List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Numerical study on tunnel damage subject to blast-induced shock wave in jointed rock masses. Tunnelling and Underground Space Technology, 2014, 43, 88-100.	3.0	136
2	Experimental Investigation of Bedding Plane Orientation on the Rockburst Behavior of Sandstone. Rock Mechanics and Rock Engineering, 2012, 45, 311-326.	2.6	97
3	Numerical simulations of rock mass damage induced by underground explosion. International Journal of Rock Mechanics and Minings Sciences, 2009, 46, 1206-1213.	2.6	87
4	Hydraulic fracturing modeling using the discontinuous deformation analysis (DDA) method. Computers and Geotechnics, 2016, 76, 12-22.	2.3	84
5	Numerical study of shear behavior of intermittent rock joints with different geometrical parameters. International Journal of Rock Mechanics and Minings Sciences, 2006, 43, 802-816.	2.6	80
6	Geological discontinuity persistence: Implications and quantification. Engineering Geology, 2018, 241, 41-54.	2.9	80
7	Numerical modelling of laboratory soil desiccation cracking using UDEC with a mix-mode cohesive fracture model. Engineering Geology, 2016, 202, 14-23.	2.9	79
8	A numerical model of fully grouted bolts considering the tri-linear shear bond–slip model. Tunnelling and Underground Space Technology, 2016, 54, 73-80.	3.0	73
9	Considerations of the discontinuous deformation analysis on wave propagation problems. International Journal for Numerical and Analytical Methods in Geomechanics, 2009, 33, 1449-1465.	1.7	70
10	Development of three-dimensional numerical manifold method for jointed rock slope stability analysis. International Journal of Rock Mechanics and Minings Sciences, 2013, 64, 22-35.	2.6	68
11	Effects of anisotropic permeability of fractured rock masses on underground oil storage caverns. Tunnelling and Underground Space Technology, 2010, 25, 629-637.	3.0	61
12	UDEC–AUTODYN Hybrid Modeling of a Large-Scale Underground Explosion Test. Rock Mechanics and Rock Engineering, 2015, 48, 737-747.	2.6	59
13	Fully Grouted Rock Bolts: An Analytical Investigation. Rock Mechanics and Rock Engineering, 2015, 48, 1181-1196.	2.6	54
14	Prediction model of tunnel boring machine performance by ensemble neural networks. Geomechanics and Geoengineering, 2007, 2, 123-128.	0.9	53
15	Design of structural modular neural networks with genetic algorithm. Advances in Engineering Software, 2003, 34, 17-24.	1.8	52
16	An improved three-dimensional spherical DDA model for simulating rock failure. Science China Technological Sciences, 2015, 58, 1533-1541.	2.0	50
17	Numerical investigation of the direct tensile behaviour of laminated and transversely isotropic rocks containing incipient bedding planes with different strengths. Computers and Geotechnics, 2018, 104, 373-388.	2.3	50
18	DEM simulation of mortar-bolt interface behaviour subjected to shearing. Construction and Building Materials, 2018, 185, 120-137.	3.2	50

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19	A detailed investigation of block dynamic sliding by the discontinuous deformation analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 2373-2393.	1.7	49
20	On the shear failure of incipient rock discontinuities under CNL and CNS boundary conditions: Insights from DEM modelling. Engineering Geology, 2018, 234, 153-166.	2.9	48
21	An optimal neural network and concrete strength modeling. Advances in Engineering Software, 2002, 33, 117-130.	1.8	46
22	A fuzzy system for concrete bridge damage diagnosis. Computers and Structures, 2002, 80, 629-641.	2.4	46
23	The vertex-to-vertex contact analysis in the two-dimensional discontinuous deformation analysis. Advances in Engineering Software, 2012, 45, 1-10.	1.8	46
24	Numerical studies on rockbolts mechanism using 2D discontinuous deformation analysis. Tunnelling and Underground Space Technology, 2014, 41, 223-233.	3.0	44
25	An alternative scheme for the corner–corner contact in the two-dimensional Discontinuous Deformation Analysis. Advances in Engineering Software, 2010, 41, 206-212.	1.8	42
26	Numerical investigation of the opening effect on the mechanical behaviours in rocks under uniaxial loading using hybrid continuum-discrete element method. Computers and Geotechnics, 2017, 90, 55-72.	2.3	41
27	Development of Rock Bolt Elements in Two-Dimensional Discontinuous Deformation Analysis. Rock Mechanics and Rock Engineering, 2014, 47, 2157-2170.	2.6	40
28	Design of ensemble neural network using the Akaike information criterion. Engineering Applications of Artificial Intelligence, 2008, 21, 1182-1188.	4.3	38
