of Rock Mechanics and Minings Sciences, 2019, 114, 208-217.	2.6	30
15	Simulation of crack coalescence mechanism underneath single and double disc cutters by higher order displacement discontinuity method. Journal of Central South University, 2015, 22, 1045-1054.	1.2	29
16	Simulating the effect of disc erosion in TBM disc cutters by a semi-infinite DDM. Arabian Journal of Geosciences, 2015, 8, 3915-3927.	0.6	29
17	On the HDD analysis of micro crack initiation, propagation, and coalescence in brittle materials. Arabian Journal of Geosciences, 2015, 8, 2841-2852.	0.6	28
18	Numerical simulation of crack propagation in layered formations. Arabian Journal of Geosciences, 2014, 7, 2729-2737.	0.6	27

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19	Simulating the propagation of hydraulic fractures from a circular wellbore using the Displacement Discontinuity Method. International Journal of Rock Mechanics and Minings Sciences, 2015, 80, 281-291.	2.6	27
20	A coupled numericalâ€“experimental study of the breakage process of brittle substances. Arabian Journal of Geosciences, 2015, 8, 809-825.	0.6	25
21	Experimental and Numerical Study of Shear Fracture in Brittle Materials with Interference of Initial Double Cracks. Acta Mechanica Solida Sinica, 2016, 29, 555-566.	1.0	24
22	Extended finite element method simulation and experimental test on failure behavior of defects under uniaxial compression. Mechanics of Advanced Materials and Structures, 2022, 29, 6966-6981.	1.5	20
23	A coupled experimental and numerical simulation of rock slope joints behavior. Arabian Journal of Geosciences, 2015, 8, 7297-7308.	0.6	18
24	Numerical simulation of a wellbore stability in an Iranian oilfield utilizing core data. Journal of Petroleum Science and Engineering, 2018, 168, 577-592.	2.1	16
25	A semi-infinite higher-order displacement discontinuity method and its application to the quasistatic analysis of radial cracks produced by blasting. Journal of Mechanics of Materials and Structures, 2007, 2, 439-458.	0.4	14
26	On the direct experimental measurement of mortar fracture toughness by a compression-to-tensile load transformer (CTLT). Construction and Building Materials, 2018, 181, 687-712.	3.2	14
27	Investigating the effect of external forces on the displacement accuracy of discontinuous deformation analysis (DDA) method. Computers and Geotechnics, 2019, 111, 313-323.	2.3	12
28	Investigating the tensile strength of concrete-gypsum interface using the ring type bi-material specimens. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	11
29	Experimental and numerical evaluation of the effects of interaction between multiple small holes and a single notch on the mechanical behavior of artificial gypsum specimens. Theoretical and Applied Fracture Mechanics, 2022, 121, 103462.	2.1	11
30	On the mitigating environmental aspects of a vertical well in underground coal gasification method. Mitigation and Adaptation Strategies for Global Change, 2019, 24, 373-398.	1.0	10
31	A new approach for measurement of the fracture toughness using the edge cracked semi-cylinder disk (ECSD) concrete specimens. Mechanics Based Design of Structures and Machines, 2023, 51, 2896-2917.	3.4	9
32	Investigation of the interaction between concrete-gypsum interface and internal notch using experimental test and numerical simulation. Mechanics Based Design of Structures and Machines, 2023, 51, 1165-1188.	3.4	7
33	Interaction Between the Notch and Mortarâ€“Mortar Interface (with Different Inclinations) in Semi-Circular Bend Specimens. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 2747-2763.	1.0	7
34	Experimental and Numerical Investigation of Uniaxial Compression Failure in Rock-Like Specimens with L-shaped Nonpersistent Cracks. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 2555-2575.	1.0	6
35	A hybridized numerical and regression method for estimating the minimum rock pillar width of twin circular tunnels. Arabian Journal of Geosciences, 2014, 7, 1059-1066.	0.6	5
36	Analyses of Inclined Cracks Neighboring Two Iso-Path Cracks in Rock-Like Specimens Under Compression. Geotechnical and Geological Engineering, 2017, 35, 169-181.	0.8	5

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37	On the accuracy of higher order displacement discontinuity method (HODDM) in the solution of linear elastic fracture mechanics problems. Journal of Central South University, 2016, 23, 2941-2950.	1.2	4
38	ON THE CRACK PROPAGATION MECHANISM OF BRITTLE ROCKS UNDER VARIOUS LOADING CONDITIONS. , 2011, , .		4
39	Numerical Simulation of the Interaction Between Normal Fault and Bedding Planes Using PFC. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 573-588.	1.0	2
40	Static and Dynamic Response of Rock Engineering Models. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 327-341.	1.0	2
41	Evaluating the Fragility Curve in Steelâ€“Concrete Structure Undergoing Seismic Progressive Collapse by Finite Element Method. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 2275-2288.	1.0	2
42	Comparison of indirect boundary element and finite element methods A case study: Shiraz-Esfahan railway tunnel in Iran. Frontiers of Structural and Civil Engineering, 2012, 6, 385.	1.2	1
43	Numerical Crack Analysis of Blunt Rock Indenters by an Indirect Boundary Element Method. Geomaterials, 2013, 03, 132-137.	0.4	0