29	Modeling bimaterial interface cracks using the numerical manifold method. Engineering Analysis With Boundary Elements, 2013, 37, 464-474.	2.0	37
30	Development of contact algorithm for three-dimensional numerical manifold method. International Journal for Numerical Methods in Engineering, 2014, 97, 423-453.	1.5	37
31	Pile response subjected to rock blasting induced ground vibration near soil-rock interface. Computers and Geotechnics, 2017, 82, 1-15.	2.3	37
32	Development of a new deformation-controlled rock bolt: Numerical modelling and laboratory verification. Tunnelling and Underground Space Technology, 2020, 98, 103305.	3.0	36
33	Concrete bridge deterioration diagnosis using fuzzy inference system. Advances in Engineering Software, 2001, 32, 317-325.	1.8	35
34	Stability of piezoelectric FGM rectangular plates subjected to non-uniformly distributed load, heat and voltage. Advances in Engineering Software, 2008, 39, 121-131.	1.8	35
35	Coupled hydro-mechanical model for fractured rock masses using the discontinuous deformation analysis. Tunnelling and Underground Space Technology, 2013, 38, 506-516.	3.0	35
36	Experimental and Numerical Study on the Interface Behaviour Between the Rock Bolt and Bond Material. Rock Mechanics and Rock Engineering, 2019, 52, 869-879.	2.6	35

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37	TUNNEL BLASTING SIMULATIONS BY THE DISCONTINUOUS DEFORMATION ANALYSIS. International Journal of Computational Methods, 2011, 08, 277-292.	0.8	34
38	A simplified model for predicting grout flow in fracture channels. Tunnelling and Underground Space Technology, 2017, 70, 11-18.	3.0	34
39	Tensile strength of large-scale incipient rock joints: a laboratory investigation. Acta Geotechnica, 2018, 13, 869-886.	2.9	33
40	Stability Charts for Homogenous Soil Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 2212-2218.	1.5	32
41	Determination of three dimensional hydraulic conductivities using a combined analytical/neural network model. Tunnelling and Underground Space Technology, 2011, 26, 310-319.	3.0	31
42	3D Particle-Based DEM Investigation into the Shear Behaviour of Incipient Rock Joints with Various Geometries of Rock Bridges. Rock Mechanics and Rock Engineering, 2018, 51, 3563-3584.	2.6	31
43	Effect of bolt configuration on the interface behaviour between a rock bolt and bond material: A comprehensive DDA investigation. Computers and Geotechnics, 2019, 105, 116-128.	2.3	31
44	Block fracturing analysis using nodalâ€based discontinuous deformation analysis with the double minimization procedure. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 881-902.	1.7	30
45	Failure Criterion of Concrete under Triaxial Stresses Using Neural Networks. Computer-Aided Civil and Infrastructure Engineering, 2002, 17, 68-73.	6.3	28
46	Steel columns under fire—a neural network based strength model. Advances in Engineering Software, 2006, 37, 97-105.	1.8	28
47	The grain effect of intact rock modelling using discrete element method with Voronoi grains. Geotechnique Letters, 2016, 6, 136-143.	0.6	27
48	An analytical model for shear behaviour of bolted rock joints. International Journal of Rock Mechanics and Minings Sciences, 2019, 121, 104019.	2.6	26
49	High velocity impact mitigation with gradient cellular solids. Composites Part B: Engineering, 2016, 85, 93-101.	5.9	25
50	An Analytical Model for Fully Grouted Rockbolts with Consideration of the Pre- and Post-yielding Behavior. Rock Mechanics and Rock Engineering, 2017, 50, 3019-3028.	2.6	25
51	Numerical investigation of crack growth in concrete subjected to compression by the generalized beam lattice model. Computational Mechanics, 2009, 43, 277-295.	2.2	24
52	Investigation of linear dependence problem of three-dimensional partition of unity-based finite element methods. Computer Methods in Applied Mechanics and Engineering, 2012, 233-236, 137-151.	3.4	24
53	Implementation of displacement-dependent Barton-Bandis rock joint model into discontinuous deformation analysis. Computers and Geotechnics, 2017, 86, 1-8.	2.3	24
54	On the Implementation of augmented Lagrangian method in the twoâ€dimensional discontinuous deformation Analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 551-571.	1.7	23

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55	Rock Slope Stability and Stabilization Analysis Using the Coupled DDA and FEM Method: NDDA Approach. International Journal of Geomechanics, 2018, 18, 04018044.	1.3	22
56	Boundary stress calculationâ $\in$ "a comparison study. Computers and Structures, 1999, 71, 77-85.	2.4	21
57	Augmented Numerical Manifold Method with implementation of flat-top partition of unity. Engineering Analysis With Boundary Elements, 2015, 61, 153-171.	2.0	21
58	Development of a Unified Rock Bolt Model in Discontinuous Deformation Analysis. Rock Mechanics and Rock Engineering, 2018, 51, 827-847.	2.6	21
59	DDA based grouting prediction and linkage between fracture aperture distribution and grouting characteristics. Computers and Geotechnics, 2019, 112, 350-369.	2.3	21
60	Influence of workmanship on the bonding strength of tiles to external walls. International Journal of Adhesion and Adhesives, 1997, 17, 47-53.	1.4	20
61	MODELING BRITTLE FRACTURE WITH THE NODAL-BASED DISCONTINUOUS DEFORMATION ANALYSIS. International Journal of Computational Methods, 2013, 10, 1350040.	0.8	20
62	Energy absorption of graded foam subjected to blast: A theoretical approach. Materials and Design, 2015, 84, 351-358.	3.3	20
63	Effects of joints on the reinforced rock units of fully-grouted rockbolts. Tunnelling and Underground Space Technology, 2018, 71, 15-26.	3.0	20
64	Analytical modeling of shear behaviors of rockbolts perpendicular to joints. Construction and Building Materials, 2018, 175, 286-295.	3.2	19
65	Analysis of mechanically fastened composite joints by boundary element methods. Composites Part B: Engineering, 2000, 31, 693-705.	5.9	18
66	Numerical modelling of a field soil desiccation test using a cohesive fracture model with Voronoi tessellations. Acta Geotechnica, 2018, 13, 87-102.	2.9	18
67	Broad-spectrum fracture toughness of an anisotropic sandstone under mixed-mode loading. Theoretical and Applied Fracture Mechanics, 2018, 96, 556-575.	2.1	18
68	Two-dimensional and three-dimensional magnification factors, Mk, for non-load-carrying fillet welds cruciform joints. Engineering Fracture Mechanics, 2000, 65, 435-453.	2.0	17
69	Investigation on strength and stability of jointed rock mass using threeâ€dimensional numerical manifold method. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 2348-2366.	1.7	17
70	Modeling of Rock Joints Under Cyclic Loading Conditions Using Discontinuous Deformation Analysis. Rock Mechanics and Rock Engineering, 2017, 50, 1205-1215.	2.6	17
71	Comparative study of Sarma's method and the discontinuous deformation analysis for rock slope stability analysis. Geomechanics and Geoengineering, 2011, 6, 293-302.	0.9	16
72	Error estimation and h adaptive boundary elements. Engineering Analysis With Boundary Elements, 1999, 23, 793-803.	2.0	15

#	Article	IF	CITATIONS
73	Modified generalized beam lattice model associated with fracture of reinforced fiber/particle composites. Theoretical and Applied Fracture Mechanics, 2008, 50, 132-141.	2.1	14
74	Proof of linear independence of flat-top PU-based high-order approximation. Engineering Analysis With Boundary Elements, 2014, 44, 104-111.	2.0	14
75	Evaluation of equivalent hydraulic aperture (EHA) for rough rock fractures. Canadian Geotechnical Journal, 2019, 56, 1486-1501.	1.4	14
76	Design of ensemble neural network using entropy theory. Advances in Engineering Software, 2011, 42, 838-845.	1.8	13
77	Design of Metal Foam Cladding Subjected to Close-Range Blast. Journal of Performance of Constructed Facilities, 2015, 29, .	1.0	13
78	Rock Cavern Stability Analysis Under Different Hydro-Geological Conditions Using the Coupled Hydro-Mechanical Model. Rock Mechanics and Rock Engineering, 2016, 49, 555-572.	2.6	13
79	A field study on pile response to blast-induced ground motion. Soil Dynamics and Earthquake Engineering, 2018, 114, 568-575.	1.9	13
80	Influence of fracture deformation on grout penetrability in fractured rock masses. Tunnelling and Underground Space Technology, 2020, 102, 103431.	3.0	13
81	Stress recovery procedure for discontinuous deformation analysis. Advances in Engineering Software, 2009, 40, 52-57.	1.8	12
82	Effects of Water Related Factors on Pre-grouting in Hard Rock Tunnelling. Procedia Engineering, 2016, 165, 300-307.	1.2	12
83	Bearing capacity analysis using the method of characteristics. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 179-188.	1.5	11
84	Determination of hydraulic conductivity of fractured rock masses: AÂcase study for a rock cavern project in Singapore. Journal of Rock Mechanics and Geotechnical Engineering, 2015, 7, 178-184.	3.7	11
85	Grouting knowledge discovery based on data mining. Tunnelling and Underground Space Technology, 2020, 95, 103093.	3.0	11
86	INTERELEMENT STRESS EVALUATION BY BOUNDARY ELEMENTS. International Journal for Numerical Methods in Engineering, 1996, 39, 2399-2415.	1.5	10
87	A simple method to simulate shrinkage-induced cracking in cement-based composites by lattice-type modeling. Computational Mechanics, 2009, 43, 477-492.	2.2	10
88	Low frequency acoustic signals associated with rock falls, thunderstorms, and wind turbulences in field environment. Applied Acoustics, 2016, 112, 131-139.	1.7	10
89	Back-analysis approach for the determination of hydraulic conductivity in rock caverns. Tunnelling and Underground Space Technology, 2015, 47, 233-238.	3.0	8
90	Numerical Simulation of P-Wave Propagation in Rock Mass with Granular Material-Filled Fractures Using Hybrid Continuum-Discrete Element Method. Rock Mechanics and Rock Engineering, 2016, 49, 4049-4060.	2.6	8

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91	Simulating stress wave with flat-top partition of unity based high-order discontinuous deformation analysis. Engineering Analysis With Boundary Elements, 2018, 91, 110-123.	2.0	8
92	Numerical Modelling of Fully Grouted Rockbolts Subjected to Shear Load. Rock Mechanics and Rock Engineering, 2020, 53, 2493-2503.	2.6	8
93	An alternative approach to shape design sensitivity analysis. International Journal for Numerical Methods in Engineering, 1992, 35, 1071-1086.	1.5	7
94	On the calculation of boundary stresses in boundary elements. Engineering Analysis With Boundary Elements, 1995, 16, 317-322.	2.0	7
95	Evaluation of singular integrals in the symmetric Galerkin boundary element method. Advances in Engineering Software, 2004, 35, 781-789.	1.8	7
96	Information and knowledge behind data from underground rock grouting. Journal of Rock Mechanics and Geotechnical Engineering, 2021, 13, 1326-1339.	3.7	7
97	Mitigating Ground Shocks with Cellular Solids. Journal of Engineering Mechanics - ASCE, 2013, 139, 1362-1371.	1.6	6
98	Improvement of contact calculation in spherical discontinuous deformation analysis. Science China Technological Sciences, 2017, 60, 765-771.	2.0	6
99	Protection Against Blast Load with Cellular Materials and Structures. International Journal of Aerospace and Lightweight Structures (IJALS), 2012, 02, 53.	0.1	6
100	Preliminary Design System for Concrete Box Girder Bridges. Journal of Computing in Civil Engineering, 2001, 15, 184-192.	2.5	5
101	Numerical implementation of the symmetric Galerkin boundary element method in 2D elastodynamics. International Journal for Numerical Methods in Engineering, 2003, 58, 1049-1060.	1.5	5
102	In-structure shock of underground structures: A revisit with experimental investigation. Engineering Structures, 2013, 56, 1620-1630.	2.6	5
103	Micro- and macro-fractures of coarse granite under true-triaxial unloading conditions. Mining Science and Technology, 2011, 21, 389-394.	0.3	4
104	An Analytical Investigation on the Estimation of Water Inflow into a Circular Tunnel Based On-site Data. Rock Mechanics and Rock Engineering, 2020, 53, 3835-3844.	2.6	4
105	Error estimation in adaptive BEM by postprocessing interpolation. Communications in Numerical Methods in Engineering, 1998, 14, 633-645.	1.3	3
106	A simple error indicator for adaptive boundary element method. Computers and Structures, 1998, 68, 433-443.	2.4	3
107	Dynamic analysis with flat-top partition of unity-based discontinuous deformation analysis. Computers and Geotechnics, 2018, 98, 35-47.	2.3	3
108	Stress and stress gradient evaluation — a BEM approach. Advances in Engineering Software, 1994, 19, 45-52.	1.8	2

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109	Design sensitivity analysis with hypersingular boundary elements. Engineering Analysis With Boundary Elements, 2000, 24, 485-490.	2.0	2
110	Local refinement of flatâ€ŧop partition of unity based highâ€order approximation. International Journal for Numerical Methods in Engineering, 2018, 116, 465-486.	1.5	2
111	Discontinuous Deformation Analysis for Parallel Hole Cut Blasting in Rock Mass. , 2009, , .		2
112	A numerical study on the elements of shape optimum design. Engineering Analysis With Boundary Elements, 1992, 9, 339-349.	2.0	1
113	Shape design sensitivity analysis of kinematical boundaries. Structural Optimization, 1993, 5, 190-196.	0.7	Ο
114	Direct Continuum Approach to Threeâ€Dimensional Sensitivity Analysis. Journal of Engineering Mechanics - ASCE, 1993, 119, 2143-2156.	1.6	0
115	A preliminary study of the economic dimension of underground rock caverns for water storage at Singapore. , 2018, , .		0